

## Burlington Development Review Board

149 Church Street, City Hall  
Burlington, VT 05401

[www.burlingtonvt.gov/pz/DRB](http://www.burlingtonvt.gov/pz/DRB)

Telephone: (802) 865-7188

Fax (802) 865-7195

Brad Rabinowitz  
AJ LaRosa  
Austin Hart  
Springer Harris  
Geoff Hand  
Alexandra Zipparo  
Samantha Tilton  
Jim Drummond, (Alternate)  
Zoraya Hightower, (Alternate)



### BURLINGTON DEVELOPMENT REVIEW BOARD Tuesday December 18th, 2018, 5:00 PM PUBLIC HEARING NOTICE

**The Burlington Development Review Board will hold a meeting on  
Tuesday December 18th, 2018 at 5:00pm in Contois Auditorium, City Hall.**

- 1. 19-0436AP; 15-17 Weston St (RL, Ward 8E) Phillip Irwin Aaron**  
Appeal of NOV 345151 relating to occupancy of a dwelling by more than 4 unrelated adults.
- 2. 19-00395CA/CU; 65 Oakledge (RL-W, Ward 5S) 65 Oakledge Trust**  
Construct new single-family home with accessory dwelling unit, associated site improvements included.

Plans may be viewed in the Planning and Zoning Office, (City Hall, 149 Church Street, Burlington), between the hours of 8:00 a.m. and 4:30 p.m.

Participation in the DRB proceeding is a prerequisite to the right to take any subsequent appeal. Please note that ANYTHING submitted to the Planning and Zoning office is considered public and cannot be kept confidential.

This may not be the final order in which items will be heard. Please view final Agenda, at [www.burlingtonvt.gov/pz/drdb/agendas](http://www.burlingtonvt.gov/pz/drdb/agendas) or the office notice board, one week before the hearing for the order in which items will be heard.

*The programs and services of the City of Burlington are accessible to people with disabilities. Individuals who require special arrangements to participate are encouraged to contact the Department of Planning & Zoning at least 72 hours in advance so that proper accommodations can be arranged. For information call 865-7188 (TTY users: 865-7142).*

Printed on 100% Recycled Paper

## Department of Planning and Zoning

149 Church Street  
Burlington, VT 05401  
Telephone: (802) 865-7188  
(802) 865-7195 (FAX)  
(802) 865-7142 (TTY)

David White, FAICP, Director  
Meagan Tuttle, AICP, Comprehensive Planner  
Jay Appleton, GIS Manager  
Scott Gustin, AICP, CFM, Principal Planner  
Mary O'Neil, AICP, Principal Planner  
Ryan Morrison, Associate Planner  
Layne Darfler, Planning Technician  
Shaleigh Draper, Zoning Clerk



**TO:** Development Review Board  
**FROM:** Scott Gustin  
**DATE:** December 18, 2018  
**RE:** 19-0355CA; 441 Shelburne Street

=====

**Note: These are staff comments only; decisions on projects are made by the Development Review Board, which may approve, deny, table or modify any project. THE APPLICANT OR REPRESENTATIVE MUST ATTEND THE MEETING.**

Zone: RM Ward: 5S

Owner/Applicant: Mitchel Richardson

**Request:** Convert existing boarding house and duplex to a 10-unit multifamily apartment building and related site improvements. Replaces expired zoning permit 17-0138CA for the same work.

### **Applicable Regulations:**

Article 4 (Maps & Districts), Article 5 (Citywide General Regulations), Article 6 (Development Criteria & Guidelines), Article 8 (Parking), Article 10 (Subdivision)

### **Background Information:**

The applicant is seeking approval for the proposed conversion of a duplex/boarding house to a 10-unit apartment building. Associated site work, primarily related to parking and circulation, is also included in the proposal. While the number of proposed units exceeds the 5-unit threshold for major impact review, the project qualifies for an exemption from major impact because the conversion will take place within the existing building. Inclusionary housing will be required.

Zoning permit 17-0138CA was approved October 4, 2016 for the same project. That permit expired on October 4, 2018. Despite being reminded to do so on September 12, 2018, the applicant failed to seek a permit extension prior to the expiration date. The project is not yet complete. Therefore, the applicant is seeking approval of the same project in order to finish it.

This application was initially scheduled for the Development Review Board on November 20, 2018. The applicant was not present, and the DRB deferred review of the project until December 18, 2018.

Previous zoning actions for this property are noted below.

- 10/4/16, Approval to convert to 10-unit apartment building and related site work
- 2/2/16, Sketch plan review for conversion to 10-unit apartment building
- 6/10/15, Non-applicability of zoning permit requirement issued for partial reconstruction of structure in-kind
- 4/29/15, Non-applicability of zoning permit requirement issued for in-kind siding replacement



- 11/30/07, Approval to modify onsite parking
- 8/7/03, Approval for stair and window replacement
- 8/12/82, Approval to establish convalescent home
- 7/22/82, Denial of requested convalescent home
- 7/16/82, Approval to demolish catwalk between structures
- 10/6/81, Denial to connect two buildings on adjacent lots
- 11/11/80, Approval to install garage doors
- 11/20/73, Denial to allow canoe rental business as home occupation
- 9/5/72, Approval to a 20-child daycare center

**Recommendation: Certificate of appropriateness approval** as per, and subject to, the following findings and conditions:

## **I. Findings**

### **Article 4: Maps & Districts**

#### ***Sec. 4.4.5, Residential Districts:***

##### ***(a) Purpose***

##### ***(3) Residential Medium Density (RM)***

The subject property is located in the RM zone. This zone is primarily intended for medium density residential development in the form of single-detached dwellings and attached multi-family apartment buildings. The proposed conversion to a 10-unit apartment building is consistent with this intent. **(Affirmative finding)**

##### ***(b) Dimensional Standards & Density***

Two parcels and an adjacent vestigial alley are to be combined resulting in a 0.44 acre parcel. The proposed 10 dwelling units are within the maximum permissible 25 units/acre (with inclusionary units) allowed within the RM zone.

As proposed, standard lot coverage will total 47.9%. Per Table 9.1.13-2, *Lot Coverage Allowance Table*, (for provision of inclusionary housing) 48% lot coverage is allowed within the RM zone. There will be an additional 8.8% “accessory” coverage as allowed under Sec. 4.4.5 (d) 3 for walkways, patios, and the like.

Except for the removal and installation of some small accessory components, building setbacks will remain unchanged. Some existing encroachment of the driveway in the vestigial alley will remain. Other encroachment appears to be reduced. The proposed parking area will comply with the minimum required 5’ side yard setback. It will be about 10’ from the north side yard. It is set back 13’ from the Lyman Avenue front property boundary. This setback is the average of the two neighboring properties to the west, +/- 5. In this case, the average is about 16.’ The 13’ setback proposed is within the +/- 5’ allowed. As a corner lot, there is no rear yard.

Building height will remain unchanged. **(Affirmative finding)**

##### ***(c) Permitted & Conditional Uses***

The proposed multi-family housing is a permitted use in the RM zone. **(Affirmative finding)**

##### ***(d) District Specific Regulations***

### **1. Setbacks**

No setback encroachment is sought under this criterion.

### **2. Height**

No height exceptions are sought.

### **3. Lot Coverage**

As noted above, 8.8% of the total lot coverage consists of accessory features like open porches and walkways. This 8.8% is within the 10% afforded to such features. **(Affirmative finding)**

### **4. Accessory Residential Structures and Uses**

No new accessory residential structures or uses are included in this proposal.

### **5. Residential Density**

All of the proposed residential units are subject to occupancy by a family as defined in the CDO. **(Affirmative finding as conditioned)**

### **6. Uses**

Not applicable.

### **7. Residential Development Bonuses**

None are sought except for by-right bonuses associated with required inclusionary housing.

## **Article 5: Citywide General Regulations**

### **Sec. 5.2.3, Lot Coverage Requirements**

See Sec. 4.4.5 (b) above.

### **Sec. 5.2.4, Buildable Area Calculation**

Not applicable.

### **Sec. 5.2.5, Setbacks**

See Sec. 4.4.5 (b) above.

### **Sec. 5.2.6, Building Height Limits**

See Sec. 4.4.5 (b) above.

### **Sec. 5.2.7, Density and Intensity of Development Calculations**

See Sec. 4.5.5 (b) above.

### **Sec. 5.5.1, Nuisance Regulations**

Nothing in the proposal appears to constitute a nuisance under this criterion. **(Affirmative finding)**

### **Sec. 5.5.2, Outdoor Lighting**

A photometric plan and associated lighting fixture cut sheets have been provided. Illumination levels are acceptable for all environments – walkways, entries, and the under-building parking. No lighting of the surface parking is proposed, although, adjacent walkways will be illuminated. Proposed light fixtures are acceptable and include cutoff and/or low level illumination fixtures. **(Affirmative finding)**

### ***Sec. 5.5.3, Stormwater and Erosion Control***

The proposed stormwater management plan emphasizes infiltration. Two underground infiltration chambers and a rain garden are proposed. Captured stormwater will be directed into these facilities for onsite filtration. The stormwater management plan was approved by the Stormwater Administrator as part of the 2016 zoning permit review. **(Affirmative finding)**

## **Article 6: Development Review Standards:**

### ***Part 1: Land Division Design Standards***

#### ***Sec. 6.1.2 Review Standards***

No subdivision is proposed. A merger of existing parcels is proposed. See Article 10 below.

### ***Part 2, Site Plan Design Standards***

#### ***Sec. 6.2.2, Review Standards***

##### ***(a) Protection of important natural features***

The site contains no significant natural areas as identified in the Open Space Protection Plan. It appears that all but one of the existing trees will be retained. **(Affirmative finding)**

##### ***(b) Topographical alterations***

The property is essentially flat and will remain so. The only grading work of note is associated with the proposed ramps for handicap access into the residence. Existing under-building parking spaces along the building's Lyman Avenue frontage will be retained. **(Affirmative finding)**

##### ***(c) Protection of important public views***

There are no significant public views from or through the subject property. **(Affirmative finding)**

##### ***(d) Protection of important cultural resources***

The building is not included on an historic register, nor is it eligible for inclusion. The proposed conversion to multi-family housing will have no adverse impact on historic or cultural resources. **(Affirmative finding)**

##### ***(e) Supporting the use of alternative energy***

Nothing within the project plans contemplate utilization of alternative energy resources. Present energy efficiency codes of the city and state will apply to the renovations. **(Affirmative finding as conditioned)**

##### ***(f) Brownfield sites***

The site is not included on the Vermont DEC Hazardous Site List. **(Affirmative finding)**

##### ***(g) Provide for nature's events***

See Sec. 5.5.3 for stormwater management. Space is available on either side of the parking spaces for seasonal snow storage. **(Affirmative finding)**

##### ***(h) Building location and orientation***

Existing building location and orientation will not change. The L-shaped building is set to the street corner and has entries facing Shelburne Street and Lyman Avenue. **(Affirmative finding)**

##### ***(i) Vehicular access***

Vehicular access from Lyman Avenue will be retained, but parking will be reconfigured and formalized as noted in criterion (l) below. **(Affirmative finding)**

*(j) Pedestrian access*

Walkways will connect the front entries to the public sidewalks. New walkways behind the building will provide access into the building from the parking area. As recommended at sketch plan review, a walkway will provide a connection between the parking area and these interior walkways and associated ramps leading into the building. **(Affirmative finding)**

*(k) Accessibility for the handicapped*

ADA parking and related ramps are depicted on the site plan. It is the applicant's responsibility to comply with all applicable ADA requirements as administered through the building code. **(Affirmative finding as conditioned)**

*(l) Parking and circulation*

The reconfigured parking area will be located behind the building as perceived from Shelburne Street and to the side of the building as perceived from Lyman Avenue. New landscaping will be installed to screen the parking from Lyman Avenue. See Article 8 for dimensional details as to parking spaces and circulation. **(Affirmative finding)**

*(m) Landscaping, fences, and retaining walls*

A detailed landscaping plan has been provided. New landscaping will accentuate the central front entry facing Shelburne Street and enhance the grounds generally. As noted above, landscaping will be installed to screen the surface parking from Lyman Avenue and to provide a border along the access drive. The proposed rain garden will also be vegetated with a variety of wet-tolerant species. **(Affirmative finding)**

*(n) Public plazas and open space*

No public plazas or open space are included in this proposal.

*(o) Outdoor lighting*

See Sec. 5.5.2.

*(p) Integrate infrastructure into the design*

No new outdoor mechanical equipment is apparent in the site plan. No dumpster is depicted on the project plans. There is a trash enclosure area tucked behind the building and below grade. The application contains a proposal from Casella Waste Systems that articulates how trash and recycling will be handled. Trash totes will be stored in the noted trash enclosure area. They will be handled by the waste service company – moved, emptied, and returned. Recycling will be handled by the Department of Public Works. Any new utility lines must be buried. **(Affirmative finding)**

**Part 3, Architectural Design Standards**

**Sec. 6.3.2, Review Standards**

**(a) Relate development to its environment**

**1. Massing, Height, and Scale**

Massing, height, and scale of the building remain essentially unchanged. Proposed cladding changes and differentiation among materials reduces perceived mass of the overall building. **(Affirmative finding)**

*2. Roofs and Rooflines*

The gable roofs of the two original structures remain essentially unchanged. The middle connecting structure will receive a new flat roof. This alteration further serves to reduce the overall perceived mass of the building. **(Affirmative finding)**

*3. Building Openings*

Windows will be replaced throughout the building. A number of additional windows will be installed too. The resultant fenestration pattern is consistent and appropriate for a residential structure. **(Affirmative finding)**

*(b) Protection of important architectural resources*

The subject building is not historically significant, nor is it eligible for listing on an historic register. Alterations to it have no adverse effect on Burlington's diversity of historic resources. **(Affirmative finding)**

*(c) Protection of important public views*

See 6.2.2 (c) above.

*(d) Provide an active and inviting street edge*

The building's street presence along Shelburne Street will be strengthened with the introduction of two additional entries, including a well-defined central entry. New landscaping and walkways will enhance the connectivity between the residence and the street. A secondary entrance will continue to face Lyman Avenue along with an associated walkway and patio area. **(Affirmative finding)**

*(e) Quality of materials*

Rather than replace exterior siding in-kind as previously approved, new composite wooden clapboard siding will be installed in sections of 4" and 8" reveal on the two original structures. The connecting structure will be clad mostly in ribbed metal siding. Vinyl windows will be installed throughout. Composite decking is proposed on the porches and exterior stairs. Ramps will be wooden with steel cable and rail systems. Asphalt shingle roofing will be installed on the gable roofs with membrane on the flat roof portion. These materials are of acceptable quality. **(Affirmative finding)**

*(f) Reduce energy utilization*

Few energy details are included in the application plans. The new building must comply with the current energy efficiency requirements of the city and state. **(Affirmative finding as conditioned)**

*(g) Make advertising features complimentary to the site*

Not applicable.

*(h) Integrate infrastructure into the building design*

No exterior mechanical equipment, rooftop or otherwise, is evident in the project plans. Any rooftop equipment, if proposed, must be screened from public view as perceived from the street.

Mailboxes will be contained within the foyer of the primary building entry. **(Affirmative finding as conditioned)**

*(i) Make spaces safe and secure*

The project underwent technical review on April 14, 2016. The fire marshal provided written comment to the applicants based on that review. Building accessibility by emergency service vehicles appears to be adequate. **(Affirmative finding)**

**Article 8: Parking**

***Sec. 8.1.8, Minimum Off-Street Parking Requirements***

The subject property is located in the neighborhood parking district. As a result, each of the 10 dwelling units requires 2 parking spaces – a total of 20 parking spaces in this case. As proposed, 10 parking spaces will be provided for the residences. A 10-space parking waiver is sought. The required parking management plan has been provided. See Sec. 8.1.15 below relative to the merits of the parking management plan. **(Affirmative finding)**

***Sec. 8.1.9, Maximum Parking Spaces***

This section limits surface parking to 125% of the Neighborhood Parking District minimum parking requirement. As noted above, 20 spaces are required, and 10 are proposed. As a 50% parking waiver is sought, parking is obviously nowhere near the maximum parking limitation. **(Affirmative finding)**

***Sec. 8.1.10, Off-Street Loading Requirements***

Not applicable.

***Sec. 8.1.11, Parking Dimensional Requirements***

The two parking spaces under the building are compliant with the standard 9' X 20' size. These two spaces exist presently and back up into Lyman Avenue. The 7 of the 8 surface parking spaces measure 9' X 18.' The 1 handicap space, including the striped landing area, is wider. These spaces are acceptable under the compact car standards of Table 8.1.11-1, *Minimum Parking Dimensions*. Back-up length is 20' as required per Table 8.1.11-1. A circulation diagram has been provided that demonstrates sufficiency of circulation space for vehicles to enter and exit the site forward (rather than having to back into or out of the site). **(Affirmative finding)**

***Sec. 8.1.12, Limitations, Location, Use of Facilities***

*(a) Offsite parking facilities*

**(Not applicable)**

*(b) Downtown street level setback*

**(Not applicable)**

*(c) Front yard parking restricted*

As noted in Sec. 4.4.5 (b), proposed parking is set behind the front yard setback.

**(Affirmative finding)**

*(d) Shared parking in the Neighborhood Parking Districts*

**(Not applicable)**

(e) *Single story structures in Shared Use Districts*  
**(Not applicable)**

(f) *Joint use of facilities*  
**(Not applicable)**

(g) *Availability of facilities*  
None of the proposed parking will be used for the storage or display of vehicles or materials by offsite users. Parking will be for residents only. **(Affirmative finding)**

(h) *Compact car parking*  
As noted above, 8 of the parking spaces qualify as “compact.” The 15% limitation associated with this criterion applies only to structured parking. **(Affirmative finding)**

#### ***Sec. 8.1.13, Parking for Disabled Persons***

The site plans depict one handicap parking space in close proximity to a walkway connecting to a building entrance. Associated striping is also shown. ADA compliance is administered via the city’s building permit process. **(Affirmative finding as conditioned)**

#### ***Sec. 8.1.14, Stacked and Tandem Parking Restrictions*** **(Not applicable)**

#### ***Sec. 8.1.15, Waivers from Parking Requirements/Parking Management Plans***

The applicant is seeking a 50% parking waiver for the residences. This percentage is the maximum possible. A parking management plan has been provided.

The project contains eight 1-bedroom and studio apartments, one 2-bedroom apartment, and one 3-bedroom apartment. It is located on very close proximity to active CCTA bus stops with local and regional service. The property is walkable to the Price Chopper and Shaw’s strip malls – both about ¼ mile away. There is a CarShare Vermont pod about ½ mile away on Flynn Avenue. The parking management plan refers to another closer Carshare pod at Price Chopper, but this would-be pod has not been established. Two other pods are located further away at Lakeside Avenue and Locust Street. As required, onsite bike parking for residents will be provided.

The parking management plan calls for restricting each apartment to 1 onsite parking space. The plan also asserts that tenants will be provided CCTA bus passes, but details are not yet provided. In order to be effective, this provision must be available on an ongoing basis, but there is no assurance of that. Similarly, the plan states that tenants will be provided access to Carshare Vermont at the expense of the landlord. Presumably, “access” refers to at least a membership. Details are not yet provided, and at the time of this writing Carshare Vermont had not yet been contacted regarding this proposal. As noted above, the nearest Carshare pod is ½ mile away at Flynn Avenue. Bus passes and Carshare memberships *could* support reduced vehicle ownership by tenants, depending on details such as ongoing bus pass availability and sustained Carshare memberships. The parking management plan; however, lacks these key details and leaves much to assumption.

The parking management plan posits that anticipated demographics of residents, particularly within the inclusionary units, suggest lower than average vehicle ownership and cites a Champlain

Housing Trust tenant vehicle ownership rate of 0.7 vehicles per unit and a national statistic of just under 1 vehicle for every American. The applicant asserts that the combination of mostly 1-bedroom/studio dwelling units and inclusionary housing will result in reduced personal vehicle ownership.

The project's close proximity to nearby shopping and active bus routes along with the majority of 1-bedroom or studio units are most likely to reduce vehicle ownership below the 2 spaces per unit standard. The applicant should be prepared to report to the Department of Planning and Zoning actual parking demand numbers each year for 3 years from the date of approval. **(Affirmative finding as conditioned)**

#### ***Sec. 8.2.5, Bicycle Parking Requirements***

The 10 apartments will require at least 2 long term bike parking spaces (such as lockers) and 1 short term space. As proposed, each unit will be provided with 1 long term and 1 short term space. **(Affirmative finding)**

### **Article 9: Inclusionary and Replacement Housing**

#### ***Sec. 9.1.5, Applicability***

As the proposed development includes more than 5 new dwelling units, it is subject to the inclusionary housing provisions of this Article. Fifteen percent of the total unit count must be inclusionary (15% of 10 is 2 dwelling units) in this zone. The project plans note that two of the units will be inclusionary. A certificate of compliance from the manager of the city's Housing Trust Fund was provided following the 2016 zoning permit approval. **(Affirmative finding)**

### **Article 10: Subdivision**

#### ***Sec. 10.1.5, Lot Line Adjustments***

Merger to two adjacent lots and a vestigial alley is included in this proposal. Merger is handled by way of lot line adjustment. As required, a lot line adjustment survey plan has been provided. The mylar was filed in the city's land records following the 2016 zoning permit approval. **(Affirmative finding)**

## **II. Conditions of Approval**

1. If any rooftop mechanical equipment is proposed, it must be screened from view as perceived from the street. Mechanicals and screening shall be subject to staff review and approval.
2. This approval includes a 10-space parking waiver. The applicant shall report back to the Department of Planning & Zoning every year for 3 years following construction with a written summary of actual parking demands.
3. This approval incorporates the trash removal proposal by Casella Waste Systems dated 9.6.16. While the waste service provider may change, the plan for handling trash and recycling must remain.
4. Any encroachments into the public street right-of-way (permanent or temporary and including underground structure such as footings) will require an encumbrance permit via the Department of Public Works.
5. Given the complexity of project design and integration of its various elements, any changes to the project plans must be reviewed and approved by Planning & Zoning staff.



6. Occupancy of each dwelling unit is limited to “family” as defined in Article 13: Definitions of the Comprehensive Development Ordinance.
7. All new utility lines shall be buried.
8. It is the applicant’s responsibility to comply with all applicable ADA requirements.
9. All new construction is required to meet the Guidelines for Energy Efficient Construction pursuant to the requirements of Article VI. Energy Conservation, Section 8 of the City of Burlington Code of Ordinances.
10. Any signage will require a separate sign permit.
11. Standard Conditions 1-15.

# RICHARDSON MULTIFAMILY HOUSING

## PERMIT SUBMITTAL PACKAGE

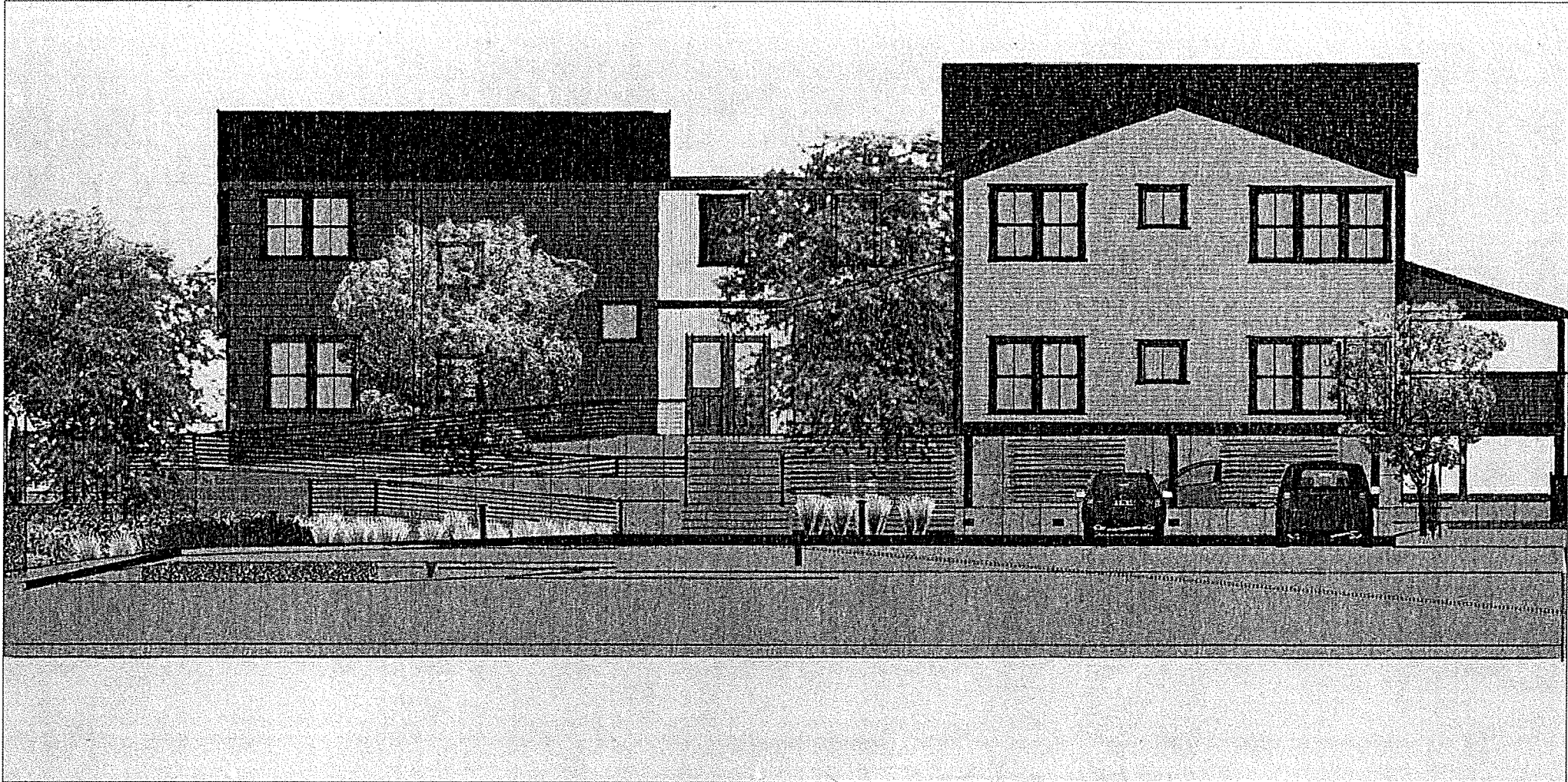
### 435-431 Shelburne Road

OWNER:  
Mitchel Richardson  
PO Box 276  
South Hero, VT  
05486

DEPARTMENT OF  
PLANNING & ZONING

AUG 03 2016

RECEIVED



WEST ELEVATION

#### DRAWING LIST

##### ARCHITECTURAL

- A1.0 Location Map / Existing Photographs
- A2.0 Elevations
- A2.2 Perspective Views
- A2.3 Elevation Material Selections

##### CIVIL

- C0.0 Cover Sheet
- C1.0 Existing Conditions and Demolition Plan
- C1.1 Site Plan
- C1.2 Erosion Prevention and Sediment Control Plan
- C3.0 Water Details
- C3.1 Sewer Details
- C3.2 Drainage Details
- C3.3 Site Details
- C3.4 Erosion Prevention and Sediment Control Details

##### LANDSCAPE

- L100 Site Materials Plan
- L100 Site Materials Plan (Rendered)
- L400 Planting Plan
- L401 Planting Details
- L600 Site Lighting Plan
- L601 Site Lighting Cutsheets

Architects:  
STRUKTUR, PLLC  
47 MAPLE STREET, SUITE 304  
BURLINGTON, VT 05401

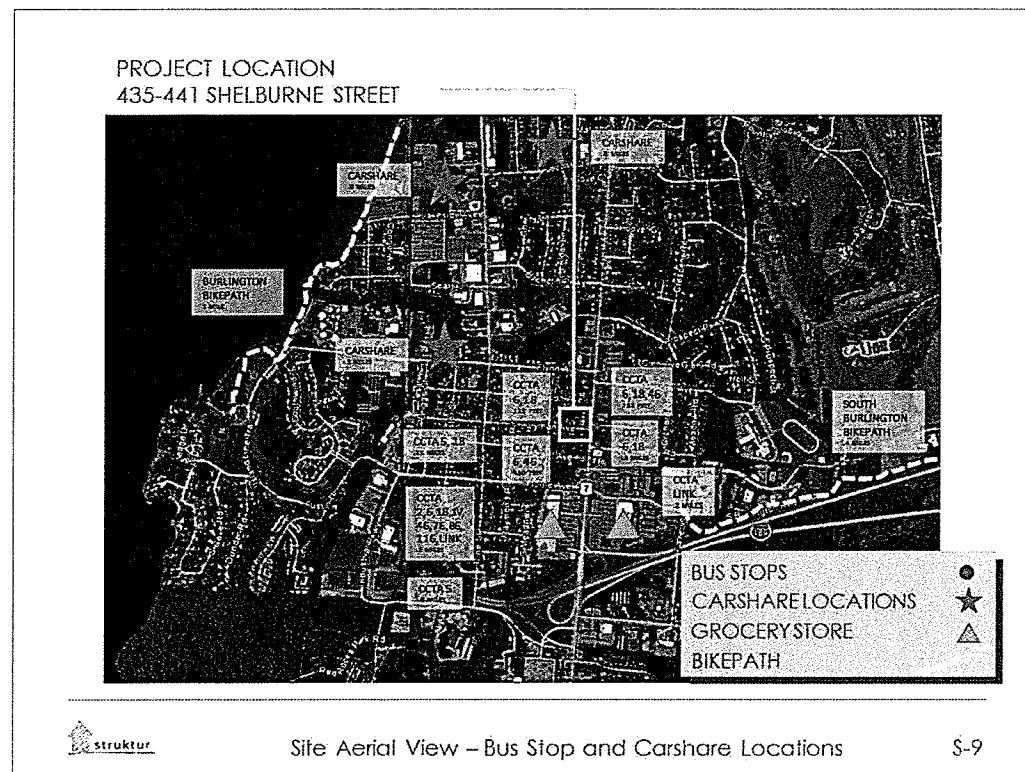
Civil / Structural Engineers:  
ENGINEERING VENTURES  
208 FLYNN AVE, STE 2A  
BURLINGTON, VT 05401

Landscape Architects:  
SE Group  
131 CHURCH STREET, STE 204  
BURLINGTON, VT 05401

PERMIT SUBMITTAL 8.3 2016  
NOT FOR CONSTRUCTION



1 LOCATION MAP



2 TRANSPORTATION/AMENITIES MAP



SOUTHEAST ELEVATION



SOUTH ELEVATION



SOUTHWEST ELEVATION



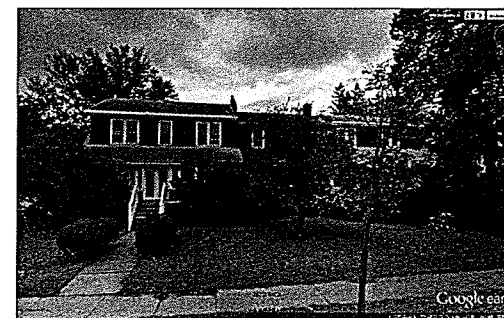
WEST ELEVATION



WEST ELEVATION



SOUTHWEST ELEVATION



EAST ELEVATION



NORTHEAST ELEVATION



NORTHWEST ELEVATION

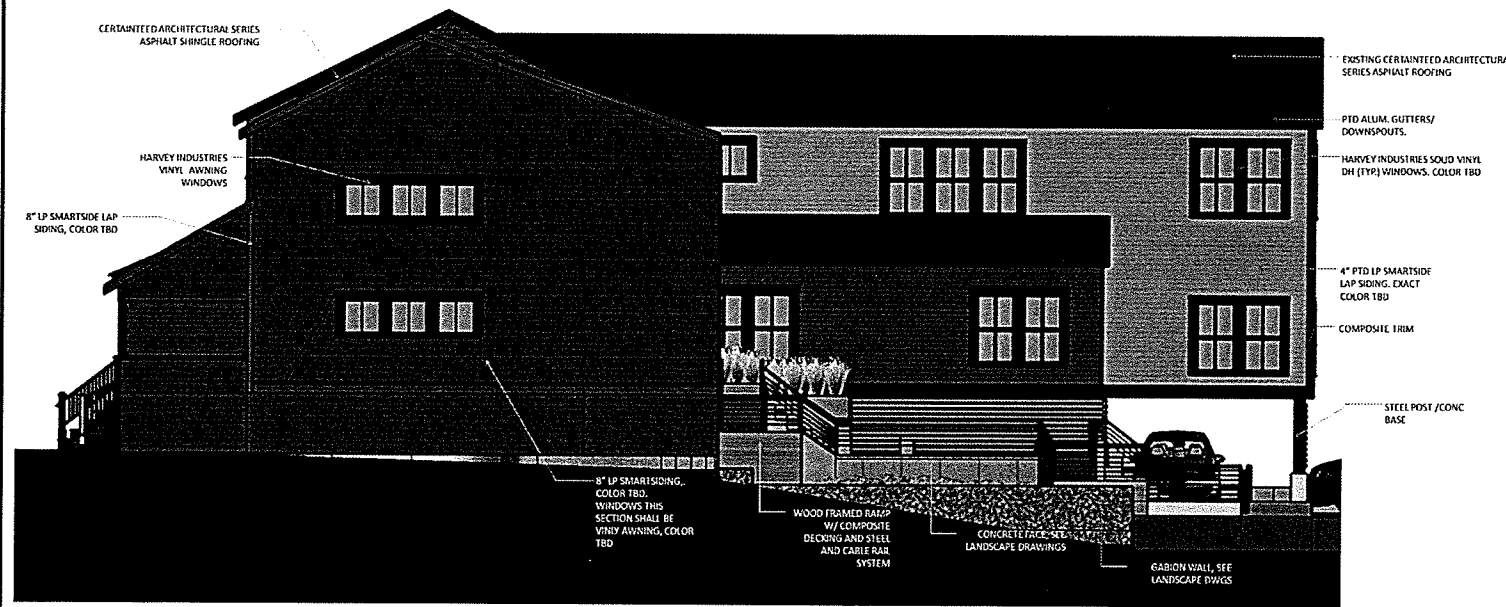


NORTHEAST ELEVATION

3 EXISTING PHOTOGRAPHS

RECEIVED  
AUG 03 2016  
DEPARTMENT

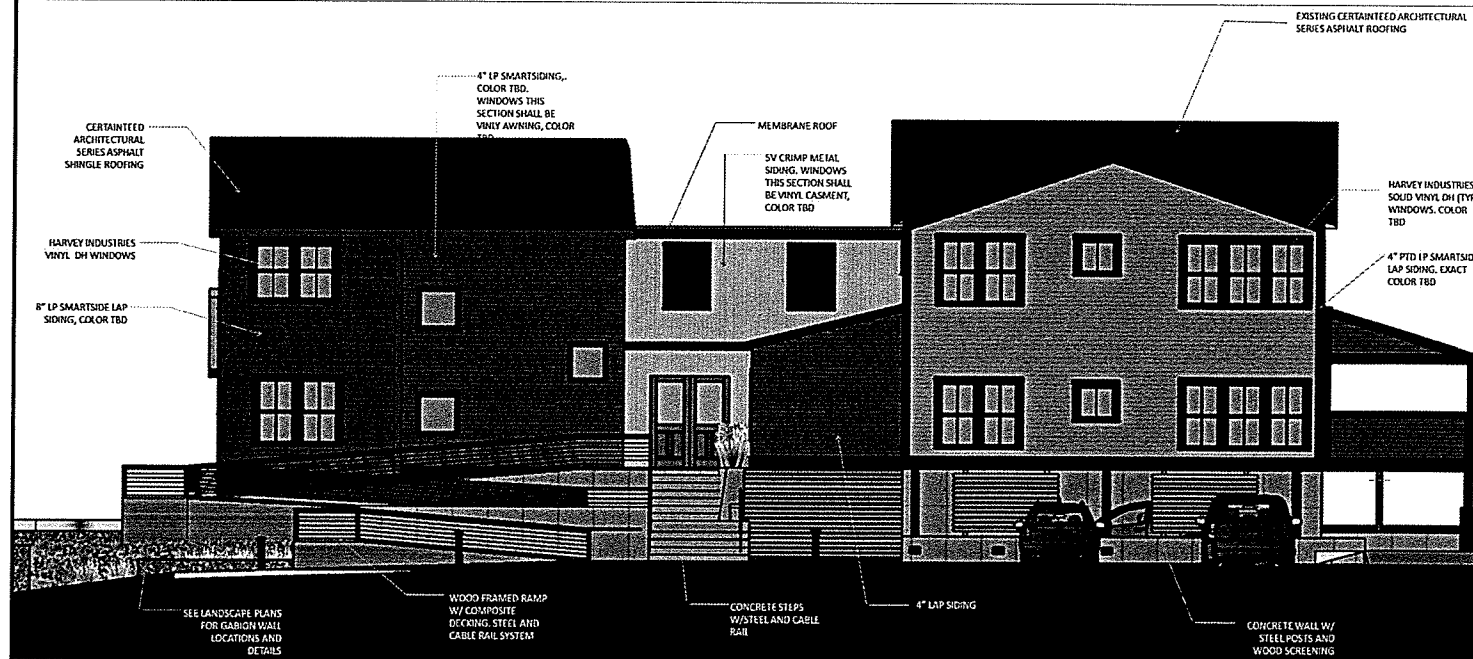
RECEIVED  
AUG 03 2016



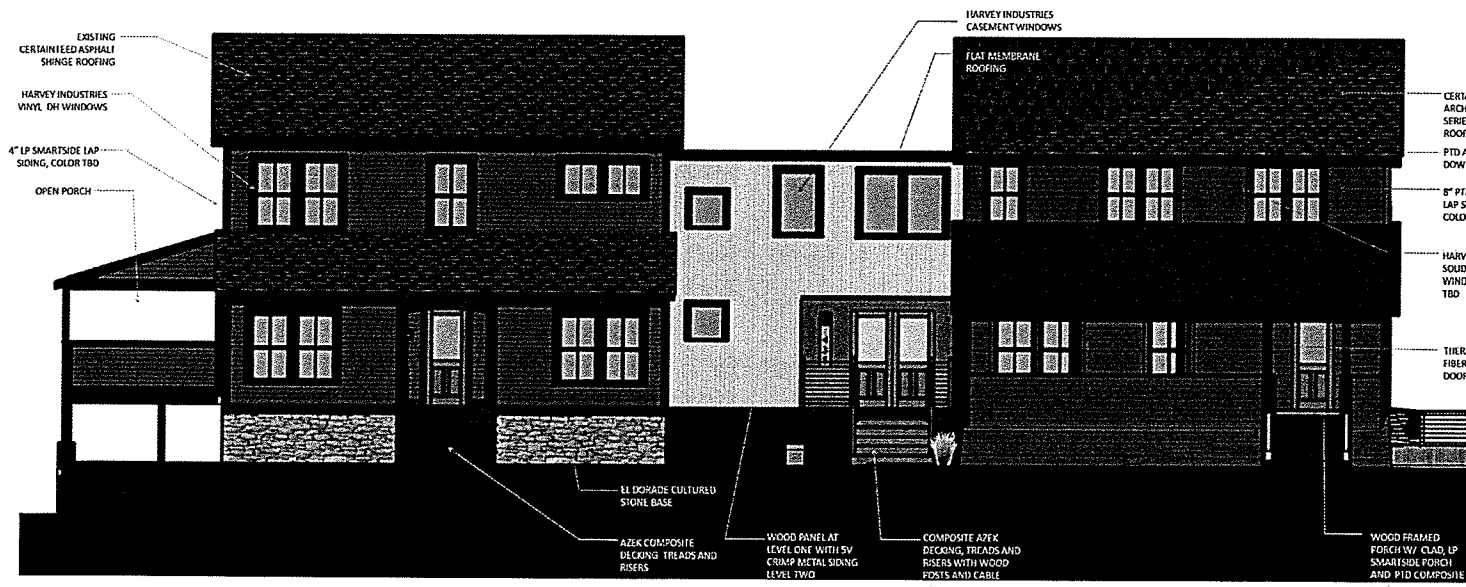
1 NORTH ELEVATION



2 SOUTH ELEVATION



3 WEST ELEVATION



4 EAST ELEVATION





1 SHELBURNE ROAD PERSPECTIVE



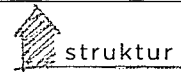
2 WEST ELEVATION



3 WEST ELEVATION

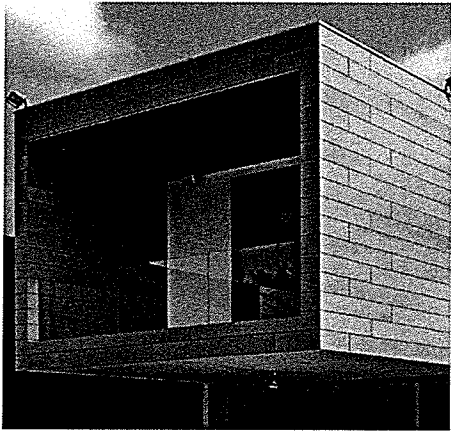
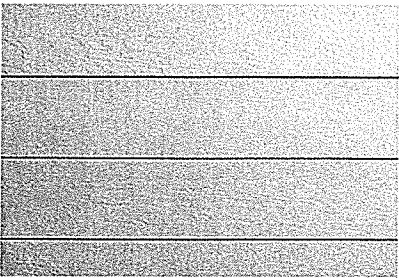


4 EAST ELEVATION

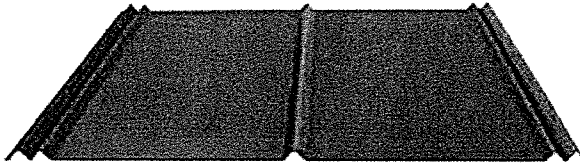
|                                                                                                                                                                                                          |                                         |                   |           |               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------|-----------|---------------|
| <div><div></div><div>Exterior Finish Selections -</div><div>Richardson Multifamily Housing - Shelburne Road</div></div> |                                         |                   |           |               |
| Exterior Finishes                                                                                                                                                                                        |                                         |                   |           |               |
| Siding                                                                                                                                                                                                   |                                         |                   |           |               |
| Clapboard A                                                                                                                                                                                              | Smooth 5" exp. Lap siding               | LP Smartside      | clapboard | Dark Grey-TBD |
| Clapboard B                                                                                                                                                                                              | Smooth 8" exp Lap siding                | LP Smartsiding    | clapboard | Dark Blue-TBD |
| Corrugated Metal                                                                                                                                                                                         | 5 v crimp vertical metal siding         | Fabral            | clapboard | Light Grey    |
| Cultured Stone                                                                                                                                                                                           | Bluff stone                             | El Dorado         |           | Woodlands     |
| Wood Panel                                                                                                                                                                                               | panelized wood cladding                 | Prodex            | 4x8       | Pale          |
| ALTERNATE CLAPBOARD                                                                                                                                                                                      | smooth lap siding                       | Lifespan Select   |           |               |
| ALTERNATE METAL                                                                                                                                                                                          | 2 1/2" corrugated vertical metal siding | Fabral            | 5         | galvalume     |
| Trim                                                                                                                                                                                                     |                                         |                   |           |               |
| Cornerboards, Windows, Doors                                                                                                                                                                             | 5/4 smooth Composite Trim               | LP Smartsiding    |           |               |
| Decorative Trim, Crown Moulding                                                                                                                                                                          | 3 1/2" + 5 1/2"                         | Azek              |           |               |
| ALTERNATE TRIM                                                                                                                                                                                           |                                         | LP Smartsiding    |           |               |
| Columns/Railings                                                                                                                                                                                         |                                         |                   |           |               |
| Column A                                                                                                                                                                                                 | Steel Tube                              |                   |           | black         |
| Column B                                                                                                                                                                                                 | Built up composite                      | Azek              |           | ptd           |
| Railings-A                                                                                                                                                                                               | Built up Composite                      | Azek              |           | ptd           |
| Railings-B                                                                                                                                                                                               | Wood post/cable rail                    |                   |           |               |
| Windows and Doors                                                                                                                                                                                        |                                         |                   |           |               |
| Windows                                                                                                                                                                                                  | solid vinyl DH/Casements                | Harvey Industries |           |               |
| Entry Doors                                                                                                                                                                                              | Insulated Fiberglass                    | ThermTru          |           |               |
| Decking                                                                                                                                                                                                  |                                         |                   |           |               |
| Deck A                                                                                                                                                                                                   | 1x5 Composite Decking                   | Azek              |           |               |
| Deck B                                                                                                                                                                                                   | 1x5 Composite Decking                   | Azek              |           |               |
| Ramp-A                                                                                                                                                                                                   | P.T frame and deck                      |                   |           |               |
| Ramp-B                                                                                                                                                                                                   | Stamped Concrete                        |                   |           |               |
| Roofing                                                                                                                                                                                                  |                                         |                   |           |               |
| pitched                                                                                                                                                                                                  | Asphalt Shingles-architect series       | Certainteed       |           |               |
| Flat                                                                                                                                                                                                     | Membrane roofing                        |                   |           |               |



LP Smartside Lap Siding/Trim— Engineered wood lap siding. Smooth finish. 4" and 8" exposure. Finial colors TBD



Prodex Wood Panel Cladding



Fabral Metal Siding— 5v crimp vertical metal siding



El Dorado - Bluffstone

## SIDING / TRIM

## 1 EXTERIOR FINISH SCHEDULE



AZEK Deck's Vintage Collection is the next generation of capped cellular PVC decking. With its industry leading technology, the Vintage Collection sets a new standard in aesthetics giving you a more realistic wood appearance than competing alternative decking products. With its rustic texture, rich colors and superior durability, the Vintage Collection is sure to bring anyone's dream outdoor living space to life.

Reflexing and redefining what decking means, AZEK Deck Boards have been engineered to withstand the everyday things that happen on a deck. Even spilled wine, fruit punch, and hamburger grease are no match for AZEK Deck's stain resistance. And, since AZEK Decks are scratch resistant, you won't have to worry about marks from patio furniture or pets.

With AZEK Deck, you can rest assured your deck will continue to look great for years to come.

Colors: Mahogany, Cypress, Dark Hickory

Breakthrough aesthetics with a realistic wood appearance

Rustic texture found traditionally in reclaimed wood and indoor flooring

Rich colors with dramatic streaking that truly emulate tropical hardwoods

Exclusive embossing pattern with fine texture lines

Slight board-to-board color variation simulating hardwoods

Enhanced colorfastness

Superior durability

Class "A" Rated Flame Spread Index

Stain, scratch and split resistant

Mold and mildew resistant

Impervious to moisture and insects

Spans a maximum of 16" on-center

Grooved profiles, used for hidden fastening, available in 12", 16" and 20" lengths

Square shouldered profiles available in 16" and 20" lengths

Alky Armour Technology which provides a 30-year Fade and Stain and Lifetime Limited Warranties

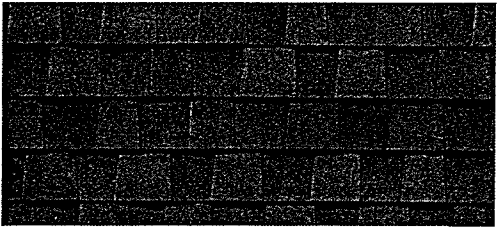
Building Code listings ESR-1667 and CCR-0101

Square Shouldered & Grooved

Actual dimensions: 1" x 5.5"

• See more at: <http://www.azek.com/products/deck/vintage-collection#sthash.LR14GUBS.dpuf>

## DECKING



Certainteed - Asphalt Shingles-architect series

## ROOFING

**HARVEY**  
BUILDING PRODUCTS

FOR PROFESSIONALS » FIND A CONTRACTOR »

Energy Rebates | Showroom Locations | Customer Service | Contact Us

OUR PRODUCTS

PHOTO GALLERY

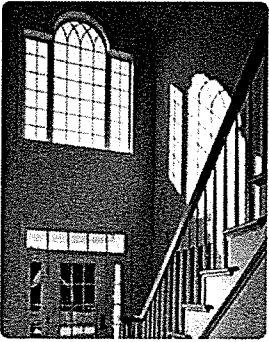
LEARN THE BASICS

ABOUT HARVEY

Vinyl Windows

« home

explore windows »



2016 Harvey Building Products Waltham, MA USA All Rights Reserved

Customer Service | Careers | Privacy Policy



Harvey Vinyl Windows

Our vinyl replacement windows and new construction windows are known for their beauty, energy efficiency, reliability, unsurpassed performance and numerous design options.

Engineered to last, Harvey vinyl windows feature multi-chamber construction, top-of-the-line block and tackle balances which never need adjustment, and the convenience of tilt-in sashes.

DOUBLE HUNG »

CASEMENT »

PICTURE »

ROLLING »

AWNING »

HOPPER »

DESIGNER SHAPES »

BAY & BOW »

GARDEN »

SINGLE HUNG »

**HARVEY**  
BUILDING PRODUCTS

FOR PROFESSIONALS » FIND A CONTRACTOR »

Energy Rebates | Showroom Locations | Customer Service | Contact Us

OUR PRODUCTS

PHOTO GALLERY

LEARN THE BASICS

ABOUT HARVEY

Our Products / Vinyl Windows / Double Hung

« home

Double Hung Windows

Harvey has built a solid reputation as a leading manufacturer and distributor of quality building products. A privately owned and operated business with over 50 years of experience, Harvey Building Products is known for outstanding craftsmanship and superior service as well as standing behind every product we make. In addition to manufacturing durable, attractive windows, doors and porch enclosures, Harvey distributes a full line of highly respected building products to professional contractors and builders throughout the Northeast.

We understand what it takes to be part of your home.™



Tribute Double Hung Window

Tribute offers a sleek design and enhanced features like dual-action low profile sash locks, an easy-cleaning glass system and an optional High Performance Package for superior energy efficiency.



Classic Double Hung Window

Harvey Classic vinyl double hung windows offer the widest variety of style, performance, color and options. They are custom built to match your home's appearance.



Slimline Double Hung Window

Sleek sash profile improves sight lines and opens up the outdoors while maintaining high thermal efficiency. Each window is custom built to your home's exact measurements for unsurpassed fit and finish.



Vigilance (Impact-Resistant) Double Hung Window

Harvey Vigilance windows are high-performance, impact-resistant windows that provide exceptional storm protection to meet the most stringent building codes.



Acoustic Double Hung Window

The Harvey acoustic replacement and new construction is an excellent solution for reducing noise. It also has enhanced insulating capabilities.

## WINDOWS

Richardson Properties, LLC  
435/441 Shelburne Street,  
Burlington, Vermont  
Zoning Permit Application

RECEIVED  
AUG 03 2016

DEPARTMENT OF  
PLANNING & ZONING

SURVEY NOTES

1. THIS PLAN IS BASED ON A FIELD SURVEY PERFORMED BY BUTTON PROFESSIONAL LAND SURVEYORS, PC, DATED MARCH, 2015.
2. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY CONFLICTS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT, OWNER, AND ENGINEER. THE CONTRACTOR SHALL CONTACT DIG SAFE A MINIMUM OF 48 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO ANY CONSTRUCTION.

SITE SOILS

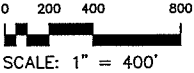
| SYMBOL | DESCRIPTION           | HYDROLOGIC SOIL GROUP |
|--------|-----------------------|-----------------------|
| B/A    | BELGRADE AND ELDRIDGE | B/C                   |
| -      | UNMAPPED              | B (ESTIMATED)         |

CIVIL DRAWING LIST

| SHEET | TITLE                                           |
|-------|-------------------------------------------------|
| C0.0  | COVER SHEET                                     |
| C1.0  | EXISTING CONDITIONS AND DEMOLITION PLAN         |
| C1.1  | SITE PLAN                                       |
| C1.2  | EROSION PREVENTION AND SEDIMENT CONTROL PLAN    |
| C3.0  | WATER DETAILS                                   |
| C3.1  | SEWER DETAILS                                   |
| C3.2  | DRAINAGE DETAILS                                |
| C3.3  | SITE DETAILS                                    |
| C3.4  | EROSION PREVENTION AND SEDIMENT CONTROL DETAILS |



OVERALL SITE LOCATION



LEGEND

|     |                          |              |                        |
|-----|--------------------------|--------------|------------------------|
| C/S | CLEAN OUT                | -----        | WATERCOURSE            |
| ⊙   | MANHOLE                  | ~~~~~        | TREELINE               |
| ⊕   | CATCH BASIN              | -----X-----  | FENCE                  |
| ⊕   | STORM MANHOLE            | -----X-----  | CONTOUR                |
| ⊕   | TAPPING SLEEVE AND VALVE | -----X-----  | SWALE                  |
| ⊕   | CULVERT                  | -----X-----  | STONE WALL             |
| ⊕   | CONCRETE HEADWALL        | -----X-----  | EXISTING PROPERTY LINE |
| ⊕   | FLARED END SECTION       | -----X-----  | PROPOSED PROPERTY LINE |
| ⊕   | GATE VALVE               | -----S-----  | EDGE OF PAVEMENT       |
| ⊕   | HYDRANT                  | -----ST----- | SANITARY SEWER LINE    |
| ⊕   | WATER SHUT OFF           | -----W-----  | STORM LINE             |
| ⊕   | WELL                     | -----UE----- | WATER LINE             |
| ⊕   | LIGHT POLE               | -----CH----- | UNDERGROUND ELECTRIC   |
| ⊕   | UTILITY POWER POLE       | -----UT----- | OVERHEAD ELECTRIC      |
| ⊕   | SOIL BORING              | -----G-----  | UNDERGROUND TELEPHONE  |
| ⊕   | TEST PIT                 | -----UD----- | GAS LINE               |
| ⊕   | SIGN                     | -----        | UNDER DRAIN            |
| ⊕   | SPOT ELEVATION           | -----        | RIGHT-OF-WAY LINE      |
| ⊕   | TREE                     | -----        | SETBACK                |
| ⊕   | SURVEY POINT             | -----        |                        |

ZONING TABLE

ZONING DISTRICT: RM-MEDIUM DENSITY RESIDENTIAL  
PROPOSED USE: DUPLEX AND ABOVE

|                                     | REQUIRED/ALLOWED | EXISTING                       | PROPOSED                             |
|-------------------------------------|------------------|--------------------------------|--------------------------------------|
| LOT SIZE                            | N/A              | 19,275 sf(0.44 AC.)            | 19,275 sf(0.44 AC.)                  |
| LOT FRONTAGE                        | 30' MIN          | 107'                           | Unch.                                |
| LOT COVERAGE                        |                  |                                |                                      |
| STANDARD INCLUSIONARY ACCESSORY     | 48%<br>10%       | 48.3% (9,315 SF)<br>(COMBINED) | 47.9% (9,239 SF)<br>8.75% (1,687 SF) |
| PARKING (note 1)                    | 20               | 12                             | 10                                   |
| BUILDING HEIGHT                     | 35               | 29'-2"                         | 29'-2"                               |
| FRONT YARD SETBACK (SHELburne ROAD) | 23'              | 25'                            | Unch.                                |
| FRONT YARD SETBACK (LYMAN AVENUE)   | 11'              | 9'                             | 9'                                   |
| SIDE YARD SETBACK                   | 5'               | 5'                             | 5'                                   |

Notes:  
1. 50% Parking Waiver required. Refer to Parking Management Plan included in submittal.

SUBJECT PROPERTY:

Parcel ID(S):  
057-04-036-000  
057-04-888-000  
  
435/441 Shelburne Street,  
Burlington , VT 05401

OWNER\APPLICANTS:

Mitchel Richardson  
Richardson Properties, LLC  
P.O. Box 276  
South Hero, VT  
05486

CONSULTANTS:

CIVIL ENGINEER  
  
Paul Bolsvert, PE/Principal  
Engineering Ventures, PC  
208 Flynn Ave  
Burlington, VT 05401

TOPOGRAPHIC SURVEY  
Button Professional Land Surveyors, PC  
20 Kimball Avenue, Ste #203  
South Burlington, VT 05403

Sheet Title:  
Cover Sheet

Project Title:  
435/441 Shelburne Street Multi-Family  
Burlington, Vermont

Designed By: PB  
Checked By: -  
Drawn By: WC  
Scale:  
Date: August, 2016

C0.0

DEMOLITION NOTES

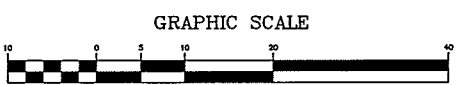
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENT EDITION OF VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION UNLESS OTHERWISE NOTED.
2. NO DEMOLITION SHALL COMMENCE UNTIL A PRECONSTRUCTION MEETING IS HELD WITH THE OWNER AND ALL EROSION PREVENTION AND SEDIMENT CONTROL DEVICES ARE INSTALLED.
3. ALL DEMOLITION ITEMS, UNLESS NOTED BY THE OWNER TO BE STORED OR REUSED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. EXCESS OR UNSUITABLE SOIL SHALL BE REMOVED FROM THE SITE.
4. ALL ADJACENT FACILITIES AND STRUCTURES NOT INDICATED AS INCLUDED IN THE SCOPE OF WORK SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING OR REPLACING ALL ADJACENT FACILITIES OR STRUCTURES DAMAGED DURING CONSTRUCTION TO PRE-CONSTRUCTION CONDITION OR BETTER.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK AREA FOR THE DURATION OF THE PROJECT.
6. CONTRACTOR SHALL CONTACT DNGSAFE IN ACCORDANCE WITH STATE LAW.
7. PRIOR TO DEMOLITION, HAND EXCAVATE ANY UNDERGROUND UTILITIES. NOTIFY THE OWNER IF ANY OTHER UTILITIES NOT NOTED ON THE DRAWINGS ARE FOUND.
8. CARE SHALL BE TAKEN NOT TO DAMAGE OR DISTURB ANY TREES AND SITE LIGHTING NOT INDICATED FOR REMOVAL DURING CONSTRUCTION.
9. PROPOSED FEATURES ARE SHOWN ON THIS DRAWING FOR REFERENCE ONLY.
10. ALL EXISTING UTILITIES, FENCING AND SITE FEATURES SHOWN WITH CROSS HATCHING ( / / ) ARE TO BE REMOVED (PAVING, GRAVEL, WALLS, WALKS, MFL, CB, PIPE, ETC).
11. THE CONTRACTOR MAY NOT HAVE ACCESS TO PERFORM WORK ON THE ENTIRE SITE AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO BEGINNING WORK IN ANY AREA.
12. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND VEHICLE BARRIERS TO PREVENT ACCESS TO THE WORK AREA BY UNAUTHORIZED PERSONS.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO SHARED DRIVEWAY UNLESS OTHERWISE ARRANGED WITH AFFECTED NEIGHBORS.
14. NO VEHICLE PARKING IS ALLOWED ON THE GREENBELT WITHOUT ADVANCE APPROVAL FROM THE CITY.

DEMOLITION SCHEDULE

- D1 REMOVE AND DISPOSE OF EXISTING SHED.
- D2 REMOVE EXISTING WOODEN RAMP, DECKING AND STAIRS.
- D3 REMOVE AND DISPOSE OF EXISTING CHAINLINK FENCE.
- D4 REMOVE AND DISPOSE OF EXISTING CONCRETE AND CURB.
- D5 REMOVE EXISTING GRAVEL (PATHWAY, DRIVE)
- D6 REMOVE EXISTING UTILITY LINE.
- D7 SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT.
- D8 REMOVE EXISTING SIDEWALK TO NEAREST PANEL JOINT.
- D9 REMOVE EXISTING OVERHEAD ELECTRIC LINES. COORDINATE WITH BED.
- D10 REMOVE EXISTING GAS LINE. COORDINATE WITH VERMONT GAS.
- D11 COORDINATE REMOVAL OF EXISTING PLANTINGS WITH OWNER AND LANDSCAPE ARCHITECT.
- D12 REMOVE EXISTING TREE AND STUMP.
- D13 REMOVE PORTION OF EXISTING PORCH STRUCTURE PER ARCHITECTURAL PLANS.

RECEIVED  
AUG 03 2016

DEPARTMENT OF  
PLANNING & ZONING



| Stamp       |                        |
|-------------|------------------------|
| Chd.        |                        |
| Rev. No.    |                        |
| Description |                        |
| 1           | DRE Submitted 08/03/16 |

| Rev. No. | Description            |
|----------|------------------------|
| 1        | DRE Submitted 08/03/16 |

**ENGINEERING VENTURES PC**  
208 Flynn Avenue, Suite 2A Burlington, VT 05401  
Tel: 802.863.6235 • Fax: 802.863.6206  
15 Madeline Street, Suite 150A, Lebanon, NH 03766  
Tel: 603.442.0333 • Fax: 603.442.0301  
www.engineeringventures.com

**Richardson Properties, LLC**  
P.O. Box 276  
South Hero, VT 05486

Client: Richardson Properties, LLC  
P.O. Box 276  
South Hero, VT 05486

Sheet Title: Existing Conditions and Demolition Plan  
Project Title: 435/441 Shelburne Street Multi-Family  
Burlington, Vermont

|              |              |
|--------------|--------------|
| Designed By: | PB           |
| Checked By:  |              |
| Drawn By:    | WC           |
| Scale:       |              |
| Date:        | August, 2016 |

C10



## GENERAL NOTES

1. LOCATE AND PROTECT IN PLACE ALL EXISTING UNDERGROUND AND OVERHEAD POWER, TELEPHONE, AND DATA LINES NOT NOTED FOR DEMOLITION.
2. COORDINATE ALL WORK NEAR OR ON UTILITIES OWNED BY OTHERS WITH THE UTILITY PROVIDER.
3. PROTECT ALL DISTURBED AREAS FROM EROSION IN ACCORDANCE WITH THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN.
4. STABILIZE ALL UPSTREAM AREAS BEFORE BUILDING RAIN GARDEN.

## SITE AND UTILITY NOTES

- P1 NEW ASPHALT PAVEMENT WITH 6" ASPHALT CURB. SEE DETAIL SHEET C3.0.
- P2 NEW ASPHALT COURSE OVER EXISTING BASE WITH 6" ASPHALT CURB. SEE DETAIL C3.0.
- P3 NEW CONCRETE SIDEWALK. SEE DETAIL SHEET C3.0.
- P4 NEW CONCRETE DRIVE AND PARKING SLAB. SEE DETAIL SHEET C3.0.
- P5 NEW CONCRETE CURB. SEE SHEET C3.0.
- P6 NEW RAIN GARDEN. SEE DETAIL SHEET C3.2.
- P7 NEW ACCESSIBLE RAMP. SEE LANDSCAPE ARCHITECT PLANS.
- P8 NEW PERVIOUS PAVERS. REFER TO DETAIL C3.0.
- P9 NEW 4" DI WATERLINE AND GATE VALVE. SEE DETAIL SHEET C3.0.
- P10 PVC STORM DRAIN LINE. SEE DETAIL SHEET C3.2.
- P11 NEW STORMTECH INFILTRATION CHAMBERS (2 AT EACH LOCATION). SEE DETAIL SHEET C3.2.
- P12 NEW TRENCH DRAIN.
- P13 NEW 4" PVC SEWER LINE AND CLEANOUT. SEE DETAIL SHEET C3.1.

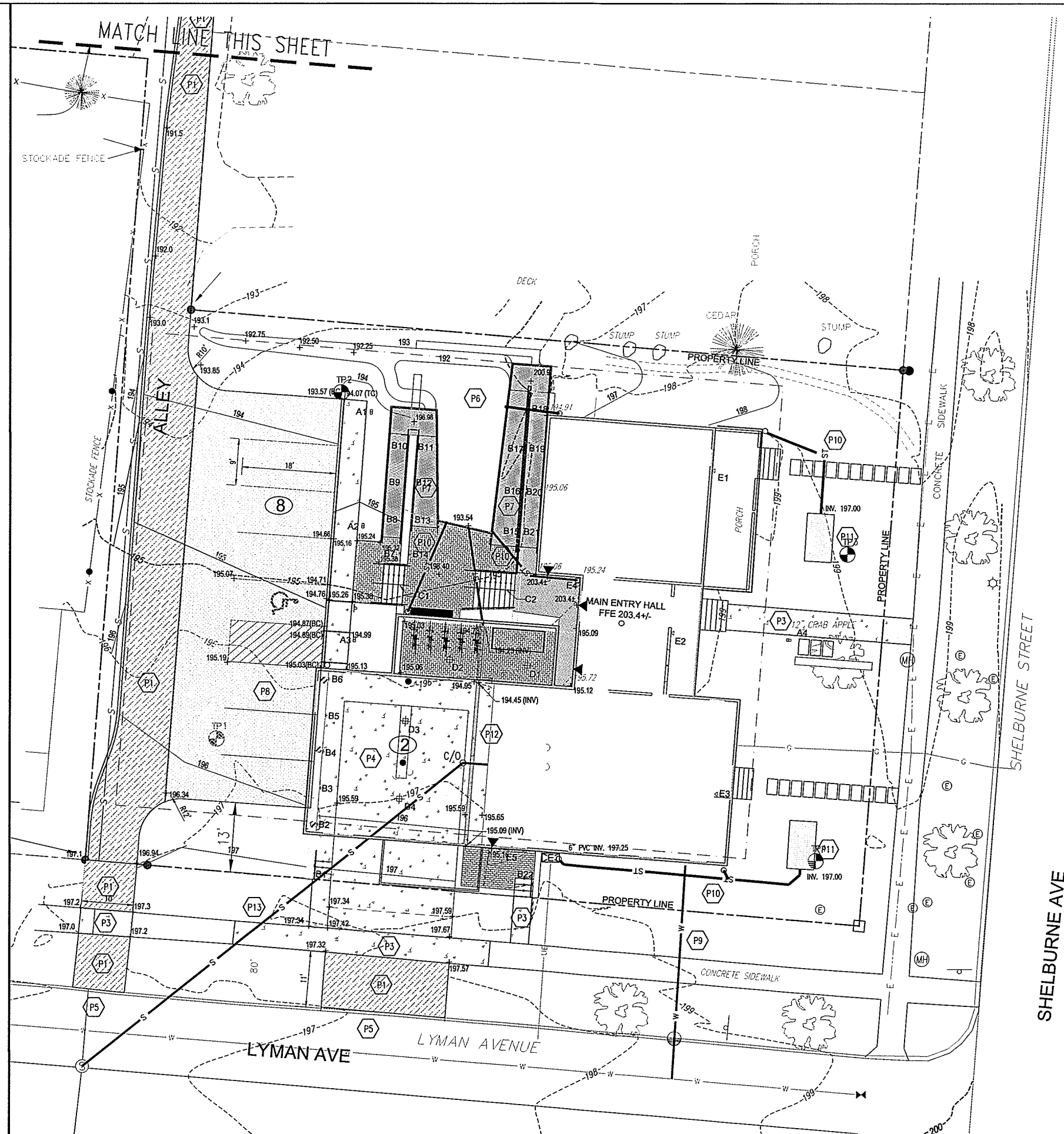
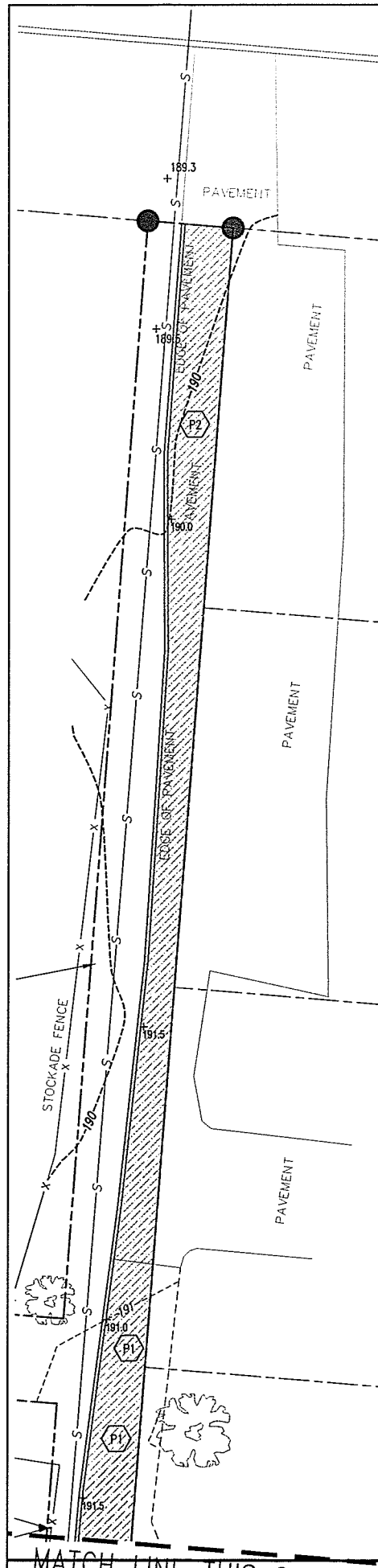
**RECEIVED**

AUG 03 2016

DEPARTMENT OF  
PLANNING & ZONING



GRAPHIC SCALE



Stamp

| Rev. No. | Description | DRB Submittal | 09/03/16 |
|----------|-------------|---------------|----------|
| 1        |             |               |          |

**ENGINEERING VENTURES PC**  
 208 Flynn Avenue, Suite 2A Burlington, VT 05401  
 Tel: 802.863.6235 • Fax: 802.863.6306  
 85 Main Street, Suite 350A, Lebanon, NH 03766  
 Tel: 603.442.3333 • Fax: 603.442.3321  
 www.engineeringventures.com

Client:  
 Richardson Properties, LLC  
 P.O. Box 276  
 South Hero, VT 05486

Sheet Title: **Site Plan**  
 Project Title: **435/441 Shelburne Street Multi-Family**  
 Burlington, Vermont

|              |              |
|--------------|--------------|
| Designed By: | PB           |
| Checked By:  | WPC          |
| Drawn By:    | WPC          |
| Scale:       |              |
| Date:        | August, 2016 |

- GENERAL EROSION CONTROL NOTES
1. IDENTIFY THE CONTRACTOR AND PERSON RESPONSIBLE FOR DAY TO DAY MONITORING, IMPLEMENTATION, AND OVERSIGHT OF EROSION PREVENTION AND SEDIMENT CONTROL MEASURES IMPLEMENTED ON SITE.
  2. A PRE-CONSTRUCTION MEETING INCLUDING THE ON SITE COORDINATOR (OSC), CONTRACTOR, BURLINGTON PUBLIC WORKS DEPARTMENT, AND ENGINEER IS TO BE SCHEDULED BY THE CONTRACTOR AT LEAST ONE WEEK PRIOR TO THE PLANNED START OF CONSTRUCTION, UNLESS WAIVED BY CITY STAFF. AT LEAST 72 HOURS OF NOTICE TO THE ABOVE PARTIES IS REQUIRED PRIOR TO THE MEETING.
  3. EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL (LATEST UPDATE) AND CHAPTER 26 OF THE BURLINGTON CITY ORDINANCE (WASTEWATER, STORMWATER, AND EROSION CONTROL).
  4. A COPY OF THE EPSC PLAN, WITH ALL AMENDMENTS AND ASSOCIATED REPORTS SHALL BE KEPT ON SITE DURING CONSTRUCTION, INCLUDING ALL AMENDMENTS. NOTE THAT AMENDMENTS ARE TO BE APPROVED IN ADVANCE BY THE BURLINGTON DEPARTMENT OF PUBLIC WORKS.
  5. DISTURBANCE LIMITS ARE TO BE MARKED, AND THE FOLLOWING MANAGEMENT PRACTICES INSTALLED, PRIOR TO BEGINNING EARTH WORK IN ANY GIVEN AREA: SILT FENCE, CONSTRUCTION ENTRANCE, INLET PROTECTION, AND FIBER ROLLS.
  6. ALL DISTURBED AREAS ARE TO BE STABILIZED (TEMPORARY OR FINAL) WITHIN 48 HOURS OF INITIAL DISTURBANCE. AFTER THIS TIME, ANY DISTURBANCE WITHIN THIS WORK AREA MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
    - a. STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN 24 HOURS AND NO PRECIPITATION IS FORECAST DURING THAT PERIOD.
    - b. WORK IS OCCURRING WITHIN A SELF-CONTAINED EXCAVATION, 2 FEET OR MORE IN DEPTH.
  7. THE PERIOD BETWEEN OCTOBER 15TH AND APRIL 15TH IS CONSIDERED THE "WINTER CONSTRUCTION PERIOD". SOIL STABILIZATION IS REQUIRED AT THE END OF EACH WORK DAY DURING THIS PERIOD, WITH EXCEPTIONS DISCUSSED IN ADVANCE WITH THE ENGINEER.
  8. ALL STABILIZATION INVOLVING SEEDING IS TO BE COMPLETED BY SEPTEMBER 15TH.
  9. CONTRACTOR PARKING ON CITY GREENBELT AREAS IS PROHIBITED. ANY DAMAGE TO THESE AREAS IS TO BE REPAIRED IMMEDIATELY.
  10. PREVENT SEDIMENT TRANSPORT OFF SITE. REMOVE ANY SEDIMENT DISCHARGED OR DEPOSITED ONTO CITY ROADS, SIDEWALKS, OR SEWERS OR ONTO ADJACENT PROPERTIES.

### EPSC STRUCTURE LEGEND

**EROSION PREVENTION AND SEDIMENT CONTROL STRATEGY**  
THE FOLLOWING TECHNIQUES WILL BE UTILIZED AS PART OF A SEDIMENT AND EROSION CONTROL PROGRAM. THE SEDIMENT AND EROSION CONTROL PROGRAM WILL BE IMPLEMENTED IN STAGES. CERTAIN ITEMS FROM ONE STAGE WILL LIKELY OVERLAP OR TAKE PLACE CONCURRENTLY WITH ITEMS FROM OTHER STAGES. THE CONTRACTOR SHALL REFER TO AND CONFORM WITH THE STATE OF VT LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL. REFER TO DETAILS ON SHEET CS-4.

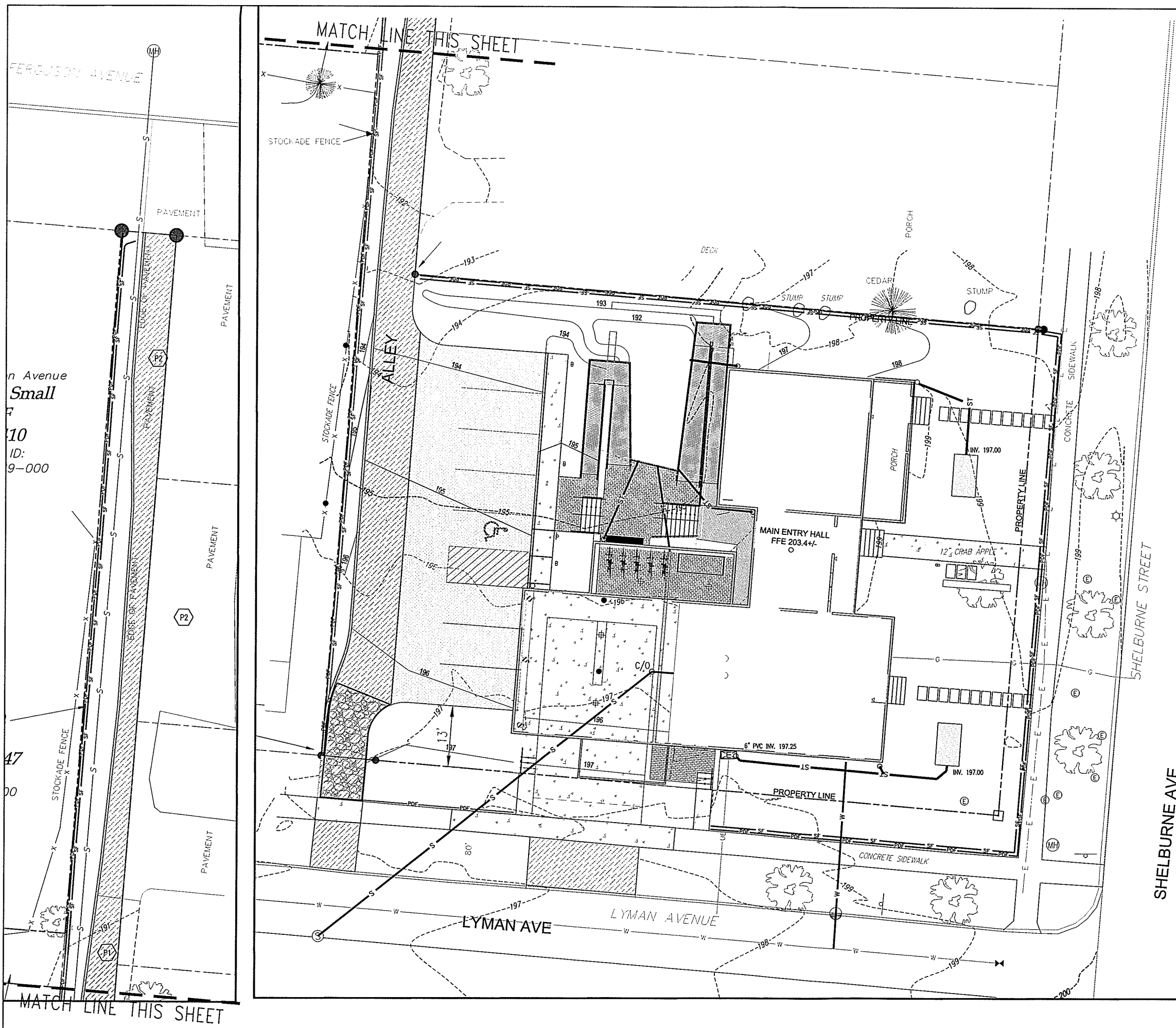
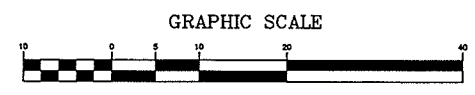
**STABILIZED CONSTRUCTION ENTRANCE**  
THIS STRUCTURAL MEASURE IS A STABILIZED PAD OF AGGREGATE UNDERLAIN WITH FILTER FABRIC LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING AREA. THE PURPOSE OF A STABILIZED CONSTRUCTION ENTRANCE IS TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR STREETS. THIS WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE PROJECT SITE HAS BEEN PERMANENTLY STABILIZED.

**SILT FENCING**  
THIS STRUCTURAL MEASURE IS A TEMPORARY BARRIER OF GEOTEXTILE FABRIC USED TO INTERCEPT SEDIMENT LADEN RUNOFF FROM SMALL DRAINAGE AREAS OF DISTURBED SOIL. IT IS INSTALLED ALONG THE PERIMETER OF IMPACTED AREAS AND ALONG THE BASE OF THE FILL SLOPES. ADDITIONALLY, WHEN DESIGNATED ALONG THE LIMITS OF DISTURBANCE, INSTALL CONSTRUCTION FENCE BEHIND THE SILT FENCE. THESE WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE PROJECT SITE HAS BEEN PERMANENTLY STABILIZED.

**PROJECT DEMARCATION FENCING**  
THE CONTRACTOR SHALL CONTAIN ANY EARTH MOVING ACTIVITIES WITHIN THE DESIGNATED LIMITS SHOWN ON THIS PLAN. THE ENGINEER SHALL REVIEW THE SITE TO MAKE ANY ADJUSTMENTS TO ACCOUNT FOR ENVIRONMENTALLY SENSITIVE AREAS, SPECIMEN TREES AND SPECIAL AREAS OF CONCERN.

THE LIMITS SHALL BE DEMARCATED WHERE INDICATED ON THIS PLAN WITH ORANGE CONSTRUCTION FENCE (OR CHAIN LINK FENCE WHERE SECURITY OR PEDESTRIAN SAFETY IS REQUIRED.) SILT FENCE IS NOT AN ACCEPTABLE MEANS OF DEMARCATION.

**RECEIVED**  
AUG 03 2016  
DEPARTMENT OF  
PLANNING & ZONING



Stamp

| Rev. No. | Description   | Date     |
|----------|---------------|----------|
| 1        | DRB Submittal | 08/03/16 |

**ENGINEERING VENTURES PC**  
208 Flynn Avenue, Suite 2A Burlington, VT 05401  
Tel: 802.263.6725 • Fax: 802.263.6796  
85 Main Street, Suite 100 South Hero, VT 05486  
www.engineeringventures.com

Client:  
**Richardson Properties, LLC**  
P.O. Box 276  
South Hero, VT 05486

Sheet Title: **Erosion Prevention and Sediment Control Plan**  
Project Title: **435/441 Shelburne Street Multi-Family**  
Burlington, Vermont

Designed By: PB  
Checked By: -  
Drawn By: WC  
Scale: -  
Date: August, 2016

C1.2



SCALE: NONE

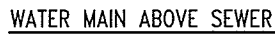
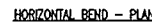


1. REFER TO APPLICABLE TRENCH DETAIL FOR SPECIFIC BACKFILL INFORMATION.

SCALE: NONE



VERTICAL BEND - SECTION



- SEPARATION NOTES:

1. WATER MAIN RELATIONS TO SEWER SHALL BE IN ACCORDANCE WITH THE "RECOMMENDED STANDARDS FOR WATER WORKS" SO-CALLED TEN STATE STANDARDS,
2. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWERS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IF THIS DISTANCE CANNOT BE OBTAINED, THEN THE PIPES SHALL BE INSTALLED IN A SEPARATE TRENCH AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
3. WHEN IT IS IMPOSSIBLE TO MAINTAIN 18" VERTICAL SEPARATION OR WHERE THE SEWER MUST BE LAID ABOVE THE WATER MAIN; 1) THE CROSSINGS SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER IS CENTERED ABOVE OR BELOW THE WATER LINE WITH JOINTS AS FAR APART AS POSSIBLE FROM THE WATER MAIN; 2) THE SEWER SHALL BE CONSTRUCTED TO FULL MAIN STANDARDS FOR A MINIMUM DISTANCE OF 20 FEET EITHER SIDE OF THE CROSSING OR A TOTAL OF THREE PIPE LENGTHS, WHICHEVER IS GREATER; 3) THE SECTION CONSTRUCTED TO FULL MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 psi FOR 15 MINUTES WITH LEAKAGE PRIOR TO BACKFILLING BEYOND ONE FOOT ABOVE THE PIPE TO ASSURE WATER TIGHTNESS.

SCALE: NONE



NOTE: COVER MUST BE MARKED "WATER"

**BOTTOM DETAIL**

- VALVE BOX NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. VALVE ROTATION PER DPW STANDARDS.

SCALE: NONE



### TYPICAL BEARING THRUST BLOCK

## GENERAL

1. METERS FOR SERVICE CONNECTIONS 3/4" OR SMALLER WILL BE PROVIDED BY THE WATER UTILITY, BUT INSTALLED BY THE CONTRACTOR.
2. WATER SYSTEM COMPONENTS ARE TO BE LEAD FREE, AND APPROVED BY THE WATER DEPARTMENT.
3. A REPRESENTATIVE FOR THE WATER UTILITY MUST BE PRESENT, UNLESS OTHERWISE NOTIFIED IN WRITING, FOR ALL WATER MAIN TAPS.
4. WATER INFRASTRUCTURE IS TO INCLUDE SOWING TIES. "AS BUILT" DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR WHICH REFLECT ACTUAL UTILITY LOCATIONS AND RESULTING EASING TIMES AT THE TIME OF COMPLETION OF THE SYSTEM.
5. THE WATER UTILITY SHALL INSPECT ALL TIES TO BE TAKEN OVER BY THE TOWN PRIOR TO ACCEPTANCE.
6. THE CONTRACTOR SHALL PROVIDE A 2 YEAR WARRANTY ON ALL WATER RELATED ITEMS FROM THE TIME OF COMPLETION OF THE PROJECT.

- EXISTING UTILITIES**
1. LOCATION OF UTILITIES AND UNDERGROUND STRUCTURES ARE SHOWN AS APPROXIMATE ON THE CONTRACT DOCUMENTS.
  2. ALL UTILITIES SHALL BE LOCATED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
  3. EXISTING UTILITIES SHALL BE PROTECTED AND SUPPORTED DURING CONSTRUCTION.
  4. ALL WATER, GAS, CABLE, TELEPHONE, ELECTRIC, SEWER, AND OTHER UTILITIES FOUND TO INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED IN A MANNER ACCEPTABLE TO THE ENGINEER.

- PIPE BEDDING

1. SAND BEDDING MEETING REQUIREMENTS OF EARTHWORK SPECIFICATIONS
2. SAND BLANKET MEETING REQUIREMENTS OF EARTHWORK SPECIFICATIONS
3. TRENCH FINAL BACKFILL MATERIAL - MATERIAL WILL EXCLUDE PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT, CLAY, LARGE ROCKS (12" DIMENSION), OR ANY MATERIAL DETERMINED BY THE ENGINEER THAT WILL NOT BE SUITABLE.

- WATER MAINS
1. ONCE INSTALLED PERFORM A HYDROSTATIC AND LEAKAGE TEST ACCORDING TO AWWA C600 (LATEST REVISION) ON EACH PIPE LINE.
  2. THE ENGINEER AND THE WATER UTILITY SHALL BE GIVEN AT LEAST 72 HOURS NOTICE BEFORE THE TEST IS CONDUCTED. TEST MUST BE WITNESSED BY THE ENGINEER.
  3. SPECIFIED TEST PRESSURE IS 200 PSI, AND PRESSURE DURING TEST SHALL NOT VARY BY MORE THAN 5 PSI.

- DUCTILE IRON PIPE- ANMA C151**
1. FITTINGS: DUCTILE IRON, STANDARD THICKNESS, 350 psi PRESSURE RATING. (ANMA C110, C153, C105, ANSI A21.10).
  2. FITTINGS: CAST IRON, 250 psi PRESSURE RATING (ANSI A21.10).
  3. JOINTS: MECHANICAL, PUSH-ON AND FLANGED (ANMA C111, C115).
  4. GASKETS:
    - A. MECHANICAL AND PUSH-ON JOINTS, ANSI A21.11.
    - F. FLANGED JOINTS: 1/8" THICK RING OR FULL FACED RUBBER, ANSI A21.15.
  5. BOLTS/NUTS:
    - A. MECHANICAL JOINT: ANSI A21.11.
    - F. FLANGED JOINT: ANSI A21.15.
  6. MECHANICAL JOINT GASKETS SHALL BE "MEGA-LUX" RETAINER GLANDS.
  7. LININGS AND UNING REPAIR TO ANMA/ANSI C104.
    - A. INTERIOR - COBALT LINED, DOUBLE THICKNESS BITUMINOUS SEAL.
    - F. EXTERIOR - BITUMINOUS COATING APPROXIMATELY 2 MILS THICK, ANSI A21.15, AND ANSI A21.15, AND ANSI A21.10.
    - C. FLANGE MACHINED FACE COATING: ANSI A21.15.

- COPPER TUBING
1. TYPE-K, ANNEALED, ASTM B88
  2. FITTINGS: ASME B16.18, CAST COPPER, OR ASME B16.22, WROUGHT COPPER.
  3. JOINTS: COMPRESSION CONNECTION OR AWS A5.8, BOUP SILVER BRAZE.
- CHLORINATION OF DOMESTIC WATER LINES
1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE WATER UTILITY AT LEAST 72 HOURS IN ADVANCE OF BEGINNING ANY DISINFECTION OF WATER LINES.
  2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACTERIOLOGICAL TESTING AS REQUIRED BY THIS SPECIFICATION AND REFERENCE STANDARDS MENTIONED.

3. DISINFECT ALL NEW PIPELINE SYSTEMS IN ACCORDANCE WITH ANWA C651, INCLUDING:
- A. METHOD OF CHLORINE APPLICATION. USE CONTINUOUS FEED METHOD OR SLUG METHOD. (TABLET METHOD IS NOT ACCEPTABLE.)
  - B. FORM OF CHLORINE UTILIZED.
  - C. FINAL FLUSHING.
  - D. BACTERIOLOGICAL TESTING
  - E. REPEATING OF PROCEDURE

1. RESILIENT SEAT GATE VALVES BY KENNEDY "KEN-SEAL" OR EQUAL.
2. IRON BODY GATE VALVES TO MEET ANMA C-509-87.
3. STEEL CONSTRUCTION: NON-FRISING.
4. STEM SEALS: DOUBLE O-RING.
5. GATE: CAST IRON RESILIENT WEDGE WITH SYNTHETIC ELASTOMER COATING, AND SHALL BE EPOXY COATED (FUSION BONDED) INSIDE AND OUT.
6. BONNET HARDWARE SHALL MEET ASTM A307, CADMIUM PLATED.
7. OUTLET CONNECTION: STANDARD MECHANICAL JOINT.
8. OPERATION: OPEN TO THE RIGHT.

1. TAPPING VALVES TO MEET ANSI/AWWA C509-87, STANDARD FOR RESILIENT SEATED GATE VALVES.
2. VALVES SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
3. VALVES SHALL OPEN RIGHT.
4. INLET FLANGES SHALL BE CLASS 125, ANSI B16.1, OR ANSI/AWWA C110/A21.10.
5. OUTLET CONNECTION: STANDARDIZED MECHANICAL JOINT.
6. STEM SEALS: O RING.
7. STEM CONSTRUCTION: NON-PSHG.
8. SEATING: PARALLEL SEAT
9. END CONNECTIONS: MECHANICAL ON RUN, FLANGED ON BRANCH.
10. BURIED TAPPING VALVES SHALL BE PROVIDED WITH A 2 INCH SQUARE WRENCH NUT AND CAST IRON VALVE BOX. IF DEPTH FROM GRADE TO VALVE OPERATOR IS GREATER THAN 6 FEET, VALVE STEM RISER MADE OF HIGH STRENGTH STEEL SHALL BE PROVIDED. DEPTH FROM VALVE STEM RISER NUT TO GRADE WILL BE 4 TO 6 FEET.

1. THE OTHER STAINLESS STEEL SHALL NOT TO EXCEED WELD BE  $\frac{1}{4}$  TO 0.001 IN.  
TAPPING SLEEVES
1. ANSVC C509, LATEST REVISION.
  2. ANSVC C207, CLASS D, MAX. WORKING PRESSURE OF 150 PSIG.
  3. SLEEVES: PLATT SLEEVES OF CAST IRON OR DUCTILE IRON.
  4. MECHANICAL JOINT ENDS WITH END AND GASKET SEALS.
  5. PROVIDE A  $\frac{3}{4}$ " NPT TEST PLUG OR OTHER PROVISION FOR AIR TESTING THE VALVE AND SLEEVE AT MAXIMUM WORKING PRESSURE.
    6. BOLTS AND NUTS, MECHANICAL JOINTS: HIGH STRENGTH CAST IRON OR HIGH STRENGTH LOW ALLOY STEEL, ANSVC/ANMA C111/421.11-90.
  7. BOLTS AND NUTS, FLANGED JOINTS: HIGH STRENGTH, LOW CARBON STEEL CONFORMING TO ANSVC/ANMA C110/421.10-87, APPENDIX A.
  8. COAT ALL BOLTS AND NUTS WITH A RUST RESISTANT LUBRICANT.
  9. BOLTS AND NUTS USED WITH PNEUMATICALLY APPLIED BRUSH COAT HEAVILY AFTER FINAL TIGHTENING WITH BITUMASTIC COAT-APPLIED MATERIAL TO THOROUGHLY COVER ALL EXPOSED SURFACES OF BOLTS AND NUTS.

- VALVE BOXES**
1. ACCEPTABLE MANUFACTURER'S: MUELLER, CLOW, OR EQUAL.
  2. CLOW F-2452 SLIDING TYPE, TWO PIECE, OR EQUAL.
  3. 5 1/4 INCH SHAFT.
  4. SIZE 664-A (40-60 INCH OVERALL LENGTH).
  5. CAST IRON.
  6. CLOW F-2490 LIDS OR EQUAL.
  7. THE WORD "WATER" TO BE CAST INTO TOP OF COVERS, AND

NOTE:  
THE CITY OF BURLINGTON HOLDS THE RIGHT OF FIRST  
REFUSAL FOR ALL WATER SYSTEM WORK. COORDINATE WITH  
PUBLIC WORKS DEPARTMENT.

RECEIVED  
AUG 03 2016

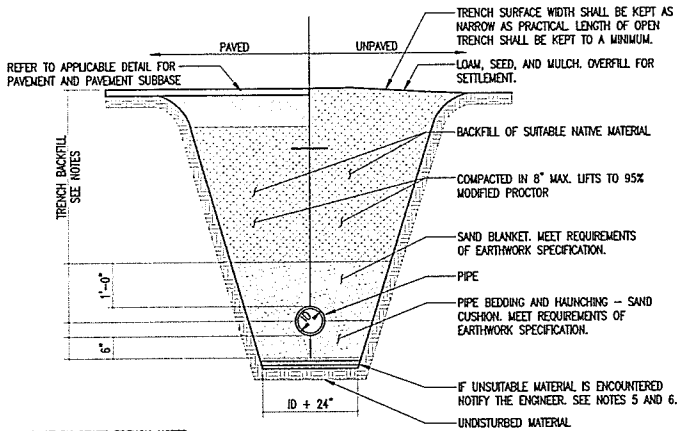
DEPARTMENT OF  
ANNING & ZONING  
Water Details and

Ilburne Street  
Burlington, Vermont

435

|        |
|--------|
| PB     |
| —      |
| WC     |
| N.T.S. |

630

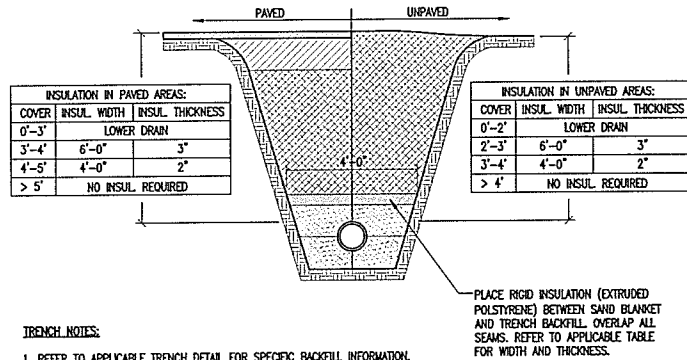


#### SANITARY SEWER TRENCH NOTES:

- UNLESS OTHERWISE NOTED, ASSUME CLASS "C" SOILS. PERFORM ALL EXCAVATIONS TO OSHA REQUIREMENTS.
- BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS AND UNIFORM SUPPORT FOR FULL LENGTH OF PIPE.
- FOR BUILDING SEWERS THE MINIMUM DEPTH TO THE TOP OF THE PIPE SHALL BE 4'-0". WHERE BUILDING SEWERS ARE TO BE INSTALLED AT A DEPTH LESS THAN 3'-0" UNDER DRIVEWAYS, EXTRA HEAVY CAST IRON OR OTHER HIGH STRENGTH PIPE SHALL BE USED. OTHERWISE, REFER TO INSULATION OVER SHALLOW SEWER LINE DETAIL.
- FOR SEWER COLLECTION SYSTEMS THE MINIMUM DEPTH TO THE TOP OF THE PIPE SHALL BE 5'-0". THIS DEPTH SHALL BE INCREASED TO 6'-0" IN AREAS TO BE PLOWED DURING THE WINTER MONTHS. OTHERWISE, REFER TO INSULATION OVER SHALLOW SEWER LINE DETAIL.
- BACKFILL SHALL BE OF A SUITABLE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER, OR OTHER UNSTABLE MATERIALS SHALL NOT BE USED FOR BACKFILL WITHIN TWO FEET OF THE TOP OF THE PIPE.
- LEDGE, ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF FOUR INCHES BELOW AND ON EACH SIDE OF ALL PIPES.
- SEWERS ON 20 PERCENT SLOPES OR GREATER SHALL BE ANCHORED SECURELY WITH CONCRETE ANCHORS OR EQUIVALENT, SPACED AS FOLLOWS:
  - NOT OVER 36 FEET CENTER TO CENTER ON GRADES 20 PERCENT AND UP TO 35 PERCENT
  - NOT OVER 24 FEET CENTER TO CENTER ON GRADES 35 PERCENT AND UP TO 50 PERCENT
  - NOT OVER 16 FEET CENTER TO CENTER ON GRADES 50 PERCENT AND OVER

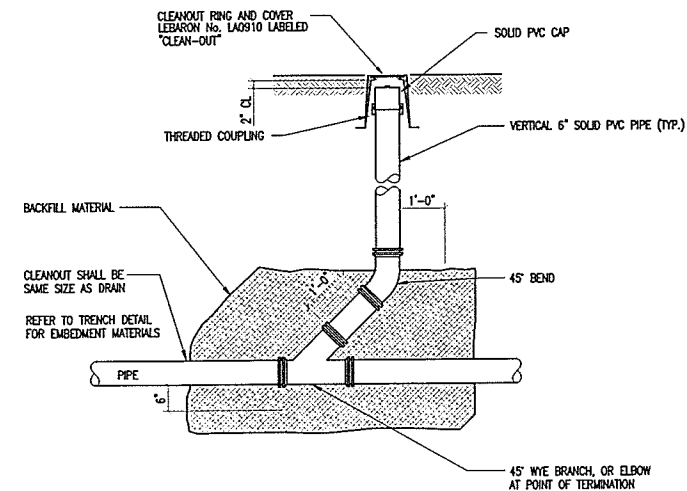
### SANITARY SEWER TRENCH DETAIL

SCALE: NONE



### INSULATION OVER SHALLOW SEWER LINE DETAIL

SCALE: NONE



### SEWER CLEANOUT DETAIL

RECEIVED  
AUG 03 2016

### DEPARTMENT OF PLANNING & ZONING

### SANITARY SEWER NOTES

- CONTRACTOR SHALL CONFORM TO GUIDELINES DETAILED IN THE VERMONT STATE SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR READING AND FOLLOWING THE FULL COMPLETE EDITION PROVIDED BY THE STATE.
- THE BUILDING SEWER SHALL BE CONSTRUCTED IN A MANNER WHICH WILL PREVENT LEAKING, BREAKING OR CLOGGING.
- SIZING AND SLOPE: MINIMUM BUILDING SEWER SIZE IS 4 INCHES (UNLESS SHOWN ON THE PLAN) AND A MINIMUM SLOPE IS 1/4" PER FOOT.
- CLEANOUTS: CLEANOUTS SHALL BE PROVIDED AT EACH HORIZONTAL CHANGE IN DIRECTION OF THE BUILDING SEWER GREATER THAN 45 DEGREES AND WHERE INDICATED ON THE DESIGN DRAWINGS. BUILDING SEWER CHANGES IN DIRECTION WHICH EXCEED 45 DEGREES SHOULD BE MADE WITH TWO 45 DEGREE ELLS OR LONG SWEEP FITTINGS. MANHOLES ARE ACCEPTABLE IN LIEU OF CLEANOUTS. WHERE BUILDING SEWERS ARE TO BE INSTALLED AT A DEPTH OF LESS THAN 3 FEET UNDER DRIVEWAYS ARE ANTICIPATED, EXTRA HEAVY CAST IRON PIPE SHALL BE USED.
- LEAKAGE: BUILDING SEWERS SHALL MEET THE LEAKAGE STANDARDS PRESCRIBED IN THE STATE OF VERMONT SPECIFICATIONS (EPR- CHAPTER 1). SEE BELOW FOR MORE DETAIL.
- SLOPE, VELOCITY: ALL GRAVITY SEWER LINES SHALL BE INSTALLED WITH NOT LESS THAN THE SLOPES SHOWN BELOW:

| PIPE SIZE (INCHES) | SLOPE (FEET/100 FEET) |
|--------------------|-----------------------|
| 4"                 | 2%                    |
| 6"                 | 1%                    |
| 8"                 | 0.4%                  |

- CHANGES IN PIPE SIZE: WHEN A SMALLER SEWER JOINS A LARGE ONE, THE INVERT OF THE LARGER SEWER SHALL BE LOWERED SUFFICIENTLY TO MAINTAIN THE SAME ENERGY GRADIENT.
- MATERIAL: PVC SDR 35, ASTM D3034, WITH PUSH-ON GASKETED JOINTS. GASKETS SHALL CONFORM TO ASTM D3212. SEWER JOINTS SHALL BE CONSTRUCTED TO MINIMIZE INFILTRATION AND TO PREVENT THE ENTRANCE OF ROOTS INTO THE SYSTEM.
- TRENCHING: LEDGE, ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF FOUR INCHES BELOW AND ON EACH SIDE OF ALL PIPES.
- BEDDING: SEE TRENCH DETAIL DRAWING FOR MATERIALS. TRENCH BACKFILL SHALL BE OF A SUITABLE NATIVE MATERIAL FREE FROM DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER, OR OTHER UNSTABLE MATERIALS.
- LEAKAGE TESTS: UPON COMPLETION OF SEWER LINE CONSTRUCTION, THE SEWER LINE SHALL BE TESTED IN ACCORDANCE WITH THE STATE OF VERMONT SPECIFICATIONS (EPR - CHAPTER 1, APPENDIX "A"). LEAKAGE TESTS FOR GRAVITY SEWERS

PERFORM A PRESSURIZED AIR TEST ON THE GRAVITY LINE IN ACCORDANCE WITH THE VERMONT ENVIRONMENTAL PROTECTION RULES ON EACH SECTION OF THE GRAVITY SEWER. THE ENGINEER SHALL BE GIVEN 72 HOURS NOTICE BEFORE THE TEST IS CONDUCTED. TEST MUST BE WITNESSED BY THE ENGINEER.

PLUG ALL OPENINGS IN THE TEST SECTION. ADD AIR UNTIL THE INTERNAL PRESSURE OF THE LINE IS RAISED TO APPROXIMATELY 4.0 POUNDS/SQUARE INCH (PSI) GREATER THAN THE AVERAGE PRESSURE OF ANY GROUND WATER. AFTER THIS PRESSURE IS REACHED, ALLOW THE PRESSURE TO STABILIZE. THE PRESSURE WILL NORMALLY DROP AS THE AIR TEMPERATURE STABILIZES. THIS USUALLY TAKES 2 TO 5 MINUTES DEPENDING ON THE PIPE SIZE. THE PRESSURE MAY BE REDUCED TO 3.5 PSI BEFORE STARTING THE TEST.

WHEN THE PRESSURE HAS STABILIZED AND IS AT OR ABOVE THE STARTING TEST PRESSURE OF 3.5 PSI ABOVE THE PIPE, START THE TEST. IF THE PRESSURE DROPS MORE THAN 1.0 PSI DURING THE TEST TIME, THE LINE IS PRESUMED TO HAVE FAILED THE TEST. IF A 1.0 PSI DROP DOES NOT OCCUR WITHIN THE TEST TIME, THE LINE HAS PASSED THE TEST. THE TEST TIME SHALL BE DERIVED FROM THE FOLLOWING TABLE. IF THE SECTION OF LINE TO BE TESTED INCLUDES MORE THAN ONE PIPE SIZE, CALCULATE THE TEST TIME FOR EACH SIZE AND ADD THE TEST TIMES TO ARRIVE AT THE TOTAL TEST TIME FOR THE SECTION.

| PIPE SIZE (IN) | T (TIME) (MIN./100FT) |
|----------------|-----------------------|
| 3              | 0.2                   |
| 4              | 0.3                   |
| 6              | 0.7                   |
| 8              | 1.2                   |

- INSTALLATION: PIPE SHALL BE LAID WITH BELL ENDS FACING UPGRADE AND LAYING SHALL START AT THE DOWNGRADE END.
- WATER LINE SEPARATION:
  - HORIZONTAL SEPARATION: SEWERS SHALL BE LAID FLAT AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.

WHERE IMPOSSIBLE OR IMPRACTICABLE TO MAINTAIN THE TEN FOOT SEWER/WATER PIPE HORIZONTAL SEPARATION, (DUE TO LEDGE, BOULDERS OR OTHER UNUSUAL CONDITIONS) THE WATER LINE MAY BE IN A SEPARATE TRENCH OR ON AN EARTH SHELVE IN THE SEWER TRENCH PROVIDED THAT THE BOTTOM OF THE WATER LINE IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. WHEREVER IMPOSSIBLE OR IMPRACTICAL TO MAINTAIN THE 18 INCH VERTICAL SEPARATION, THE SEWER LINE SHALL BE CONSTRUCTED USING PRESSURE PIPE TO NORMAL WATER LINE STANDARDS AND PRESSURE TESTED TO 50 PSI FOR 15 MINUTE PRIOR TO BACKFILLING.
  - CROSSINGS: SEWERS CROSSING WATER MAINS SHALL BE LAID BENEATH THE WATER MAIN WITH AT LEAST 18 INCHES VERTICAL CLEARANCE BETWEEN THE OUTSIDE OF THE SEWER AND THE OUTSIDE OF THE WATER MAIN. WHEN IT IS IMPOSSIBLE TO MAINTAIN THE 18 INCH VERTICAL SEPARATION:
    - THE CROSSING SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER IS CENTERED ABOVE OR BELOW THE WATER LINE WITH SEWER JOINTS AS FAR AWAY AS POSSIBLE FROM WATER JOINTS.
    - THE SEWER PIPE MUST BE CONSTRUCTED TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 20 FEET EITHER SIDE OF THE CROSSING OR A TOTAL OF THREE PIPE LENGTHS, WHICHEVER IS GREATER.
    - THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 PSI FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND ONE FOOT ABOVE THE PIPE TO ASSURE WATER TIGHTNESS.
    - WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

- MANHOLES:
  - DIAMETER: THE MINIMUM DIAMETER OF MANHOLES SHALL BE 48 INCHES; LARGE DIAMETERS ARE PREFERRED FOR CONNECTION TO LARGE DIAMETER SEWERS. A MINIMUM ACCESS DIAMETER OF 24 INCHES SHALL BE PROVIDED.
  - FLOW CHANNEL: FLOW CHANNELS SHALL BE PROVIDED IN THE BASE OF ALL MANHOLES AND THE FLOW CHANNEL THROUGH MANHOLES SHOULD BE MADE TO CONFORM IN SHAPE AND SLOPE TO THAT OF THE SEWERS.
  - MANHOLES SHALL BE OF THE PRE-CAST CONCRETE OR POUR-IN PLACE CONCRETE TYPE. MANHOLES SHALL BE WATERPROOFED ON THE EXTERIOR.
  - INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A RUBBER-GASKETED FLEXIBLE WATERTIGHT CONNECTION THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL TO TAKE PLACE.
  - ALL MANHOLES SHALL BE TESTED FOR LEAKAGE. LEAKAGE TESTING OF GRAVITY SEWERS UTILIZING THE WATER TESTING PROCEDURES TAKES INTO ACCOUNT THE LEAKAGE FROM ONE MANHOLE IN THE TEST SECTION. OTHERWISE, MANHOLES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:

AFTER THE MANHOLE HAS BEEN ASSEMBLED IN PLACE, ALL LIFTING HOLES AND EXTERIOR JOINTS SHALL BE FILLED WITH AND POINTED WITH AN APPROVED NON-SHRINKING MORTAR. ALL PIPES AND OTHER OPENINGS INTO THE MANHOLE SHALL BE SUITABLY PLUGGED AND THE PLUGS PLACED TO PREVENT BLOWOUT.

EACH MANHOLE SHALL BE CHECKED FOR INFILTRATION BY FILLING WITH WATER TO THE TOP OF THE CONE SECTION. A STABILIZATION PERIOD OF ONE HOUR SHALL BE PROVIDED TO ALLOW FOR ABSORPTION. AT THE END OF THIS PERIOD, THE MANHOLE SHALL BE REFILLED TO THE TOP OF THE CONE, IF NECESSARY, AND THE MEASURING TIME OF AT LEAST SIX HOURS BEGUN. AT THE END OF THE TEST PERIOD, THE MANHOLE SHALL BE REFILLED TO THE TOP OF THE CONE MEASURING THE VOLUME OF WATER ADDED. THIS AMOUNT SHALL BE CONVERTED TO A 24 HOUR RATE AND THE LEAKAGE DETERMINED ON THE BASIS OF DEPTH. THE LEAKAGE FOR EACH MANHOLE SHALL NOT EXCEED ONE GALLON PER VERTICAL FOOT FOR A 24 HOUR PERIOD. THE LEAKAGE DETERMINED ON THE BASIS OF DEPTH SHALL BE NO VISIBLE INFILTRATION. IF AN AIR TEST IS

Stamp

Chkd.

Rev. No.

1

DRB Submitted

08/03/16

Description

ENGINEERING  
VENTURES PC

208 Flyn Avenue, Suite 2A Burlington, VT 05401  
85 Main Street, Suite 300A Lebanon, NH 03766  
Tel: 603.442.3333 • Fax: 603.442.3331  
www.engineeringventures.com

Richardson Properties, LLC

P.O. Box 276

South Hero, VT

05486

Client:

Richardson Properties, LLC

P.O. Box 276

South Hero, VT

05486

Sheet Title:

Sewer Details and Notes

Project Title:

435/441 Shelburne Street Multi-Family

Burlington, Vermont

Designed By:

PB

Checked By:

-

Drawn By:

WC

Scale:

N.T.S.

Date:

August, 2016

C31

1. UNLESS OTHERWISE NOTED, ASSUME CLASS "C" SOILS. PERFORM ALL EXCAVATIONS TO OSHA REQUIREMENTS.
2. BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS AND UNIFORM SUPPORT FOR THE FULL LENGTH OF PIPE.
3. WHEN APPLICABLE, INSTALL PIPE WITH BELL ENDS DOWN SLOPE. PREVENT SEDIMENT FROM ENTERING NEW STORM DRAIN SYSTEM DURING CONSTRUCTION.
4. NO MECHANICAL TAMPERS SHALL BE USED DIRECTLY OVER PIPE TO INSURE PIPE IS NOT DAMAGED.
5. PROVIDE 6" OF COVER OVER PIPE IN PAVED AREAS AND 5" OF COVER OVER PIPE IN UNPAVED AREAS. REFER TO INSULATION DETAIL FOR AREAS WHERE PROPER COVER CAN NOT BE ACHIEVED.

SCALE: NONE

1. REFER TO APPLICABLE TRENCH DETAIL FOR SPECIFIC BACKFILL INFORMATION.

NOT TO SCALE

SCALE: NONE

1. INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.
2. ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.

|   |                     |        |
|---|---------------------|--------|
| A | FINISH GRADE        | 198.80 |
|   | APPROX. EXIST GRADE | 198.80 |
| B | TOP OF STONE        | 197.00 |
| C | CHAMBER INVERT      | 195.50 |
| D | BOTTOM OF STONE     | 195.00 |

|   |                     |        |
|---|---------------------|--------|
| A | FINISH GRADE        | 199.70 |
|   | APPROX. EXIST GRADE | 199.70 |
| B | TOP OF STONE        | 198.50 |
| C | CHAMBER INVERT      | 197.00 |
| D | BOTTOM OF STONE     | 196.50 |

- 
- LEABRON LS205 FRAME AND LID OR APPROVED EQUAL
- INSPECTION PORT, W/SCREW-IN CAP, ON EACH END OF ISOLATOR ROW
- 6" PVC RISER
- STORMTECH END CAP
- 6" INLET PIPE
- ROOF DRAIN
- GEOTEX 601, MIRAFI 180W FILTER FABRIC BLANKET 180W OR EQUAL FULLY ENVELOPING STONE
- NOTE:  
1. UP-STREAM CONSTRUCTION SHALL BE COMPLETED AND STABILIZED PRIOR TO CONNECTING TO INFILTRATION CHANNEL.

## PROFILE

- 

| MATERIALS SPECIFICATIONS: |                                   |                                 |                                                            | GEOMEMBRANE                                                  |  |
|---------------------------|-----------------------------------|---------------------------------|------------------------------------------------------------|--------------------------------------------------------------|--|
| PARAMETER                 | SPECIFICATION                     | SIZE                            | NOTES                                                      |                                                              |  |
| FILTER MEDIA<br>[2" DEEP] | COMPONENT MATERIAL                | PERCENT OF MIXTURE<br>BY VOLUME | LOCATION OF MATERIAL<br>SHEET NO. & PLACING                |                                                              |  |
|                           | HARDWOOD CHIPS                    | 20%                             | 200<br>45                                                  | WOOD CHIPS SHALL BE CHIPPED HARDWOOD WITH FINES A INDICATED. |  |
|                           | TOPSOIL                           | 20%                             | 1/2" 100                                                   | CLEAN TOPSOIL, MEETING LANDSCAPE SPECIFICATIONS.             |  |
|                           | LOWAY SAND                        | 60%                             | 10 85 TO 100<br>20 70 TO 100<br>60 15 TO 40<br>100 8 TO 15 | USDA SOIL TYPE FOR LOWAY COARSE SAND                         |  |
|                           |                                   |                                 |                                                            |                                                              |  |
| RIVER STONE               | 2" WASHED, ROUNDED STONE MATERIAL |                                 |                                                            | APPROVED BY LANDSCAPE ARCHITECT.                             |  |
| PEA GRAVEL                | ASTM C33-03                       |                                 | NO. 8 (3/8" - #8)                                          |                                                              |  |

**FLITER MEDIA:**  
THE SOIL (EXCLUDING WOOD CHIPS) SHOULD BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 1/2 INCH. NO OTHER MATERIALS OR SUBSTANCES SHOULD BE ADDED OR DUMPED WITH THE BIORETENTION MEDIA THAT MAY BE HARVESTED. PLANT GROWTH OR PLANT A PLANTING TO THE PLANTING OR MAINTENANCE OPERATIONS. THE FILTER MEDIA SHOULD BE FREE OF NOXIOUS WEEDS. THE FILTER MEDIA SHOULD BE TESTED AND SHOULD MEET THE FOLLOWING CRITERIA:

- PH RANGE 5.2 - 7.0
- ORGANIC MATTER 1.5 - 4%
- NITROGEN 15 LB/TON
- PHOSPHORUS 15 LB/TON
- POTASSIUM 420 LB/TON
- SOLUBLE SALTS NOT TO EXCEED 500 PPM

NOT TO SCALE

[illegible]

**ENGINEERING  
VENTURES PC**

208 Flynn Avenue, Suite 2A Burlington, VT 05401  
tel. 802.863.6225 • fax 802.863.6306  
85 Mechanic Street, Suite 350A, Lebanon, NH 03766  
tel. 603.442.9333 • fax 603.442.9331  
[www.engineeringventures.com](http://www.engineeringventures.com)

Richardson Properties, LLC  
P.O. Box 276  
South Hero, VT  
05486

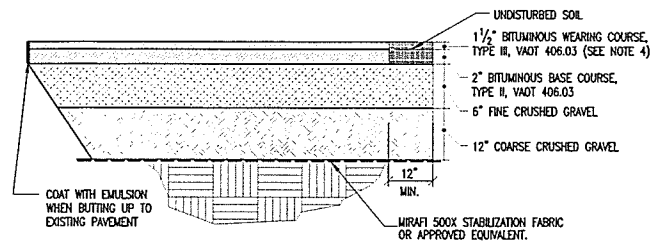
Client: **Storm Water Details**

Project Title: **435/441 Shelburne Street Multi-Family**  
Burlington, Vermont

|              |              |
|--------------|--------------|
| Designed By: | PB           |
| Checked By:  | --           |
| Drawn By:    | WC           |
| Scale:       | N.T.S.       |
| Date:        | August, 2016 |

### C3.2

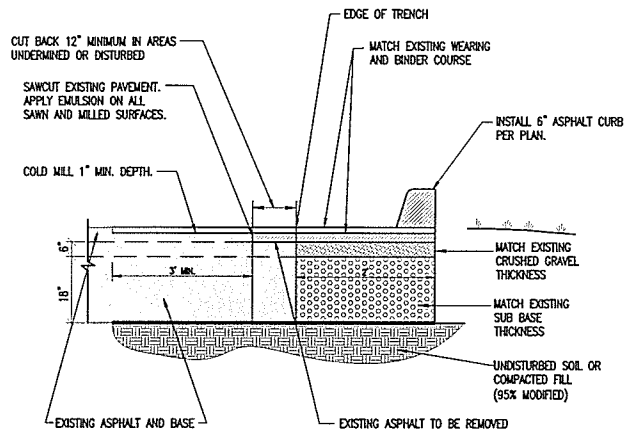




- PAVEMENT PATCHING NOTES:
1. IN ALL PAVEMENT AREAS TO BE PATCHED, SAW CUT AND REMOVE EXISTING PAVEMENT.
  2. EXCAVATE BASE MATERIAL AND SUB-BASE MATERIAL IF INADEQUATE.
  3. COMPACT ALL FILL MATERIAL TO 95% MODIFIED PROCTOR DENSITY.

### TYPICAL PAVEMENT DETAIL

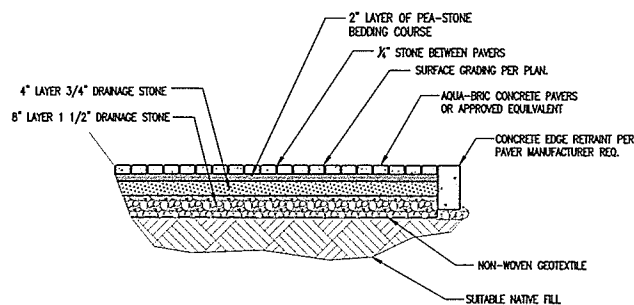
SCALE: NONE



- PAVEMENT PATCHING NOTES:
1. IN ALL PAVEMENT AREAS TO BE PATCHED, SAW CUT AND REMOVE EXISTING PAVEMENT.
  2. EXCAVATE BASE MATERIAL AND SUB-BASE MATERIAL IF INADEQUATE.
  3. COMPACT ALL FILL MATERIAL TO 95% MODIFIED PROCTOR DENSITY.

### PAVING PATCH DETAIL

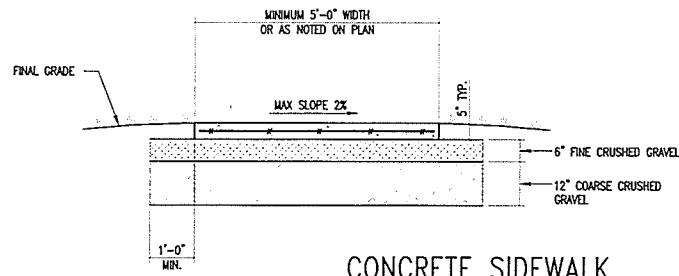
SCALE: NONE



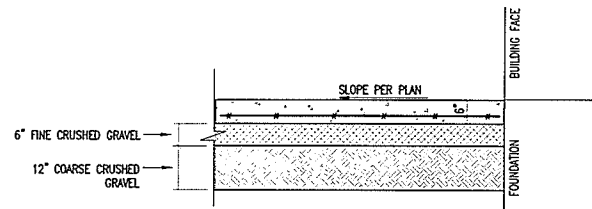
- NOTES:
1. COMPACT SUITABLE NATIVE SOIL TO 90% MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR TEST.
  2. ALL STONE MATERIALS ARE TO BE APPLIED IN 6\"/>

### PERVIOUS PAVER DETAIL

SCALE: NONE



### CONCRETE SIDEWALK



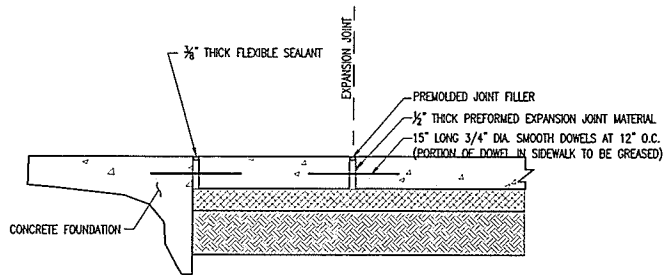
### CONCRETE SLAB/PAVEMENT

#### CONCRETE NOTES:

1. PLACE A TOOLED JOINT 1/8\"/>

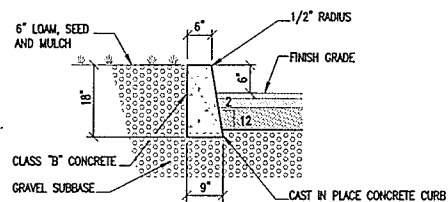
### CONCRETE DETAIL

SCALE: NONE



### EXPANSION JOINT DETAIL

SCALE: NONE



#### CONCRETE CURB NOTES:

1. CONSTRUCT CURBS IN 10'-0\"/>

### CONCRETE CURB DETAIL

SCALE: NONE

## SITE/EARTHWORK SPECIFICATIONS

1. PRIOR TO THE START OF THE WORK, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE CONTRACTOR, OWNER, PROJECT ENGINEER AND A REPRESENTATIVE FOR THE CITY OF BURLINGTON TO REVIEW PROCEDURES AND IDENTIFY RESPONSIBILITIES. THE CITY SHALL BE GIVEN NOTICE AT LEAST 24 HOURS PRIOR TO THE MEETING. UNLESS STATED OTHERWISE, ALL MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE STATE OF VERMONT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. CLEARING AND GRUBBING- ALL TOPSOIL AND UNSUITABLE MATERIALS SHALL BE REMOVED FROM IMPACTED AREAS.
3. COMPACTION SHALL BE PERFORMED USING VIBRATORY ROLLERS AND WATER IN LIFTS OF NO GREATER THAN SIX INCHES. COMPACTION SHALL BE PERFORMED UNTIL THE REQUIRED DENSITY IS ACHIEVED. DENSITY SHALL BE DETERMINED BY AASHTO T238 METHOD AND SHALL NOT BE LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY FOR PAVED AREAS AND 90 PERCENT OF THE MAXIMUM DENSITY FOR NON PAVED AREAS DETERMINED IN ACCORDANCE WITH AASHTO T99.
4. COMPACTION TESTING SHALL BE PERFORMED FOR EVERY LAYER OF MATERIAL PLACED AND FOR EVERY 1000 SQUARE FEET OF AREA.
5. ALL REMAINING DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE TOPSOILED, FERTILIZED AND SEEDED IN ACCORDANCE WITH THE VERMONT STATE SPECIFICATIONS.
6. THE SEEDING OF SLOPES AND DITCHES SHALL REQUIRE THE USE OF EROSION CONTROL MATTING.

7. COST OF INITIAL INSPECTION AND TESTING SHALL BE PAID BY THE OWNER. SUBSEQUENT TESTING OF MATERIALS NOT PASSING INITIAL INSPECTION, SHALL BE PAID BY THE CONTRACTOR. 8. ALL EARTHWORK MATERIALS SHALL BE OBTAINED FROM APPROVED SOURCES. THEY SHALL CONSIST OF SATISFACTORILY GRADED, FREE DRAINING MATERIAL, REASONABLY FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIAL. EARTHWORK MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING TABLES.

|                           |                   |                                              |
|---------------------------|-------------------|----------------------------------------------|
| A. SAND BLANKET/BEDDING:  | SIEVE DESIGNATION | PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES |
|                           | 2 INCHES          | 100                                          |
|                           | 1½ INCHES         | 90 – 100                                     |
|                           | ¾ INCH            | 70 – 100                                     |
|                           | NO. 4             | 60 – 100                                     |
|                           | NO. 100           | 0 – 20                                       |
|                           | NO. 200           | 0 – 8                                        |
| B. ¾" CRUSHED STONE:      | SIEVE DESIGNATION | PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES |
|                           | 1 INCH            | 100                                          |
|                           | ¾ INCHES          | 90 – 100                                     |
|                           | ⅝ INCHES          | 20 – 55                                      |
|                           | No. 4             | 0 – 10                                       |
|                           | No. 8             | 0 – 5                                        |
| C. 1-1/2" CRUSHED STONE:  | SIEVE DESIGNATION | PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES |
|                           | 2 INCH            | 100                                          |
|                           | 1-1/2 INCH        | 95 – 100                                     |
|                           | 3/4 INCHES        | 35 – 70                                      |
|                           | 3/8 INCHES        | 10 – 30                                      |
|                           | No. 4             | 0 – 5                                        |
| D. NO. 57 STONE:          | SIEVE DESIGNATION | PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES |
|                           | 1-1/2 INCHES      | 100                                          |
|                           | 1 INCH            | 95 – 100                                     |
|                           | 1/2 INCHES        | 25 – 60                                      |
|                           | NO. 4             | 0 – 10                                       |
|                           | No. 8             | 0 – 5                                        |
| E. GRAVEL SUB-BASE:       | SIEVE DESIGNATION | PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES |
|                           | NO. 4             | 20 – 60                                      |
|                           | NO. 100           | 0 – 12                                       |
|                           | NO. 200           | 0 – 6                                        |
| F. COARSE CRUSHED GRAVEL: | SIEVE DESIGNATION | PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES |
|                           | 4 INCHES          | 95 – 100                                     |
|                           | NO. 4             | 25 – 50                                      |
|                           | NO. 100           | 0 – 12                                       |
|                           | NO. 200           | 0 – 6                                        |
| G. FINE CRUSHED GRAVEL:   | SIEVE DESIGNATION | PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES |
|                           | 2 INCHES          | 100                                          |
|                           | 1½ INCHES         | 90 – 100                                     |
|                           | NO. 4             | 30 – 60                                      |
|                           | NO. 100           | 0 – 12                                       |
|                           | NO. 200           | 0 – 6                                        |
| H. GRANULAR BACKFILL:     | SIEVE DESIGNATION | PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES |
|                           | 3 INCHES          | 100                                          |
|                           | NO. 4             | 45 – 75                                      |
|                           | NO. 100           | 0 – 12                                       |
|                           | NO. 200           | 0 – 6                                        |

- I. TYPE I STONE FOR STONE FILL THE LONGEST DIMENSION OF THE STONE SHALL VARY FROM 1 INCH TO 12 INCHES, AND AT LEAST 50 PERCENT OF THE VOLUME OF THE STONE IN PLACE SHALL HAVE A LEAST DIMENSION OF FOUR INCHES.
- J. TYPE II STONE FOR STONE FILL THE LONGEST DIMENSION OF THE STONE SHALL VARY FROM TWO INCHES TO 36 INCHES, AND AT LEAST 50 PERCENT OF THE VOLUME OF THE STONE IN PLACE SHALL HAVE A LEAST DIMENSION OF 12 INCHES.

**RECEIVED**  
 AUG 03 2016

DEPARTMENT OF  
 PLANNING & ZONING

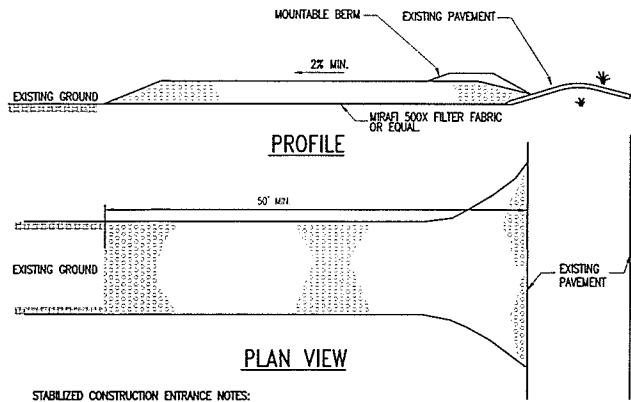
Site Details and Notes

Project Title:  
 435/441 Shelburne Street Multi-Family  
 Burlington, Vermont

Designed By: PB  
 Checked By: -  
 Drawn By: WC  
 Scale: N.T.S.  
 Date: August, 2016

C3.3



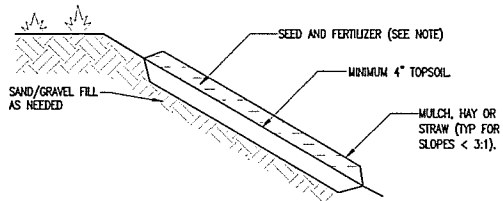


#### STABILIZED CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE: USE 1-1/2" CRUSHED STONE.
2. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE.
3. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. REPAIR AND/OR CLEANOUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
4. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
5. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

### CONSTRUCTION ENTRANCE DETAIL

SCALE: NONE

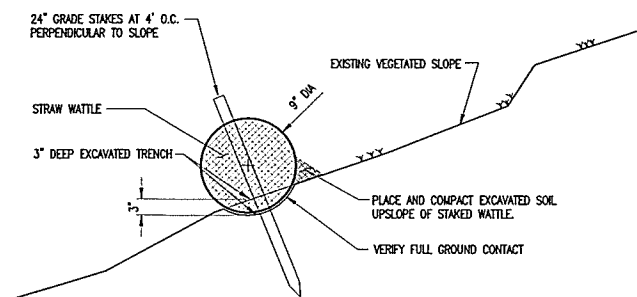


#### NOTES FOR SEEDING AND MULCHED AREAS

1. ALL DISTURBED SURFACES SHALL BE TEMPORARILY OR PERMANENTLY SEEDING AND MULCHED WITHIN 7 DAYS OF DISTURBANCE.
2. SEEDING AND MULCHING OF DISTURBED AREAS SHALL TAKE PLACE WITHIN 48 HOURS OF FINAL GRADING.
3. MULCH: TYPICALLY HAY OR STRAW MAY BE UTILIZED AND SHALL BE APPLIED AT A RATE OF 90-100 LBS/1,000 SF. MULCH SHALL NOT BE PLACED ON SLOPES OF GREATER THAN 3:1. EROSION CONTROL MATTING SHALL BE USED IN ITS PLACE.
4. SEED: SEEDING SHALL OCCUR AFTER APRIL 15 AND PRIOR TO SEPTEMBER 15TH IN ORDER TO ESTABLISH A STAND OF GRASS PRIOR TO GROUND FREEZING. SEED SHALL BE IN ACCORDANCE WITH SECTION 32 9200.
5. COVER SEED WITH 1/4" SOIL UNLESS A HYDROSEEDER IS USED.
6. MULCH ANCHORING: SHALL BE ACCOMPLISHED BY DEGRADABLE MULCH NETTING OR MATTING. USE WHEN SLOPES ARE GREATER THAN 10%.
7. TOPSOIL AND MULCHING NOT TO BE APPLIED IN AREAS OF TRAVEL WAYS.
8. REFER TO LANDSCAPE PLANS FOR TOPSOIL AND PERMANENT SEEDING INFORMATION.

### SEEDING AND MULCHED AREAS DETAIL

SCALE: NONE

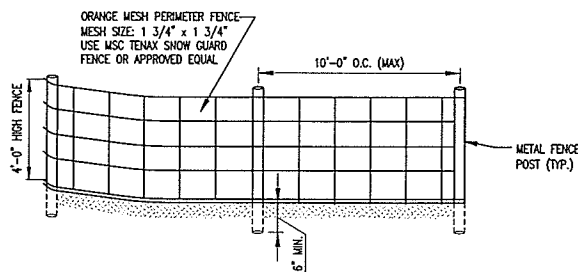


#### NOTES:

1. STRAW WATTLE PRODUCT TO BE NORTH AMERICAN GREEN SEDMAX-SW99 OR APPROVED EQUIVALENT.
2. WATTLES TO BE 9" DIAMETER AND CONSIST OF AGRICULTURAL STRAW WRAPPED IN BIODEGRADABLE, ORGANIC JUTE NET.
3. INSTALL PER MANUFACTURER'S RECOMMENDATION.

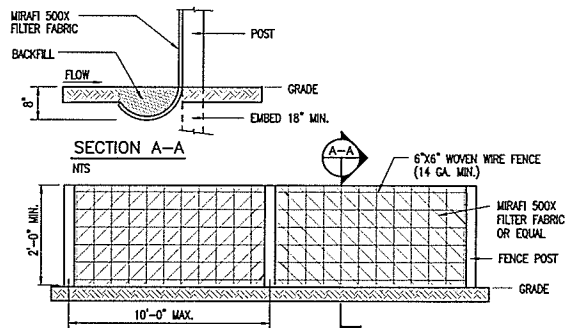
### STRAW WATTLE DETAIL

SCALE: NONE



### ORANGE CONSTRUCTION FENCE DETAIL

SCALE: NONE



#### SILT FENCE NOTES:

1. SILT FENCE SHALL BE PRE-FABRICATED EROSION CONTROL FENCE BY MIRAFI OR EQUAL, OR CONSTRUCTED IN PLACE AS SPECIFIED HEREIN.
2. CONSTRUCTED IN PLACE SILT FENCE:
  - A. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - B. FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE TIES SPACED EVERY 24" AT TOP OF MID SECTION.
  - C. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6", FOLDED AND STAPLED.
3. INSPECTION SHALL BE FREQUENT (MINIMUM ONCE A WEEK AND AFTER EVERY RAINFALL). MAINTENANCE SHALL BE PERFORMED AS NEEDED, AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN SILT FENCE.
4. WOVEN WIRE FENCE REINFORCEMENT IS REQUIRED BY THE VT CONSTRUCTION GENERAL PERMIT WHEN SILT FENCE IS PLACED WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

### SILT FENCE DETAIL

SCALE: NONE

### EPSC NOTES

1. PRIOR TO THE START OF WORK, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE CONTRACTOR, OWNER, PROJECT ENGINEER AND TOWN DPW TO REVIEW PROCEDURES AND IDENTIFY RESPONSIBILITIES. 4 WEEKS NOTICE SHALL BE GIVEN TO THE CITY PRIOR TO START OF CONSTRUCTION. UNLESS STATED OTHERWISE STATED, ALL MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE VTTRANS SPECIFICATIONS.
2. ALL REMAINING DISTURBED AREAS SHALL BE FERTILIZED AND SEEDING IN ACCORDANCE WITH APPLICABLE STATE SPECIFICATIONS FOR EROSION CONTROL.
3. THE SEEDING OF 10% OR GREATER SLOPES SHALL REQUIRE THE USE OF EROSION CONTROL MATTING.
4. ALL EARTHWORK MATERIALS SHALL BE OBTAINED FROM APPROVED SOURCES. THEY SHALL CONSIST OF SATISFACTORILY GRADED, FREE DRAINING MATERIAL, REASONABLY FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIAL. EARTHWORK MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING TABLES:

### WINTER EROSION CONTROL NOTES

#### WINTER CONSTRUCTION PROCEDURES

1. DURING WINTER CONSTRUCTION, INSPECTIONS BY THE ON-SITE PLAN COORDINATOR SHALL OCCUR DAILY WHEN AREAS ARE UN-STABLE, AND WEEKLY PRIOR TO ANY FORECASTED RAIN, THAW OR SPRING MELT WHEN TEMPORARY STABILIZATION IS IN PLACE.
2. IN AREAS TO BE STABILIZED BY VEGETATION, ALL SEEDING MUST BE COMPLETED BY SEPTEMBER 15 TO ALLOW GROWTH TO OCCUR PRIOR TO THE GROUND FREEZING. STABILIZATION OF ALL OTHER DISTURBED AREAS SHALL BE COMPLETED BY OCTOBER 15.
3. ENLARGED ACCESS POINTS, STABILIZED TO PROVIDE FOR SNOW STOCKPILING SHALL BE INSTALLED.
4. LIMITS OF DISTURBANCE SHALL BE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK.
5. SNOW WILL NOT BE PILED WITHIN 25 FEET OF PERIMETER CONTROLS (SUCH AS SILT FENCE) TO ALLOW FOR CLEARING AND MAINTENANCE. SNOW IS TO BE REMOVED FROM ALL STRUCTURAL EROSION PREVENTION AND SEDIMENTATION CONTROL MEASURES FOLLOWING EACH SIGNIFICANT SNOWFALL. NO SNOW STORAGE UP-GRADE OF DISTURBANCE. NO SNOW DISPOSAL IN SEDIMENT PONDS/BASINS. IF NECESSARY, SNOW/ICE MUST BE REMOVED PRIOR TO STABILIZATION OF DISTURBED AREAS. ACCESS POINTS SHALL BE ENLARGED AND STABILIZED TO ALLOW FOR SNOW STOCKPILING.
6. IN AREAS OF DISTURBANCE WITHIN 100 FT OF A RECEIVING WATER, SILT FENCE SHALL BE REINFORCED OR ELSE REPLACED WITH PERIMETER DIKES, SWALES OR OTHER PRACTICES RESISTANT TO THE FORCES OF SNOW LOADS.
7. DRAINAGE STRUCTURES SHALL BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
8. ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE TO BE IN PLACE BY OCTOBER 15, OR IF NOT POSSIBLE, THEN PRIOR TO GROUND FREEZE.
9. MULCH IS TO BE APPLIED AT THE END OF EACH WORKDAY TO ALL EXPOSED AREAS THAT HAVE NOT YET REACHED FINAL GRADE AT TWICE THE RATE INDICATED IN THE SEEDING AND MULCHING DETAIL FOR THE REGULAR CONSTRUCTION SEASON. MULCH SHALL BE TRACKED IN OR STABILIZED WITH NETTING.
10. TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
  - A) IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
  - B) DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS HOUSE FOUNDATIONS OR OPEN UTILITY TRENCHES.
11. SNOW AND ICE SHALL BE REMOVED TO LESS THAN 1" THICKNESS PRIOR TO STABILIZATION.
12. STONE STABILIZATION, 10 TO 20 FT WIDE IN AREAS SUCH AS THE PERIMETER OF BUILDINGS UNDER CONSTRUCTION WHERE CONSTRUCTION VEHICLE TRAFFIC IS ANTICIPATED SHALL BE INSTALLED.

RECEIVED  
AUG 03 2016

DEPARTMENT OF  
PLANNING & ZONING  
Client

Richardson Properties, LLC  
P.O. Box 276  
South Hero, VT  
05486

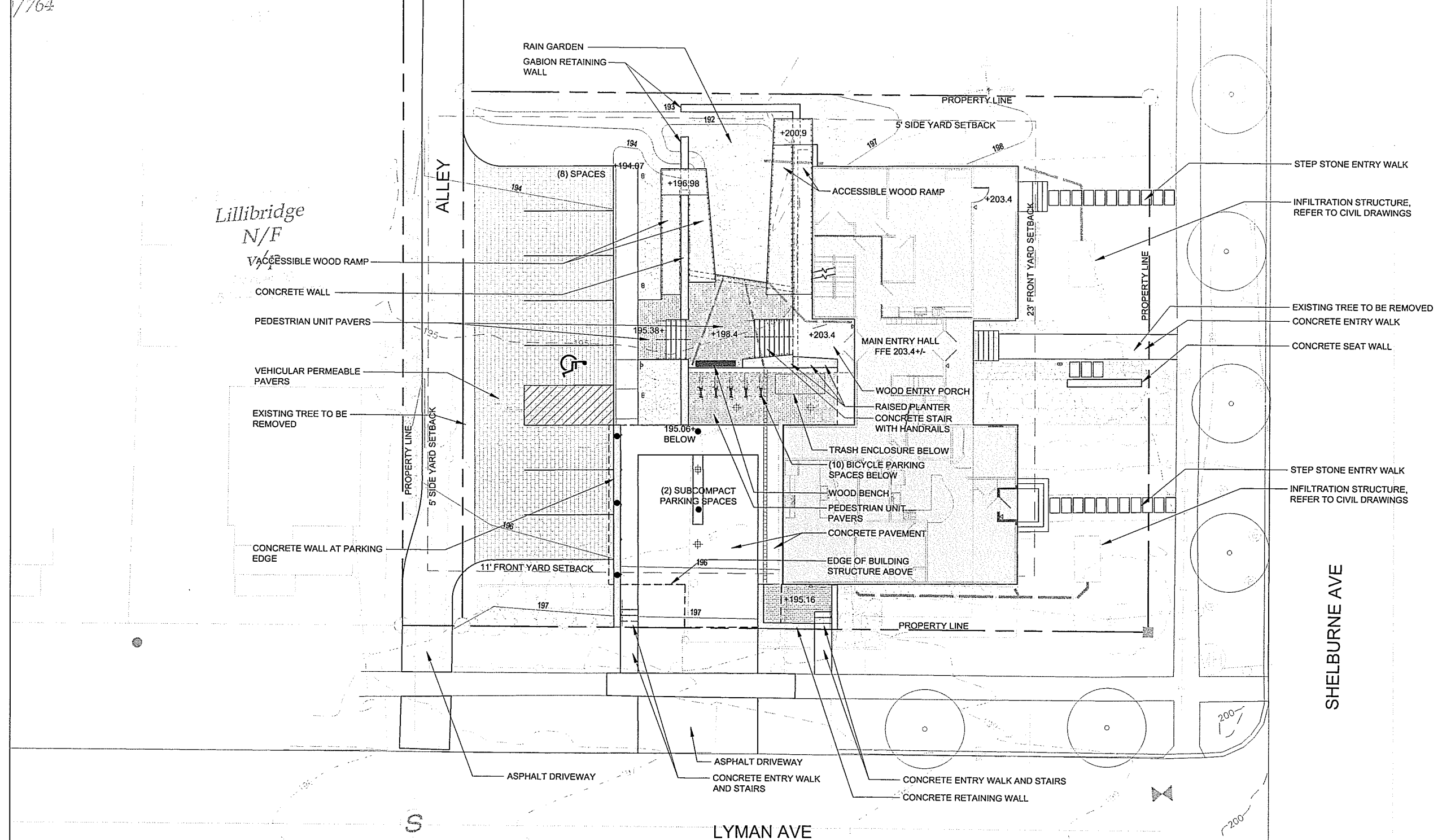
Sheet Title: Erosion Prevention and  
Sediment Control Details and Notes  
Project Title: 435/441 Shelburne Street Multi-Family  
Burlington, Vermont

Designed By: PB  
Checked By: -  
Drawn By: WC  
Scale: N.T.S.  
Date: August, 2016

C3.4

Richardson  
N/F  
QCD (Lamphere)

997/34  
1099/367



RICHARDSON  
MULTIFAMILY  
HOUSING

RECEIVED  
AUG 03 2016

### Graphic Scale

North

Scale: 1"=10'-0"

Date: August 3, 2016

Drawn By: TH

Checked By: AP

ues:

| Description | C |
|-------------|---|
|             |   |
|             |   |
|             |   |
|             |   |
|             |   |
|             |   |

e

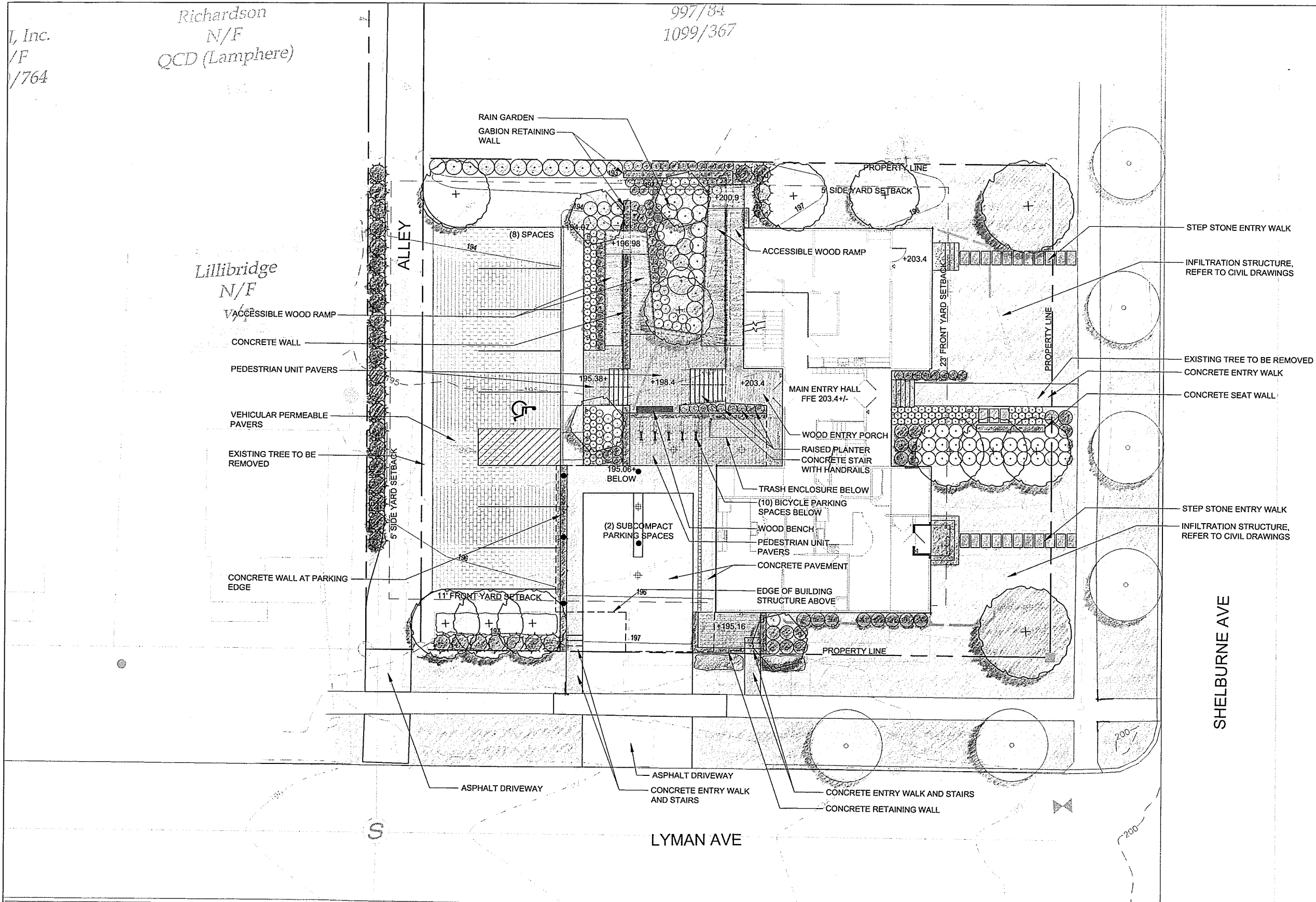
## SITE MATERIALS PLAN

Sheet Number:

LA-100

ject Number: 1605001

LA-100 Site Materials Plan.dwg



Richardson  
N/F  
QCD (Lamphere)

997/84  
1099/367

Lillibridge  
N/F

**SE GROUP**  
Landscape Architects and Planners  
131 Church Street  
Burlington, VT 05401  
tel: 802.862.0098  
fax: 802.865.2440  
www.segroup.com

**RICHARDSON  
MULTIFAMILY  
HOUSING**  
435-441 Shelburne  
Burlington, VT

**RECEIVED**  
AUG 03 2016  
DEPARTMENT OF  
PLANNING & ZONING

PERMIT PLANS  
NOT FOR CONSTRUCTION

0 5' 10' 20'

Graphic Scale

North

Scale: 1"=10'-0"

Date: August 3, 2016

Drawn By: TH

Checked By: AP

Issues:

| No. | Description | Date |
|-----|-------------|------|
|     |             |      |
|     |             |      |
|     |             |      |
|     |             |      |
|     |             |      |
|     |             |      |
|     |             |      |

Title

**SITE MATERIALS  
PLAN**

Sheet Number:

**LA-100**

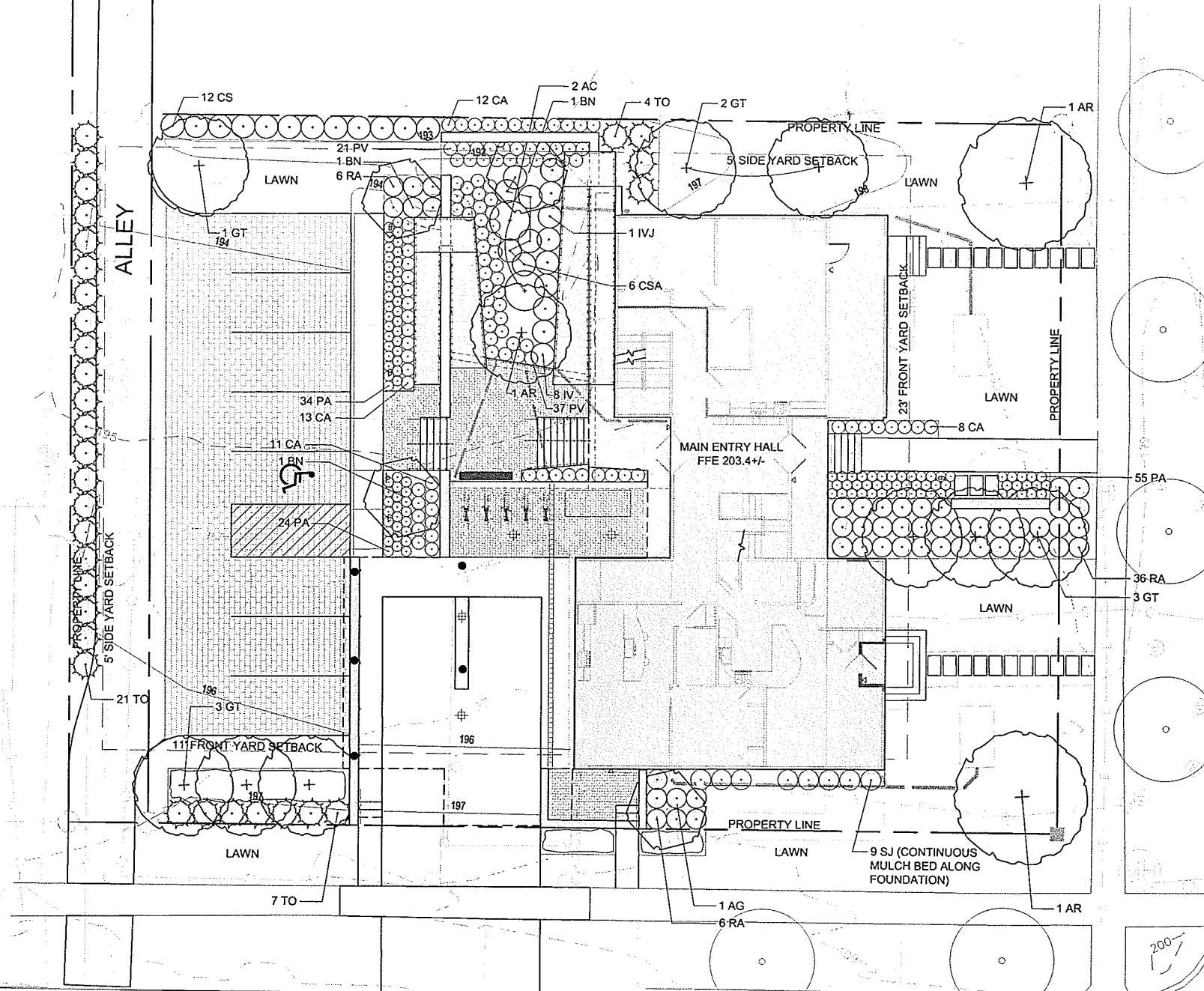
Project Number: 1605001  
File: LA-100 Site Materials Plan.dwg

L, Inc.  
/F  
/764

Richardson  
N/F  
QCD (Lamphere)

Lillibridge  
N/F  
v/p

997/84  
1099/367



PLANT LIST:

| KEY             | BOTANICAL NAME                              | COMMON NAME                    | QTY. | SIZE         | REMARKS              |
|-----------------|---------------------------------------------|--------------------------------|------|--------------|----------------------|
| <b>TREES:</b>   |                                             |                                |      |              |                      |
| AC              | Amelanchier canadensis                      | Shadblow Serviceberry          | 2    | 8-10' HL     | B&B, Multi-Stem      |
| AG              | Amelanchier grandiflora 'Autumn Brilliance' | Autumn Brilliance Serviceberry | 1    | 2"-2.5" cal. | B&B, Single-Stem     |
| AR              | Acer rubrum 'Red Sunset'                    | Red Sunset Maple               | 3    | 2.5"-3" cal. | B&B                  |
| BN              | Betula nigra 'Heritage'                     | Heritage River Birch           | 3    | 2-2.5" cal.  | B&B, Single-Stem     |
| GT              | Gleditsia triacanthos 'Inermis'             | Honeylocust                    | 9    | 2.5"-3" cal. | B&B                  |
| TO              | Thuja occidentalis                          | Eastern White Cedar            | 32   | 7-8' HL      | B&B                  |
| <b>SHRUBS:</b>  |                                             |                                |      |              |                      |
| CSA             | Cornus sericea 'Arctic Fire'                | Arctic Fire Dogwood            | 6    | 3'-4' HL     | Cont. Plant 48" o.c. |
| CS              | Cornus sericea 'Bailey'                     | Bailey Redosier Dogwood        | 12   | 3'-4' HL     | Cont. Plant 48" o.c. |
| IV              | Ilex verticillata 'Red Sprite'              | Winterberry                    | 8    | 3'-4' HL     | Cont. Plant 48" o.c. |
| IV              | Ilex verticillata 'Jim Dandy'               | Winterberry                    | 1    | 3'-4' HL     | Cont. Plant 48" o.c. |
| RA              | Rhus aromatica 'Gro Low'                    | Gro Low Sumac                  | 48   | 18"-24" HL   | Cont.                |
| SJ              | Spiraea japonica 'Shibori'                  | Shibori Spiraea                | 9    | 24"-30" HL   | Cont.                |
| <b>GRASSES:</b> |                                             |                                |      |              |                      |
| CA              | Calamagrostis acutiflora 'Karl Foerster'    | Karl Foerster Grass            | 62   | 1 Gal.       | Cont.                |
| PA              | Pennisetum alopecuroides 'Hameln'           | Hameln Fountain Grass          | 113  | 1 Gal.       | Cont.                |
| PV              | Panicum virgatum                            | Switchgrass                    | 58   | 1 Gal.       | Cont.                |

LYMAN AVE

SHELburne AVE

**SE GROUP**  
Landscape Architects and Planners  
131 Church Street  
Burlington, VT 05401  
tel: 802.862.0098  
fax: 802.865.2440  
www.segroup.com

**RICHARDSON  
MULTIFAMILY  
HOUSING**

435-441 Shelburne  
Burlington, VT

**RECEIVED**  
AUG 03 2016

PERMIT PLANS  
NOT FOR CONSTRUCTION

0 5' 10' 20'

Graphic Scale

North

Scale: 1"=10'-0"

Date: August 3, 2016

Drawn By: TH

Checked By: AP

Issues:

| No. | Description | Date |
|-----|-------------|------|
|     |             |      |
|     |             |      |
|     |             |      |
|     |             |      |
|     |             |      |
|     |             |      |
|     |             |      |
|     |             |      |
|     |             |      |

Title

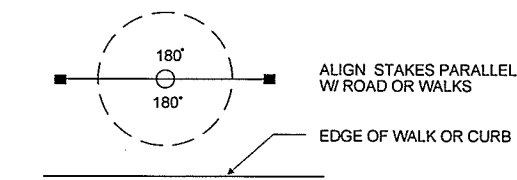
PLANTING PLAN

Sheet Number:

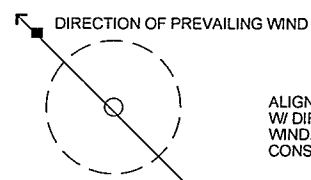
LA-400

Project Number: 1605001

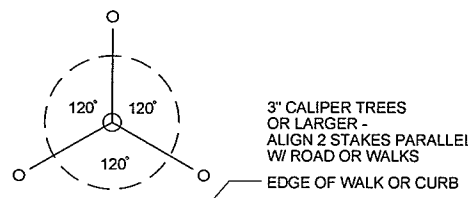
File: LA-400 Landscape Plan.dwg



A. TREE STAKING ALONG ROAD OR WALKS



B. TREE STAKING IN OPEN SPACES



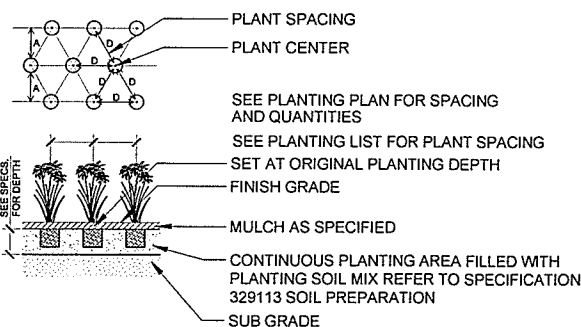
C. TREE GUYING

**E** TREE STAKING LAYOUT  
NO SCALE

p-stake.dwg

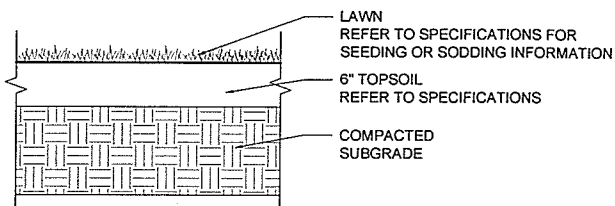
| SPACING "D" | ROW "A" | NUMBER OF PLANTS/SQ. FT. |
|-------------|---------|--------------------------|
| 36" O.C.    | 31.20"  | 0.125                    |
| 30" O.C.    | 26.00"  | 0.180                    |
| 24" O.C.    | 20.76"  | 0.281                    |
| 12" O.C.    | 10.44"  | 1.125                    |
| 10" O.C.    | 8.64"   | 1.660                    |
| 8" O.C.     | 6.96"   | 2.600                    |
| 6" O.C.     | 5.16"   | 4.610                    |

NOTE:  
1. PLANT QUANTITIES DETERMINED BY MULTIPLYING AREA (SQ. FT.) BY NUMBER OF PLANTS/SQ. FT. FOR REQUIRED SPACING.  
2. CONTINUOUS PLANTING PITS FILLED WITH PLANTING MIX PER THE DEPTH AS NOTED IN THE SPECIFICATIONS IS REQUIRED.



**C** PERENNIAL PLANTING  
SCALE: 1/2" = 1'-0"

p-perennial.dwg



**D** LAWN  
SCALE 1" = 1'-0"

p-lawn.dwg

NOTE: EXAMINE ENTIRE TREE AND REMOVE ALL NURSERY TAGS, ROPE, STRING, OR SURVEYORS TAPE TO PREVENT FUTURE GIRDLING.

SURROUNDING SOIL SHOULD NOT EXCEED 80% COMPACTION, DRAINAGE WILL BE REQUIRED IF COMPACTED SOILS ARE PRESENT

NYLON STRAP WITH 3/4" GROMMETS, REFER TO SPECIFICATIONS

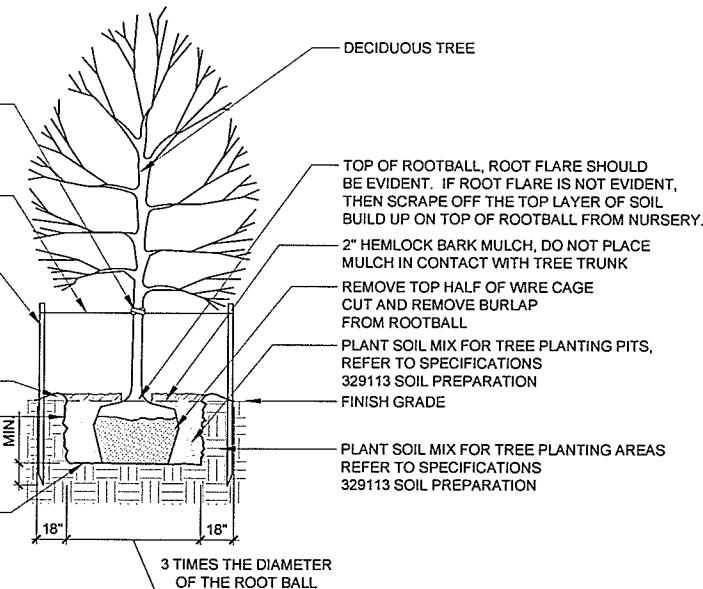
FASTEN WIRE BELOW POINT OF MAJOR BRANCHING OR TO MAJOR OUTSIDE TRUNK.

2 1/2" HARDWOOD STAKES. ALIGN STAKES PARALLEL W/ ROAD/ WALKS OR PARALLEL W/ DIRECTION OF PREVAILING WIND, REFER TO TREE STAKING DETAIL

TEMPORARY WATERING BASIN

BREAK APART EDGE OF EXCAVATION W/ SHOVEL AND BLEND PLANT SOIL MIX W/ EXISTING SOIL TO PROVIDE TRANSITION TO UNDISTURBED GRADE

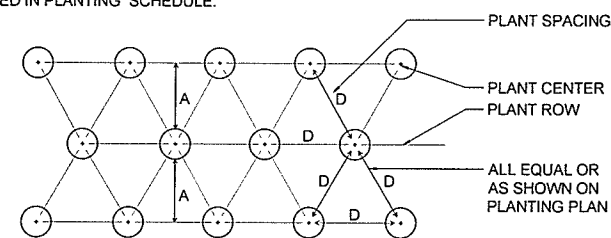
UNDISTURBED GRADE  
EXCAVATE ONLY TO SPECIFIED PLANTING DEPTH TO ENSURE STABLE BASE



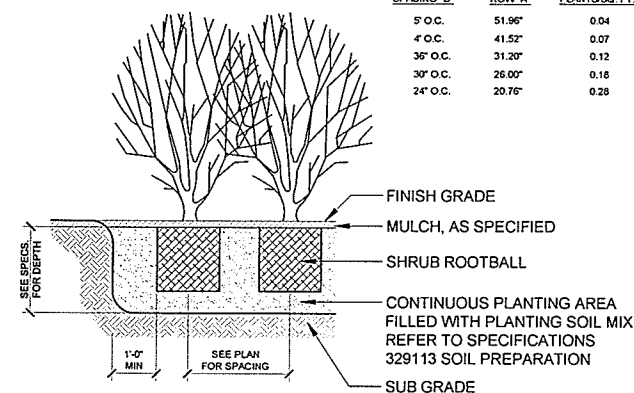
**A** TREE PLANTING  
SCALE 1/4" = 1'-0"

p-decidtree.dwg

NOTE: QUANTITY OF SHRUBS AND SPACING AS NOTED IN PLANTING SCHEDULE.



| SPACING "D" | ROW "A" | NUMBER OF PLANTS/SQ. FT. |
|-------------|---------|--------------------------|
| 9" O.C.     | 51.96"  | 0.04                     |
| 4" O.C.     | 41.52"  | 0.07                     |
| 36" O.C.    | 31.20"  | 0.12                     |
| 30" O.C.    | 26.00"  | 0.18                     |
| 24" O.C.    | 20.76"  | 0.28                     |



**B** SHRUB PLANTING  
SCALE: 1/2" = 1'-0"

| No. | Description | D |
|-----|-------------|---|
|     |             |   |
|     |             |   |
|     |             |   |
|     |             |   |
|     |             |   |
|     |             |   |
|     |             |   |
|     |             |   |
|     |             |   |



KLVR 10/KLVR 17  
ELR 10/ELR 17  
ELR 15/ELR 16

KLVR 10/KLVR 17  
ELR 10/ELR 16  
ELR 16/ELR 17

Ⓑ

A

Ⓔ

**D**

©

131 Church Street  
Burlington, VT 05401  
tel: 802.862.0098  
fax: 802.865.2440  
www.segroup.com

435-441 Shelburne  
Burlington, VT

435-441 Shelburne  
Burlington, VT

RECEIVED  
AUG 03 2016

PERMIT PLANS  
NOT FOR CONSTRUCTION

### Graphic Scale

North

Scale:

Date: August 3, 2016

Drawn By: TH

Checked By: AP

**Issues:**

[illegible]

Title

## SITE LIGHTING CUTSHEETS

Sheet Number:

LA-601

Project Number: 1605001

File



|                           |                                         |
|---------------------------|-----------------------------------------|
| Fixture A (Bollard Light) |                                         |
| Manufacturer:             | Landscape Forms                         |
| Fixture:                  | Multiplicity Path Light- 440L4 (6 LEDs) |
| Configuration:            | Type 4                                  |
| Optics:                   | ---                                     |
| Lamp:                     | 7.8watt LED - 3,000K                    |
| Milliamps:                | 350mA                                   |
| Lens:                     | Flat Lens - FGL                         |
| Color:                    | Anodized Cast Aluminum                  |
| Options:                  | ---                                     |
| Pole:                     | Embedded                                |

**Fixture B (Landscape Wall Light)**  
 Manufacturer: Kim Lighting  
 Fixture: Steplight- Path Light- EL807  
 Configuration: Rectangular  
 Optics: ---  
 Lamp: 5.3watt LED - 3,500K  
 Milliamps: 350ma  
 Lens: Flat Lens - FGL  
 Color: Black  
 Options: Recessed Wall Light, 1' +/- Mounting Height

--- -- **Fixture C (Handrail Light)**  
 Manufacturer: Cole Lighting  
 Fixture: LR5 1.9 GPI-LED Symmetrical  
 ---  
 Optics:  
 Wattage: 2.5watt LED - 3,000K  
 Color: Stainless Steel  
 Options: Underhandrail Mounted

 Fixture D (Under Building Parking Light)  
 Manufacturer: Rab  
 Fixture: VANLED10N  
 Optics: ---  
 Wattage: 13 Watt - 4,000K  
 Color: Bronze  
 Options: Ceiling Mounted Fixture +/- 7' Mounting Height

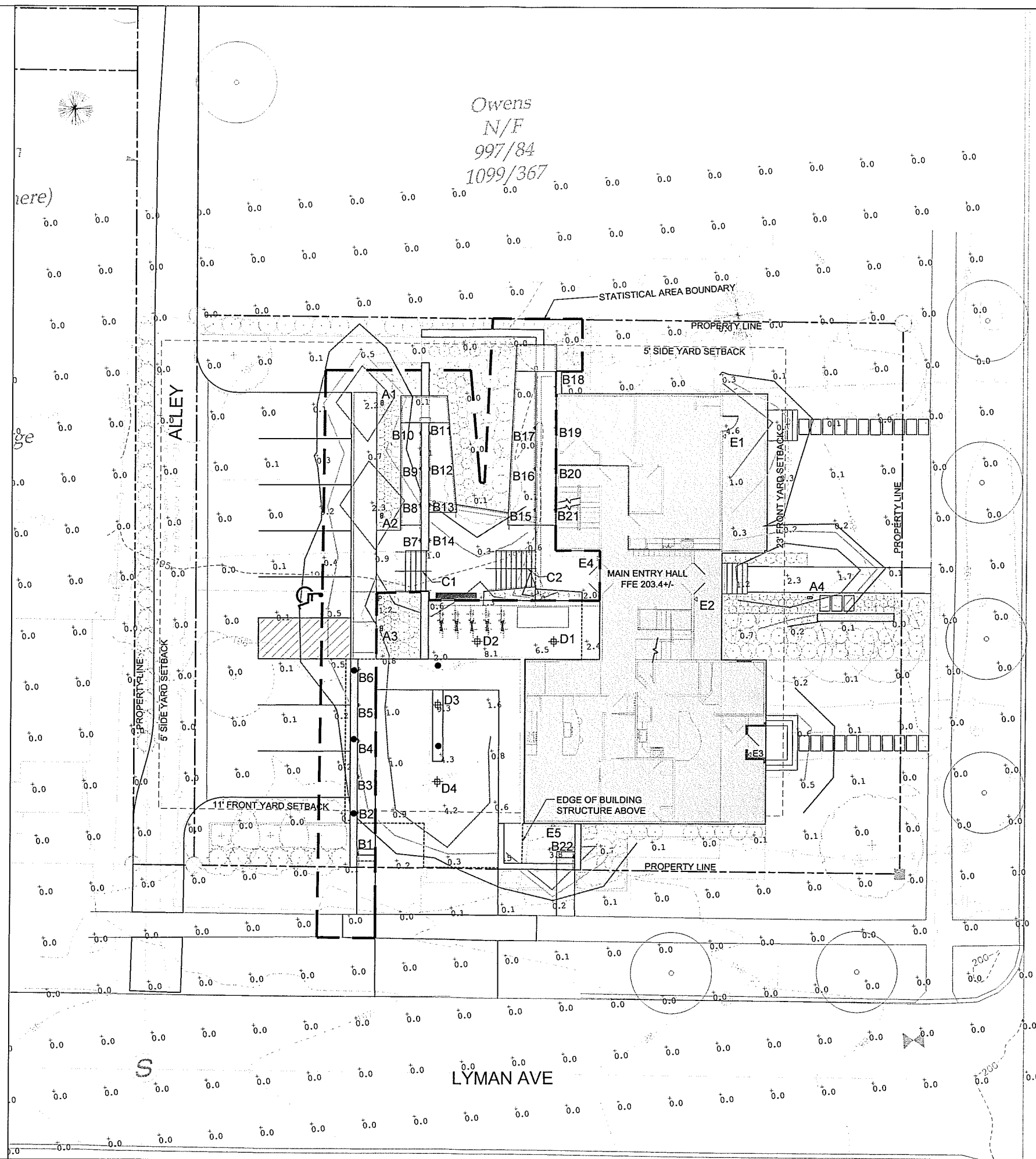
► **Fixture E (Building Entry Light)**  
 Manufacturer: Rab  
 Fixture: Entra Wall Pack - ENTR12N  
 Optics: —  
 Wattage: 12watt  
 Color: Bronze  
 Options: Wall Sconce +/-7' Mounting Height

| <i>ISO-CONTOUR</i>                                                                  | <i>FOOTCANDLE VALUE</i> |
|-------------------------------------------------------------------------------------|-------------------------|
|  | 1.00                    |
|  | 0.50                    |
|  | 0.25                    |

**PARKING LOT AREA**  
Parking Area Lighting is not included in the project due to adjacent neighboring properties and overflow light from the walkway/entry plaza lighting (refer to Walkway Area Summary below).

AVERAGE = 0.56 fc  
MAXIMUM = 2.3 fc  
MINIMUM = 0.0 fc  
AVG/MIN RATIO = 0.00 fc  
MAX/ MIN RATIO = 4.10 fc

Disclaimer: This analysis was calculated in accordance with published IES calculation methods and procedures with the data as entered by the user. This analysis is based on tested IES photometric data, light loss factors as defined in the LLF value. This analysis is a mathematical model of real life situations, and it can be only as accurate as the model itself. Calculated values may vary from actual measurements in certain situations. SE Group is not responsible for light output deviations due to lamp/ballast combinations or other variables.



RICHARDSON  
MULTIFAMILY  
HOUSING

435-441 Shelburne  
Burlington, VT

RECEIVED  
AUG 03 2016

PERMIT PLANS  
NOT FOR CONSTRUCTION



### Graphic Scale



Scale: 1"=10'-0"

Date: August 3, 2016

Drawn By: TH

Checked By: AP

**Issues:**

[illegible]

Title

## SITE LIGHTING PLAN

Sheet Number:

LA-600

Project Number: 1605001

File:

**RECEIVED**  
AUG 03 2016

DEPARTMENT OF  
PLANNING & ZONING

**Richardson Multifamily Parking Management Plan**

Submitted by: Mitchel Richardson

PO Box 276

South Hero, Vermont 05486

8/3/2016

RECEIVED  
AUG 03 2016

**Project Summary:**

DEPARTMENT OF  
PLANNING & ZONING

This plan has been compiled by Mitchel Richardson, with the assistance of Struktur, pllc. The project is located at 435-441 Shelburne Road at the corner of Lyman Avenue and Shelburne Road. Our proposal is to convert an existing 12 Bedroom Rooming House and 2-Person Duplex to a 10-Unit Multi-Family Residential Apartment Building.

This information is being provided to support our proposal to adaptively reuse this structure for residential apartments. Conversion takes place within the existing building footprint and two inclusionary housing units will be provided. The apartment mix includes one 3-bedroom unit, seven 1-bedroom units, one studio unit, and one 2-bedroom unit. The 2-bedroom unit located in the basement level is excluded from the scope of this project but is included in the density and parking calculations.

This site is located in the RM District and Neighborhood Parking District. Section 8.1.15 of the City of Burlington Comprehensive Development Ordinance states that the number of parking spaces may be reduced to the extent that the applicant can demonstrate that the proposed development can be adequately served by a more efficient approach that more effectively satisfies the intent of Article 8 and the goals of the municipal development plan to reduce dependence on the single-passenger automobile and amount of impervious surface for parking. The maximum allowable parking waiver reduction is 50%. We propose to provide 10 new parking spaces onsite, equal to a 50% parking waiver for the residences.

The existing site exceeds the allowable coverage allowance of 48% and it is our objective to design this site into compliancy while providing parking that meets the needs of this residence. Please see supporting information below for why we believe our proposal is valid and request for a waiver that can be feasibly granted.

*8.1.15 (a) Calculation of parking spaces required pursuant to Table 8.1-8.1:*

Base requirement for residential use, multi-unit attached dwelling units, studio units or 1-bedroom unit is 2 spaces per unit. Pursuant to this classification 20 parking spaces are required for 10 dwelling units.

*8.1.15 (b) Narrative that outlines how the proposed parking management plan addresses the specific needs of the proposed development, and more effectively satisfies the intent of the Zoning Ordinance Article 8 and the goals of the Municipal Development Plan:*

Our proposal meets the intent of Article 8 of the Zoning Ordinance by ensuring there is adequate parking to serve the use of this project. This project is located on several major bus lines and is walkable distance to downtown and a supermarket district. We propose 1 parking space per unit equal to 10 total.

According to information compiled by the U.S. government Bureau of Transportation, in 2008 Americans owned 137,079,843 passenger cars or a little less than one car for every two people. The majority of the proposed units are 1-bedroom or smaller and these units would rarely

house more than 2 adults, more likely 1 adult based on the size. We have proposed parking facilities that are designed to promote vehicular and pedestrian safety and support reduced congestion in the streets. This plan supports reduced vehicle emissions, usable green space, and a reduction in paved areas leading to less stormwater run-off. This plan outlines public transportation options, community connectivity and encourages alternate modes of travel that will reduce dependence on the single-user automobile.

*8.1.15 (c) Analysis of the anticipated parking demand for the proposed development:*

This Parking Management Plan proposes to reduce onsite parking by 50% for a total of 10 onsite spaces, based on the specific needs and projected demographics of our proposed development. We request that 10 of the 20 required parking spaces be waived supported by the following information:

*8.1.15 (c1) Proposed Number of Employees, Customers, Visitors:*

This residential reuse project will have no employees, clients, shifts or deliveries outside of what is customary for a residential development such as mail, takeout food orders, etc.

*8.1.15 (c2) Anticipated parking demand by time of day/use:*

A survey conducted several years ago at the Champlain Housing Trust revealed that their tenants own .7 cars per unit. CHT's 33 unit building on North Ave has a 33 spot parking lot which is quoted to be very underused.

*8.1.15 (c4) Availability and frequency of public transit service within a distance of 800 feet.*

There are three bus stops within 800 feet of our project. On the southbound side of Shelburne Road CCTA lines 6 and 18 are a distance of 315 feet distance from our building and Line 46 is 430 feet. Across the street (northbound) are CCTA lines 6, 18, and 46 at a distance of 750 feet from the building. The bus stop in front of Price Chopper and Shaws serves 9 different lines is .2 miles from our building (see attached neighborhood connectivity map).

*8.1.15 (c5) Reduction in vehicle ownership in connection with housing occupancy or type:*

Our project includes one small studio apartment (330 sf), seven 1-bedroom apartments ranging in size from 530 to 800 square feet, one 2-bedroom apartment (existing 500 sf), and one 3-bedroom apartment (1420 sf). The size of the units will limit the amount of occupants.

Two units are inclusionary and statistically lower income residents, especially in town on the bus line, tend to own fewer cars.

*8.1.15 (d) Strategies the applicant will use to reduce or manage the demand for parking:*

Walking: The project site is approximately 1.5 miles from Burlington's downtown district and ¼ mile from 2 shopping centers where many shopping needs can be met (groceries, pharmacy, clothing, coffee shop, restaurants).

RECEIVED

AUG 03 2016

DEPARTMENT OF  
PLANNING & ZONING

Biking: The project site is located 1 mile from the Burlington Bike Path and ½ mile from the South Burlington Bike Path. We are providing two free bike storage spaces per occupant, one interior and one exterior.

Carshare: Car-sharing encourages people to drive less. According to statistics noted on the Carshare Vermont website: *"Because car-sharing helps people become less car dependent, it leads to a major dip in vehicle ownership. More than 75% of CarShare Vermont members belong to zero or one-vehicle households"*.

There are three Carshare VT locations within walking distance of the site. The closest vehicle location is at the Switchback Brewery on Flynn Avenue, about ½ mile and 10 minute walk from the site. There are also vehicle locations on Lakeside Avenue (.9 miles) and at South Park on Locust Street (.8 miles). A single user carshare membership will be included in the rental agreement for each dwelling unit.

We trust that the proposed parking will adequately meet the needs of this project. This site is well-connected to public transportation, at walking distance to basic services and one mile to numerous bikepaths and three carshare locations. In addition, residents will have access to a carshare account, and two bike parking spaces at no additional charge (see attached neighborhood connectivity map).

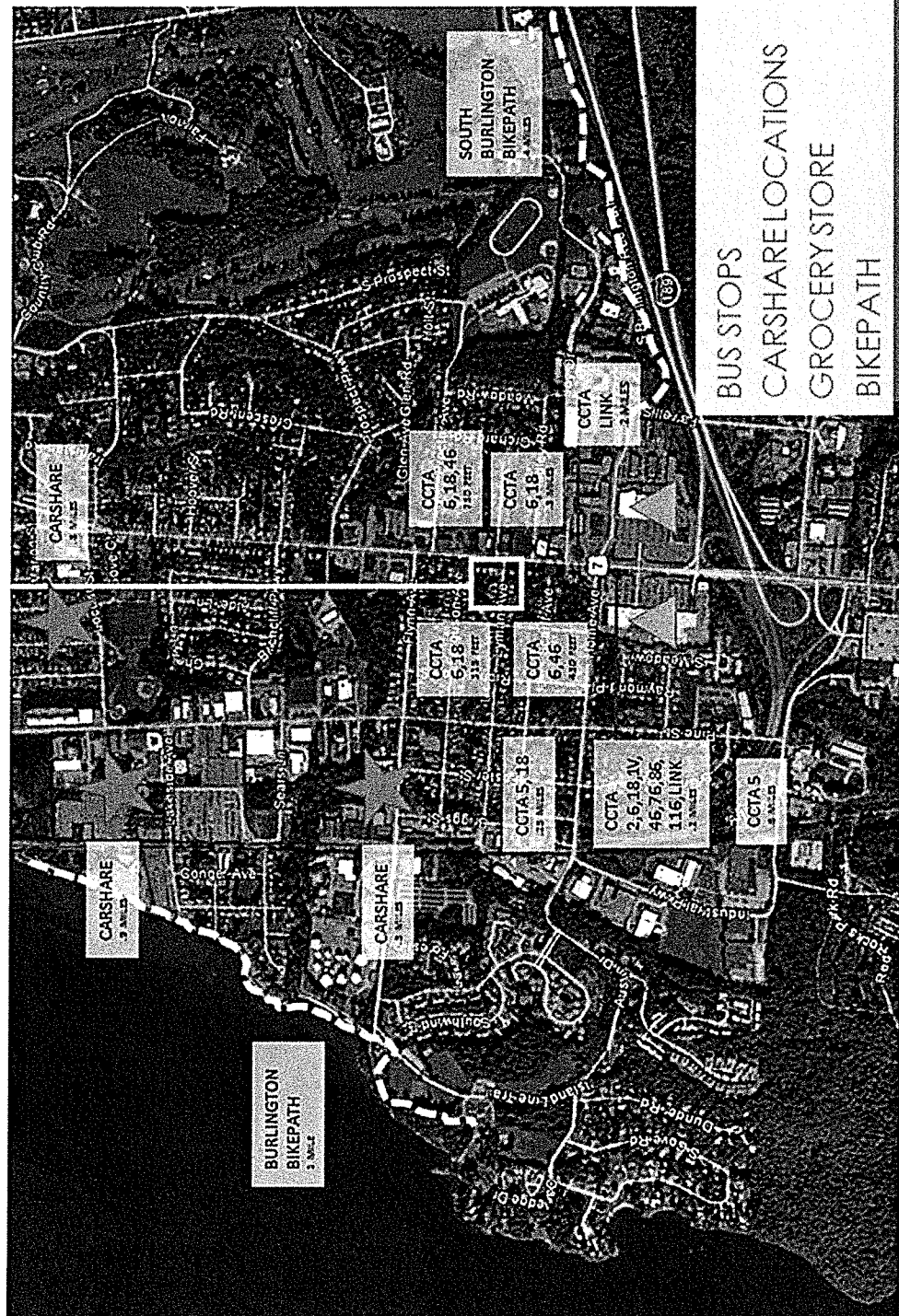
This project is a gateway to the city with its prominent location to south end neighborhoods and proximity to downtown Burlington. We believe that site design should support this mission by maximizing green space and reducing the amount of impervious surface for parking. While parking areas should be designed to meet the technical requirements of vehicle movement they should also consider landscaping, outdoor usable space for residents, streetscape, pedestrian safety, and stormwater run-off. We believe the amount of parking proposed for this project is adequate to support the needs of future residents. By limiting the amount of area required for parking we are able to offer usable outdoor space back to the residents.

As MIT Professor Eran Ben-Joseph points out in his book, *Rethinking A Lot*:

*"A successful parking lot is one that integrates its site conditions and context, takes measures to mitigate its impacts on the environment, and gives consideration to aesthetics as well as the driver-parker experience"*.

AUG 03 2016

BUS STOPS  
CARSHARE LOCATIONS  
GROCERY STORE  
BIKEPATH



PROJECT LOCATION  
435-441 SHELburnE STREET



## Scott Gustin

---

**From:** Jeff Govoni <[REDACTED]>  
**Sent:** Monday, November 19, 2018 8:24 PM  
**To:** Scott Gustin  
**Subject:** Fwd: Development Review Board

Hi Scott,

I'm the next door neighbor of the project at 441 Shelburne St. in Burlington. My house is 178 Lyman Ave. My councilors Chip Mason and Joan Shannon suggested I forward the note I sent them to you in advance of the DRB meeting tomorrow night. I'm out of town visiting family for Thanksgiving and can't join you for the meeting. I'm hopeful you'll take my challenges into consideration as you deliberate whether to renew the permit. I would appreciate if conditions are added to the permit should you decide to renew that ensure as much as possible that my property is repaired, I am reimbursed for the repairs I've had to pay for myself and that steps are taken to ensure further damage to my property does not happen.

Thanks for any help you can give me in this regard and please let me know if you'd like more clarity.

Best,

Sent from my iPhone

Begin forwarded message:

**From:** Chip Mason <[REDACTED]>  
**Date:** November 19, 2018 at 6:43:43 PM EST  
**To:** Jeff Govoni <[REDACTED]>  
**Cc:** Joan Shannon <[REDACTED]>  
**Subject:** Re: Development Review Board

Jeff,

I am sorry to hear of your continuing struggles with your neighbor. Unfortunately I have a conflicting ordinance committee meeting in room 12 I will not be able to make the DRB meeting. Joan and I spoke earlier today and I believe she has a conflict as well.

Llisa should bring to the board's attention all of the facts cited in your email including the delay the cost associated with poor and in proper construction and the difficulty the meter of the abutting landowner. The DRB does not have authority to force them to reimburse you but these are factors that they should take into account when deciding whether to grant the expired permit.

I will continue to monitor compliance with the issues permits but I also recognize that's not the relief you're seeking here.

Sent from my iPhone

On Nov 19, 2018, at 9:38 AM, Jeff Govoni <[REDACTED]> wrote:

Hi Guys,

Lisa, my wife, took a photo of a letter we received from the city this past Saturday regarding a Development Review Board meeting tomorrow. One item of the agenda (which may be hard to make out in the attached photograph) is a "Reapplication for an expired zoning permit." at the property adjacent to me on the corner of Lyman Ave and Shelburne Road. I'm out of town (hence the need to send me a photo of the letter) but Lisa is hoping to attend and I'm wondering if one or both of you can support us by also being in attendance. I appreciate this is short notice and it's Thanksgiving so any consideration you can give this would be appreciated. It may help you to know that in the past few months and weeks construction has continued at this site apparently without a permit. More than that Mitchell Richardson, the proper owner, damaged a new custom-designed fence of ours and refused to pay for repairs despite admitting his crew did the damage. He (or a member of his crew) has also excavated earth over my property line (again, something he acknowledges) and he has refused to repair that damage only going as far as saying it will be repaired at some point.

Guys, I am at my end with this. The project has been dragging on (first as a sizable repair project and now as an ambitious change of use project) for at least five years though my memory is fuzzy and it may well be closer to seven years. In addition to damaging my property Mitchell has been extremely uncommunicative, hostile and has intentionally blocked workers from rebuilding my fence and doing a project in my back yard despite efforts on my part to involve Mitchell, a maneuver that cost me thousands of dollars in addition to the \$1,470 it cost me to repair my brand new fence. I have hired Jeff Wick as my lawyer but it seems clear it will require me to elevate this at a cost to me that I'm not comfortable paying. My question is when does the city step up and do something about this. I feel voiceless and under siege.

Thanks for listening.

Best,



*"Your visions will become clear only  
when you can look into your own heart.  
Who looks outside dreams; who looks  
inside awakes." — Carl Jung*

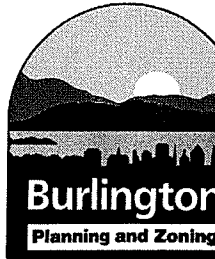
----- Forwarded message -----

From: **Jeff Govoni** <[jeffgovoni@gmail.com](mailto:jeffgovoni@gmail.com)>

## Department of Planning and Zoning

149 Church Street  
Burlington, VT 05401  
Telephone: (802) 865-7188  
(802) 865-7195 (FAX)  
(802) 865-7142 (TTY)

*David White, FAICP, Director*  
*Meagan Tuttle, AICP, Comprehensive Planner*  
*Jay Appleton, GIS Manager*  
*Scott Gustin, AICP, CFM, Principal Planner*  
*Mary O'Neil, AICP, Principal Planner*  
*Ryan Morrison, Associate Planner*  
*Layne Darfler, Planning Technician*  
*Shaleigh Draper, Zoning Clerk*



**TO:** Development Review Board  
**FROM:** Scott Gustin  
**DATE:** December 18, 2018  
**RE:** 19-0436AP; 15-17 Weston Street

---

The appellants have requested deferral of the public hearing for this appeal. Staff supports a single deferral to the Development Review Board's next available meeting on February 5, 2019.

BURLINGTON DEVELOPMENT REVIEW BOARD

In Re: Appeal of Philip Irwin Aaron  
#19-0436AP  
15-17 Weston Street, Burlington, VT 05401

MOTION TO CONTINUE

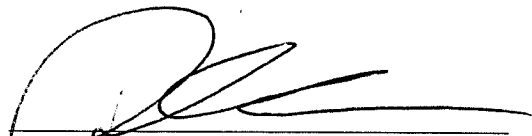
Now Comes Appellant Philip Irwin Aaron and moves for a continuance of the hearing in the above matter which is scheduled for December 18, 2018.

In support of his Motion, Appellant states as follows:

1. Prior to receipt of the notice scheduling the hearing, my wife, who is 79 years of age, was scheduled for an appointment with her doctor in West Palm Beach, Florida on December 20, 2018 to monitor and evaluate her post operative surgery to repair a broken femur and to replace her hip.
2. My wife and I had previously obtained non-refundable airline tickets to fly on December 15, 2018 to West Palm Beach, Florida in order to assure she can go to her appointment with her surgeon.
3. In addition, our daughter, who lives alone with her children, will be having reconstructive surgery in the first week of January, 2019 as a result of a double mastectomy, and she will need my wife and I to care for her and her 2 minor children (ages 9 and 12) during her recovery period which is expected to last through the middle of February, 2019.
4. I will be available after the two above commitments to travel to Vermont from my home in New York City to Burlington, Vermont for my hearing.

Dated 12/5, 2018.

**RECEIVED**  
DEC 11 2018

  
Philip Irwin Aaron



# CIVIL ENGINEERING ASSOCIATES, INC.

10 Mansfield View Lane  
South Burlington, VT 05403

Phone: 802-864-2323  
Fax: 802-864-2271  
Email: dmarshall@cea-vt.com

December 12, 2018

Mr. Scott Gustin, Principal Planner for Development Review  
City of Burlington  
Dept. of Planning and Zoning  
149 Church Street, City Hall  
Burlington, Vermont 05401-8415

**Re: 65 Oakledge Drive, Burlington Vermont  
Zoning Permit Application**

Dear Mr. Gustin,

As you are aware, we met with the Conservation Board on Monday December 3<sup>rd</sup> to review proposed redevelopment of the 65 Oakledge Drive property with a new single family home.

After much discussion covering issues of stormwater management, tree removal and retention, supplemental landscaping, and rock removal methodologies, among others, the Board minutes reflect that

A MOTION was made by DM (Don Meals) and SECONDED by JS (Jeff Severson): (reflects discussion below)

Approve subject to the following conditions:

1. Conduct a phase 1 environmental site assessment for pollutants in and under the soil.
2. Conduct a radon survey in neighboring dwellings pre- and post-blasting.
3. Assess potential blast influence on terrestrial and aquatic wildlife.

We offer the following update on the progress made to address each of these items:

- 1. Conduct a phase 1 environmental site assessment for pollutants in and under the soil.** The discussion for the need for this type of study was driven by the use of controlled blasting as a means of removing the rock for the basement for the house and whether there were any pollutants on site that could migrate toward the lake through new fissures in the rock.

The applicant retained KAS Environmental Science and Engineering, an environmental firm specializing in soil and groundwater pollution investigations and mitigation to complete the Phase I Environmental Site Assessment.

Based on its review of the historical uses and land management practices, KAS found that there is no indication that there is a presence of contaminated soils or groundwater. The report makes reference to the fact that the site was first developed about 30 years ago and that the fuel oil tank was located above ground in the garage where any leaks could be readily observable and readily mitigated. The fuel oil system was taken out of service two years ago in favor of natural gas service.

Lacking the presence of any identifiable likelihood of contaminants being on the property, the chance of the lake being impacted by migrating groundwater through potentially new fissures in the bedrock is correspondingly low or non-existent.

2. **Conduct a radon survey in neighboring dwellings pre- and post-blasting.** The applicant has contacted Maine Drilling & Blasting, who is the company with the most experience in New England in handling rock removal in constricted environments, and they have indicated that they will provide pre-blast and post-blast radon testing at each of the homes located within 400 feet of the site in support of demonstrating that the proposed blasting program will create minimal effects on the nearby properties.

The applicant will accept this as a condition of approval that radon testing will be completed on those cooperating homes located within 400 feet of the house blasting limits before and after completion of the proposed blasting work for the rock removal.

3. **Assess potential blast influence on terrestrial and aquatic wildlife.** In conjunction with representatives from Maine Drilling & Blasting, we have conducted a white paper search of past studies where the impacts of blasting on wildlife was undertaken.

Aquatic Wildlife - The most populous studies were those where underwater blasting was conducted and what the associated shock wave impacts on marine life was. These studies did identify that a safe level of underwater energy transfer



was managed through limiting the size of the detonation charge, time delays between detonations and the use of properly sized stemming material. Because the proposed rock removal techniques will be conducted on land, and not in the water, the ability to meet this standard is reasonably achievable, especially when one considers that:

1. The particle velocity (an expression of the transfer of energy through the ground) will need to be limited to less than 2.0 inches per second to comply with the DPW standards and perhaps less to address the presence of nearby structures; and
2. The fact that this energy is often quickly dissipated over distance.

Specifically, a 2 pound charge detonated 75 feet from the edge of the water (ordinary high water in the spring (at the closest point of the proposed house) will create 2.8 PSI of induced stress in the water. This is equivalent to a fish swimming deeper in the lake an additional 6.4 feet.

The guidelines set forth by the Fisheries and Oceans Canada (DFO) and referenced as the Canadian Guidelines, set forth the requirement that fish shall not be exposed to "...an instantaneous pressure change (i.e., overpressure) greater than 100 kPa (14.5 psi) in the swim bladder of a fish." The equation used to determine the required setback of the onshore (in rock) blast to the fish to achieve this standard is outlined in the following formula where:

the minimum setback distance (SD) from the fish is,  
 $SD = 5.03 (W^{0.5})$ , where W is the weight of the detonation in Kg

Using the same 2 pound (0.75 Kg) detonation from the above example, the required setback to the water's edge is 4.3 m (14 feet).

Using the existing 75-foot (22.9 m) setback of the proposed house corner to the inward reaching portion of the lake immediately to the north, the maximum size of the detonation charge at that location would be 20.7 kg (45 pounds).

An acceptable condition of approval would be to limit the instantaneous pressure from a detonation charge to less than 14.5 psi.

Terrestrial Wildlife - The impacts on terrestrial animals is less well studied. Those that were revealed focused on quarry blasting and their long-term effects on populations as opposed to the estimated two-week period in which drilling and blasting is proposed at this site. The long-term effects identified the displacement of animals and disruptions in their breeding activities.

For short term effects, the studies identified hearing loss as the primary concern. It is our experience that uncontrolled blasting can have potential impacts on both animal and human ears. To mitigate this, all blast holes are filled with 3/8" crushed stone (stemming) and covered with blasting matts or native soils to preclude not only fly rock from occurring but also muzzling of the blast sound.

There are times at rock quarries (where blasting matts are not often used) where a blast hole can "rifle". This is where the blast energy is sent back up through the drill hole, discharging the stemming and noise to the atmosphere. This effect can be made worse when there is low cloud cover where the blast noise is reflected off of the clouds. This scenario is not applicable to this project as suitable blasting matt protections will be used to control fly rock and the blast sizes will be much smaller than those used in mines where large volumes of rock are displaced with each blast sequence.

In this controlled environment, the sound characteristics are more like a muffled rumble than a sharp clap that otherwise has a much higher probability of impacting the auditory senses. As such, we do not envision that there will be undue adverse impacts of the terrestrial or aquatic wildlife in the area.

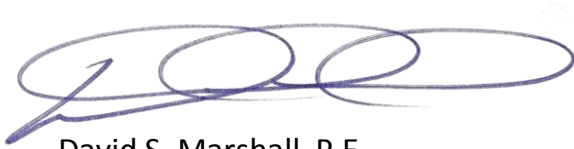
As part of the presentation to the Conservation Board, the applicant indicated that it would implement the requirements set forth in the Drilling and Blasting Procedures authored by the City of Burlington, Department of Public Works. This document identifies the notification requirements, pre-blast surveys of nearby properties, the filing of a blasting plan with DPW and the Planning & Zoning Office, third party monitoring, safety measures and blast energy management.

Mr. Scott Gustin  
Page 5 of 5  
December 12, 2018

Please find attached is a copy of the program developed by DPW and the applicant is willing to accept as a condition of approval the implementation of the requirements therein set forth.

This completes our summary of the applicant's response to the action items outlined by the Conservation Board. If you should have any questions, please feel free to contact me at 864-2323 x310.

Respectfully,

A handwritten signature in blue ink, consisting of several loops and a long horizontal stroke, representing David S. Marshall, P.E.

David S. Marshall, P.E.  
Project Engineer

Encl: KAS Report  
DPW Drilling & Blasting Procedures  
Blasting Near Bodies of Water

CC: (w/ enclosures) J. McBride; CEA File 17173.00



589 Avenue D, Suite 10  
PO Box 787  
Williston, VT 05495

[www.kas-consulting.com](http://www.kas-consulting.com)

802.383.0486 p

802.383.0490 f

December 11, 2018

Mr. David Marshall, P.E.  
Civil Engineering Associates, Inc.  
10 Mansfield View Lane  
South Burlington, VT 05403

RE: Phase I Environmental Site Assessment – 65 Oakledge Drive, Burlington  
Vermont

Dear Mr. Marshall:

KAS, Inc. (KAS) is pleased to present the attached Phase I Environmental Site Assessment (ESA) report for the above referenced facility. The ESA was conducted in compliance with ASTM E 1527-13. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the property.

A sufficient amount of historical information has been gathered to ascertain the presence or absence of RECs on the property. A Phase II ESA is not recommended for the property.

Thank you for this opportunity to be of service. Please call me should you have questions.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Roberts", written over the printed name.

Jeremy Roberts, P.G.  
Principal / Environmental Program Manager

Enc/ cc: KAS #512180510

---

**65 Oakledge Drive  
Burlington, Vermont 05401**

KAS #512180510

---

**PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT**

December 11, 2018

---

*Prepared for:*

*Civil Engineering Associates, Inc.  
10 Mansfield View Lane  
South Burlington, VT 05403*



589 Avenue D, Suite 10  
PO Box 787  
Williston, VT 05495

[www.kas-consulting.com](http://www.kas-consulting.com)

802.383.0486 p  
802.383.0490 f



## TABLE OF CONTENTS

|             |                                                                           |          |
|-------------|---------------------------------------------------------------------------|----------|
| <b>1.0</b>  | <b>EXECUTIVE SUMMARY .....</b>                                            | <b>1</b> |
| <b>2.0</b>  | <b>INTRODUCTION.....</b>                                                  | <b>1</b> |
| 2.1.        | PURPOSE.....                                                              | 1        |
| 2.2.        | DETAILED SCOPE-OF-SERVICES .....                                          | 1        |
| <b>3.0</b>  | <b>SITE DESCRIPTION.....</b>                                              | <b>1</b> |
| 3.1.        | LOCATION AND LEGAL DESCRIPTION.....                                       | 1        |
| 3.2.        | SITE AND VICINITY GENERAL CHARACTERISTICS.....                            | 1        |
| 3.3.        | CURRENT USE OF THE PROPERTY .....                                         | 1        |
| 3.4.        | DESCRIPTIONS OF ON-SITE STRUCTURES, ROADS AND OTHER IMPROVEMENTS .....    | 1        |
| 3.5.        | CURRENT USES OF ADJOINING PROPERTIES .....                                | 1        |
| <b>4.0</b>  | <b>USER SUPPLIED INFORMATION.....</b>                                     | <b>1</b> |
| 4.1.        | TITLE RECORDS .....                                                       | 1        |
| 4.2.        | ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS.....                  | 1        |
| 4.3.        | SPECIALIZED KNOWLEDGE.....                                                | 1        |
| 4.4.        | COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION .....              | 1        |
| 4.5.        | VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES.....                         | 1        |
| 4.6.        | OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION .....                   | 1        |
| 4.7.        | REASONS FOR PERFORMING PHASE I.....                                       | 1        |
| 4.8.        | OTHER USER SUPPLIED INFORMATION AND DOCUMENTATION.....                    | 1        |
| <b>5.0</b>  | <b>RECORDS REVIEW .....</b>                                               | <b>1</b> |
| 5.1.        | STANDARD ENVIRONMENTAL RECORD SOURCES .....                               | 1        |
| 5.2.        | ADDITIONAL ENVIRONMENTAL RECORD SOURCES .....                             | 1        |
| 5.3.        | PHYSICAL SETTING SOURCES .....                                            | 1        |
| 5.4.        | HISTORICAL USE INFORMATION ON THE PROPERTY AND ADJOINING PROPERTIES ..... | 1        |
| <b>6.0</b>  | <b>SITE RECONNAISSANCE .....</b>                                          | <b>1</b> |
| 6.1.        | METHODOLOGY AND LIMITING CONDITIONS .....                                 | 1        |
| 6.2.        | GENERAL SITE SETTING.....                                                 | 1        |
| 6.3.        | INTERIOR AND EXTERIOR OBSERVATIONS.....                                   | 1        |
| 6.4.        | INTERIOR OBSERVATIONS.....                                                | 1        |
| 6.5.        | EXTERIOR OBSERVATIONS .....                                               | 1        |
| <b>7.0</b>  | <b>INTERVIEWS.....</b>                                                    | <b>1</b> |
| 7.1         | INTERVIEW WITH PROPERTY OWNER .....                                       | 1        |
| 7.2.        | INTERVIEW WITH PROPERTY OCCUPANTS .....                                   | 1        |
| 7.3.        | USER INTERVIEW.....                                                       | 1        |
| 7.4.        | INTERVIEW WITH LOCAL GOVERNMENT OFFICIALS .....                           | 1        |
| 7.5.        | INTERVIEW WITH OTHERS .....                                               | 1        |
| <b>8.0</b>  | <b>FINDINGS.....</b>                                                      | <b>1</b> |
| 8.1         | NON-ASTM SCOPE ITEMS .....                                                | 1        |
| <b>9.0</b>  | <b>OPINION.....</b>                                                       | <b>1</b> |
| <b>10.0</b> | <b>CONCLUSIONS .....</b>                                                  | <b>1</b> |
| <b>11.0</b> | <b>LIMITING CONDITIONS / DEVIATIONS .....</b>                             | <b>1</b> |
| 11.1.       | LIMITING CONDITIONS/DEVIATIONS/DATA GAPS.....                             | 1        |
| 11.2.       | SIGNIFICANT ASSUMPTIONS.....                                              | 1        |
| 11.3.       | LIMITATIONS AND EXCLUSIONS .....                                          | 1        |



|             |                                                            |           |
|-------------|------------------------------------------------------------|-----------|
| 11.4.       | SPECIAL CONTRACTUAL CONDITIONS.....                        | 1         |
| 11.5.       | USER RELIANCE .....                                        | 1         |
| <b>12.0</b> | <b>ADDITIONAL SERVICES .....</b>                           | <b>1</b>  |
| <b>13.0</b> | <b>REFERENCES.....</b>                                     | <b>15</b> |
| <b>14.0</b> | <b>SIGNATURES OF ENVIRONMENTAL PROFESSIONALS .....</b>     | <b>16</b> |
| <b>15.0</b> | <b>QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS .....</b> | <b>16</b> |

## **Appendices**

- A. Maps & Drawings
  - 1. Site Location Map
  - 2. Site Plan
  - 3. Tax Map
- B. Historical Research Documentation
  - 1. Sanborn Maps No Coverage Letter
  - 2. Historical Aerial Maps
  - 3. Historical Topographic Maps
- C. Regulatory Records Documentation
- D. Site Reconnaissance Checklist
- E. Site Photographs
- F. Interview Documentation
- G. Qualifications of Environmental Professionals





## **1.0 EXECUTIVE SUMMARY**

KAS, Inc. of Williston, Vermont (KAS) conducted a Phase I Environmental Site Assessment (ESA) of land and premises at 65 Oakledge Drive in Burlington, Chittenden County, Vermont (property; see Appendix A, Site Location Map, Site Plan and Tax Map). The ESA was conducted pursuant to the American Society of Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13). This Phase I ESA was performed and overseen by environmental professionals as defined by ASTM E 1527-13 and is believed to accurately represent the environmental condition of the property as of the date of this report.

The property consists of one parcel containing approximately 1.7 acres of land that was formerly occupied by a residence. No property uses, other than residential, are known to have occurred at or near the property. The former residence located on the property was demolished in 2018 and at the time of demolition the building was heated via natural gas. It was reported that fuel oil was used to heat the residence prior to the natural gas service and storage tanks were present in the garage building. No evidence of buried fuel oil underground tanks or piping was found during building demolition. It is presumed the former fuel oil aboveground tanks were removed prior to building demolition and no spills or releases are known to have occurred. The past use of fuel oil for heating purposes at the property is not considered to be a recognized environmental condition (REC) based on the information gathered during this Phase I ESA.

Surrounding properties with documented environmental impacts do not appear to present environmental risk based on their distance, location and/or environmental status.

KAS has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 at 65 Oakledge Drive, Burlington, and Chittenden County, Vermont. Any exceptions to, or deletions from, this practice are described in Section 11.0 of this report. This assessment has revealed no evidence of the following recognized environmental condition in connection with the property.

A sufficient amount of historical information has been gathered to ascertain the presence or absence of RECs on the property. No additional investigations are deemed necessary to ascertain the presence or absence of RECs.



## **2.0 INTRODUCTION**

KAS conducted a Phase I Environmental Site Assessment (ESA) of land and premises at 65 Oakledge Drive in Burlington, Chittenden County, Vermont (property; see Appendix A, Site Location Map<sup>1</sup>, Site Plan<sup>2</sup>, and Tax Map<sup>3</sup>). The ESA was conducted pursuant to the American Society of Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13). This assessment was conducted for Civil Engineering Associates, Inc. (client), the entity receiving liability protections under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). The owner of the property as of the date of this report is 65 Oakledge Trust.

### **2.1. Purpose**

The purpose of this ESA is to identify recognized environmental conditions (RECs), historical RECs, controlled RECs and de minimis conditions in association with the property as defined and described in the ASTM standard.

### **2.2. Detailed Scope-of-Services**

KAS was engaged by client to conduct a Phase I ESA as defined in ASTM E 1527-13. The Phase I ESA work scope included the following elements:

- A general description of the site and vicinity, current property and adjoining property uses, and description of improvements.
- An evaluation of user supplied information including land records, liens, limitations, specialized knowledge, and valuation information.
- A review of practically reviewable regulatory and historic records in connection with the property.
- A site reconnaissance including general site setting, interior and exterior observations.
- Interviews with owner, site manager, occupants, local government officials and others as available.
- Presentation of Findings, Opinion, Conclusions, Deviations and the results of any out of scope contract obligations between client and KAS.

Unless otherwise stated in Section 12.0 of this document, no invasive environmental testing was conducted, and no assessment or testing of asbestos, lead paint, radon or other structural environmental hazards was conducted. If any of these tasks were contracted between KAS and client, the methodology, limitations and results of such tasks may be presented in Section 12.0 of this document.

---

<sup>1</sup> USGS, 1987

<sup>2</sup> ANR Atlas

<sup>3</sup> City of Burlington

### **3.0 SITE DESCRIPTION**

#### **3.1. Location and Legal Description**

The property is located south of Oakledge Park along Lake Champlain in the City of Burlington, Vermont. The property consists of one parcel which contains a total of approximately 1.7 acres and is located in a waterfront residential – low density area according to the City of Burlington.<sup>4</sup> The approximate boundary for the Phase I assessment is shown on the Tax Map in Appendix A. The property coordinates are - 73:13:49.3 (deg/min/sec) west longitude and 44:27:11.9 north latitude.<sup>5</sup> A description of the property's land use history is included in Section 5.4 of this report. The property is improved with one building which is described in Section 3.4 of this report.

The property consists of one parcel containing 1.7 acres, more or less, and being all lands and premises conveyed to Roger J. and Suzanne by Quit Claim Deed of Stephen P. McGowen, trustee of the 65 Oakledge Trust, dated February 22, 2018 and recorded in Book 1382 at Page 325 and conveyed to Robert H. Rushford, trustee of the 65 Oakledge Trust by Warranty Deed of John M. and Florence D. Wisener, dated December 22, 2017 and recorded in Book 1376 at Page 325.<sup>6</sup>

#### **3.2. Site and Vicinity General Characteristics**

The property consists of an irregularly shaped lot consisting of approximately 1.7 acres located in a designated low density residential zoning area in the City of Burlington. The property contains a gradual slope to the north towards Lake Champlain. A boat house is located along the northwest portion of the property. An asphalt driveway and parking area is located along the southern and eastern sides of the property. The remaining areas of the property consist of lawn or wooded areas. Surficial groundwater beneath the property is likely less than 10 feet below grade and the groundwater beneath the property likely flows toward the north based on presence of Lake Champlain. The depth to groundwater and groundwater flow direction were not confirmed as part of this Phase I ESA.

#### **3.3. Current Use of the Property**

The property is currently not in use. It was previously used as a residence. A chain link fence resides around the property. Three zoning permits and one building permit were noted on the fence near the property entrance. The zoning permits were for the demolition of the residence, the construction of a new single family residence and lot line adjustments. The building permit is dated May 2018.

---

<sup>4</sup> City of Burlington Zoning Map

<sup>5</sup> Envirosearch

<sup>6</sup> City of Burlington

### **3.4. Descriptions of On-Site Structures, Roads and Other Improvements**

One boat house is present on the property. The building is in good condition and did not appear to be heated. A paved driveway is present along the eastern and southern sides of the property. No other buildings were observed on the property.

The property appeared to be served by underground electric, natural gas and telecommunication services. No utility poles were observed to be present on the property. No other utilities were noted for the property.

### **3.5. Current Uses of Adjoining Properties**

Land uses adjacent to the property as of the date of this assessment were as follows.

- North: Lake Champlain
- South: Residential Lots
- East: Residential Lots
- West: Residential Lots

## **4.0 USER SUPPLIED INFORMATION**

### **4.1. Title Records**

The User did not provide title records. KAS reviewed chain of title information for the property at the Burlington City Clerk's Office on December 5, 2018. Records found during the review are provided in Section 5.4.2.

### **4.2. Environmental Liens or Activity and Use Limitations**

No environmental liens were discovered during review of land records. Use limitations, if any, are provided in Table 1 of Section 5.4.2. User did not provide positive information of the existence of environmental liens or use limitations in connection with the property.

### **4.3. Specialized Knowledge**

User did not provide any specialized knowledge regarding the property.

### **4.4. Commonly Known or Reasonably Ascertainable Information**

User did not provide any commonly known or reasonable ascertainable information regarding the property.

### **4.5. Valuation Reduction for Environmental Issues**

User did not indicate any valuation reduction for environmental issues.

#### **4.6. Owner, Property Manager, and Occupant Information**

Land records show the property owner as 65 Oakledge Trust. The property is managed and maintained by the owner. No occupants currently reside at the property.

#### **4.7. Reasons for Performing Phase I**

User provided the following reason(s) for conducting this Phase I ESA: The City of Burlington Conservation Board is required to review all projects located within the Lake setback area. In order to determine its level of comfort with the proposed blasting plan for the basement of the proposed house, the City wants to understand whether there are any sources of contamination that could migrate through rock fractures to the lake.

#### **4.8. Other User Supplied Information and Documentation**

User did not supply any additional information or documentation except for a Site Plan dated April 24, 2018 for the property (Appendix A).

### **5.0 RECORDS REVIEW**

#### **5.1. Standard Environmental Record Sources**

##### *5.1.1 Regulatory Database Search*

KAS contracted with Envirosearch Corporation (Envirosearch) to perform a detailed review of state and federal regulatory records to evaluate the environmental risk associated with the property. The search was conducted using All Appropriate Inquiry standards which comply with ASTM E-1527-13 search criteria. A full copy of the Government Records Report is included in Appendix C. A summary of the pertinent data contained in the report is presented below.

##### Property

The property is not included in the government records report.

##### Immediately Adjacent Properties

No immediately adjacent properties were included in the government records report.

##### Other Properties

Several properties are listed in the Envirosearch governmental records report within the specified ASTM search radius. The closest of these listings is the Montstream Residence located at 20 South Cove Road which is located over 0.13 miles to the south of the property. This property is listed as a historical spills and underground storage tank (UST) site due to soil contamination discovered at this property in May 2015 during the removal of a fuel oil UST. This spill/release was cleaned up during the tank removal efforts and received regulatory closure in July 2015. The other listings are located to the south and east at least 0.246 miles away from the

property. The information presented for these listings in the government records report was reviewed and none of these properties are believed to present a tangible environmental risk to the subject property based on their distance and location to the subject property and their regulatory status.

Several unmapped sites are included in the government records report; however, all of the listings are on streets or roads several miles away from the property and do not appear to present environmental risk to the property.

## **5.2. Additional Environmental Record Sources**

KAS reviewed available information concerning any nearby hazardous sites on file with the VTDEC. No nearby properties showed up in the VTDEC databases which were not included in the government records report.<sup>7</sup>

## **5.3. Physical Setting Sources**

### *5.3.1 USGS Topographic Maps*

The most recent available USGS topographic map which shows structures was examined during this assessment.<sup>8</sup> This map shows one structure just south of the property. Several nearby structures are shown similar to that observed in December 2018.

### *5.3.2 State Geological Maps*

Bedrock in the vicinity of the property consists of reddish-brown, pebbly, thin- to thick-bedded sandstone, orangey-gray- and buff-weathering well-bedded dolostone, and reddish-brown-weathering dolomitic quartzite.<sup>9</sup> The overburden deposits in the area of the property are mapped as bedrock exposure.<sup>10</sup>

No Class 2 wetland areas have been identified on the property.<sup>11</sup>

## **5.4. Historical Use Information on the Property and Adjoining Properties**

### *5.4.1 Standard Historical Sources*

#### Aerial Photographs

KAS reviewed sixteen aerial photographs of images that were taken between 1939 and 2016, for the property.<sup>12</sup> The property appears to be first developed in the 1992 aerial photo; however, the earlier photos are not full clear so property development may have occurred prior to 1992. Generally similar observations were noted through the 2016 aerial photograph. The area development in the photos appears to be fairly consistent with observations made at the property in December 2018. A copy of each aerial photo is included in Appendix B.

---

<sup>7</sup> VTDEC Database

<sup>8</sup> USGS 2000

<sup>9</sup> Centennial Geologic Map

<sup>10</sup> Surficial Geologic Map

<sup>11</sup> VTDEC Database

<sup>12</sup> Envirosearch

### Sanborn Fire Insurance Maps

The Sanborn Mapping and Geographic Information Service began producing maps of industrial areas across the USA for fire insurance purposes in the 1860's. These maps detail property use, construction of buildings and related fire risks. The Sanborn archives were searched by Envirosearch and coverage of the property is not available.<sup>13</sup> A copy of the no coverage letter is included in Appendix B.

### City Directories

KAS searched online city directories for the property and its vicinity (Appendix B).<sup>14</sup> A residential listing was noted for the property. No other listings were found.

### USGS Topographic Maps

KAS reviewed ten historical USGS topographic maps during this assessment to confirm the property status.<sup>15</sup> The maps span the years 1906 to 2018. One structure appears to be present to the south of the property on the 1987 map. Several of the topographic maps do not include structures due to the overall housing density and population in Burlington. In general, property development appears to be denser to the northeast, east and south of the property dating back to 1906. Copies of the historical topographic maps are included in Appendix B.

### Municipal Records

KAS reviewed the water supply, wastewater permit and stormwater permit state online databases regarding municipal records for the property. No permits or records were found for the property. The property is indicated to be present in an area serviced by the municipal stormwater system.<sup>16</sup>

#### *5.4.2 Other Historical Sources*

KAS reviewed chain of title information for the property at the Burlington City Clerk's office on December 5, 2018. The property history was ascertained as follows.<sup>17</sup>

---

<sup>13</sup> Envirosearch Sanborn Collection

<sup>14</sup> White Pages

<sup>15</sup> Envirosearch

<sup>16</sup> ANR wastewater and stormwater databases

<sup>17</sup> City of Burlington Land Records





| Property Ownership Summary                           |                                                        |      |      |            |
|------------------------------------------------------|--------------------------------------------------------|------|------|------------|
| Grantor                                              | Grantee                                                | Book | Page | Date       |
| Stephen P. McGowan, Trustee of the 65 Oakledge Trust | Roger J. and Suzanne M. Garrity (Quit Claim Deed)      | 1382 | 325  | 2/22/2018  |
| John M. and Florence D. Wisener (f/ka/ Shaw)         | Robert H. Rushford, Trustee of the 65 Oakledge Trust   | 1376 | 186  | 12/22/2017 |
| Hill/Shaw Associates                                 | John M. and Florence D. Shaw n/k/a Florence D. Wisener | 302  | 195  | 12/29/1983 |
| Stephen R. Crampton                                  | Hill/Shaw Associates                                   | 302  | 186  | 10/20/1983 |
| Hill/Shaw Associates                                 | Stephen R. Crampton                                    | NR   | NR   | NR         |
| Marion C. Hill                                       | Ralph N. Hill                                          | 258  | 355  | NR         |
| Beach Properties, Inc.                               | Ralph N. Hill                                          | 162  | 41   | 6/22/1961  |

The June 22, 1961 warranty deed states the property shall be restricted to residential use. No environmental liens or activity and use limitations were discovered for the property.

## **6.0 SITE RECONNAISSANCE**

### **6.1. Methodology and Limiting Conditions**

On December 5, 2018 Jeremy Roberts, QEP of KAS conducted a site reconnaissance to inspect the property for indications of environmental risks or hazardous conditions. A completed site inspection checklist is included in Appendix D. Photographs of the property are included in Appendix E.

### **6.2. General Site Setting**

#### *6.2.1 Current Uses*

The property is currently not in use. It was previously used as a residence. One boat house resides on the property.

#### *6.2.2 Past Uses*

Based on visual observations it appeared the property was previously used for residential purposes.

#### *6.2.3 Current and Past Uses of the Adjoining Properties*

Current uses on the adjoining properties at the time of the site reconnaissance were as noted in Section 3.5 of this report. Past uses of the adjoining properties would appear to be similar to current day based on the site inspection.

#### *6.2.4 Current and Past Uses in the Surrounding Area*

The surrounding area uses at the time of the site reconnaissance were as noted in Section 3.2 of this report. Past uses of the surrounding area would likely be similar to what was currently observed. No past uses were evident.

#### *6.2.5 Geologic, Hydrogeologic and Topographic Conditions*

The property has a gradual slope to the north towards Lake Champlain. No wetlands were observed on the property. Several bedrock outcroppings were observed throughout the property. One storm drain was noted on the property near its southern end.

#### *6.2.6 General Description of Structures*

One boat house is present on the property. This building was in good condition and did not appear to be heated. A paved driveway is present along the eastern and southern sides of the property. No other buildings were observed on the property.

#### *6.2.7 Roads*

The property is accessed from the south off of Oakledge Drive.

#### *6.2.8 Potable Water Supply*

No drinking water supply was noted for the property.

#### *6.2.9 Sewage Disposal System*

No private sewage system was observed at the property.

### **6.3. Interior and Exterior Observations**

#### *6.3.1 Current and Past Usage*

See Sections 6.2.1 and 6.2.2. KAS visually inspected all exterior portions of the property and representative interior portion of the building structure.

#### *6.3.2 Hazardous Substances and Petroleum Products and Unidentified Containers*

No hazardous substances or petroleum products were observed.

#### *6.3.3 Storage Tanks*

No storage tanks were observed.

#### *6.3.4 Odors*

No odors were observed.

#### *6.3.5 Pools of Liquid*

None observed on the property.



#### 6.3.6 Drums

No drums were observed.

#### 6.3.7 PCBs

No obvious sources of PCB containing equipment were observed on the property. A pad mounted transformer was noted to be present east of the property. The transformer appeared to be in good condition with no signs of a release.

### 6.4. Interior Observations

#### 6.4.1 Heating and Cooling

No heating source was identified for the boat house building. A natural gas connection was noted near the former residence which was likely the former heating source for that building.

#### 6.4.2 Stains and Corrosion

No stains or corrosion was noted.

#### 6.4.3 Drains and Sumps

No floor drains were observed.

### 6.5 Exterior Observations

#### 6.5.1 Pits, Ponds and Lagoons

None observed on the property.

#### 6.5.2 Stained Soil or Pavement

None observed.

#### 6.5.3 Stressed Vegetation

None observed.

#### 6.5.4 Solid Waste

No solid waste was observed. A recycling container was noted along the driveway.

#### 6.5.5 Drains and Waste Water

One storm drain was noted on the property. No sheens or odors were noted in the drain.

#### 6.5.6 Wells

No monitoring wells were observed on the property.

#### 6.5.7 Septic Systems

None observed.

## **7.0 INTERVIEWS**

### **7.1 Interview with Property Owner Representative**

Mr. Dick Eastman, construction manager for the owner and owner representative of the property, completed a KAS interview questionnaire on December 11, 2018 (Appendix F). Important points raised during this interview included the following.

- The property has always been used for residential purposes to his knowledge.
- An approximate 3,000 square foot residence was demolished earlier this year in order to build a new home. A boat house remains on the property today which was grandfathered into the existing property.
- He is not aware of any underground or aboveground storage tanks being present on the property in the past.
- He is not aware of any spills or releases that have occurred at the property or nearby.

### **7.2. Interview with Property Occupants**

There are currently no occupants at the property.

### **7.3. User Interview**

Mr. David Marshall, Professional Engineer with Civil Engineering Associates, Inc., completed a KAS User Questionnaire (Appendix F) on December 6, 2018. Mr. Marshall indicated he is not aware of any environmental liens or activity and use limitations for the property or of any spills or releases that have occurred on the property. According to Mr. Marshall, the previous residence was heated using natural gas at the time of the building demolition. However, the natural gas service was reportedly hooked up just a few years ago and he was told fuel oil was stored in tanks in the garage building. During the building demolition there was no evidence of buried underground tanks or fuel lines. Mr. Marshall indicated Civil Engineering Associates, Inc. is having the property evaluated for environmental conditions for due diligence to fulfill requirements from the City of Burlington Conservation Board prior to blasting for the new building foundation.

### **7.4. Interview with Local Government Officials**

In order to request information on potential spills and/or hazardous materials incidents associated with the property, KAS contacted the Burlington Fire Department on December 6, 2018 (Appendix F). According to their records, which date back to 2004, the Fire Department has not responded to any fires or environmental incidents at the property.

### **7.5. Interview with Others**

No other interviews were conducted; the past owners could not be found.



## **8.0 FINDINGS**

This assessment has revealed that the property presents no recognized environmental conditions.

### **8.1 Non-ASTM Scope Items**

As required by state and federal regulations, building materials suspect for asbestos must be presumed asbestos-containing materials (ACMs), until sampled and proven otherwise.

The boat house building may have been constructed before 1978. Any painted surfaces should be assumed to contain lead based paint unless tested and proven otherwise or the building is documented to be post-1978 construction.

No obvious visible mold was observed at the time of the inspection.

According to the Envirosearch database report, the average radon test result within the area is 0.9 picocuries per liter (pCi/L) and 1.7 pCi/L, for the basement level and first floor, respectively.<sup>18</sup> The average basement level is below the EPA action limit of 4 pCi/L. Site-specific testing would be required to determine radon levels inside any current or future buildings.

## **9.0 OPINION**

It appears the property was first developed in the mid to late 1900's for residential purposes. No property uses, other than residential, are known to have occurred at or near the property. The former residence located at the property was demolished earlier this year and at the time of demolition the building was reportedly heated via natural gas. It was reported that fuel oil was used to heat the residence prior to the natural gas service and storage tanks were present in the garage building. No evidence of buried underground tanks or piping was found during building demolition. It is presumed the former fuel oil aboveground tanks were removed prior to building demolition and no spills or releases are known to have occurred. The past use of fuel oil for heating purposes at the property is not considered to be a REC based on the information gathered during the Phase I ESA.

Surrounding properties with documented environmental impacts do not appear to present environmental risk based on their distance, location and/or environmental status.

A sufficient amount of historical information has been gathered to ascertain the presence or absence of RECs on the property. No additional investigations are deemed necessary to ascertain the presence or absence of RECs.

---

<sup>18</sup> EDR Radius Report

## **10.0 CONCLUSIONS**

KAS has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 at 65 Oakledge Drive, Burlington, and Chittenden County, Vermont. Any exceptions to, or deletions from, this practice are described in Section 11.0 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

A REC is defined in ASTM E 1527 as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property:

- 1) due to release to the environment;
- 2) under conditions indicative of a release to the environment; or
- 3) under conditions that pose a material threat of a future release to the environment.

## **11.0 LIMITING CONDITIONS / DEVIATIONS / DATA GAPS**

### **11.1. Limiting Conditions/Deviations/Data Gaps**

Noted limiting conditions to the ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-13) included the following:  
None.

Noted deviations to the ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-13) included the following: The land records could not be traced to 1940 or beyond due to a lack of available information. This deviation is not believed to impact the findings of the Phase I ESA due to the longtime documented use of the property and vicinity for residential purposes.

Data gaps were not encountered.

### **11.2. Significant Assumptions**

KAS undertook performance of this Phase I ESA according to the following assumptions:  
None.

### **11.3. Limitations and Exclusions**

KAS has prepared this Phase I ESA report in accord with ASTM E 1527-13 using the best efforts of Environmental Professionals and information available at the time of preparation. This report is intended to convey a point-in-time environmental evaluation of the property, as well as relevant information on past uses. The user of this document must recognize the limitations inherent in conducting a Phase I ESA, as stated in ASTM E 1527-13, which include but are not necessarily limited to:

- This document does not address regulatory compliance issues and KAS makes no assurances relative to the federal, state or local regulatory compliance of the property (ref. Section 1.4).
- Uncertainty Not Eliminated: No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this practice recognizes reasonable limits of time and cost (ref. Section 4.5.1).
- All appropriate inquiry as defined by ASTM E 1527-13 is not an exhaustive assessment of a property (ref. Section 4.5.2).
- A variable level of inquiry may be conducted depending on the specific characteristics and features of the property and the information developed during the course of the assessment (ref. Section 4.5.3).
- An assessment meeting or exceeding the requirements of ASTM E 1527-13 and completed less than 180 days prior to the date of acquisition or intended transaction is presumed to be valid (ref. Section 4.6).
- All appropriate inquiry as defined by ASTM E 1527-13 is not exhaustive and does not require assessment of historic uses more frequently than every five years (ref. Section 8.3.2.1).

#### **11.4. Special Contractual Conditions**

None

#### **11.5. User Reliance**

This report is for the use and benefit of client as defined herein. Affiliates of client, and third parties authorized in writing by KAS and client, may rely upon this report to the extent that client is entitled to do so, provided said parties agree to abide by the limitations and exclusions as stated herein.

### **12.0 ADDITIONAL SERVICES**

None requested.

### **13.0 REFERENCES**

United States Geological Survey (USGS), Topographic Map of Burlington, Vermont, 1987, viewed on line at <http://www.topoquest.com>

City of Burlington Land Records viewed in person at the Burlington City Clerk's office, Burlington, Vermont, in person on December 11, 2018

City of Burlington, Vermont Tax Map obtained on line at <https://www.burlingtonvt.gov/>





Government Records Report for 65 Oakledge Drive, Burlington, Vermont December 5, 2018, Envirosearch Corporation, Westport, CT

Aerial Photograph Report for 65 Oakledge Drive, Burlington, Vermont December 5, 2018, Envirosearch Corporation, Westport, CT

Street Directories for 65 Oakledge Drive, Burlington, VT viewed online at [www.whitepages.com](http://www.whitepages.com)

United States Geological Survey Map of Burlington, Vermont, July 1987, obtained from [www.msrmaps.com](http://www.msrmaps.com)

Historical Topographic Map Report for 65 Oakledge Drive, Burlington, Vermont December 5, 2018, Envirosearch Corporation, Westport, CT

Google Earth Imagery of Burlington, Vermont 2018

Sanborn Fire Insurance Maps No Coverage for 65 Oakledge Drive, Burlington, VT, Envirosearch Corporation, Westport, CT

VANR Natural Resources Atlas, viewed online at <http://anrmaps.vermont.gov/websites/anra/>.

KAS, Inc. Phase I ESA User Interview with Mr. David Marshall, Professional Engineer with Civil Engineering Associates, December 6, 2018

KAS, Inc. Phase I ESA owner representative interview with Mr. Dick Eastman, construction manager and owner representative, December 11, 2018

KAS, Inc. Email correspondence with Ms. Meghan Sweeney of the Burlington Fire Department, December 6, 2018



#### **14.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS**

I hereby certify that this Phase I Environmental Site Assessment report, as presented, is a complete and accurate record of my findings, to the best of my knowledge.

Prepared by:

A handwritten signature in black ink, appearing to read "J. Roberts", is written over a horizontal line.

Jeremy Roberts, Environmental Professional

#### **15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS**

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of this part. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

A handwritten signature in black ink, appearing to read "J. Roberts", is written over a horizontal line.

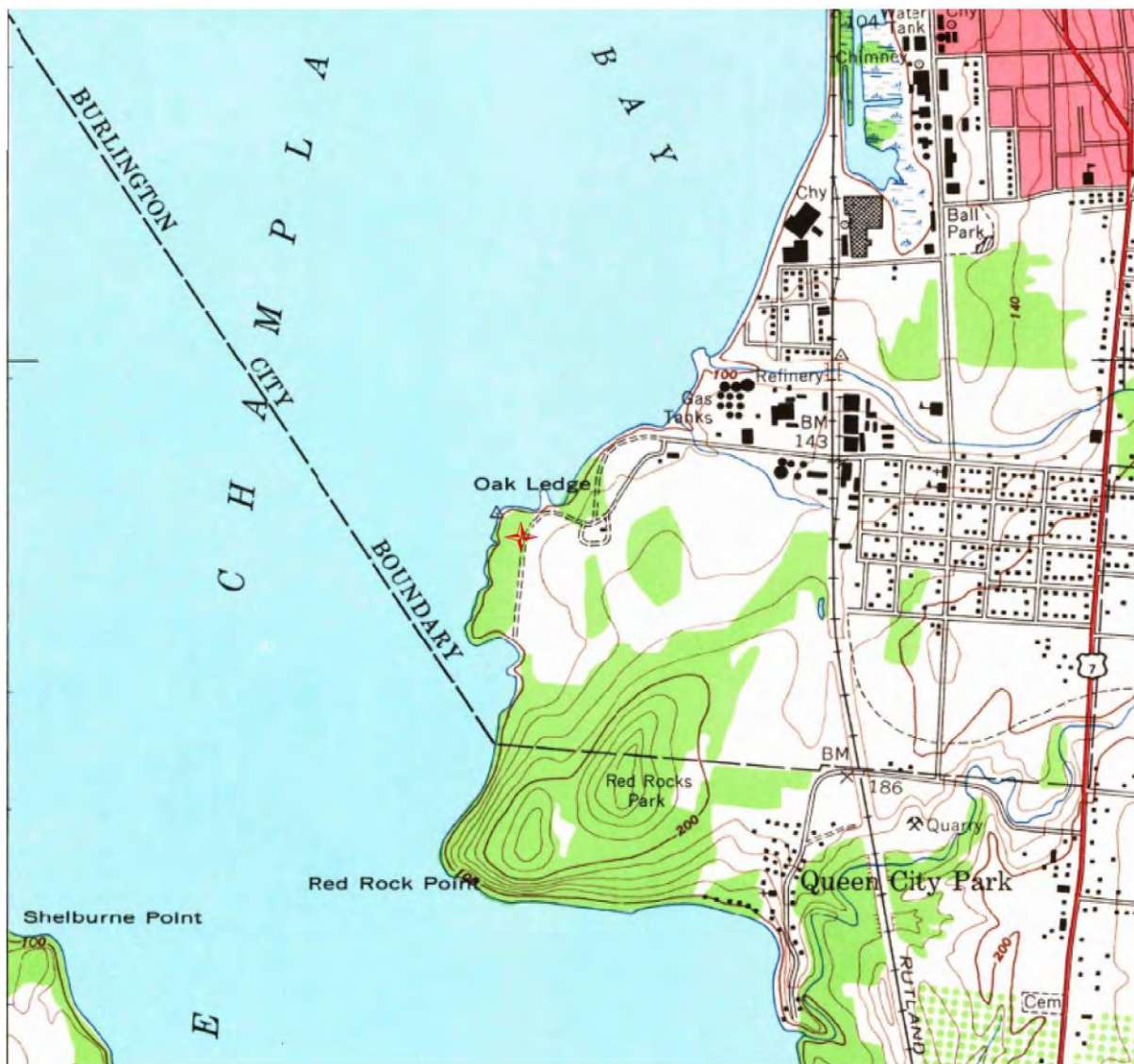
Jeremy Roberts, Environmental Professional



## **APPENDIX A**

### **MAPS & DRAWINGS**

- 1. Site Location Map**
- 2. Site Plan**
- 3. Tax Map**



North

KAS Job Number: 512180510

Source: EnviroSite



## **SITE LOCATION MAP**

**65 Oakledge Drive**  
**Burlington, Vermont**

Site Location Map  
USGS Mapping

|                |              |                 |        |
|----------------|--------------|-----------------|--------|
| Date: 12/11/18 | Drawing No 0 | Scale: 1:48,000 | By: JR |
|----------------|--------------|-----------------|--------|



*BURLINGTON BAY*



|                                                                                     |                             |
|-------------------------------------------------------------------------------------|-----------------------------|
|  | APPROXIMATE PROPERTY LINE   |
|  | SETBACK LINE                |
|  | RIGHT OF WAY/EASEMENT LINE  |
|  | EXISTING CONTOUR            |
|  | EXISTING CHAIN LINK FENCE   |
|  | EXISTING STOCKADE FENCE     |
|  | EXISTING PAVEMENT           |
|  | EXISTING SWALE              |
|  | EXISTING CATCH BASIN        |
|  | EXISTING DECIDUOUS TREE     |
|  | EXISTING CONIFEROUS TREE    |
|  | EDGE OF BRUSH/WOODS         |
|  | IRON ROD/PIPE FOUND         |
|  | CONCRETE MONUMENT FOUND     |
| AB / BG                                                                             | ABOVE GROUND / BELOW GROUND |

**ZONING DISTRICT: WATERFRONT RESIDENTIAL LOW DENISTY**

| CATEGORY            | ZONING REGULATIONS                                           | EXISTING                         |
|---------------------|--------------------------------------------------------------|----------------------------------|
| COVERAGE            |                                                              |                                  |
| TOTAL               | 35%                                                          | 13.5%                            |
| SETBACK             |                                                              |                                  |
| FRONT YARD          | AVG. 2 ADJ. LOTS<br>FROM END OF<br>OAKLEDGE DRIVE            | 200'                             |
| SIDE YARD           | 10% WIDTH OR AVG.<br>2 ADJ. LOTS MAX 20'                     | 20'                              |
| WATERFRONT          | 75' FROM ELEV 100'<br>OR<br>DISTRICT SPECIFIC<br>REGULATIONS | 27' BASED ON<br>AVG. 2 ADJ. LOTS |
| BUILDING HEIGHT     |                                                              |                                  |
| EXISTING<br>PRIMARY | 35                                                           | --                               |

NOTE: THE EXISTING WATERFRONT SETBACKS AT 49 OAKLEDGE DRIVE (21') AND 55 OAKLEDGE DRIVE (32') WERE FIELD MEASURED APRIL 20, 2018 AND THEIR ALIGNMENT AVERAGED TO REDUCE THE WATERFRONT SETBACK REQUIREMENT AT 65 OAKLEDGE DRIVE TO 27' FROM ELEVATION 100' (NGVD29).

## NOTES

1. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY CONFLICTS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL CONTACT DIG SAFE (888-344-7233) PRIOR TO ANY CONSTRUCTION.
2. PROPERTY LINE INFORMATION IS BASED ON A PLAN ENTITLED "PROPERTY LINE ADJUSTMENT LANDS OF J. F. WISENER AND S. & R. GARHRY" PREPARED BY CIVIL ENGINEERING ASSOCIATES, INC DATED NOVEMBER 27, 2017. THIS PLAN IS A SECONDARY SURVEY AND IS NOT INTENDED TO BE USED AS ONE. MONUMENTATION RECOVERED IS CONSISTENT WITH RECORDED DOCUMENTS. AREA CALCULATIONS DETERMINED UTILIZING THE 95.5' CONTOUR (NGVD 29).
3. SITE INFORMATION IS BASED ON A FIELD SURVEY PERFORMED BY CIVIL ENGINEERING ASSOCIATES, INC JULY 2017 AND APRIL 2018. CIVIL ENGINEERING ASSOCIATES, INC SURVEY ORIENTATION IS "GRID NORTH", VERMONT COORDINATE SYSTEM OF 1983 (HORIZONTAL) ESTABLISHED FROM GPS OBSERVATIONS ON SITE.
4. PROJECT BENCHMARK IS LAKE CHAMPLAIN ESTABLISHED FROM THE UNITED STATES GEOLOGICAL SURVEY GAUGING STATION 04294500 LOCATED IN BURLINGTON, VERMONT (DATUM NGVD 29).
5. PARCEL LIES IN THE WATERFRONT RESIDENTIAL LOW DENSITY ZONING DISTRICT AND NATURAL RESOURCES PROTECTION OVERLAY DISTRICT.

SITE ENGINEER:



**CIVIL ENGINEERING ASSOCIATES, INC.**  
10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403  
P: 802-864-2323 FAX: 802-864-2271 web: [www.cea-vt.com](http://www.cea-vt.com)

COPYRIGHT © 2018 - ALL RIGHTS RESERVED

DRAWN

MAD

CHECKED

11 A4

APPROVED: \_\_\_\_\_

11 A 4

CLIENT:

*BIRDSEYE*

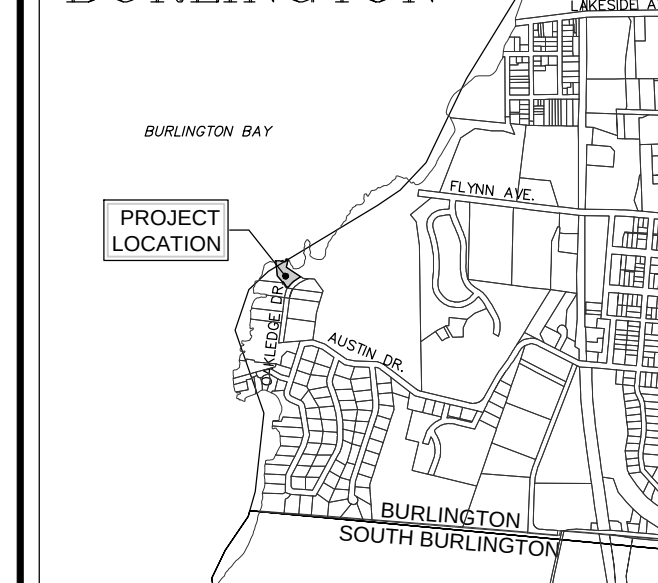
3104 HUNTINGTON ROAD  
RICHMOND, VERMONT 05477

PROJECT:

65 OAKLEDGE

65 OAKLEDGE DRIVE  
BURLINGTON VT 05401

## BURLINGTON

 $1^{\text{a}} = 2000$ 

## LOCATION MAP

[illegible]

**EXISTING  
CONDITIONS SITE  
PLAN**

DATE  
04/24/2018

SCALE  
 $1'' = 20'$

PROJ. NO.  
17173

DRAWING NUMBER

***C1.0***

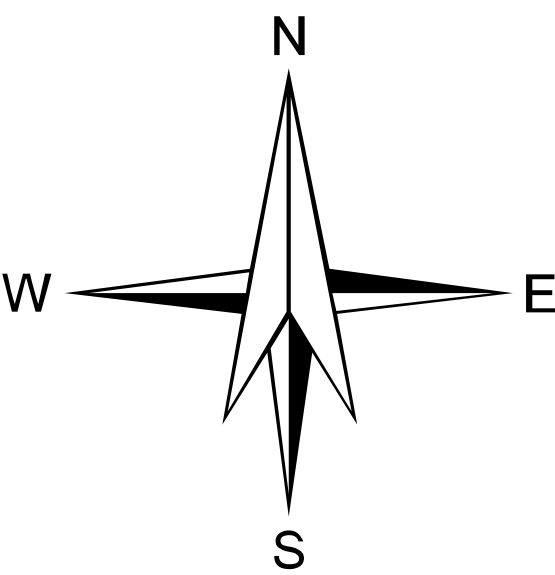


# Tax Parcel Maps

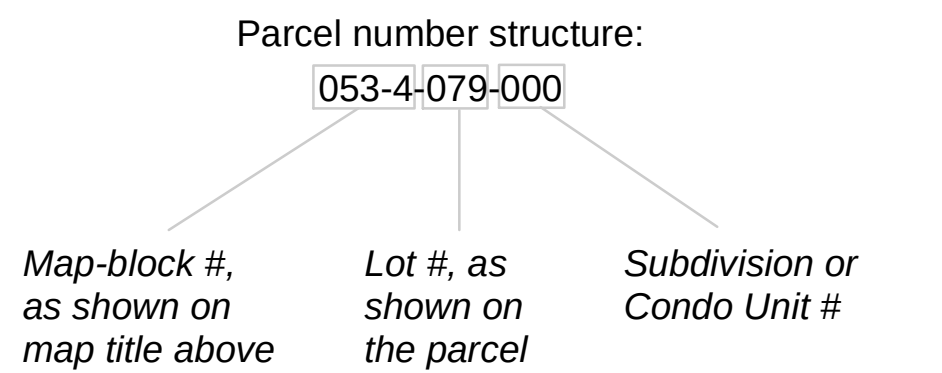
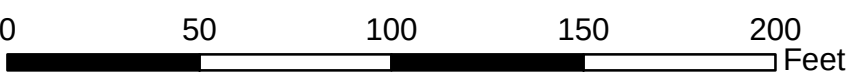
## Revision 2016

City of Burlington, Vermont

MAP 056-2



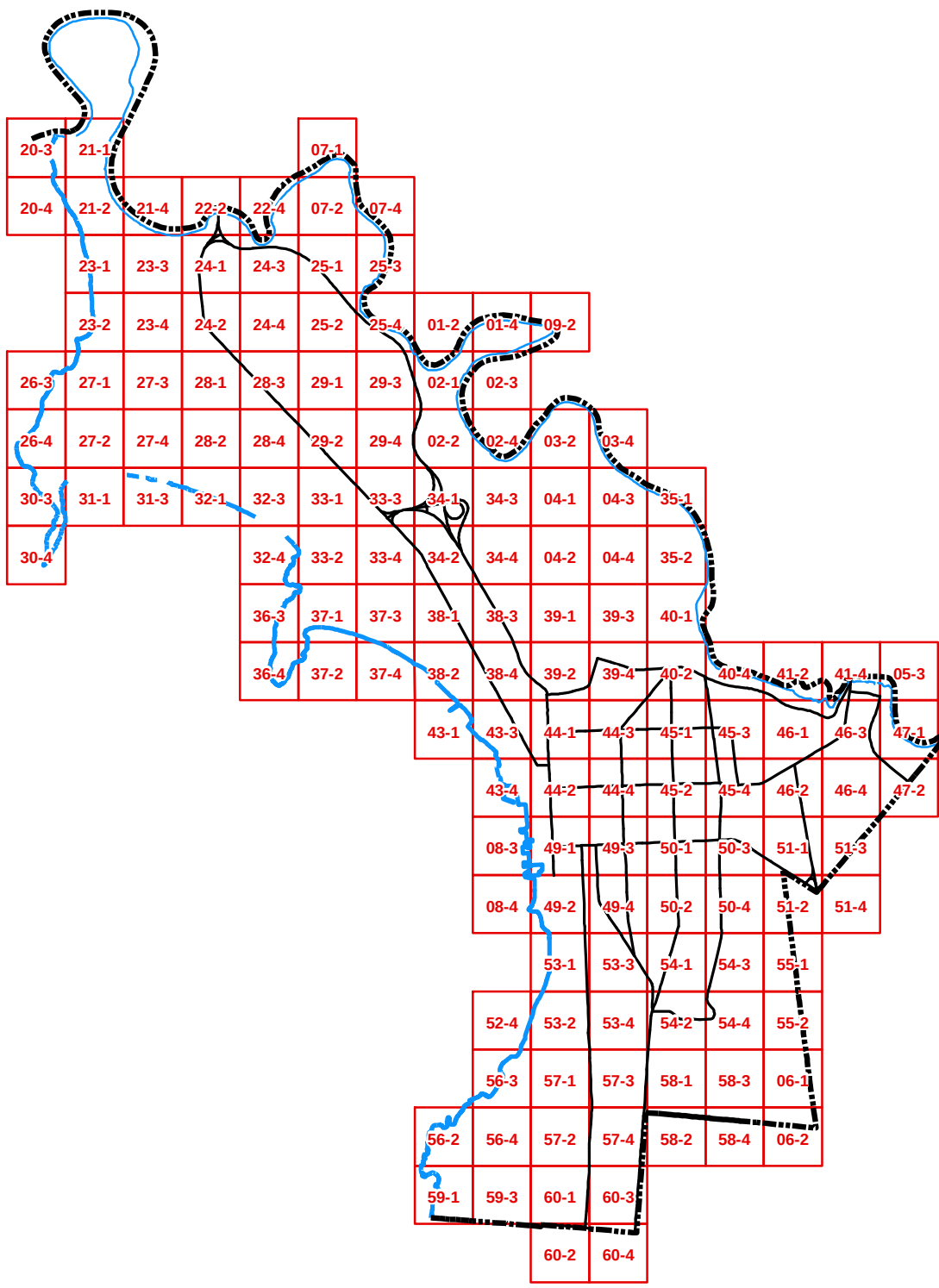
1 inch = 50 feet



### Legend

- Parcel hooks
- Subdivision bnd
- Easement bnd
- Private ROW
- Utility easement or ROW
- Unknown
- Abutting town parcel boundary
- Parcel boundary
- Public Road ROW
- Private road ROW
- Boundary between separate parcels with the same owner
- Private or utility ROW coincident with Parcel boundary
- Town Boundary
- Lake Champlain shoreline
- Parcel boundary coincident with surface water
- Railroad
- Grid500\_poly (symbology)
- Burlington\_Breakwater

Map Printed:  
Dec 15, 2016



This is NOT a survey. The information contained on this map is used to locate, identify and inventory parcels of land in the City of Burlington, VT for reference purposes only. This map was prepared for listing and reference purposes and is NOT to be used for legal description, conveyance, current or former occupation or determination of legal title. Map information is believed to be accurate but accuracy is not guaranteed.



REVISED & REPRINTED BY  
**CAI Technologies**  
Precision Mapping. Geospatial Solutions.



## **APPENDIX B**

### **HISTORICAL RESEARCH DOCUMENTATION**

- 1. Sanborn Maps - No Coverage Letter**
- 2. Historical Aerial Maps**
- 3. Historical Topographic Maps**

# Fire Insurance Maps No Coverage Statement

**Site Location**

Wisener Property  
65 Oakledge Drive  
Burlington, VT

**HIG Project #**

2022477

**Client Project #****Date Created**

12/05/2018

**Requested by**

Envirosite Corporation  
2 Corporate Drive Suite 450  
Shelton, CT



Historical  
Information  
Gatherers

---

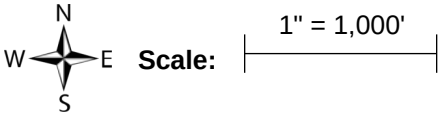
The HIG Historical Map Collection and the United States Library of Congress Map Collection were searched for fire insurance maps (FIM), real estate atlases and similar maps for the site location and adjoining properties. No FIMs or similar maps were identified for the site location and/or adjacent properties.

**FIM+ Maps**

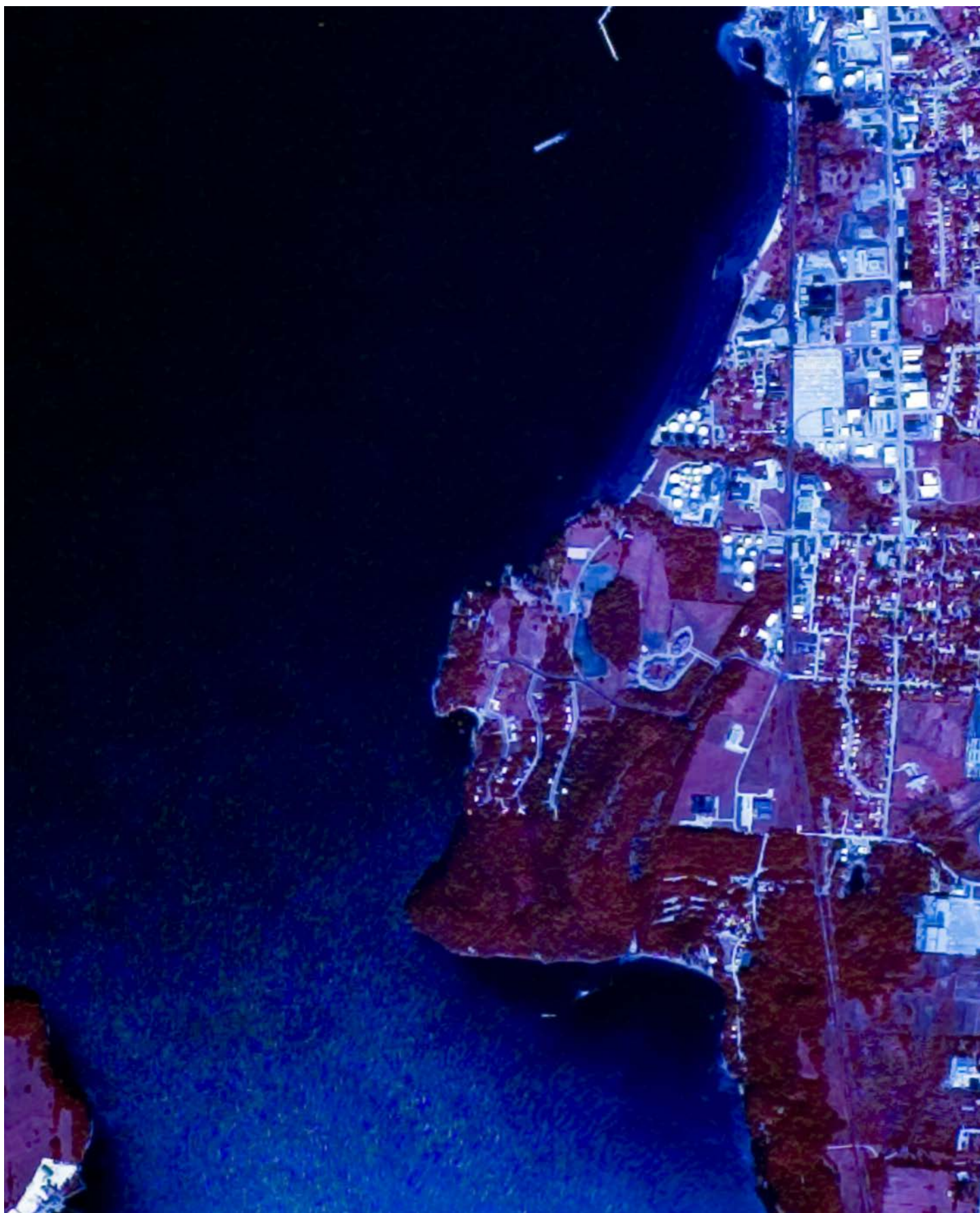
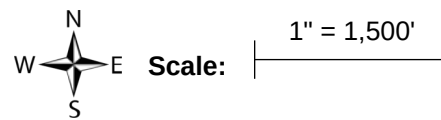
The HIG Historical Map Collection and the United States Library of Congress Map Collection were searched for fire insurance maps (FIMs), real estate atlases and similar maps for the site location and adjoining properties. No FIMs or similar maps were identified for the site location and/or adjoining properties.



**FLIGHT YEAR:**  
1939

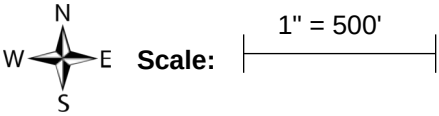


**FLIGHT YEAR:**  
1972

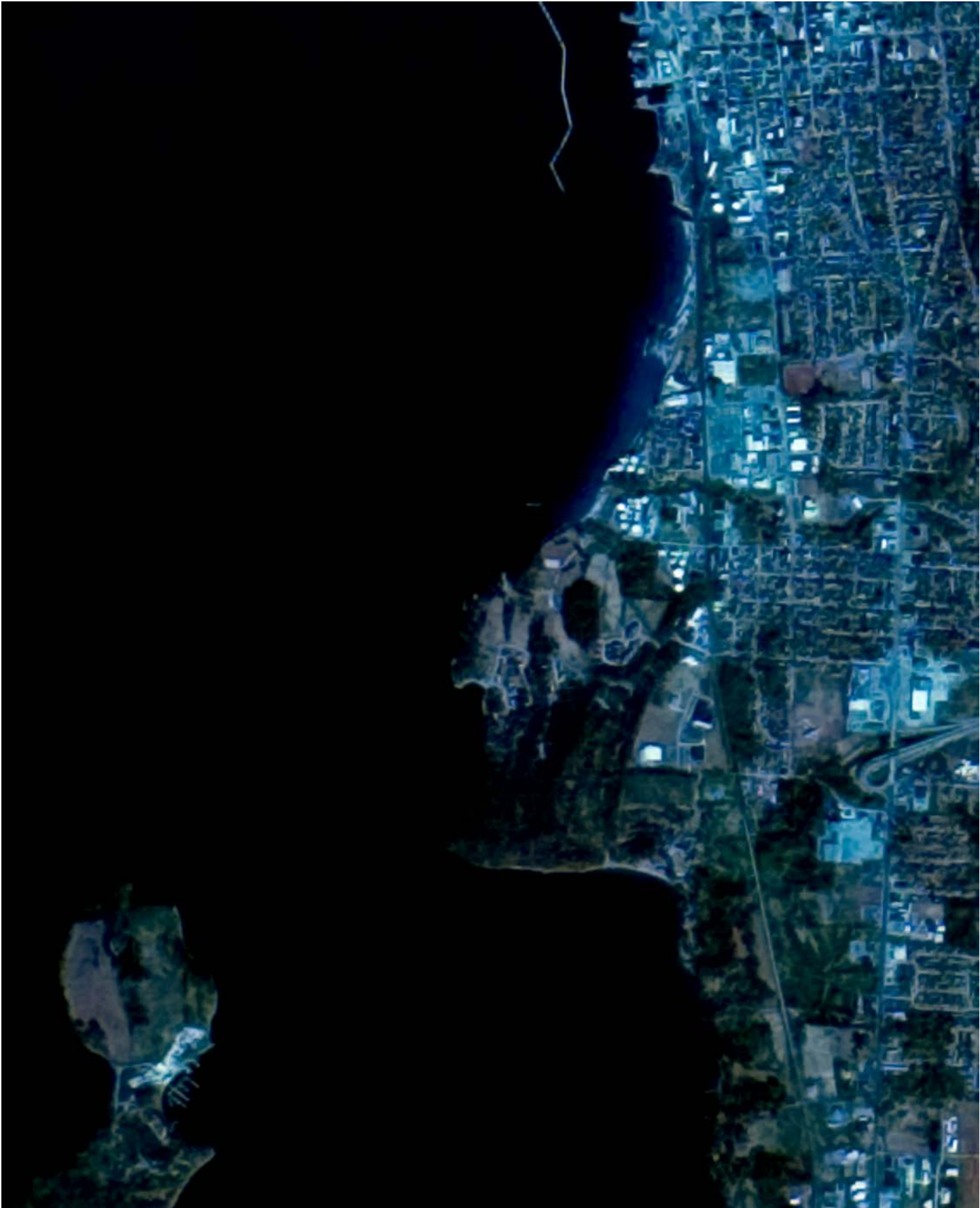
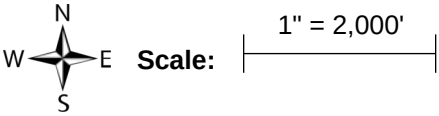




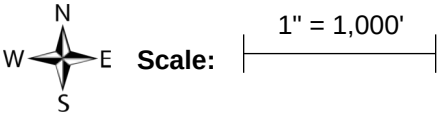
**FLIGHT YEAR:**  
1974



**FLIGHT YEAR:**  
1978

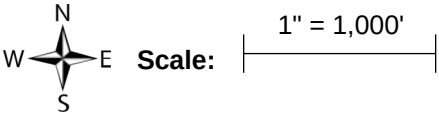


**FLIGHT YEAR:**  
1981



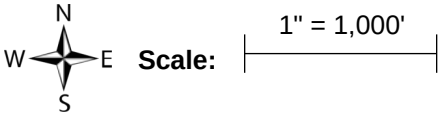


FLIGHT YEAR:  
1985



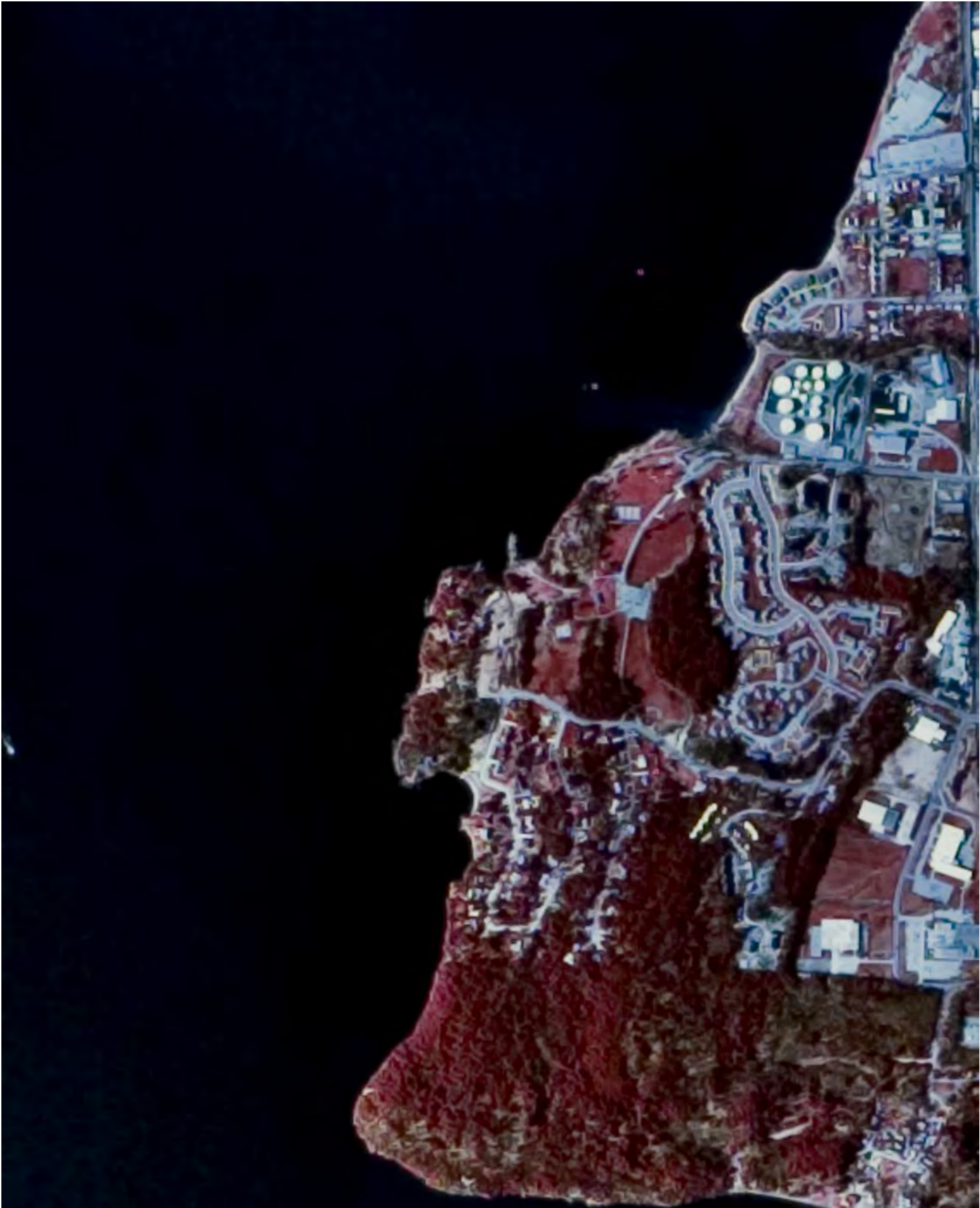
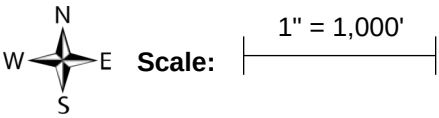


**FLIGHT YEAR:**  
1986

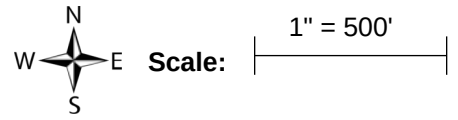




**FLIGHT YEAR:**  
1992

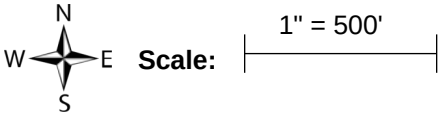


**FLIGHT YEAR:**  
1999



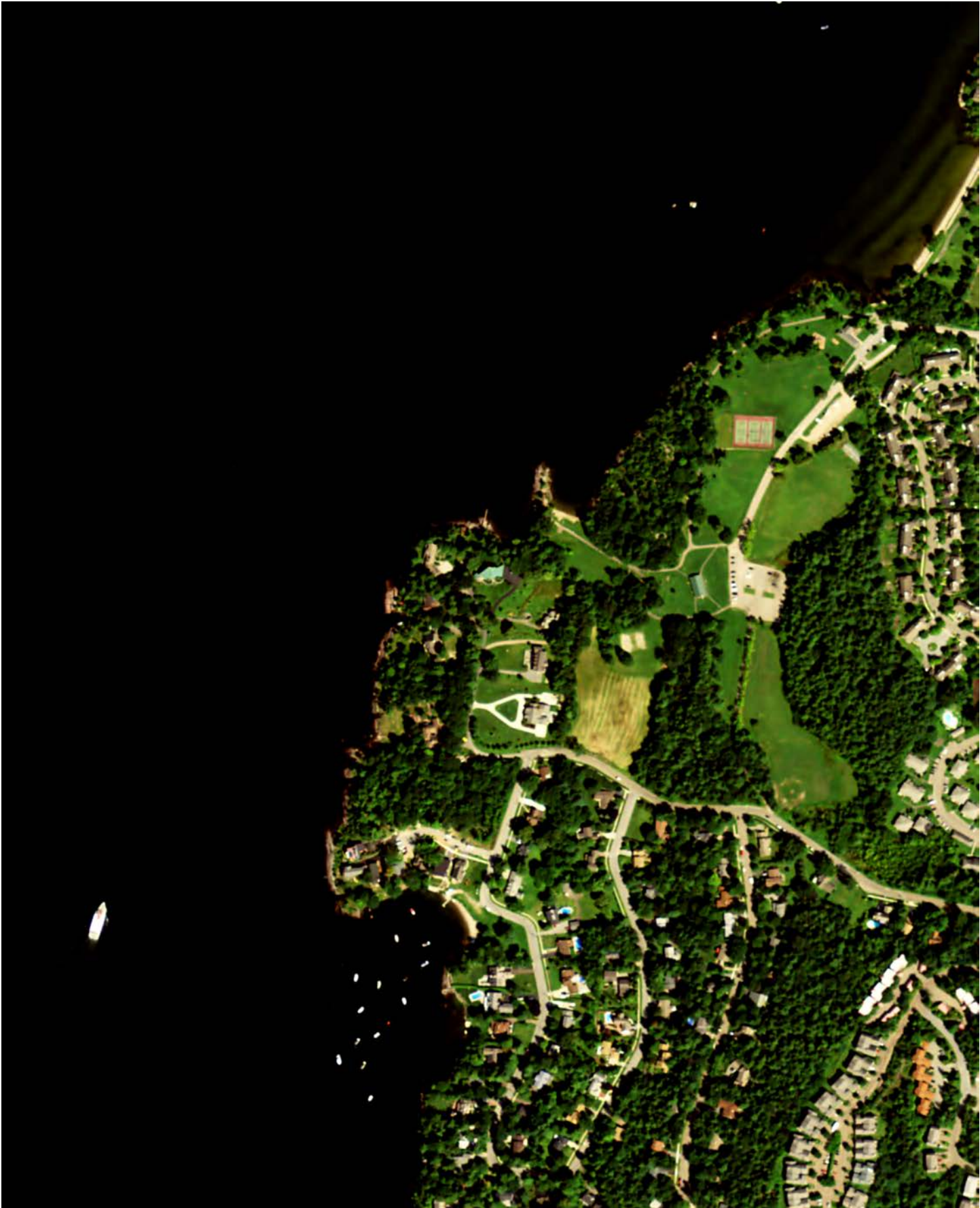
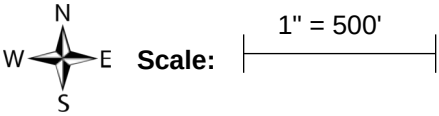


**FLIGHT YEAR:**  
2003



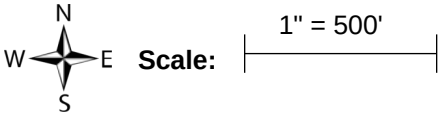


**FLIGHT YEAR:**  
2008



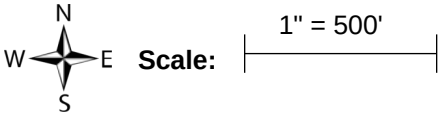


**FLIGHT YEAR:**  
2009



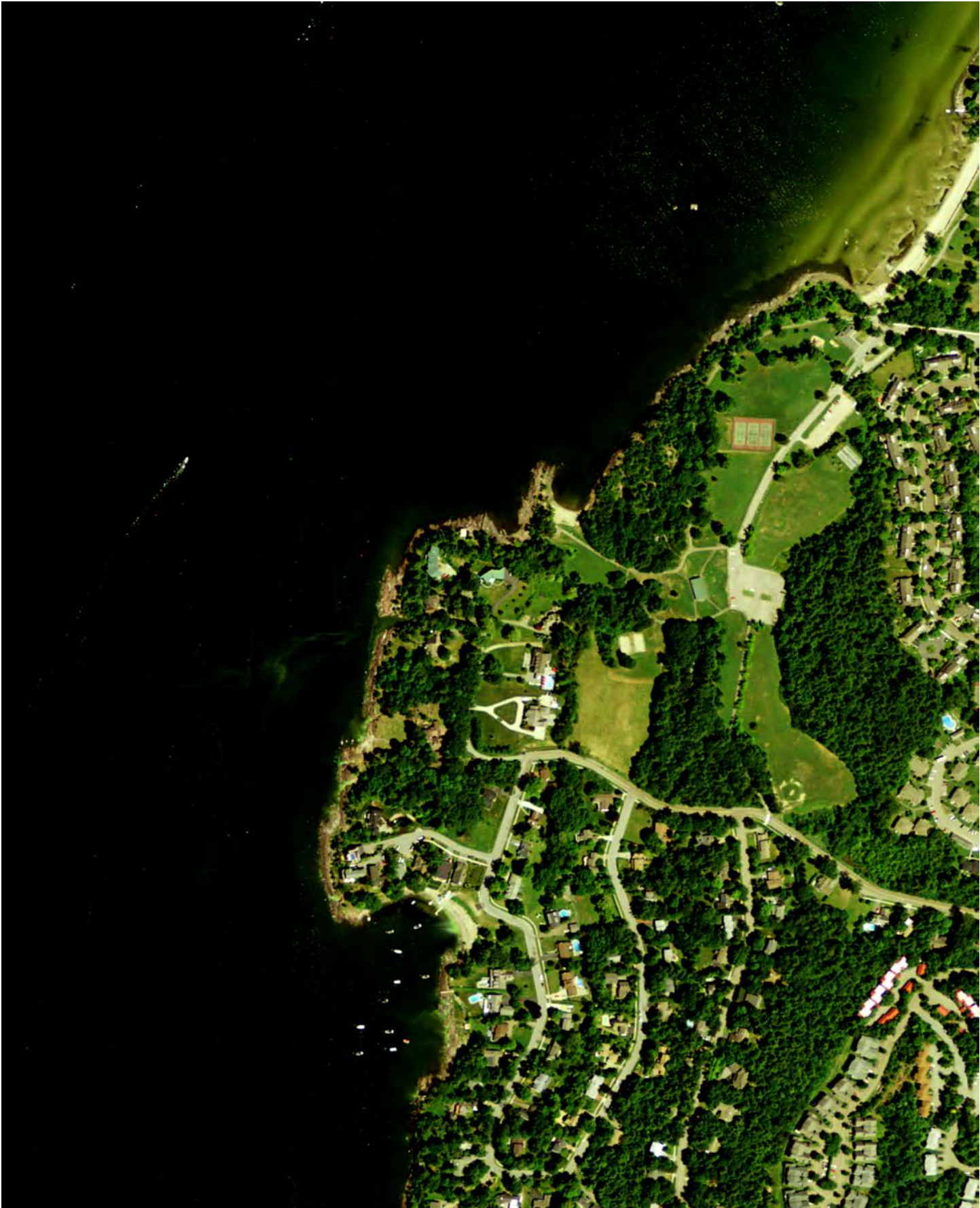
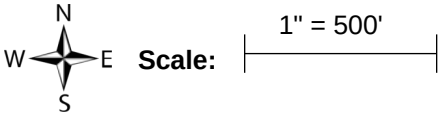


**FLIGHT YEAR:**  
2011



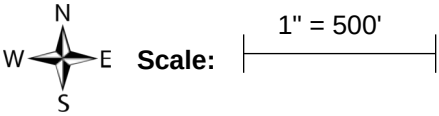


**FLIGHT YEAR:**  
2012



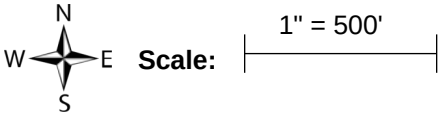


**FLIGHT YEAR:**  
2014





**FLIGHT YEAR:**  
2016





SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: 12/05/2018

SUBJECT QUAD:

|           |            |           |           |                |     |
|-----------|------------|-----------|-----------|----------------|-----|
| MAP NAME: | Burlington | MAP YEAR: | 1906      | REVISION YEAR: | N/R |
| SERIES:   | 7.5        | SCALE:    | 1 : 62500 | Part           | 1   |





SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: 12/05/2018

SUBJECT QUAD:

|           |            |           |           |                |     |
|-----------|------------|-----------|-----------|----------------|-----|
| MAP NAME: | Burlington | MAP YEAR: | 1919      | REVISION YEAR: | N/R |
| SERIES:   | 7.5        | SCALE:    | 1 : 62500 | Part           | 1   |





SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: 12/05/2018

SUBJECT QUAD:

|           |            |           |           |                |     |
|-----------|------------|-----------|-----------|----------------|-----|
| MAP NAME: | Burlington | MAP YEAR: | 1944      | REVISION YEAR: | N/R |
| SERIES:   | 7.5        | SCALE:    | 1 : 62500 | Part           | 1   |





SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: 12/05/2018

## SUBJECT QUAD:

|           |            |           |           |                |      |
|-----------|------------|-----------|-----------|----------------|------|
| MAP NAME: | Burlington | MAP YEAR: | 1948      | REVISION YEAR: | 1972 |
| SERIES:   | 7.5        | SCALE:    | 1 : 24000 | Part           | 1    |





SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: 12/05/2018

## SUBJECT QUAD:

|           |            |           |           |                |      |
|-----------|------------|-----------|-----------|----------------|------|
| MAP NAME: | Burlington | MAP YEAR: | 1948      | REVISION YEAR: | 1987 |
| SERIES:   | 7.5        | SCALE:    | 1 : 24000 | Part           | 1    |



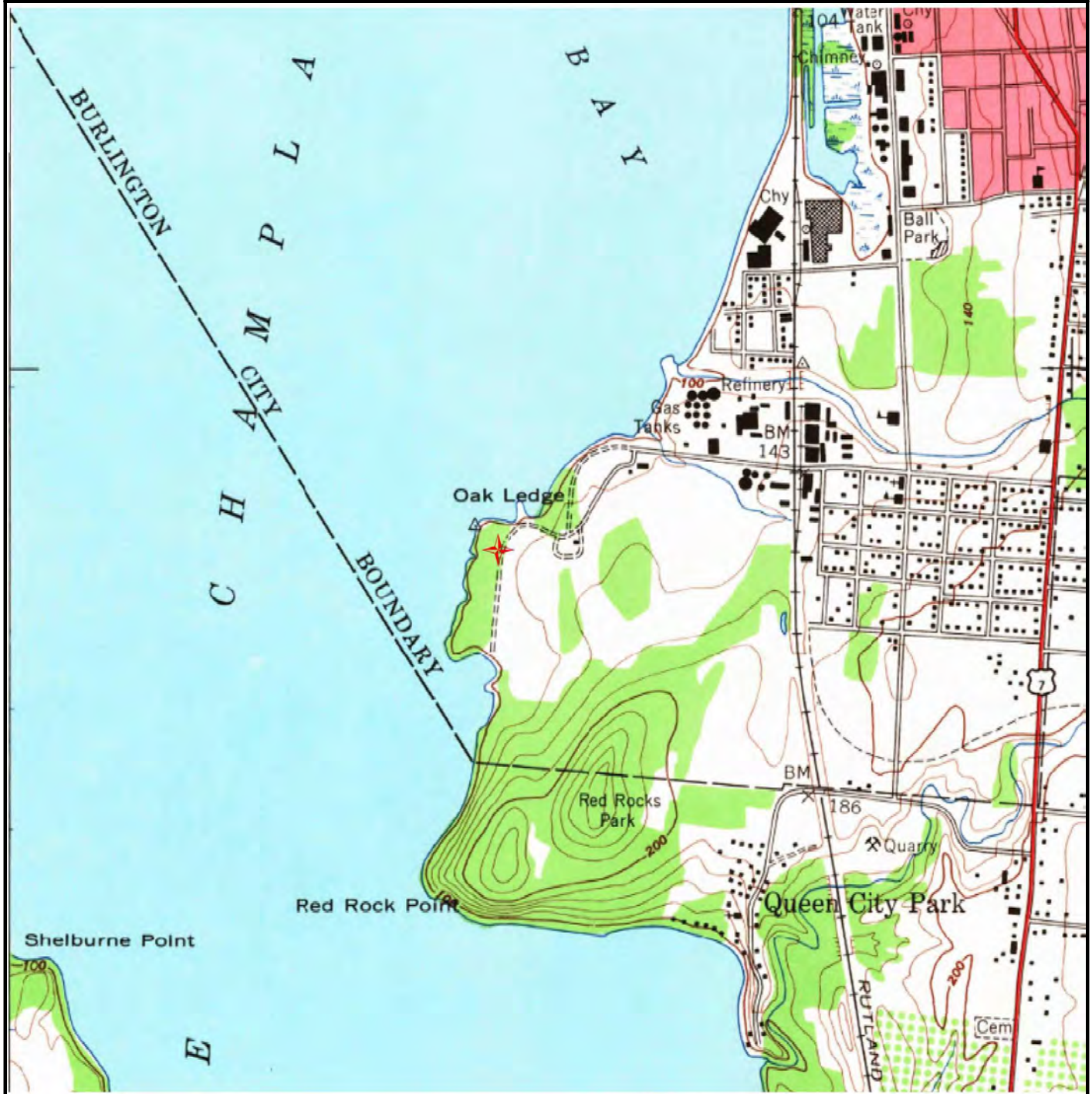


SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: 12/05/2018

## SUBJECT QUAD:

|           |            |           |           |                |     |
|-----------|------------|-----------|-----------|----------------|-----|
| MAP NAME: | Burlington | MAP YEAR: | 1948      | REVISION YEAR: | N/R |
| SERIES:   | 7.5        | SCALE:    | 1 : 24000 | Part           | 1   |

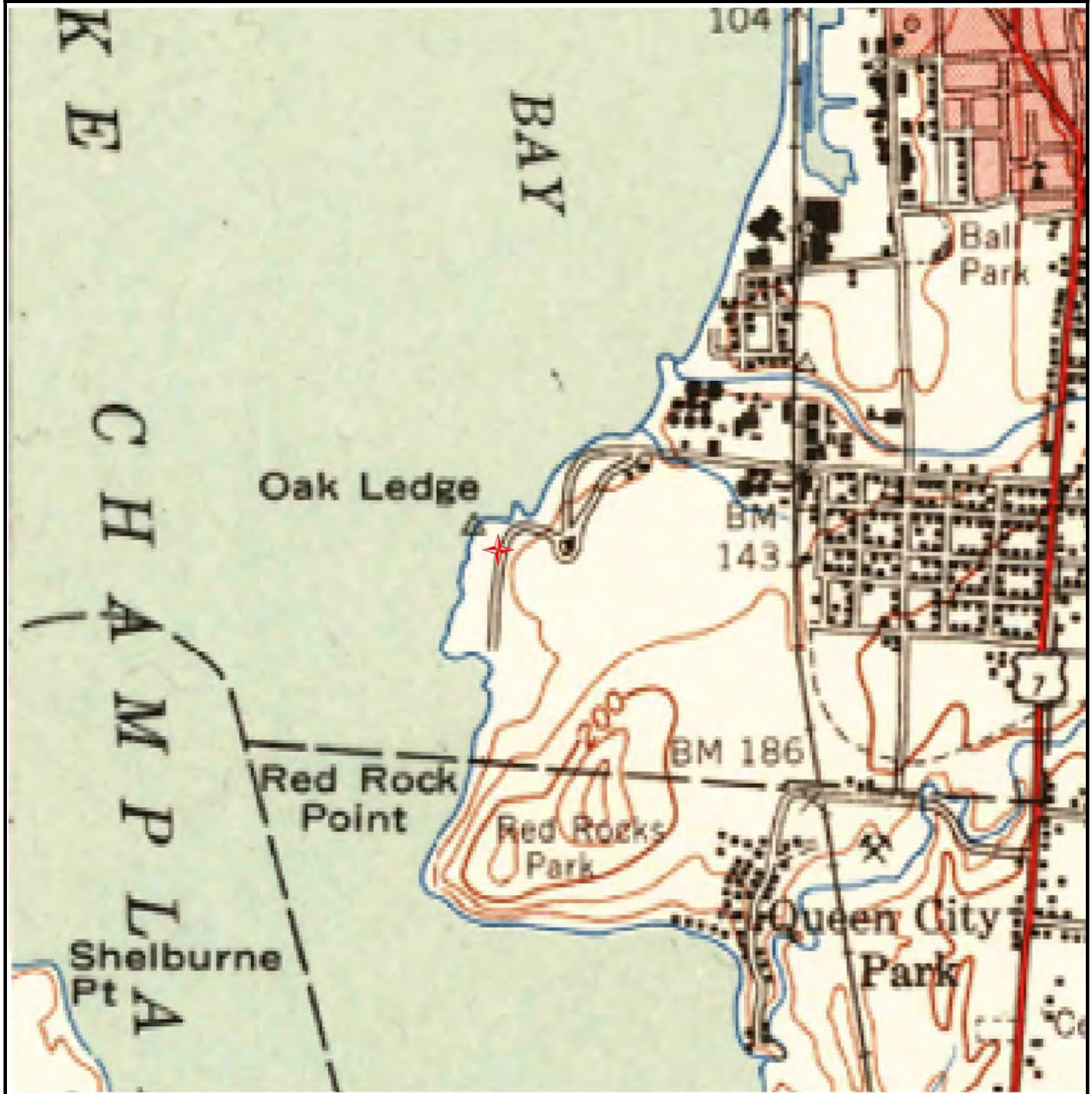


SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: 12/05/2018

SUBJECT QUAD:

|           |            |           |           |                |     |
|-----------|------------|-----------|-----------|----------------|-----|
| MAP NAME: | Burlington | MAP YEAR: | 1948      | REVISION YEAR: | N/R |
| SERIES:   | 7.5        | SCALE:    | 1 : 62500 | Part           | 1   |



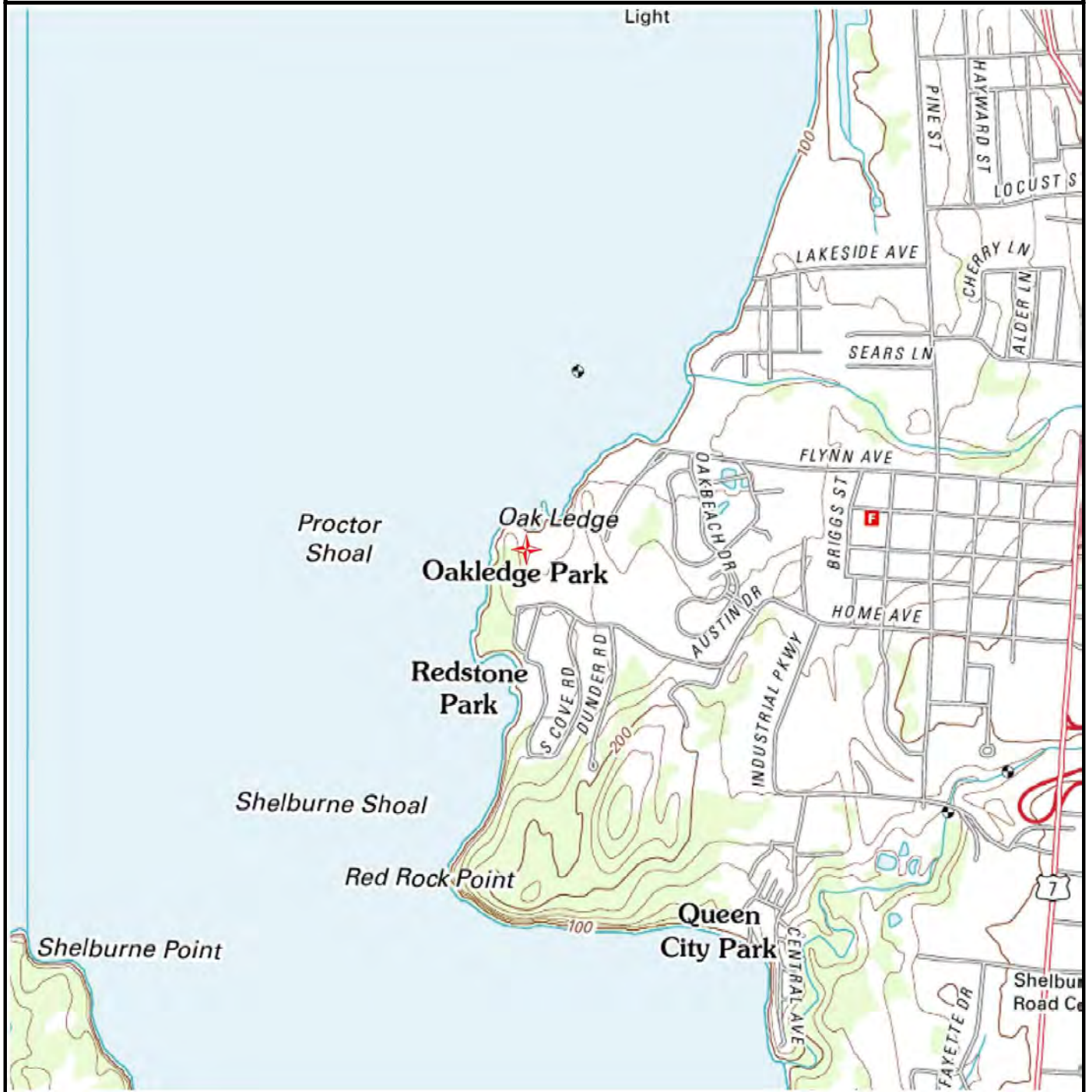


SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: 12/05/2018

SUBJECT QUAD:

|           |            |           |           |                |     |
|-----------|------------|-----------|-----------|----------------|-----|
| MAP NAME: | Burlington | MAP YEAR: | 2012      | REVISION YEAR: | N/R |
| SERIES:   | 7.5        | SCALE:    | 1 : 24000 | Part           | 1   |



SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: 12/05/2018

## SUBJECT QUAD:

|           |            |           |           |                |     |
|-----------|------------|-----------|-----------|----------------|-----|
| MAP NAME: | Burlington | MAP YEAR: | 2015      | REVISION YEAR: | N/R |
| SERIES:   | 7.5        | SCALE:    | 1 : 24000 | Part           | 1   |





SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: 12/05/2018

## SUBJECT QUAD:

|           |            |           |           |                |     |
|-----------|------------|-----------|-----------|----------------|-----|
| MAP NAME: | Burlington | MAP YEAR: | 2018      | REVISION YEAR: | N/R |
| SERIES:   | 7.5        | SCALE:    | 1 : 24000 | Part           | 1   |





## **APPENDIX C**

# **REGULATORY RECORDS DOCUMENTATION**



## Government Records Report | 2018

Order Number: 25609

Report Generated: 12/05/2018

Project Name: Wisener Property

Project Number: 512180510

Wisener Property  
65 Oakledge Drive  
Burlington, Vermont 05401

---

2 Corporate Drive  
Suite 450  
Shelton, CT 06484  
Toll Free: 866-211-2028  
[www.envirositecorp.com](http://www.envirositecorp.com)

| Section                                                | Page       |
|--------------------------------------------------------|------------|
| <u>Executive Summary</u>                               | <u>1</u>   |
| <u>Executive Summary by Distance</u>                   | <u>2</u>   |
| <u>Executive Summary by Database</u>                   | <u>4</u>   |
| <u>Property Proximity Map</u>                          | <u>13</u>  |
| <u>Area Map</u>                                        | <u>14</u>  |
| <u>Map Findings Summary</u>                            | <u>15</u>  |
| <u>Map Findings</u>                                    | <u>20</u>  |
| <u>Unmappable Summary</u>                              | <u>158</u> |
| <u>Environmental Records Searched</u>                  | <u>159</u> |
| <u>Geological Landscape Section</u>                    | <u>175</u> |
| <u>Geological Landscape Section Soil Map</u>           | <u>178</u> |
| <u>Geological Landscape Section Summary</u>            | <u>179</u> |
| <u>Geological Findings Map</u>                         | <u>193</u> |
| <u>Geological Landscape Section Map Findings</u>       | <u>194</u> |
| <u>Geological Landscape Section Map Findings Radon</u> | <u>210</u> |
| <u>Geological Landscape Records Searched</u>           | <u>211</u> |

## **Disclaimer - Copyright and Trademark Notice**

All information contained in this report are based on data available from various public, government and other sources and are based upon the best data available from those sources. The information available in this report may be available from other sources and is not exclusive or the exclusive property of Envirosite Corporation.

NO WARRANTY EXPRESSED OR IMPLIED, IS MADE IN CONNECTION WITH THIS REPORT, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALL RISK IS ASSUMED BY USER AND Envirosite assumes no liability for faulty or inaccurate information. The Reports may utilize a variety of public and other sources reasonably available to Envirosite. Envirosite cannot, and does not assure, warrant, guarantee or assume any liability for the correctness, comprehensiveness, timeliness or completeness of any of such information, nor is the information in any Report to be construed as legal advice with respect to environmental risks associated with any property. Envirosite shall not be liable to anyone for any claims, causes of action, suits, damages, losses, costs and expenses (including, without limitation, attorneys' fees and costs) arising out of or caused by this report regardless of the acts, errors or omissions, or negligence of Envirosite. Any damages shall be limited to the purchase price of the report.

Purchaser of the report accepts the report "As Is". The report is intended only to provide information only and should not be considered as providing any legal advice, prediction, forecast, or fact as to the environmental risk for any specific property. Reports are proprietary to Envirosite, and contain copyrighted material and trademarks of Envirosite. All other trademarks used herein are the property of their respective owners. All rights of Envirosite as to the Reports are reserved.



Envirosite Corporation has conducted a search of all reasonably ascertainable records in accordance with EPA's AAI (40 CFR Part 312) requirements and the ASTM E-1527-13 Environmental Site Assessments standard.

**SUBJECT PROPERTY INFORMATION:****ADDRESS:**

Wisener Property  
65 Oakledge Drive  
Burlington, Vermont 05401

**COORDINATES:**

|                                |                           |
|--------------------------------|---------------------------|
| Latitude (North):              | 44.453304 - 44°27'11.9"   |
| Longitude (West):              | -73.230367 - -73°13'49.3" |
| Universal Transverse Mercator: | Zone 18N                  |
| UTM X (Meters):                | 640794.54                 |
| UTM Y (Meters):                | 4923745.32                |

**ELEVATION:**

Elevation: 114.137 ft. above sea level

**USGS TOPOGRAPHIC MAP ASSOCIATED WITH SUBJECT PROPERTY:**

Subject Property Map: 44073d2 BURLINGTON, VT  
Most Recent Revision: 2018

| <u>MAP ID</u> | <u>SITE NAME</u>                     | <u>ADDRESS</u>               | <u>DATABASE(S)</u>                              | <u>RELATIVE ELEVATION</u> | <u>DIRECTION / DISTANCE</u> |
|---------------|--------------------------------------|------------------------------|-------------------------------------------------|---------------------------|-----------------------------|
| <b>A1</b>     | RESIDENCE                            | 20 SOUTH COVE ROAD           | UST - VT                                        | Lower                     | SSE / 0.135 mi.             |
| <b>A2</b>     | Montstream Residence                 | 20 South Cove Road           | HIST SPILLS - VT, UST - VT                      | Lower                     | S / 0.145 mi.               |
| <b>3</b>      | SHAPIRO (HOWARD) RESIDENCE           | 219 AUSTIN DRIVE             | AST - VT                                        | Higher                    | ESE / 0.246 mi.             |
| <b>4</b>      | Mobil Terminal                       | Flynn Ave                    | SHWS - VT                                       | Higher                    | ENE / 0.441 mi.             |
| <b>5</b>      | Exxon/Mobil Terminal                 | 2 Flynn Ave                  | HIST SPILLS - VT, LAST - VT                     | Higher                    | ENE / 0.461 mi.             |
| <b>6</b>      | Exxon Oil Terminal                   | 199 Flynn Ave                | AST - VT, SHWS - VT                             | Higher                    | ENE / 0.520 mi.             |
| <b>B7</b>     | Barretts Trucking                    | 16 Austin Drive              | SHWS - VT                                       | Higher                    | E / 0.561 mi.               |
| <b>B8</b>     | BARRETT'S TRUCKING                   | 16 AUSTIN DRIVE              | BROWNFIELDS - VT, SHWS - VT                     | Higher                    | E / 0.561 mi.               |
| <b>C9</b>     | BOOSKA MOVERS                        | 180 FLYNN AVE                | ECHO, FRS, HIST SPILLS - VT, LAST - VT, RCRA... | Higher                    | ENE / 0.573 mi.             |
| <b>10</b>     | Northern Oil/harborwatch             | Harrison Ave                 | SHWS - VT                                       | Higher                    | NE / 0.574 mi.              |
| <b>B11</b>    | C C T A Garage                       | 1 Industrial Parkway         | SHWS - VT                                       | Higher                    | ESE / 0.577 mi.             |
| <b>D12</b>    | EDLUND INDUSTRIES                    | N/A                          | SHWS - VT                                       | Higher                    | SE / 0.590 mi.              |
| <b>D13</b>    | EDLUND INDUSTRIES                    | 44.447312041, -73.2218604118 | HIST SHWS - VT                                  | Higher                    | SE / 0.590 mi.              |
| <b>C14</b>    | Vermont Railway - Flynn Ave          | 207 Flynn Ave                | SHWS - VT                                       | Higher                    | E / 0.591 mi.               |
| <b>C15</b>    | 207 FLYNN AVE                        | 207 FLYNN AVE                | BROWNFIELDS - VT, SHWS - VT                     | Higher                    | E / 0.591 mi.               |
| <b>16</b>     | 75 BRIGGS STREET                     | 75 BRIGGS STREET             | SHWS - VT                                       | Higher                    | E / 0.626 mi.               |
| <b>17</b>     | Former Vermont Structural Steel      | Briggs & Flynn Streets       | SHWS - VT                                       | Higher                    | E / 0.654 mi.               |
| <b>18</b>     | General Electric Comp. A&esd         | Industrial Avenue            | SHWS - VT                                       | Higher                    | ESE / 0.689 mi.             |
| <b>19</b>     | Tamarack Automotive                  | 53 Sears Lane                | SHWS - VT                                       | Higher                    | ENE / 0.728 mi.             |
| <b>E20</b>    | BELL AIRCRAFT DUMP (FORMER)          | LAKESIDE AVENUE              | CERCLIS-HIST, FRS, PART NPL, SEMS_8R_ACTI...    | Higher                    | NE / 0.755 mi.              |
| <b>E21</b>    | 34, 44, 50 LAKESIDE AVENUE           | LAKESIDE AVENUE (34,44,50)   | BROWNFIELDS - VT, SHWS - VT                     | Higher                    | NE / 0.764 mi.              |
| <b>22</b>     | 316-332 FLYNN AVE                    | 316-332 FLYNN AVE            | BROWNFIELDS - VT, SHWS - VT                     | Higher                    | E / 0.819 mi.               |
| <b>F23</b>    | GENERAL DYNAMICS ARMAMENT & T...     | 128 LAKESIDE AVE             | ARCHIVED RCRA TSDF, CORRACTS, Corrective...     | Lower                     | ENE / 0.836 mi.             |
| <b>F24</b>    | GENERAL ELECTRIC CO LAKESIDE AVE...  | LAKESIDE AVENUE              | CERCLIS-HIST, PART NPL, SEMS_8R_ACTIVE SITES    | Lower                     | ENE / 0.840 mi.             |
| <b>G25</b>    | Burlington Food Service              | Pine St.                     | SHWS - VT                                       | Higher                    | ENE / 0.853 mi.             |
| <b>G26</b>    | NOYES AUTOMOTIVE                     | 777 PINE ST                  | SHWS - VT                                       | Higher                    | ENE / 0.854 mi.             |
| <b>F27</b>    | Former Weissner Property             | Lakeside Ave                 | SHWS - VT                                       | Lower                     | ENE / 0.873 mi.             |
| <b>G28</b>    | Burlington Grocery                   | 747 Pine Street              | SHWS - VT, UST - VT                             | Higher                    | ENE / 0.880 mi.             |
| <b>F29</b>    | PINE STREET CANAL                    | PINE STREET                  | CERCLIS-HIST, COAL GAS, CONSENT (DECREEES...    | N/R                       | ENE / 0.882 mi.             |
| <b>30</b>     | General Electric Comp. Lakeside Ave. | Lakeside Avenue              | SHWS - VT                                       | Lower                     | NE / 0.883 mi.              |
| <b>F31</b>    | Rosetti Property (former)            | 175 Lakeside Avenue          | SHWS - VT                                       | Lower                     | ENE / 0.907 mi.             |
| <b>F32</b>    | Rossetti Real Estate                 | 175 Lakeside Ave             | SHWS - VT                                       | Lower                     | ENE / 0.907 mi.             |
| <b>H33</b>    | Swish Facility                       | 703 Pine St                  | SHWS - VT                                       | Higher                    | ENE / 0.911 mi.             |
| <b>H34</b>    | former Maynard Auto Supply           | 696 Pine St                  | SHWS - VT                                       | Lower                     | ENE / 0.920 mi.             |
| <b>H35</b>    | Maynard Auto                         | 696 Pine St                  | SHWS - VT                                       | Lower                     | ENE / 0.920 mi.             |
| <b>36</b>     | Cannon Residence                     | 134 Ferguson Ave             | SHWS - VT                                       | Higher                    | E / 0.924 mi.               |
| <b>F37</b>    | Former St. Johnsbury Trucking        | Pine St.                     | SHWS - VT                                       | Lower                     | ENE / 0.924 mi.             |
| <b>I38</b>    | A O T SOUTHERN CONNECTOR             | N/A                          | SHWS - VT                                       | Higher                    | ESE / 0.929 mi.             |

| <u>MAP ID</u> | <u>SITE NAME</u>         | <u>ADDRESS</u>                | <u>DATABASE(S)</u>                            | <u>RELATIVE<br/>ELEVATION</u> | <u>DIRECTION / DISTANCE</u> |
|---------------|--------------------------|-------------------------------|-----------------------------------------------|-------------------------------|-----------------------------|
| <b>139</b>    | A O T SOUTHERN CONNECTOR | 44.4460706445057, -73.214...  | HIST SHWS - VT                                | Higher                        | ESE / 0.929 mi.             |
| <b>40</b>     | CUMBERLAND FARMS #4018   | 661 PINE ST                   | ECHO, FRS, HWG - VT, MANIFEST - RI, MANIFE... | Lower                         | ENE / 0.943 mi.             |
| <b>41</b>     | PINE STREET CANAL        | 44.4665759761, -73.2167808864 | CDC HAZDAT                                    | N/R                           | NE / 0.973 mi.              |

**SUBJECT PROPERTY SEARCH RESULTS:**

The subject property was not listed in any of the databases searched by Envirosearch Corporation.

**SEARCH RESULTS:****FEDERAL RCRA CORRECTS FACILITIES LIST**

CORRECTS: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases **1 SITE FOUND WITHIN 1 MILE**

**LOWER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>                                                   | <u>SITE ADDRESS</u>                                                                  | <u>DIRECTION/DISTANCE</u> | <u>PAGE</u> |
|---------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------|-------------|
| <i>F23</i>    | <i>GENERAL DYNAMICS<br/>ARMAMENT &amp; TECH PRODUCT</i>            | <i>128 LAKESIDE AVE</i>                                                              | <i>ENE / 0.836 mi.</i>    | <i>47</i>   |
|               | - ID: VTD002083434                                                 | Status: N/A                                                                          | Date: N/A                 |             |
|               | - ID: ENTIRE FACILITY                                              | Status: READY FOR ANTICIPATED<br>USE DETERMINATION -<br>READY FOR ANTICIPATED<br>USE | Date: 09/30/2008          |             |
|               | - ID: FORMER OIL HOUSE/ FILLED<br>LAND AREA                        | Status: INSTITUTIONAL<br>CONTROLS ESTABLISHED-<br>PROPRIETARY CONTROL                | Date: 02/06/2006          |             |
|               | - ID: ENTIRE FACILITY                                              | Status: REMEDY CONSTRUCTION-<br>NO REMEDY<br>CONSTRUCTED                             | Date: 01/23/2006          |             |
|               | - ID: ENTIRE FACILITY                                              | Status: REMEDY DECISION                                                              | Date: 01/23/2006          |             |
|               | <i>There are an additional 6 status records, see site details.</i> |                                                                                      |                           |             |

**FEDERAL NPL SITE LIST**

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally **1 SITE FOUND WITHIN 1 MILE**

**EQUAL/HIGHER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>         | <u>SITE ADDRESS</u> | <u>DIRECTION/DISTANCE</u>        | <u>PAGE</u> |
|---------------|--------------------------|---------------------|----------------------------------|-------------|
| <i>F29</i>    | <i>PINE STREET CANAL</i> | <i>PINE STREET</i>  | <i>ENE / 0.882 mi.</i>           | <i>73</i>   |
|               | - ID: VTD980523062       | Status: Final       | Date: Listing Date<br>09/08/1983 |             |

NPL EPA R1 GIS: Geospatial data for the Environmental Protection Agency Region 1 National Priority List subject to environmental regulation **1 SITE FOUND WITHIN 1 MILE**

**EQUAL/HIGHER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>         | <u>SITE ADDRESS</u> | <u>DIRECTION/DISTANCE</u> | <u>PAGE</u> |
|---------------|--------------------------|---------------------|---------------------------|-------------|
| <i>F29</i>    | <i>PINE STREET CANAL</i> | <i>PINE STREET</i>  | <i>ENE / 0.882 mi.</i>    | <i>73</i>   |

PART NPL: Sites that are a part of an National Priority List site referred to as the parent site **2 SITES FOUND WITHIN 1 MILE**

**EQUAL/HIGHER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>                       | <u>SITE ADDRESS</u>              | <u>DIRECTION/DISTANCE</u> | <u>PAGE</u> |
|---------------|----------------------------------------|----------------------------------|---------------------------|-------------|
| <i>E20</i>    | <i>BELL AIRCRAFT DUMP<br/>(FORMER)</i> | <i>LAKESIDE AVENUE</i>           | <i>NE / 0.755 mi.</i>     | <i>41</i>   |
|               | - ID: VTD981215775                     | Status: Site is Part of NPL Site | Date: N/R                 |             |



**FEDERAL NPL SITE LIST (cont.)**PART NPL: Sites that are a part of an National Priority List site referred to as the parent site **2 SITES FOUND WITHIN 1 MILE****LOWER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>                          | <u>SITE ADDRESS</u>              | <u>DIRECTION/DISTANCE</u> | <u>PAGE</u> |
|---------------|-------------------------------------------|----------------------------------|---------------------------|-------------|
| F24           | GENERAL ELECTRIC CO<br>LAKESIDE AVE PLANT | LAKESIDE AVENUE                  | ENE / 0.840 mi.           | 65          |
|               | - ID: VTD002083434                        | Status: Site is Part of NPL Site | Date: N/R                 |             |

SEMS\_FINAL NPL: All Included National Priority List Sites **1 SITE FOUND WITHIN 1 MILE****EQUAL/HIGHER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>  | <u>SITE ADDRESS</u> | <u>DIRECTION/DISTANCE</u>   | <u>PAGE</u> |
|---------------|-------------------|---------------------|-----------------------------|-------------|
| F29           | PINE STREET CANAL | PINE STREET         | ENE / 0.882 mi.             | 73          |
|               | - ID: 0101479     | Status: N/A         | Date: Final Date 09/08/1983 |             |

**STATE AND TRIBAL REGISTERED STORAGE TANK LISTS**AST - VT: Aboveground storage tank listing **1 SITE FOUND WITHIN .25 MILE****EQUAL/HIGHER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>              | <u>SITE ADDRESS</u> | <u>DIRECTION/DISTANCE</u> | <u>PAGE</u> |
|---------------|-------------------------------|---------------------|---------------------------|-------------|
| 3             | SHAPIRO (HOWARD)<br>RESIDENCE | 219 AUSTIN DRIVE    | ESE / 0.246 mi.           | 23          |

UST - VT: Registered Underground Storage Tanks **2 SITES FOUND WITHIN .25 MILE****LOWER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>          | <u>SITE ADDRESS</u> | <u>DIRECTION/DISTANCE</u> | <u>PAGE</u> |
|---------------|---------------------------|---------------------|---------------------------|-------------|
| A1            | RESIDENCE                 | 20 SOUTH COVE ROAD  | SSE / 0.135 mi.           | 20          |
|               | - ID: Facility ID 5550491 | Status: ACTIVE      | Date: N/A                 |             |
|               | - ID: Tank ID N/R         | Status: N/R         | Date: N/A                 |             |
| A2            | Montstream Residence      | 20 South Cove Road  | S / 0.145 mi.             | 21          |
|               | - ID: Facility ID 1414    | Status: PULLED      | Date: N/A                 |             |
|               | - ID: Tank ID 10791       | Status: PULLED      | Date: N/A                 |             |

**STATE AND TRIBAL LEAKING STORAGE TANK LISTS**LAST - VT: Aboveground Storage Tank with releases/ leaks **1 SITE FOUND WITHIN .5 MILE****EQUAL/HIGHER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>     | <u>SITE ADDRESS</u> | <u>DIRECTION/DISTANCE</u>       | <u>PAGE</u> |
|---------------|----------------------|---------------------|---------------------------------|-------------|
| 5             | Exxon/Mobil Terminal | 2 Flynn Ave         | ENE / 0.461 mi.                 | 24          |
|               | - ID: WMD274         | Status: N/A         | Date: Date Closed<br>08/01/2005 |             |

**STATE- AND TRIBAL - EQUIVALENT CERCLIS**HIST SHWS - VT: List of State Hazardous Waste sites recorded in the state that is no longer in current agency list. **2 SITES FOUND WITHIN 1 MILE****EQUAL/HIGHER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>         | <u>SITE ADDRESS</u>                    | <u>DIRECTION/DISTANCE</u> | <u>PAGE</u> |
|---------------|--------------------------|----------------------------------------|---------------------------|-------------|
| D13           | EDLUND INDUSTRIES        | 44.447312041,<br>-73.2218604118        | SE / 0.590 mi.            | 35          |
| I39           | A O T SOUTHERN CONNECTOR | 44.4460706445057,<br>-73.2145236594238 | ESE / 0.929 mi.           | 146         |

**STATE- AND TRIBAL - EQUIVALENT CERCLIS (cont.)**SHWS - VT: State Hazardous Waste sites recorded in the state **30 SITES FOUND WITHIN 1 MILE****EQUAL/HIGHER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>                                   | <u>SITE ADDRESS</u>                              | <u>DIRECTION/DISTANCE</u>                                  | <u>PAGE</u> |
|---------------|----------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|-------------|
| 4             | Mobil Terminal<br>- ID: 870175                     | Flynn Ave<br>Status: N/R                         | ENE / 0.441 mi.<br>Date: Record Last Updated<br>07/25/2012 | 24          |
| 6             | Exxon Oil Terminal<br>- ID: 870002                 | 199 Flynn Ave<br>Status: Brownfields - BRELLA    | ENE / 0.520 mi.<br>Date: Record Last Updated<br>06/20/2016 | 25          |
| B7            | Barretts Trucking<br>- ID: 921232                  | 16 Austin Drive<br>Status: N/R                   | E / 0.561 mi.<br>Date: Record Last Updated<br>01/07/2016   | 26          |
| B8            | BARRETT'S TRUCKING<br>- ID: 20164618               | 16 AUSTIN DRIVE<br>Status: Brownfields           | E / 0.561 mi.<br>Date: Record Last Updated<br>10/20/2016   | 27          |
| C9            | BOOSKA MOVERS<br>- ID: 20053376                    | 180 FLYNN AVE<br>Status: N/R                     | ENE / 0.573 mi.<br>Date: Record Last Updated<br>01/29/2008 | 28          |
| 10            | Northern Oil/harborwatch<br>- ID: 870001           | Harrison Ave<br>Status: N/R                      | NE / 0.574 mi.<br>Date: Record Last Updated<br>06/19/2013  | 34          |
| B11           | C C T A Garage<br>- ID: 951791                     | 1 Industrial Parkway<br>Status: N/R              | ESE / 0.577 mi.<br>Date: Record Last Updated<br>03/15/2005 | 34          |
| D12           | EDLUND INDUSTRIES<br>- ID: 880269                  | N/A<br>Status: N/R                               | SE / 0.590 mi.<br>Date: Record Last Updated<br>03/08/2005  | 35          |
| C14           | Vermont Railway - Flynn Ave<br>- ID: 931521        | 207 Flynn Ave<br>Status: N/R                     | E / 0.591 mi.<br>Date: Record Last Updated<br>02/01/2018   | 36          |
| C15           | 207 FLYNN AVE<br>- ID: 20164619                    | 207 FLYNN AVE<br>Status: Brownfields - BRELLA    | E / 0.591 mi.<br>Date: Record Last Updated<br>05/05/2016   | 37          |
| 16            | 75 BRIGGS STREET<br>- ID: 20174731                 | 75 BRIGGS STREET<br>Status: Brownfields - BRELLA | E / 0.626 mi.<br>Date: Record Last Updated<br>10/04/2017   | 38          |
| 17            | Former Vermont Structural<br>Steel<br>- ID: 770109 | Briggs & Flynn Streets<br>Status: N/R            | E / 0.654 mi.<br>Date: Record Last Updated<br>05/22/2012   | 39          |
| 18            | General Electric Comp. A&esd<br>- ID: 770040       | Industrial Avenue<br>Status: N/R                 | ESE / 0.689 mi.<br>Date: Record Last Updated<br>01/24/2018 | 39          |
| 19            | Tamarack Automotive<br>- ID: 941740                | 53 Sears Lane<br>Status: N/R                     | ENE / 0.728 mi.<br>Date: Record Last Updated<br>03/14/2018 | 40          |

**STATE- AND TRIBAL - EQUIVALENT CERCLIS (cont.)**SHWS - VT: State Hazardous Waste sites recorded in the state **30 SITES FOUND WITHIN 1 MILE****EQUAL/HIGHER ELEVATION (cont.)**

| <u>MAP ID</u> | <u>SITE NAME</u>                             | <u>SITE ADDRESS</u>                               | <u>DIRECTION/DISTANCE</u>                                  | <u>PAGE</u> |
|---------------|----------------------------------------------|---------------------------------------------------|------------------------------------------------------------|-------------|
| E21           | 34, 44, 50 LAKESIDE AVENUE<br>- ID: 20154612 | LAKESIDE AVENUE (34,44,50)<br>Status: N/R         | NE / 0.764 mi.<br>Date: Record Last Updated<br>09/20/2018  | 45          |
| 22            | 316-332 FLYNN AVE<br>- ID: 20164636          | 316-332 FLYNN AVE<br>Status: Brownfields - BRELLA | E / 0.819 mi.<br>Date: Record Last Updated<br>09/17/2018   | 46          |
| G25           | Burlington Food Service<br>- ID: 890383      | Pine St.<br>Status: N/R                           | ENE / 0.853 mi.<br>Date: Record Last Updated<br>10/30/2007 | 68          |
| G26           | NOYES AUTOMOTIVE<br>- ID: 20144505           | 777 PINE ST<br>Status: Voluntary Action           | ENE / 0.854 mi.<br>Date: Record Last Updated<br>11/22/2016 | 69          |
| G28           | Burlington Grocery<br>- ID: 20083804         | 747 Pine Street<br>Status: N/R                    | ENE / 0.880 mi.<br>Date: Record Last Updated<br>07/31/2009 | 70          |
| H33           | Swish Facility<br>- ID: 20073730             | 703 Pine St<br>Status: N/R                        | ENE / 0.911 mi.<br>Date: Record Last Updated<br>11/16/2007 | 142         |
| 36            | Cannon Residence<br>- ID: 20063617           | 134 Ferguson Ave<br>Status: Voluntary Action      | E / 0.924 mi.<br>Date: Record Last Updated<br>05/15/2017   | 144         |
| I38           | A O T SOUTHERN CONNECTOR<br>- ID: 870121     | N/A<br>Status: N/R                                | ESE / 0.929 mi.<br>Date: Record Last Updated<br>05/23/2012 | 145         |

**LOWER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>                                        | <u>SITE ADDRESS</u>                             | <u>DIRECTION/DISTANCE</u>                                  | <u>PAGE</u> |
|---------------|---------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------|-------------|
| F27           | Former Weissner Property<br>- ID: 770124                | Lakeside Ave<br>Status: N/R                     | ENE / 0.873 mi.<br>Date: Record Last Updated<br>N/R        | 70          |
| 30            | General Electric Comp.<br>Lakeside Ave.<br>- ID: 770041 | Lakeside Avenue<br>Status: RCRA CA              | NE / 0.883 mi.<br>Date: Record Last Updated<br>01/24/2018  | 140         |
| F31           | Rosetti Property (former)<br>- ID: 911069               | 175 Lakeside Avenue<br>Status: Voluntary Action | ENE / 0.907 mi.<br>Date: Record Last Updated<br>04/20/2012 | 141         |
| F32           | Rossetti Real Estate<br>- ID: 941679                    | 175 Lakeside Ave<br>Status: N/R                 | ENE / 0.907 mi.<br>Date: Record Last Updated<br>03/15/2005 | 141         |
| H34           | former Maynard Auto Supply<br>- ID: 20083862            | 696 Pine St<br>Status: Voluntary Action         | ENE / 0.920 mi.<br>Date: Record Last Updated<br>12/30/2013 | 143         |

**STATE- AND TRIBAL - EQUIVALENT CERCLIS (cont.)**SHWS - VT: State Hazardous Waste sites recorded in the state **30 SITES FOUND WITHIN 1 MILE****LOWER ELEVATION (cont.)**

| <u>MAP ID</u> | <u>SITE NAME</u>                              | <u>SITE ADDRESS</u>                     | <u>DIRECTION/DISTANCE</u>                                  | <u>PAGE</u> |
|---------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------|-------------|
| H35           | Maynard Auto<br>- ID: 20002774                | 696 Pine St<br>Status: N/R              | ENE / 0.920 mi.<br>Date: Record Last Updated<br>09/04/2009 | 143         |
| F37           | Former St. Johnsbury Trucking<br>- ID: 992591 | Pine St.<br>Status: N/R                 | ENE / 0.924 mi.<br>Date: Record Last Updated<br>11/24/2015 | 145         |
| 40            | CUMBERLAND FARMS #4018<br>- ID: 982418        | 661 PINE ST<br>Status: Voluntary Action | ENE / 0.943 mi.<br>Date: Record Last Updated<br>03/28/2013 | 147         |

**OTHER ASCERTAINABLE RECORDS**CDC HAZDAT: The Agency for Toxic Substances and Disease Registry's Hazardous Substance Release/Health Effects Database. **1 SITE FOUND WITHIN 1 MILE****EQUAL/HIGHER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>  | <u>SITE ADDRESS</u>              | <u>DIRECTION/DISTANCE</u> | <u>PAGE</u> |
|---------------|-------------------|----------------------------------|---------------------------|-------------|
| 41            | PINE STREET CANAL | 44.4665759761,<br>-73.2167808864 | NE / 0.973 mi.            | 157         |

COAL GAS: Manufactured Gas Plant locations **1 SITE FOUND WITHIN 1 MILE****EQUAL/HIGHER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>  | <u>SITE ADDRESS</u> | <u>DIRECTION/DISTANCE</u> | <u>PAGE</u> |
|---------------|-------------------|---------------------|---------------------------|-------------|
| F29           | PINE STREET CANAL | PINE STREET         | ENE / 0.882 mi.           | 73          |

CONSENT (DECREEES): Legal decisions regarding responsibility for Superfund locations **1 SITE FOUND WITHIN 1 MILE****EQUAL/HIGHER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>  | <u>SITE ADDRESS</u> | <u>DIRECTION/DISTANCE</u> | <u>PAGE</u> |
|---------------|-------------------|---------------------|---------------------------|-------------|
| F29           | PINE STREET CANAL | PINE STREET         | ENE / 0.882 mi.           | 73          |

ROD: Permanent remedy at an NPL site **1 SITE FOUND WITHIN 1 MILE****EQUAL/HIGHER ELEVATION**

| <u>MAP ID</u> | <u>SITE NAME</u>  | <u>SITE ADDRESS</u> | <u>DIRECTION/DISTANCE</u> | <u>PAGE</u> |
|---------------|-------------------|---------------------|---------------------------|-------------|
| F29           | PINE STREET CANAL | PINE STREET         | ENE / 0.882 mi.           | 73          |

**Following sites were unable to be mapped.**

| <u>SITE NAME:</u>                     | <u>ADDRESS, CITY, ZIP:</u>             | <u>DATABASE(S):</u>                     |
|---------------------------------------|----------------------------------------|-----------------------------------------|
| AGWAY ENERGY PRODUCTS                 | BEARTRAP ROAD, MILTON 05401            | RCRA_LQG                                |
| BURLINGTON MUNICIPAL DISPOSAL GROUNDS | INTERVALE AVENUE, BURLINGTON 05401     | CERCLIS-HIST, FRS, SEMS_8R_ACTIVE SITES |
| Champlain College Freeman Building    | Maple Street, Burlington               | LUST - VT, UST - VT                     |
| City of Burlington North Plant        | North Ave. extension, Burlington 05401 | HIST T 2 - VT                           |
| FAIRPOINT COMMUNICATIONS MANHOLE #427 | RTE 7 SOUTH, BURLINGTON 05401          | ECHO, FRS, RCRA_NONGEN                  |
| GENERAL ELECTRIC CO                   | GUN BARREL PRODUCTIO..., BURLINGTON... | RCRA_NONGEN                             |
| GENERAL ELECTRIC CO A&ESD             | INDUSTRIAL PARKWAY, BURLINGTON 05401   | CERCLIS NFRAP, SEMS_8R_ARCHIVED SITES   |
| LAKE CHAMPLAIN TRANSPORTATION         | KING ST DOCK, BURLINGTON 05401         | MANIFEST - VT                           |
| Lakeview Cemetery                     | North Avenue, Burlington 05401         | LUST - VT, UST - VT                     |
| Lawrence Barnes School                | North Street, Burlington 05401         | UST - VT                                |



## Following sites were unable to be mapped. (cont.)

| <b><u>SITE NAME:</u></b>             | <b><u>ADDRESS, CITY, ZIP:</u></b>         | <b><u>DATABASE(S):</u></b>                              |
|--------------------------------------|-------------------------------------------|---------------------------------------------------------|
| Mccauliffe's Office Products         | Cherry Street, Burlington                 | LUST - VT, UST - VT                                     |
| MITEL SEMICONDUCTORS                 | AIR GUARD RD BL..., SOUTH BURLIN... 05401 | ECHO, FRS, RCRA_NONGEN                                  |
| New England Telephone Central Office | Farrell Street, South Burlington 05401    | UST - VT                                                |
| OFFSET HOUSE PROPERTY                | AIRPORT PARKWAY, SOUTH BURLIN... 05401    | CERCLIS NFRAP, SEMS_8R_ARCHIVED SITES                   |
| Right of Way                         | Sears Lane, Burlington                    | LUST - VT, UST - VT                                     |
| School District Bus Garage           | Patchen Road, South Burlington 05401      | UST - VT                                                |
| Seven Burlington Square              | Corner of Pine & Ban..., Burlington 05401 | UST - VT                                                |
| US Coast Guard Station               | Depot Street, Burlington 05401            | UST - VT                                                |
| VAG MINE SITE                        | EDEN/LOWELL                               | EPA OSC                                                 |
| VERMONT AIR NATIONAL GUARD           | BURLINGTON IAP, BURLINGTON 05401          | CERCLIS NFRAP, FEDERAL FACILITY, SEMS_8R_ARCHIVED SITES |
| VT AGENCY OF ENVIR CONSERVATION      | MALTEX POND PINE ST, BURLINGTON 05401     | ECHO, FRS, RCRA_NONGEN                                  |
| Vt Aot                               | Pine St, Burlington                       | SHWS - VT                                               |
| Woodbury Lumber Corp.                | Foot of King Street, Burlington 05401     | UST - VT                                                |
| YMCA                                 | COLLEGE STREET, BURLINGTON 05401          | FRS, FTTS INSP, UST - VT                                |

**DATABASE(S) WITH NO MAPPED SITES:****FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST**

|                    |                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------|
| ARCHIVED RCRA TSDF | Archived Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities |
| RCRA_TSDF          | Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities          |

**FEDERAL CERCLIS LIST**

|                        |                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------|
| CERCLIS NFRAP          | Comprehensive Environmental Response Compensation and Liability Act<br>No Further Remedial Action Planned |
| CERCLIS-HIST           | Comprehensive Environmental Response Compensation and Liability Act                                       |
| FEDERAL FACILITY       | Federal Facility sites                                                                                    |
| SEMS_8R_ACTIVE SITES   | Sites on SEMS Active Site Inventory                                                                       |
| SEMS_8R_ARCHIVED SITES | Sites on SEMS Archived Site Inventory                                                                     |

**FEDERAL DELISTED NPL SITE LIST**

|                       |                                             |
|-----------------------|---------------------------------------------|
| DELISTED NPL          | Delisted National Priority List             |
| DELISTED PROPOSED NPL | Delisted proposed National Priority List    |
| SEMS_DELETED NPL      | Sites Deleted from National Priorities List |

**FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS**

|            |                                                |
|------------|------------------------------------------------|
| EPA LF MOP | EPA Landfill Methane Outreach Project Database |
|------------|------------------------------------------------|

**FEDERAL ERNS LIST**

|      |                                        |
|------|----------------------------------------|
| ERNS | Emergency Response Notification System |
|------|----------------------------------------|

**FEDERAL NPL SITE LIST**

|                   |                                                            |
|-------------------|------------------------------------------------------------|
| NPL EPA R3 GIS    | GIS for EPA Region 3 NPL                                   |
| NPL EPA R6 GIS    | GIS for EPA Region 6 NPL                                   |
| NPL EPA R8 GIS    | GIS for EPA Region 8 NPL                                   |
| NPL EPA R9 GIS    | GIS for EPA Region 9 NPL                                   |
| PROPOSED NPL      | Proposed National Priority List                            |
| SEMS_PROPOSED NPL | Sites Proposed to be Added to the National Priorities List |

**FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

|            |                                                        |
|------------|--------------------------------------------------------|
| RCRA IC_EC | RCRA sites with Institutional and Engineering Controls |
| FED E C    | Engineering Controls                                   |
| FED I C    | Institutional Controls                                 |

**FEDERAL RCRA GENERATORS LIST**

|             |                                                                                       |
|-------------|---------------------------------------------------------------------------------------|
| RCRA_CESQG  | Resource Conservation and Recovery Act_Conditionally Exempt Small Quantity Generators |
| RCRA_LQG    | Resource Conservation and Recovery Act_Large Quantity Generators                      |
| RCRA_NONGEN | Resource Conservation and Recovery Act_Non Generators                                 |
| RCRA_SQG    | Resource Conservation and Recovery Act_Small Quantity Generators                      |

**STATE AND TRIBAL REGISTERED STORAGE TANK LISTS**

|                |                                                           |
|----------------|-----------------------------------------------------------|
| FEMA UST       | FEMA Underground Storage Tanks                            |
| INDIAN UST R1  | Underground Storage Tanks on Indian Land in EPA Region 1  |
| INDIAN UST R10 | Underground Storage Tanks on Indian Land in EPA Region 10 |
| INDIAN UST R2  | Underground Storage Tanks on Indian Land in EPA Region 2  |
| INDIAN UST R4  | Underground Storage Tanks on Indian Land in EPA Region 4  |
| INDIAN UST R5  | Underground Storage Tanks on Indian Land in EPA Region 5  |
| INDIAN UST R6  | Underground Storage Tanks on Indian Land in EPA Region 6  |
| INDIAN UST R7  | Underground Storage Tanks on Indian Land in EPA Region 7  |
| INDIAN UST R8  | Underground Storage Tanks on Indian Land in EPA Region 8  |
| INDIAN UST R9  | Underground Storage Tanks on Indian Land in EPA Region 9  |

**STATE AND TRIBAL LEAKING STORAGE TANK LISTS**

|                 |                                                                   |
|-----------------|-------------------------------------------------------------------|
| INDIAN LUST R1  | Leaking Underground Storage Tanks on Indian Land in EPA Region 1  |
| INDIAN LUST R10 | Leaking Underground Storage Tanks on Indian Land in EPA Region 10 |
| INDIAN LUST R2  | Leaking Underground Storage Tanks on Indian Land in EPA Region 2  |
| INDIAN LUST R4  | Leaking Underground Storage Tanks on Indian Land in EPA Region 4  |
| INDIAN LUST R5  | Leaking Underground Storage Tanks on Indian Land in EPA Region 5  |
| INDIAN LUST R6  | Leaking Underground Storage Tanks on Indian Land in EPA Region 6  |
| INDIAN LUST R7  | Leaking Underground Storage Tanks on Indian Land in EPA Region 7  |
| INDIAN LUST R8  | Leaking Underground Storage Tanks on Indian Land in EPA Region 8  |
| INDIAN LUST R9  | Leaking Underground Storage Tanks on Indian Land in EPA Region 9  |
| LUST - VT       | Leaking Underground Storage Tanks                                 |

**STATE BROWNFIELD LIST**

|                    |                    |
|--------------------|--------------------|
| TRIBAL BROWNFIELDS | Tribal Brownfields |
| BROWNFIELDS - VT   | Brownfield         |

**STATE RCRA GENERATORS LIST**

|          |                                  |
|----------|----------------------------------|
| HWG - VT | State Hazardous Waste Generators |
|----------|----------------------------------|

**STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

|          |                        |
|----------|------------------------|
| I C - VT | Institutional Controls |
|----------|------------------------|

**STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS**

|             |                                      |
|-------------|--------------------------------------|
| SWF/LF - VT | Solid Waste Facilities and Landfills |
|-------------|--------------------------------------|

**LOCAL BROWNFIELD LISTS**

|                   |                       |
|-------------------|-----------------------|
| BROWNFIELDS-ACRES | EPA ACRES Brownfields |
| FED BROWNFIELDS   | Federal Brownfields   |

**LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES**

|             |                                  |
|-------------|----------------------------------|
| FED CDL     | DOJ Clandestine Drug Labs        |
| US HIST CDL | Historical Clandestine Drug Labs |

**LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES**

|                    |                                  |
|--------------------|----------------------------------|
| HIST INDIAN ODI R8 | Historical Open Dump Inventory   |
| INDIAN ODI R8      | Open Dump Inventory              |
| ODI                | Open Dump Inventory              |
| TRIBAL ODI         | Indian Open Dump Inventory Sites |
| SWRCY - VT         | Solid Waste Recycling            |

**RECORDS OF EMERGENCY RELEASE REPORTS**

|             |                                                   |
|-------------|---------------------------------------------------|
| HMIRS (DOT) | Hazardous Materials Information Reporting Systems |
|-------------|---------------------------------------------------|

**RECORDS OF EMERGENCY RELEASE REPORTS (cont.)**

|                  |                  |
|------------------|------------------|
| HIST SPILLS - VT | Historical Spill |
| SPILLS - VT      | Spills           |

**LOCAL LAND RECORDS**

|         |                         |
|---------|-------------------------|
| LIENS 2 | CERCLA Lien Information |
|---------|-------------------------|

**OTHER ASCERTAINABLE RECORDS**

|                    |                                                        |
|--------------------|--------------------------------------------------------|
| AFS                | Air Facility Systems                                   |
| BRS                | Biennial Reporting Systems                             |
| COAL ASH DOE       | Coal Ash: Department of Energy                         |
| COAL ASH EPA       | Coal Ash: Environmental Protection Agency              |
| DEBRIS R5 LF       | Disaster Debris Landfill Data                          |
| DEBRIS R5 SWRCY    | Disaster Debris Recovery Data                          |
| DOD                | Department of Defense                                  |
| DOT OPS            | Department of Transportation Office of Pipeline Safety |
| ECHO               | EPA Enforcement and Compliance History Online          |
| ENOI               | Electronic Notice of Intent                            |
| EPA FUELS          | EPA Fuels Registration, Reporting, and Compliance List |
| EPA OSC            | EPA On-Site Coordinator                                |
| EPA WATCH          | EPA Watch List                                         |
| FA HWF             | Financial Assurance for Hazardous Waste Facilities     |
| FEDLAND            | Federal Lands                                          |
| FRS                | Facility Index Systems                                 |
| FTTS               | FIFRA/TSCA Tracking System                             |
| FTTS INSP          | FIFRA/TSCA Tracking System: Inspections                |
| FUDS               | Formerly Used Defense Sites                            |
| HIST AFS           | Historical Air Facility Systems                        |
| HIST DOD           | Department of Defense historical sites                 |
| HIST LEAD_SMELTER  | Historical Lead Smelter Sites                          |
| HIST MLTS          | Historical Material Licensing Tracking Systems         |
| HIST PCB TRANS     | Historical Polychlorinated Biphenyl (PCB) Facilities   |
| HIST SSTS          | Historical Section 7 Tracking Systems                  |
| HWC DOCKET         | Hazardous Waste Compliance Docket                      |
| ICIS               | Integrated Compliance Information System               |
| INACTIVE PCS       | Inactive Permit Compliance Facilities                  |
| INDIAN RESERVATION | Indian Reservations                                    |
| LEAD_SMELTER       | Lead Smelter Sites                                     |
| LUCIS              | Land Use Control Information Systems                   |
| LUCIS 2            | Land Use Control Information Systems 2                 |
| MINES              | Mines                                                  |
| MLTS               | Material Licensing Tracking Systems                    |
| NPL AOC            | Areas related to NPL remediation sites                 |
| NPL LIENS          | National Priority List Liens                           |
| OSHA               | Occupational Safety & Health Administration            |
| PADS               | PCB Activity Database Systems                          |
| PCB TRANSFORMER    | Polychlorinated Biphenyl (PCB) Waste                   |
| PCS ENF            | Enforced Permit Compliance Facilities                  |
| PCS FACILITY       | Permit Compliance Facilities                           |
| RAATS              | RCRA Administrative Action Tracking Systems            |
| RADINFO            | Radiation Information Systems                          |
| RMP                | Risk Management Plans                                  |
| SCRD DRYCLEANERS   | SCRD Drycleaners                                       |
| SEMS_SMELTER       | Sites on SEMS Potential Smelter Activity               |
| SSTS               | Section 7 Tracking Systems                             |
| STORMWATER         | Storm Water Permits                                    |
| TOSCA-PLANT        | Toxic Substance Control Act: Plants                    |
| TRIS               | Toxic Release Inventory Systems                        |
| UMTRA              | Uranium Mill Tailing Sites                             |

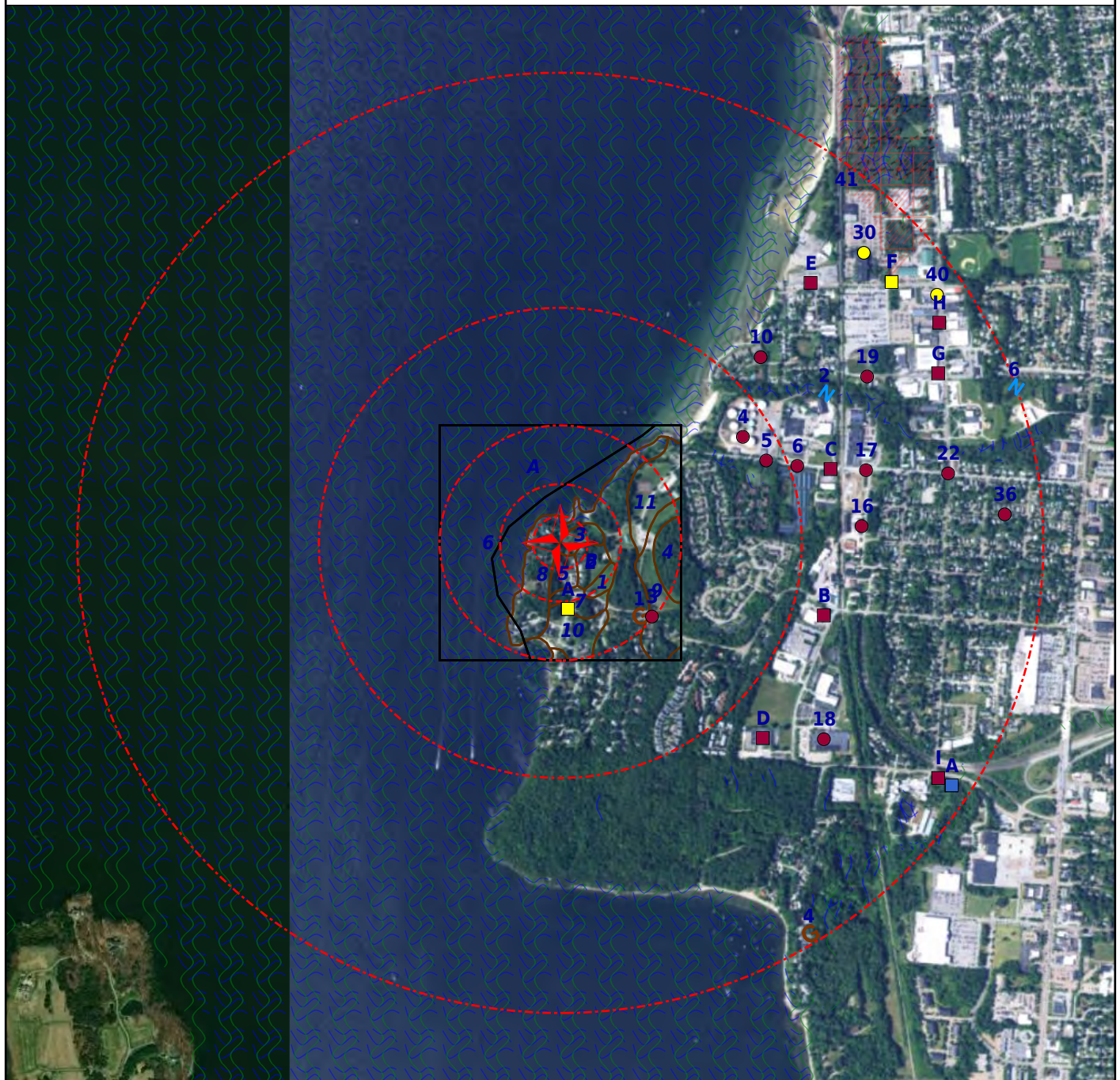
**OTHER ASCERTAINABLE RECORDS (cont.)**

|                         |                                                 |
|-------------------------|-------------------------------------------------|
| CORRECTIVE ACTIONS_2020 | Wastes - Hazardous Waste - Corrective Action    |
| AIRS - VT               | Air Permits                                     |
| DAYCARE - VT            | Day Care Facilities                             |
| DRYCLEANERS - VT        | Drycleaners                                     |
| DRYCLEANERS 2 - VT      | Drycleaners 2                                   |
| HIST T 2 - VT           | Historical Tier 2                               |
| MANIFEST - VT           | Hazardous Waste Manifest                        |
| NPDES - VT              | National Pollutant Discharge Elimination System |
| T 2 - VT                | Tier 2                                          |
| UIC - VT                | Underground Injection Controls                  |



SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: December 05, 2018

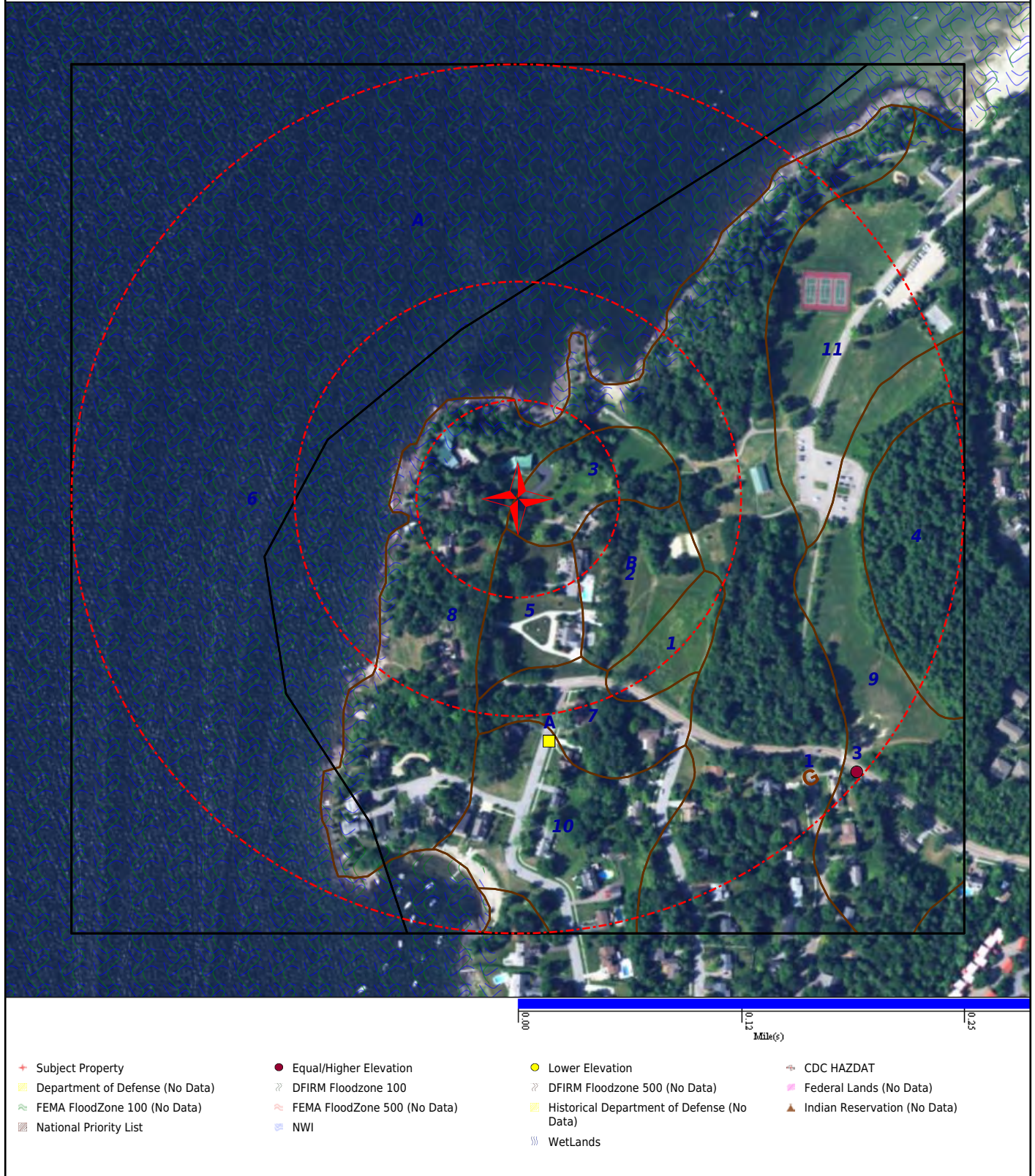


- |                                                                                                                                                                                   |                                                                                                                                                          |                                                                                                                                                                                |                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Subject Property</li> <li>Department of Defense (No Data)</li> <li>FEMA FloodZone 100 (No Data)</li> <li>National Priority List</li> </ul> | <ul style="list-style-type: none"> <li>Equal/Higher Elevation</li> <li>DFIRM Floodzone 100</li> <li>FEMA FloodZone 500 (No Data)</li> <li>NWI</li> </ul> | <ul style="list-style-type: none"> <li>Lower Elevation</li> <li>DFIRM Floodzone 500 (No Data)</li> <li>Historical Department of Defense (No Data)</li> <li>WetLands</li> </ul> | <ul style="list-style-type: none"> <li>CDC HAZDAT</li> <li>Federal Lands (No Data)</li> <li>Indian Reservation (No Data)</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|



SUBJECT NAME: Wisener Property  
ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
ORDER #: 25609  
REPORT DATE: December 05, 2018



| <u>DATABASE</u>                                                         | <u>SUBJECT<br/>PROPERTY</u> | <u>SEARCH<br/>DISTANCE<br/>(MILES)</u> | <u>&lt;1/8</u> | <u>1/8 - 1/4</u> | <u>1/4 - 1/2</u> | <u>1/2 - 1</u> | <u>&gt;1</u> | <u>TOTAL<br/>MAPPED</u> |
|-------------------------------------------------------------------------|-----------------------------|----------------------------------------|----------------|------------------|------------------|----------------|--------------|-------------------------|
| <b>FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST</b>                    |                             |                                        |                |                  |                  |                |              |                         |
| ARCHIVED RCRA TSDF                                                      |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |
| RCRA_TSDF                                                               |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |
| <b>FEDERAL CERCLIS LIST</b>                                             |                             |                                        |                |                  |                  |                |              |                         |
| CERCLIS NFRAP                                                           |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |
| CERCLIS-HIST                                                            |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |
| FEDERAL FACILITY                                                        |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| SEMS_8R_ACTIVE SITES                                                    |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |
| SEMS_8R_ARCHIVED SITES                                                  |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |
| <b>FEDERAL RCRA CORRACTS FACILITIES LIST</b>                            |                             |                                        |                |                  |                  |                |              |                         |
| CORRACTS                                                                |                             | 1.000                                  | 0              | 0                | 0                | 1              | --           | 1                       |
| <b>FEDERAL DELISTED NPL SITE LIST</b>                                   |                             |                                        |                |                  |                  |                |              |                         |
| DELISTED NPL                                                            |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| DELISTED PROPOSED NPL                                                   |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| SEMS_DELETED NPL                                                        |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| <b>FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS</b>          |                             |                                        |                |                  |                  |                |              |                         |
| EPA LF MOP                                                              |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |
| <b>FEDERAL ERNS LIST</b>                                                |                             |                                        |                |                  |                  |                |              |                         |
| ERNS                                                                    |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| <b>FEDERAL NPL SITE LIST</b>                                            |                             |                                        |                |                  |                  |                |              |                         |
| NPL                                                                     |                             | 1.000                                  | 0              | 0                | 0                | 1              | --           | 1                       |
| NPL EPA R1 GIS                                                          |                             | 1.000                                  | 0              | 0                | 0                | 1              | --           | 1                       |
| NPL EPA R3 GIS                                                          |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| NPL EPA R6 GIS                                                          |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| NPL EPA R8 GIS                                                          |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| NPL EPA R9 GIS                                                          |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| PART NPL                                                                |                             | 1.000                                  | 0              | 0                | 0                | 2              | --           | 2                       |
| PROPOSED NPL                                                            |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| SEMS_FINAL NPL                                                          |                             | 1.000                                  | 0              | 0                | 0                | 1              | --           | 1                       |
| SEMS_PROPOSED NPL                                                       |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| <b>FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES</b> |                             |                                        |                |                  |                  |                |              |                         |
| RCRA IC_EC                                                              |                             | 0.250                                  | 0              | 0                | --               | --             | --           | 0                       |
| FED E C                                                                 |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |
| FED I C                                                                 |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |

| <u>DATABASE</u> | <u>SUBJECT<br/>PROPERTY</u> | <u>SEARCH<br/>DISTANCE<br/>(MILES)</u> | <u>&lt;1/8</u> | <u>1/8 - 1/4</u> | <u>1/4 - 1/2</u> | <u>1/2 - 1</u> | <u>&gt;1</u> | <u>TOTAL<br/>MAPPED</u> |
|-----------------|-----------------------------|----------------------------------------|----------------|------------------|------------------|----------------|--------------|-------------------------|
|-----------------|-----------------------------|----------------------------------------|----------------|------------------|------------------|----------------|--------------|-------------------------|

**FEDERAL RCRA GENERATORS LIST**

|             |  |       |   |   |    |    |    |   |
|-------------|--|-------|---|---|----|----|----|---|
| RCRA_CESQG  |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| RCRA_LQG    |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| RCRA_NONGEN |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| RCRA_SQG    |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |

**STATE AND TRIBAL REGISTERED STORAGE TANK LISTS**

|                |  |       |   |   |    |    |    |   |
|----------------|--|-------|---|---|----|----|----|---|
| FEMA UST       |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| INDIAN UST R1  |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| INDIAN UST R10 |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| INDIAN UST R2  |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| INDIAN UST R4  |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| INDIAN UST R5  |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| INDIAN UST R6  |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| INDIAN UST R7  |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| INDIAN UST R8  |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| INDIAN UST R9  |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
| AST - VT       |  | 0.250 | 0 | 1 | -- | -- | -- | 1 |
| UST - VT       |  | 0.250 | 0 | 2 | -- | -- | -- | 2 |

**STATE AND TRIBAL LEAKING STORAGE TANK LISTS**

|                 |  |       |   |   |   |    |    |   |
|-----------------|--|-------|---|---|---|----|----|---|
| INDIAN LUST R1  |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| INDIAN LUST R10 |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| INDIAN LUST R2  |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| INDIAN LUST R4  |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| INDIAN LUST R5  |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| INDIAN LUST R6  |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| INDIAN LUST R7  |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| INDIAN LUST R8  |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| INDIAN LUST R9  |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| LAST - VT       |  | 0.500 | 0 | 0 | 1 | -- | -- | 1 |
| LUST - VT       |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |

**STATE BROWNFIELD LIST**

|                    |  |       |   |   |   |    |    |   |
|--------------------|--|-------|---|---|---|----|----|---|
| TRIBAL BROWNFIELDS |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| BROWNFIELDS - VT   |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |

**STATE- AND TRIBAL - EQUIVALENT CERCLIS**

|                |  |       |   |   |   |   |    |   |
|----------------|--|-------|---|---|---|---|----|---|
| HIST SHWS - VT |  | 1.000 | 0 | 0 | 0 | 2 | -- | 2 |
|----------------|--|-------|---|---|---|---|----|---|



| <u>DATABASE</u> | <u>SUBJECT<br/>PROPERTY</u> | <u>SEARCH<br/>DISTANCE<br/>(MILES)</u> | <u>&lt;1/8</u> | <u>1/8 - 1/4</u> | <u>1/4 - 1/2</u> | <u>1/2 - 1</u> | <u>&gt;1</u> | <u>TOTAL<br/>MAPPED</u> |
|-----------------|-----------------------------|----------------------------------------|----------------|------------------|------------------|----------------|--------------|-------------------------|
|-----------------|-----------------------------|----------------------------------------|----------------|------------------|------------------|----------------|--------------|-------------------------|

**STATE- AND TRIBAL - EQUIVALENT CERCLIS (cont.)**

|           |  |       |   |   |   |    |    |    |
|-----------|--|-------|---|---|---|----|----|----|
| SHWS - VT |  | 1.000 | 0 | 0 | 1 | 29 | -- | 30 |
|-----------|--|-------|---|---|---|----|----|----|

**STATE RCRA GENERATORS LIST**

|          |  |       |   |   |    |    |    |   |
|----------|--|-------|---|---|----|----|----|---|
| HWG - VT |  | 0.250 | 0 | 0 | -- | -- | -- | 0 |
|----------|--|-------|---|---|----|----|----|---|

**STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

|          |  |       |   |   |   |    |    |   |
|----------|--|-------|---|---|---|----|----|---|
| I C - VT |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
|----------|--|-------|---|---|---|----|----|---|

**STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS**

|             |  |       |   |   |   |    |    |   |
|-------------|--|-------|---|---|---|----|----|---|
| SWF/LF - VT |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
|-------------|--|-------|---|---|---|----|----|---|

**LOCAL BROWNFIELD LISTS**

|                   |  |       |   |   |   |    |    |   |
|-------------------|--|-------|---|---|---|----|----|---|
| BROWNFIELDS-ACRES |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| FED BROWNFIELDS   |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |

**LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES**

|             |  |    |   |    |    |    |    |   |
|-------------|--|----|---|----|----|----|----|---|
| FED CDL     |  | SP | 0 | -- | -- | -- | -- | 0 |
| US HIST CDL |  | SP | 0 | -- | -- | -- | -- | 0 |

**LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES**

|                    |  |       |   |   |   |    |    |   |
|--------------------|--|-------|---|---|---|----|----|---|
| HIST INDIAN ODI R8 |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| INDIAN ODI R8      |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| ODI                |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| TRIBAL ODI         |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |
| SWRCY - VT         |  | 0.500 | 0 | 0 | 0 | -- | -- | 0 |

**RECORDS OF EMERGENCY RELEASE REPORTS**

|                  |  |       |   |    |    |    |    |   |
|------------------|--|-------|---|----|----|----|----|---|
| HMIRS (DOT)      |  | SP    | 0 | -- | -- | -- | -- | 0 |
| HIST SPILLS - VT |  | 0.125 | 0 | -- | -- | -- | -- | 0 |
| SPILLS - VT      |  | 0.125 | 0 | -- | -- | -- | -- | 0 |

**LOCAL LAND RECORDS**

|         |  |    |   |    |    |    |    |   |
|---------|--|----|---|----|----|----|----|---|
| LIENS 2 |  | SP | 0 | -- | -- | -- | -- | 0 |
|---------|--|----|---|----|----|----|----|---|

**OTHER ASCERTAINABLE RECORDS**

|              |  |       |   |    |    |    |    |   |
|--------------|--|-------|---|----|----|----|----|---|
| AFS          |  | SP    | 0 | -- | -- | -- | -- | 0 |
| BRS          |  | SP    | 0 | -- | -- | -- | -- | 0 |
| CDC HAZDAT   |  | 1.000 | 0 | 0  | 0  | 1  | -- | 1 |
| COAL ASH DOE |  | 0.500 | 0 | 0  | 0  | -- | -- | 0 |
| COAL ASH EPA |  | 0.500 | 0 | 0  | 0  | -- | -- | 0 |
| COAL GAS     |  | 1.000 | 0 | 0  | 0  | 1  | -- | 1 |

| <u>DATABASE</u>                            | <u>SUBJECT<br/>PROPERTY</u> | <u>SEARCH<br/>DISTANCE<br/>(MILES)</u> | <u>&lt;1/8</u> | <u>1/8 - 1/4</u> | <u>1/4 - 1/2</u> | <u>1/2 - 1</u> | <u>&gt;1</u> | <u>TOTAL<br/>MAPPED</u> |
|--------------------------------------------|-----------------------------|----------------------------------------|----------------|------------------|------------------|----------------|--------------|-------------------------|
| <b>OTHER ASCERTAINABLE RECORDS (cont.)</b> |                             |                                        |                |                  |                  |                |              |                         |
| CONSENT (DECREEES)                         |                             | 1.000                                  | 0              | 0                | 0                | 1              | --           | 1                       |
| DEBRIS R5 LF                               |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |
| DEBRIS R5 SWRCY                            |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |
| DOD                                        |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| DOT OPS                                    |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| ECHO                                       |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| ENOI                                       |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| EPA FUELS                                  |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| EPA OSC                                    |                             | 0.125                                  | 0              | --               | --               | --             | --           | 0                       |
| EPA WATCH                                  |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| FA HWF                                     |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| FEDLAND                                    |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| FRS                                        |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| FTTS                                       |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| FTTS INSP                                  |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| FUDS                                       |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| HIST AFS                                   |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| HIST DOD                                   |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| HIST LEAD_SMELTER                          |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| HIST MLTS                                  |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| HIST PCB TRANS                             |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| HIST SSTS                                  |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| HWC DOCKET                                 |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| ICIS                                       |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| INACTIVE PCS                               |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| INDIAN RESERVATION                         |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| LEAD_SMELTER                               |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| LUCIS                                      |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |
| LUCIS 2                                    |                             | 0.500                                  | 0              | 0                | 0                | --             | --           | 0                       |
| MINES                                      |                             | 0.250                                  | 0              | 0                | --               | --             | --           | 0                       |
| MLTS                                       |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| NPL AOC                                    |                             | 1.000                                  | 0              | 0                | 0                | 0              | --           | 0                       |
| NPL LIENS                                  |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| OSHA                                       |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| PADS                                       |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |
| PCB TRANSFORMER                            |                             | SP                                     | 0              | --               | --               | --             | --           | 0                       |

| <u>DATABASE</u> | <u>SUBJECT<br/>PROPERTY</u> | <u>SEARCH<br/>DISTANCE<br/>(MILES)</u> | <u>&lt;1/8</u> | <u>1/8 - 1/4</u> | <u>1/4 - 1/2</u> | <u>1/2 - 1</u> | <u>&gt;1</u> | <u>TOTAL<br/>MAPPED</u> |
|-----------------|-----------------------------|----------------------------------------|----------------|------------------|------------------|----------------|--------------|-------------------------|
|-----------------|-----------------------------|----------------------------------------|----------------|------------------|------------------|----------------|--------------|-------------------------|

**OTHER ASCERTAINABLE RECORDS (cont.)**

|                         |  |       |   |    |    |    |    |   |
|-------------------------|--|-------|---|----|----|----|----|---|
| PCS ENF                 |  | SP    | 0 | -- | -- | -- | -- | 0 |
| PCS FACILITY            |  | SP    | 0 | -- | -- | -- | -- | 0 |
| RAATS                   |  | SP    | 0 | -- | -- | -- | -- | 0 |
| RADINFO                 |  | SP    | 0 | -- | -- | -- | -- | 0 |
| RMP                     |  | 0.500 | 0 | 0  | 0  | -- | -- | 0 |
| ROD                     |  | 1.000 | 0 | 0  | 0  | 1  | -- | 1 |
| SCRD DRYCLEANERS        |  | 0.250 | 0 | 0  | -- | -- | -- | 0 |
| SEMS_SMELTER            |  | SP    | 0 | -- | -- | -- | -- | 0 |
| SSTS                    |  | SP    | 0 | -- | -- | -- | -- | 0 |
| STORMWATER              |  | SP    | 0 | -- | -- | -- | -- | 0 |
| TOSCA-PLANT             |  | SP    | 0 | -- | -- | -- | -- | 0 |
| TRIS                    |  | SP    | 0 | -- | -- | -- | -- | 0 |
| UMTRA                   |  | 0.500 | 0 | 0  | 0  | -- | -- | 0 |
| CORRECTIVE ACTIONS_2020 |  | 0.500 | 0 | 0  | 0  | -- | -- | 0 |
| AIRS - VT               |  | SP    | 0 | -- | -- | -- | -- | 0 |
| DAYCARE - VT            |  | SP    | 0 | -- | -- | -- | -- | 0 |
| DRYCLEANERS - VT        |  | 0.250 | 0 | 0  | -- | -- | -- | 0 |
| DRYCLEANERS 2 - VT      |  | 0.250 | 0 | 0  | -- | -- | -- | 0 |
| HIST T 2 - VT           |  | 0.250 | 0 | 0  | -- | -- | -- | 0 |
| MANIFEST - VT           |  | 0.250 | 0 | 0  | -- | -- | -- | 0 |
| NPDES - VT              |  | SP    | 0 | -- | -- | -- | -- | 0 |
| T 2 - VT                |  | 0.250 | 0 | 0  | -- | -- | -- | 0 |
| UIC - VT                |  | SP    | 0 | -- | -- | -- | -- | 0 |

Map Id: A1  
 Direction: SSE  
 Distance: 0.135 mi.  
 Actual: 714.605 ft.  
 Elevation: 0.022 mi. / 114.068 ft.  
 Relative: Lower

**Site Name :** RESIDENCE  
 20 SOUTH COVE ROAD  
 BURLINGTON, VT  
**Database(s) :** [UST - VT]

**Envirosite ID:** 22490940  
**EPA ID:** N/R

## UST - VT

Facility Name : Residence  
 Facility Address : 20 South Cove Road, Burlington, VT  
 County : Chittenden

### Site Details

Facility ID : 5550491  
 Facility Status : ACTIVE  
 Facility Phone : N/R  
 Permitted to : N/R  
 Owner Name : N/R  
 Owner Person : N/R  
 Owner Address : N/R  
 Owner Phone : N/R  
 Operator Name : N/R  
 Operator Person : N/R  
 Operator Address : N/R  
 Operator Phone : N/R  
 Land Owner : N/R  
 Type of Facility : Residential  
 Permit Expires : N/R  
 Fee Status : N/R  
 Receipt : N/R  
 Tanks Pulled : N/R  
 Removed : N/R  
 GWM Wells : N/R  
 Vapor Monitoring Points : N/R  
 Site Condition : N/R  
 Sites Number : N/R  
 Pin : N/R  
 Latitude : N/R  
 Longitude : N/R  
 Last Date in Agency List : 05/04/2018

### Tank Details

Tank ID : N/R  
 Tank Status : N/R  
 Tank Ext : N/R  
 COT : N/R  
 OOS : N/R  
 Year Removed : N/R  
 Capacity : N/R  
 Protection : N/R  
 CP Tested : N/R  
 Monitor 1 : N/R  
 Monitor 2 : N/R  
 Condition : N/R  
 Date Ref : N/R

### Compartment

Compartment ID : N/R  
 Compartment Ext : N/R



Map Id: A1  
 Direction: SSE  
 Distance: 0.135 mi.  
 Actual: 714.605 ft.  
 Elevation: 0.022 mi. / 114.068 ft.  
 Relative: Lower

**Site Name :** RESIDENCE  
 20 SOUTH COVE ROAD  
 BURLINGTON, VT  
**Database(s) :** [UST - VT] (**cont.**)

**Envirosite ID:** 22490940  
**EPA ID:** N/R

## UST - VT (**cont.**)

Substance : N/R  
 Spill : N/R  
 Overkill : N/R

## Pipes

Piping ID : N/R  
 Sequence : N/R  
 Type : N/R  
 Protection Type : N/R  
 Installed : N/R  
 CP Tested : N/R  
 Monitor 1 : N/R  
 Monitor 1 Tested Date : N/R  
 Monitor 2 : N/R  
 Monitor 2 Tested Date : N/R  
 Pump Type : N/R

Map Id: A2  
 Direction: S  
 Distance: 0.145 mi.  
 Actual: 766.863 ft.  
 Elevation: 0.021 mi. / 112.051 ft.  
 Relative: Lower

**Site Name :** Montstream Residence  
 20 South Cove Road  
 Burlington, VT 05401  
**Database(s) :** [HIST SPILLS - VT, UST - VT]

**Envirosite ID:** 1123507  
**EPA ID:** N/R

## HIST SPILLS - VT

Facility Name : Montstream Residence  
 Facility Address : 20 South Cove Road, Burlington

## Site Details

Date Reported : 05/11/2015  
 Date Closed : 07/06/2015  
 Spill Number : 2015 WMD226  
 Report Number : WMD226  
 Nature of Incident : Heating Oil UST leak  
 Responsible Party : James Monstream and Michael Schiele  
 Product Released : #2 Fuel Oil  
 Quantity : unk --  
 Unit : --  
 Spill Manager : Tim Cropley  
 Comments : 2,000-gal UST closure. Isolated soil contamination.

Actions Taken : PCS found at 6.5-11ft bgs. REA excavated laterally and removed all PCS down to 1-2ppm in all directions. Collected sample at extent of excavation for 8021B and TPH-DRO. Sample ND for all target analytes. 15-20 cu yds PCS removed and disposed of at ESMI. Municipal water & sewer. Work complete.

Map Id: A2  
 Direction: S  
 Distance: 0.145 mi.  
 Actual: 766.863 ft.  
 Elevation: 0.021 mi. / 112.051 ft.  
 Relative: Lower

**Site Name :** Montstream Residence  
 20 South Cove Road  
 Burlington, VT 05401

**Database(s) :** [HIST SPILLS - VT, UST - VT] **(cont.)**

**Envirosite ID:** 1123507  
**EPA ID:** N/R

## HIST SPILLS - VT **(cont.)**

DEC Contact Email Address : Tim.Cropley@vermont.gov  
 Direct URL : [Click here for hyperlink provided by the agency.](#)  
 Last Date in Agency List : 09/05/2018

## UST - VT

Facility Name : Montstream Residence  
 Facility Address : 20 South Cove Road, Burlington, VT 05401  
 County : Chittenden

## Site Details

Facility ID : 1414  
 Facility Status : PULLED  
 Facility Phone : N/R  
 Permitted to : N/R  
 Owner Name : James Monstream and Michael Schiele  
 Owner Person : N/R  
 Owner Address : 20 South Cove Road, Burlington, VT 05401  
 Owner Phone : N/R  
 Operator Name : James Monstream and Michael Schiele  
 Operator Person : N/R  
 Operator Address : 20 South Cove Road, Burlington, VT 05401  
 Operator Phone : N/R  
 Land Owner : N/R  
 Type of Facility : Residential  
 Permit Expires : N/R  
 Fee Status : N/R  
 Receipt : N/R  
 Tanks Pulled : 1  
 Removed : 1  
 GWM Wells : N/R  
 Vapor Monitoring Points : N/R  
 Site Condition : Contamination found  
 Sites Number : 2015  
 Pin : N/R  
 Latitude : N/R  
 Longitude : N/R  
 Last Date in Agency List : 09/21/2018

## Tank Details

Tank ID : 10791  
 Tank Status : PULLED  
 Tank Ext : 1976-1-r  
 COT : N  
 OOS : N/R  
 Year Removed : 2015  
 Capacity : 2000  
 Protection : Unprotected Steel  
 CP Tested : N/R  
 Monitor 1 : N/R  
 Monitor 2 : N/R  
 Condition : POOR  
 Date Ref : 06/01/2015

Map Id: A2  
 Direction: S  
 Distance: 0.145 mi.  
 Actual: 766.863 ft.  
 Elevation: 0.021 mi. / 112.051 ft.  
 Relative: Lower

**Site Name :** Montstream Residence  
 20 South Cove Road  
 Burlington, VT 05401

**Database(s) :** [HIST SPILLS - VT, UST - VT] **(cont.)**

**EnviroSite ID:** 1123507  
**EPA ID:** N/R

## UST - VT **(cont.)**

### Compartment

Compartment ID : 10835  
 Compartment Ext : A  
 Substance : Fuel Oil #2 or #4  
 Spill : N/R  
 Overkill : N/R

### Pipes

Piping ID : 10835  
 Sequence : 1  
 Type : DEFAULT  
 Protection Type : Unprotected steel  
 Installed : 1976  
 CP Tested : N/R  
 Monitor 1 : N/R  
 Monitor 1 Tested Date : N/R  
 Monitor 2 : N/R  
 Monitor 2 Tested Date : N/R  
 Pump Type : N/R

Map Id: 3  
 Direction: ESE  
 Distance: 0.246 mi.  
 Actual: 1300.866 ft.  
 Elevation: 0.028 mi. / 145.456 ft.  
 Relative: Higher

**Site Name :** SHAPIRO (HOWARD) RESIDENCE  
 219 AUSTIN DRIVE  
 BURLINGTON, VT 05401

**Database(s) :** [AST - VT]

**EnviroSite ID:** 334103502  
**EPA ID:** N/R

## AST - VT

Facility Name : SHAPIRO (HOWARD) RESIDENCE  
 Facility Address : 219 AUSTIN DRIVE, BURLINGTON, VT 05401

### Site Details

Structure ID : 37856  
 Tank Work Item ID : 59376  
 Tank State Number : 2402  
 Tank Serial Number : 356975  
 Work : 1) 500 GAL AG LP GAS TANK  
 Gallons : 500  
 Location : N/R

Map Id: 4  
 Direction: ENE  
 Distance: 0.441 mi.  
 Actual: 2327.036 ft.  
 Elevation: 0.023 mi. / 120.016 ft.  
 Relative: Higher

**Site Name :** Mobil Terminal  
 Flynn Ave  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1116562  
**EPA ID:** N/R

## SHWS - VT

|                             |                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Facility Name :             | Mobil Terminal                                                                                                                                   |
| Facility Address :          | Flynn Ave, Burlington                                                                                                                            |
| County :                    | Chittenden                                                                                                                                       |
| Discovery Date :            | 11/01/1987                                                                                                                                       |
| Closure Date :              | N/R                                                                                                                                              |
| Site Number :               | 870175                                                                                                                                           |
| Site Use :                  | Government                                                                                                                                       |
| Priority :                  | LOW - Site with contamination to soils or groundwater, but no effect on sensitive receptors                                                      |
| Site Status :               | N/R                                                                                                                                              |
| Project Status :            | Corrective Action Complete. Contaminated soils require treatment and disposal. Ongoing monitoring of low level contaminated groundwater ongoing. |
| Source of Contamination :   | Above Ground Storage Tank, UST-Gasoline                                                                                                          |
| Contaminant :               | Gasoline                                                                                                                                         |
| Institutional Control :     | Land Record Notice                                                                                                                               |
| Site Closure Date :         | N/R                                                                                                                                              |
| Record Last Updated :       | 07/25/2012                                                                                                                                       |
| DEC Manager :               | Richard Spiese                                                                                                                                   |
| DEC Staff Person :          | Richard Spiese                                                                                                                                   |
| DEC Contact Email Address : | Richard.Spiese@vermont.gov                                                                                                                       |
| Latitude :                  | 44.4565725324                                                                                                                                    |
| Longitude :                 | -73.2227121933                                                                                                                                   |

Map Id: 5  
 Direction: ENE  
 Distance: 0.461 mi.  
 Actual: 2435.178 ft.  
 Elevation: 0.023 mi. / 123.041 ft.  
 Relative: Higher

**Site Name :** Exxon/Mobil Terminal  
 2 Flynn Ave  
 Burlington, VT  
**Database(s) :** [HIST SPILLS - VT, LAST - VT]

**Envirosite ID:** 9355624  
**EPA ID:** N/R

## HIST SPILLS - VT

|                    |                         |
|--------------------|-------------------------|
| Facility Name :    | Exxon/Mobil Terminal    |
| Facility Address : | 2 Flynn Ave, Burlington |

### Site Details

|                      |             |
|----------------------|-------------|
| Date Reported :      | 07/30/2005  |
| Date Closed :        | 08/01/2005  |
| Spill Number :       | 2005 WMD274 |
| Report Number :      | WMD274      |
| Nature of Incident : | AST release |
| Responsible Party :  | Exxon/Mobil |
| Product Released :   | Gasoline    |



Map Id: 5  
 Direction: ENE  
 Distance: 0.461 mi.  
 Actual: 2435.178 ft.  
 Elevation: 0.023 mi. / 123.041 ft.  
 Relative: Higher

**Site Name :** Exxon/Mobil Terminal  
 2 Flynn Ave  
 Burlington, VT

**Database(s) :** [HIST SPILLS - VT, LAST - VT] **(cont.)**

**Envirosite ID:** 9355624  
**EPA ID:** N/R

## HIST SPILLS - VT **(cont.)**

Quantity : 25 Gallons  
 Unit : Gallons  
 Spill Manager : Bob Haslam  
 Comments : N/R  
 Actions Taken : Spill to diked area. Terminal personnel contained and picked up.  
 DEC Contact Email Address : Bob.Haslam@vermont.gov  
 Direct URL : [Click here for hyperlink provided by the agency.](#)  
 Last Date in Agency List : 09/05/2018

## LAST - VT

Facility Name : Exxon/Mobil Terminal  
 Facility Address : 2 Flynn Ave, Burlington

### Site Details

Date Reported : 07/30/2005  
 Date Closed : 08/01/2005  
 Spill Number : 2005 WMD274  
 Report Number : WMD274  
 Nature of Incident : AST release  
 Responsible Party : Exxon/Mobil  
 Product Released : Gasoline  
 Quantity : 25 Gallons  
 Unit : Gallons  
 Spill Manager : Bob Haslam  
 Comments : N/R  
 Actions Taken : Spill to diked area. Terminal personnel contained and picked up.  
 DEC Contact Email Address : Bob.Haslam@vermont.gov  
 Direct URL : [Click here for hyperlink provided by the agency.](#)  
 Last Date in Agency List : 09/05/2018

Map Id: 6  
 Direction: ENE  
 Distance: 0.520 mi.  
 Actual: 2743.376 ft.  
 Elevation: 0.025 mi. / 130.236 ft.  
 Relative: Higher

**Site Name :** Exxon Oil Terminal  
 199 Flynn Ave  
 Burlington, VT

**Database(s) :** [AST - VT, SHWS - VT]

**Envirosite ID:** 1115254  
**EPA ID:** N/R

## AST - VT

Facility Name : Exxon Oil Terminal  
 Facility Address : 199 Flynn Ave, Burlington

Facility Name : Exxon Oil Terminal  
 Facility Address : N/R

Map Id: 6  
 Direction: ENE  
 Distance: 0.520 mi.  
 Actual: 2743.376 ft.  
 Elevation: 0.025 mi. / 130.236 ft.  
 Relative: Higher

**Site Name :** Exxon Oil Terminal  
 199 Flynn Ave  
 Burlington, VT  
**Database(s) :** [AST - VT, SHWS - VT] (**cont.**)

**Envirosite ID:** 1115254  
**EPA ID:** N/R

## AST - VT (**cont.**)

### Site Details

Structure ID : N/R  
 Tank Work Item ID : N/R  
 Tank State Number : N/R  
 Tank Serial Number : N/R  
 Work : N/R  
 Gallons : N/R  
 Location : N/R

## SHWS - VT

Facility Name : Exxon Oil Terminal  
 Facility Address : 199 Flynn Ave, Burlington  
 County : Chittenden

Discovery Date : 01/01/1987  
 Closure Date : N/R  
 Site Number : 870002  
 Site Use : Bulk Storage

Priority : LOW - Site with contamination to soils or groundwater, but no effect on sensitive receptors

Site Status : Brownfields - BRELLA

Project Status : Contamination Limited On Site. Monitoring Ongoing. Trench Installed. Site entered RCPP. Site monitoring requirement continues.

Source of Contamination : Above Ground Storage Tank  
 Contaminant : Other Petroleum  
 Institutional Control : Land Record Notice  
 Site Closure Date : N/R  
 Record Last Updated : 06/20/2016  
 DEC Manager : Richard Spiese  
 DEC Staff Person : Richard Spiese  
 DEC Contact Email Address : Richard.Spiese@vermont.gov  
 Latitude : 44.4553923333  
 Longitude : -73.2209323655

Map Id: B7  
 Direction: E  
 Distance: 0.561 mi.  
 Actual: 2963.997 ft.  
 Elevation: 0.029 mi. / 152.503 ft.  
 Relative: Higher

**Site Name :** Barretts Trucking  
 16 Austin Drive  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1114292  
**EPA ID:** N/R

## SHWS - VT

Facility Name : Barretts Trucking  
 Facility Address : 16 Austin Drive, Burlington  
 County : Chittenden

Map Id: B7  
 Direction: E  
 Distance: 0.561 mi.  
 Actual: 2963.997 ft.  
 Elevation: 0.029 mi. / 152.503 ft.  
 Relative: Higher

**Site Name :** Barretts Trucking  
 16 Austin Drive  
 Burlington, VT  
**Database(s) :** [SHWS - VT] (**cont.**)

**EnviroSite ID:** 1114292  
**EPA ID:** N/R

## SHWS - VT (**cont.**)

|                             |                                     |
|-----------------------------|-------------------------------------|
| Discovery Date :            | N/R                                 |
| Closure Date :              | 01/01/1994                          |
| Site Number :               | 921232                              |
| Site Use :                  | Business                            |
| Priority :                  | NFAP - No Further Action Planned    |
| Site Status :               | N/R                                 |
| Project Status :            | Ust Removal. Stockpiled Soils. NFAP |
| Source of Contamination :   | UST-Gasoline                        |
| Contaminant :               | N/R                                 |
| Institutional Control :     | N/R                                 |
| Site Closure Date :         | 01/01/1994                          |
| Record Last Updated :       | 01/07/2016                          |
| DEC Manager :               | Linda Elliott                       |
| DEC Staff Person :          | Linda Elliott                       |
| DEC Contact Email Address : | Linda.Elliott@vermont.gov           |
| Latitude :                  | 44.4522399828                       |
| Longitude :                 | -73.2190059339                      |

Map Id: B8  
 Direction: E  
 Distance: 0.561 mi.  
 Actual: 2963.997 ft.  
 Elevation: 0.029 mi. / 152.503 ft.  
 Relative: Higher

**Site Name :** BARRETT'S TRUCKING  
 16 AUSTIN DRIVE  
 BURLINGTON, VT  
**Database(s) :** [BROWNFIELDS - VT, SHWS - VT]

**EnviroSite ID:** 319236961  
**EPA ID:** N/R

## BROWNFIELDS - VT

|                    |                             |
|--------------------|-----------------------------|
| Facility Name :    | Barrett's Trucking          |
| Facility Address : | 16 Austin Drive, Burlington |
| County :           | N/R                         |

### Site Details

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Site Number :               | 20164618                                                                 |
| Record Last Updated :       | 10/20/2016                                                               |
| Discovery Date :            | 01/06/2016                                                               |
| Site Closure Date :         | N/R                                                                      |
| Site Use :                  | Garage                                                                   |
| Site Status :               | Brownfields                                                              |
| Brownfield Status :         | Active                                                                   |
| Institutional Control :     | N/R                                                                      |
| Priority :                  | MED - Site with sensitive receptors that are threatened by contamination |
| Contaminant :               | N/R                                                                      |
| Source of Contamination :   | N/R                                                                      |
| Contaminants of Concern :   | unknown                                                                  |
| Project Status :            | Phase I complete, project withdrawn from BRELLA. Former SMS# 921232      |
| DEC Manager :               | Sarah Bartlett                                                           |
| DEC Contact Email Address : | Sarah.Bartlett@vermont.gov                                               |
| Last Date in Agency List :  | 10/30/2018                                                               |

Map Id: B8  
 Direction: E  
 Distance: 0.561 mi.  
 Actual: 2963.997 ft.  
 Elevation: 0.029 mi. / 152.503 ft.  
 Relative: Higher

**Site Name :** BARRETT'S TRUCKING  
 16 AUSTIN DRIVE  
 BURLINGTON, VT  
**Database(s) :** [BROWNFIELDS - VT, SHWS - VT] (**cont.**)

**Envirosite ID:** 319236961  
**EPA ID:** N/R

## SHWS - VT

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Facility Name :             | Barrett's Trucking                                                       |
| Facility Address :          | 16 Austin Drive, Burlington                                              |
| County :                    | N/R                                                                      |
| Discovery Date :            | 01/06/2016                                                               |
| Closure Date :              | N/R                                                                      |
| Site Number :               | 20164618                                                                 |
| Site Use :                  | Garage                                                                   |
| Priority :                  | MED - Site with sensitive receptors that are threatened by contamination |
| Site Status :               | Brownfields                                                              |
| Project Status :            | Phase I complete, project withdrawn from BRELLA. Former SMS# 921232      |
| Source of Contamination :   | N/R                                                                      |
| Contaminant :               | N/R                                                                      |
| Institutional Control :     | N/R                                                                      |
| Site Closure Date :         | N/R                                                                      |
| Record Last Updated :       | 10/20/2016                                                               |
| DEC Manager :               | Sarah Bartlett                                                           |
| DEC Staff Person :          | Sarah Bartlett                                                           |
| DEC Contact Email Address : | Sarah.Bartlett@vermont.gov                                               |
| Latitude :                  | 44.4522399828                                                            |
| Longitude :                 | -73.2190059339                                                           |

Map Id: C9  
 Direction: ENE  
 Distance: 0.573 mi.  
 Actual: 3027.265 ft.  
 Elevation: 0.026 mi. / 137.467 ft.  
 Relative: Higher

**Site Name :** BOOSKA MOVERS  
 180 FLYNN AVE  
 BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HIST SPILLS - VT, LAST - VT, RCRA\_NONGEN, SHWS - VT]

**Envirosite ID:** 13364226  
**EPA ID:** VTR000509059

## ECHO

|                    |                                     |
|--------------------|-------------------------------------|
| Facility Name :    | BOOSKA MOVERS                       |
| Facility Address : | 180 FLYNN AVE, BURLINGTON, VT 05401 |
| County :           | CHITTENDEN                          |

### Site Details

|                             |              |
|-----------------------------|--------------|
| Last Inspection Date :      | N/R          |
| Registry ID :               | 110015812799 |
| FIPS Code :                 | 50007        |
| EPA Region :                | 01           |
| Inspection Count :          | 0            |
| Last Inspection Days :      | N/R          |
| Informal Count :            | 0            |
| Last Informal Action Date : | N/R          |
| Formal Action Count :       | 0            |
| Last Formal Action Date :   | N/R          |
| Total Penalties :           | 0            |
| Penalty Count :             | N/R          |



Map Id: C9  
 Direction: ENE  
 Distance: 0.573 mi.  
 Actual: 3027.265 ft.  
 Elevation: 0.026 mi. / 137.467 ft.  
 Relative: Higher

**Site Name :** BOOSKA MOVERS  
 180 FLYNN AVE  
 BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HIST SPILLS - VT, LAST - VT,  
 RCRA\_NONGEN, SHWS - VT] (**cont.**)

**Envirosite ID:** 13364226  
**EPA ID:** VTR000509059

ECHO (**cont.**)

|                                        |                                                                  |
|----------------------------------------|------------------------------------------------------------------|
| Last Penalty Date :                    | N/R                                                              |
| Last Penalty Amount :                  | N/R                                                              |
| QTRS IN NC :                           | 0                                                                |
| Programs IN SNC :                      | 0                                                                |
| Current Compliance Status :            | No Violation                                                     |
| Three-Year Compliance Status :         |                                                                  |
| Collection Method :                    | ADDRESS MATCHING-HOUSE NUMBER                                    |
| Reference Point :                      | CENTER OF A FACILITY OR STATION                                  |
| Accuracy Meters :                      | 30                                                               |
| Derived Tribes :                       | N/R                                                              |
| Derived HUC :                          | 02010008                                                         |
| Derived WBD :                          | N/R                                                              |
| Derived STCTY FIPS :                   | 50007                                                            |
| Derived Zip :                          | 05401                                                            |
| Derived CD113 :                        | 01                                                               |
| Derived CB2010 :                       | 500070010002008                                                  |
| MYRTK Universe :                       | NNN                                                              |
| NPDES IDs :                            | N/R                                                              |
| CWA Permit Types :                     | N/R                                                              |
| CWA Compliance Tracking :              | N/R                                                              |
| CWA NAICS :                            | N/R                                                              |
| CWA SICS :                             | N/R                                                              |
| CWA Inspection Count :                 | N/R                                                              |
| CWA Last Inspection Days :             | N/R                                                              |
| CWA Informal Count :                   | N/R                                                              |
| CWA Formal Action Count :              | N/R                                                              |
| CWA Last Formal Action Date :          | N/R                                                              |
| CWA Penalties :                        | N/R                                                              |
| CWA Last Penalty Date :                | N/R                                                              |
| CWA Last Penalty Amount :              | N/R                                                              |
| CWA Quarters IN NC :                   | N/R                                                              |
| CWA Current Compliance Status :        | N/R                                                              |
| CWA Current SNC Flag :                 | N                                                                |
| CWA 13 Quarters Compliance Status :    | N/R                                                              |
| CWA 13 Quarters Effluent Exceedances:  | N/R                                                              |
| CWA Three-Year QNCR Codes :            | N/R                                                              |
| DFR URL :                              | <a href="#">Click here for hyperlink provided by the agency.</a> |
| Facility SIC Codes :                   | N/R                                                              |
| Facility NAICS Codes :                 | 49311                                                            |
| Facility Last Inspection EPA Date :    | N/R                                                              |
| Facility Last Inspection State Date :  | N/R                                                              |
| Facility Last Formal Act EPA Date :    | N/R                                                              |
| Facility Last Formal Act State Date :  | N/R                                                              |
| Facility Last Informal Act EPA Date :  | N/R                                                              |
| Facility Last Informal Act State Date: | N/R                                                              |
| Facility Federal Agency :              | N/R                                                              |
| TRI Reporter :                         | N/R                                                              |
| Facility Imp Water Flag :              | N/R                                                              |
| Current SNC Flag :                     | N                                                                |
| Indian County Flag :                   | N                                                                |
| Federal Flag :                         | N/R                                                              |
| US Mexico Border Flag :                | N/R                                                              |
| Chesapeake Bay Flag :                  | N/R                                                              |
| AIR Flag :                             | N                                                                |
| NPDES Flag :                           | N                                                                |
| SDWIS Flag :                           | N                                                                |

Map Id: C9  
 Direction: ENE  
 Distance: 0.573 mi.  
 Actual: 3027.265 ft.  
 Elevation: 0.026 mi. / 137.467 ft.  
 Relative: Higher

**Site Name :** BOOSKA MOVERS  
 180 FLYNN AVE  
 BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HIST SPILLS - VT, LAST - VT,  
 RCRA\_NONGEN, SHWS - VT] (**cont.**)

**Envirosite ID:** 13364226  
**EPA ID:** VTR000509059

## ECHO (**cont.**)

RCRA Flag : Y  
 TRI Flag : N  
 GHG Flag : N  
 Major Flag : N/R  
 Active Flag : N/R  
 NAA Flag : N/R  
 Latitude : 44.45563  
 Longitude : -73.21925  
 Last Date in Agency List : 10/08/2018

## FRS

Facility Name : BOOSKA MOVERS  
 Facility Address : 180 FLYNN AVE, BURLINGTON, VT 05401  
 County : CHITTENDEN  
  
 Registry ID : 110015812799  
 FRS Facility URL : [Click here for hyperlink provided by the agency.](#)

## Source Description :

RCRAInfo is EPA's comprehensive information system that supports the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984 through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA. RCRAInfo also supports generation of the National Hazardous Waste Biennial Report. All generators and treatment, storage, and disposal facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years to support creation of the Biennial Report.

FRS Environmental Interest  
 Source and System ID : RCRAINFO - VTR000509059

## HIST SPILLS - VT

Facility Name : Booska Movers  
 Facility Address : 180 Flynn Ave, Burlington

## Site Details

Date Reported : 04/25/2005  
 Date Closed : 06/14/2005  
 Spill Number : 2005 WMD144  
 Report Number : WMD144  
 Nature of Incident : sheens in run off; dispenser malfunction  
 Responsible Party : Booska Movers  
 Product Released : diesel  
 Quantity : 100 Gallons  
 Unit : Gallons  
 Spill Manager : Marc Roy

Map Id: C9  
 Direction: ENE  
 Distance: 0.573 mi.  
 Actual: 3027.265 ft.  
 Elevation: 0.026 mi. / 137.467 ft.  
 Relative: Higher

**Site Name :** BOOSKA MOVERS  
 180 FLYNN AVE  
 BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HIST SPILLS - VT, LAST - VT,  
 RCRA\_NONGEN, SHWS - VT] **(cont.)**

**Envirosite ID:** 13364226  
**EPA ID:** VTR000509059

## HIST SPILLS - VT **(cont.)**

**Comments :** Dispenser nozzle left engaged, dispensed fuel when power was applied.  
 NOAV for failure to report and take appropriate actions.

**Actions Taken :** NRC notified. EP&S hired to boom stream.  
**DEC Contact Email Address :** Marc.Roy@vermont.gov  
**Direct URL :** [Click here for hyperlink provided by the agency.](#)  
**Last Date in Agency List :** 09/05/2018

## LAST - VT

**Facility Name :** Booska Movers  
**Facility Address :** 180 Flynn Ave, Burlington

## Site Details

**Date Reported :** N/R  
**Date Closed :** 01/24/2008  
**Spill Number :** N/R  
**Report Number :** N/R  
**Nature of Incident :** N/R  
**Responsible Party :** N/R  
**Product Released :** N/R  
**Quantity :** N/R  
**Unit :** N/R  
**Spill Manager :** N/R  
**Comments :** N/R  
**Actions Taken :** N/R  
**DEC Contact Email Address :** N/R  
**Direct URL :** N/R  
**Last Date in Agency List :** 07/17/2013

## RCRA\_NONGEN

**Facility Name :** BOOSKA MOVERS  
**Facility Address :** 180 FLYNN AVE, BURLINGTON, VT 05401

**Date Form Received by Agency :** 07/11/2006  
**EPA ID :** VTR000509059  
**Mailing Address :** 180 FLYNN AVE, BURLINGTON, VT 05401  
**Contact :** ADAM BOOSKA  
**Contact Address :** 180 FLYNN AVE, BURLINGTON, VT 05401  
**Contact Country :** US  
**Contact Telephone :** 802-864-5115  
**Contact Email :** N/R  
**EPA Region :** 01  
**Land Type :** Private  
**Source Type :** Notification  
**Classification :** Not a generator, verified  
**Description :** Not a generator, verified

Map Id: C9  
 Direction: ENE  
 Distance: 0.573 mi.  
 Actual: 3027.265 ft.  
 Elevation: 0.026 mi. / 137.467 ft.  
 Relative: Higher

**Site Name :** BOOSKA MOVERS  
 180 FLYNN AVE  
 BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HIST SPILLS - VT, LAST - VT,  
 RCRA\_NONGEN, SHWS - VT] **(cont.)**

**Envirosite ID:** 13364226  
**EPA ID:** VTR000509059

## RCRA\_NONGEN (cont.)

### Owner/Operator Summary

Owner/Operator Name : BOOSKA MOVERS  
 Owner/Operator Address : 180 FLYNN AVE, BURLINGTON, VT 05401  
 Owner/Operator Country : N/R  
 Owner/Operator Telephone : N/R  
 Owner/Operator Email : N/R  
 Owner/Operator Fax : N/R  
 Legal Status : Private  
 Owner/Operator Type : Operator  
 Owner/Operator Start Date : 01/01/1993  
 Owner/Operator End Date : N/R

Owner/Operator Name : DAVID T BOOSKA  
 Owner/Operator Address : 180 FLYNN AVE, BURLINGTON, VT 05401  
 Owner/Operator Country : N/R  
 Owner/Operator Telephone : N/R  
 Owner/Operator Email : N/R  
 Owner/Operator Fax : N/R  
 Legal Status : Private  
 Owner/Operator Type : Owner  
 Owner/Operator Start Date : 01/01/1993  
 Owner/Operator End Date : N/R

### Handler Activities Summary

U.S. Importer of Hazardous Waste : N  
 Mixed Waste (Haz. and Radioactive) : N  
 Recycler of Hazardous Waste : N  
 Transporter of Hazardous Waste : N  
 Treater, Storer or Disposer of HW : N  
 Underground Injection Activity : N  
 On-site Burner Exemption : N  
 Furnace Exemption : N  
 Used Oil Fuel Burner : N  
 Used Oil Processor : N  
 Used Oil Refiner : N  
 Used Oil Fuel Marketer to Burner : N  
 Used Oil Specification Marketer : N  
 Used Oil Transfer Facility : N  
 Used Oil Transporter : N

### Historical Generators

Date Form Received by Agency : 10/28/2003  
 Facility Name : BOOSKA MOVERS  
 Classification : Conditionally Exempt Small Quantity Generator

### Hazardous Waste Summary



Map Id: C9  
 Direction: ENE  
 Distance: 0.573 mi.  
 Actual: 3027.265 ft.  
 Elevation: 0.026 mi. / 137.467 ft.  
 Relative: Higher

**Site Name :** BOOSKA MOVERS  
 180 FLYNN AVE  
 BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HIST SPILLS - VT, LAST - VT,  
 RCRA\_NONGEN, SHWS - VT] **(cont.)**

**Envirosite ID:** 13364226  
**EPA ID:** VTR000509059

## RCRA\_NONGEN (cont.)

Waste Code / Name : VT02 - Waste containing greater than 5% by weight petroleum distillates with melting points of less than 100 degrees F, including but not limited to kerosene, fuel oil, hydraulic oils, lubricating oils, penetrating oils, tramp oils, quenching oils, and crankcase and automotive oils which have not been exempted under Section 7-203(n), (o) and (p)  
 VT08 - Waste ethylene glycol based coolants, antifreezes and solutions containing greater than 700 ppm of ethylene glycol

## Notices of Violations Summary Regulation Violated :

N

## SHWS - VT

Facility Name : Booska Movers  
 Facility Address : 180 Flynn Ave, Burlington  
 County : Chittenden  
 Discovery Date : 04/25/2005  
 Closure Date : 01/24/2008  
 Site Number : 20053376  
 Site Use : Business  
 Priority : SMAC - Site Management Activities Completed  
 Site Status : N/R

Project Status : Dispenser leak to gravel parking lot. Some migration to Inglesby Brook. Booms and pads in stream swept away in heavy rainfall. EP&S re-deployed boom and collected used material. GW investigation showed low levels of VOC contamination. GWESs met. MWs abandoned.

Source of Contamination : Above Ground Storage Tank  
 Contaminant : Diesel  
 Institutional Control : N/R  
 Site Closure Date : 01/24/2008  
 Record Last Updated : 01/29/2008  
 DEC Manager : Richard Spiese  
 DEC Staff Person : Richard Spiese  
 DEC Contact Email Address : Richard.Spiese@vermont.gov  
 Latitude : 44.4575484562  
 Longitude : -73.2193911921

Map Id: 10  
 Direction: NE  
 Distance: 0.574 mi.  
 Actual: 3029.771 ft.  
 Elevation: 0.022 mi. / 114.777 ft.  
 Relative: Higher

**Site Name :** Northern Oil/harborwatch  
 Harrison Ave  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1116760  
**EPA ID:** N/R

## SHWS - VT

|                             |                                              |
|-----------------------------|----------------------------------------------|
| Facility Name :             | Northern Oil/harborwatch                     |
| Facility Address :          | Harrison Ave, Burlington                     |
| County :                    | Chittenden                                   |
| Discovery Date :            | N/R                                          |
| Closure Date :              | 07/22/1991                                   |
| Site Number :               | 870001                                       |
| Site Use :                  | Residential/Farm                             |
| Priority :                  | NFAP - No Further Action Planned             |
| Site Status :               | N/R                                          |
| Project Status :            | Long Term Monitoring Completed. Site Closed. |
| Source of Contamination :   | Above Ground Storage Tank, Other             |
| Contaminant :               | Non-Petroleum                                |
| Institutional Control :     | N/R                                          |
| Site Closure Date :         | 07/22/1991                                   |
| Record Last Updated :       | 06/19/2013                                   |
| DEC Manager :               | Richard Spiese                               |
| DEC Staff Person :          | Richard Spiese                               |
| DEC Contact Email Address : | Richard.Spiese@vermont.gov                   |
| Latitude :                  | 44.45902701                                  |
| Longitude :                 | -73.2219532339                               |

Map Id: B11  
 Direction: ESE  
 Distance: 0.577 mi.  
 Actual: 3045.537 ft.  
 Elevation: 0.029 mi. / 154.879 ft.  
 Relative: Higher

**Site Name :** C C T A Garage  
 1 Industrial Parkway  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1114647  
**EPA ID:** N/R

## SHWS - VT

|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| Facility Name :             | C C T A Garage                                       |
| Facility Address :          | 1 Industrial Parkway, Burlington                     |
| County :                    | Chittenden                                           |
| Discovery Date :            | 12/01/1996                                           |
| Closure Date :              | 04/01/1997                                           |
| Site Number :               | 951791                                               |
| Site Use :                  | Industrial                                           |
| Priority :                  | SMAC - Site Management Activities Completed          |
| Site Status :               | N/R                                                  |
| Project Status :            | Hydraulic Oil Recovery Complete, Limited To On-site. |
| Source of Contamination :   | UST-Gasoline, Waste Oil                              |
| Contaminant :               | Waste Oil                                            |
| Institutional Control :     | N/R                                                  |
| Site Closure Date :         | 04/01/1997                                           |
| Record Last Updated :       | 03/15/2005                                           |
| DEC Manager :               | John Schmeltzer                                      |
| DEC Staff Person :          | John Schmeltzer                                      |
| DEC Contact Email Address : | John.Schmeltzer@vermont.gov                          |

Map Id: B11  
 Direction: ESE  
 Distance: 0.577 mi.  
 Actual: 3045.537 ft.  
 Elevation: 0.029 mi. / 154.879 ft.  
 Relative: Higher

**Site Name :** C C T A Garage  
 1 Industrial Parkway  
 Burlington, VT  
**Database(s) :** [SHWS - VT] (**cont.**)

**Envirosite ID:** 1114647  
**EPA ID:** N/R

## SHWS - VT (**cont.**)

Latitude : 44.451013833  
 Longitude : -73.2198172295

Map Id: D12  
 Direction: SE  
 Distance: 0.590 mi.  
 Actual: 3115.693 ft.  
 Elevation: 0.034 mi. / 177.638 ft.  
 Relative: Higher

**Site Name :** EDLUND INDUSTRIES  
 N/A  
 BURLINGTON, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 353806032  
**EPA ID:** N/R

## SHWS - VT

Facility Name : Edlund Industries  
 Facility Address : n/a, Burlington  
 County : Chittenden

Discovery Date : N/R  
 Closure Date : N/R  
 Site Number : 880269  
 Site Use : N/R  
 Priority : NFAP - No Further Action Planned  
 Site Status : N/R  
 Project Status : Site Closed  
 Source of Contamination : N/R  
 Contaminant : N/R  
 Institutional Control : N/R  
 Site Closure Date : N/R  
 Record Last Updated : 03/08/2005  
 DEC Manager : Unassigned  
 DEC Staff Person : Unassigned  
 DEC Contact Email Address : Chuck.Schwer@vermont.gov  
 Latitude : 44.447312041  
 Longitude : -73.2218604118

Map Id: D13  
 Direction: SE  
 Distance: 0.590 mi.  
 Actual: 3115.693 ft.  
 Elevation: 0.034 mi. / 177.638 ft.  
 Relative: Higher

**Site Name :** EDLUND INDUSTRIES  
 44.447312041, -73.2218604118  
 BURLINGTON, VT  
**Database(s) :** [HIST SHWS - VT]

**Envirosite ID:** 405835917  
**EPA ID:** N/R

## HIST SHWS - VT

Facility Name : Edlund Industries  
 Facility Address : 44.447312041, -73.2218604118, Burlington  
 County : Chittenden

Map Id: D13  
 Direction: SE  
 Distance: 0.590 mi.  
 Actual: 3115.693 ft.  
 Elevation: 0.034 mi. / 177.638 ft.  
 Relative: Higher

**Site Name :** EDLUND INDUSTRIES  
 44.447312041, -73.2218604118  
 BURLINGTON, VT  
**Database(s) :** [HIST SHWS - VT] (**cont.**)

**Envirosite ID:** 405835917  
**EPA ID:** N/R

## HIST SHWS - VT (**cont.**)

### Site Details

|                             |                |
|-----------------------------|----------------|
| Discovery Date :            | N/R            |
| Closure Date :              | N/R            |
| Site Number :               | 880269         |
| Site Use :                  | N/R            |
| Priority :                  | NFAP           |
| Site Status :               | N/R            |
| Project Status :            | Site Closed    |
| Source of Contamination :   | N/R            |
| Contaminant :               | N/R            |
| Institutional Control :     | N/R            |
| Site Closure Date :         | N/R            |
| Record Last Updated :       | N/R            |
| DEC Manager :               | N/R            |
| DEC Staff Person :          | Unassigned     |
| DEC Contact Email Address : | N/R            |
| Latitude :                  | 44.447312041   |
| Longitude :                 | -73.2218604118 |
| Last Date in Agency List :  | 09/24/2015     |

Map Id: C14  
 Direction: E  
 Distance: 0.591 mi.  
 Actual: 3122.533 ft.  
 Elevation: 0.026 mi. / 138.638 ft.  
 Relative: Higher

**Site Name :** Vermont Railway - Flynn Ave  
 207 Flynn Ave  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1117907  
**EPA ID:** N/R

## SHWS - VT

|                    |                             |
|--------------------|-----------------------------|
| Facility Name :    | Vermont Railway - Flynn Ave |
| Facility Address : | 207 Flynn Ave, Burlington   |
| County :           | Chittenden                  |

|                  |                                             |
|------------------|---------------------------------------------|
| Discovery Date : | 12/01/1993                                  |
| Closure Date :   | 08/25/2016                                  |
| Site Number :    | 931521                                      |
| Site Use :       | Industrial                                  |
| Priority :       | SMAC - Site Management Activities Completed |
| Site Status :    | N/R                                         |

Project Status : Site Management Activities Complete for this site number. Please see site #2016-4619 for most recent activities at this site.

|                             |                             |
|-----------------------------|-----------------------------|
| Source of Contamination :   | UST-Heating Oil             |
| Contaminant :               | Heating Oil                 |
| Institutional Control :     | N/R                         |
| Site Closure Date :         | 08/25/2016                  |
| Record Last Updated :       | 02/01/2018                  |
| DEC Manager :               | Michael Nahmias             |
| DEC Staff Person :          | Michael Nahmias             |
| DEC Contact Email Address : | Michael.Nahmias@vermont.gov |



Map Id: C14  
 Direction: E  
 Distance: 0.591 mi.  
 Actual: 3122.533 ft.  
 Elevation: 0.026 mi. / 138.638 ft.  
 Relative: Higher

**Site Name :** Vermont Railway - Flynn Ave  
 207 Flynn Ave  
 Burlington, VT  
**Database(s) :** [SHWS - VT] **(cont.)**

**EnviroSite ID:** 1117907  
**EPA ID:** N/R

## SHWS - VT (cont.)

Latitude : 44.4552905662894  
 Longitude : -73.2182880116394

Map Id: C15  
 Direction: E  
 Distance: 0.591 mi.  
 Actual: 3122.533 ft.  
 Elevation: 0.026 mi. / 138.638 ft.  
 Relative: Higher

**Site Name :** 207 FLYNN AVE  
 207 FLYNN AVE  
 BURLINGTON, VT  
**Database(s) :** [BROWNFIELDS - VT, SHWS - VT]

**EnviroSite ID:** 319236960  
**EPA ID:** N/R

## BROWNFIELDS - VT

Facility Name : 207 Flynn Ave  
 Facility Address : 207 Flynn Ave, Burlington  
 County : N/R

### Site Details

Site Number : 20164619  
 Record Last Updated : 05/05/2016  
 Discovery Date : 01/06/2016  
 Site Closure Date : N/R  
 Site Use : Garage  
 Site Status : Brownfields - BRELLA  
 Brownfield Status : Active  
 Institutional Control : N/R  
 Priority : MED - Site with sensitive receptors that are threatened by contamination  
 Contaminant : N/R  
 Source of Contamination : N/R  
 Contaminants of Concern : cVOCs, metals, PAHs

Project Status : Phase II conducted, CAP currently in development. Property will be subdivided and new BRELLA applications submitted.

DEC Manager : Sarah Bartlett  
 DEC Contact Email Address : Sarah.Bartlett@vermont.gov  
 Last Date in Agency List : 10/30/2018

## SHWS - VT

Facility Name : 207 Flynn Ave  
 Facility Address : 207 Flynn Ave, Burlington  
 County : N/R

Discovery Date : 01/06/2016  
 Closure Date : N/R  
 Site Number : 20164619  
 Site Use : Garage  
 Priority : MED - Site with sensitive receptors that are threatened by contamination  
 Site Status : Brownfields - BRELLA

Map Id: C15  
 Direction: E  
 Distance: 0.591 mi.  
 Actual: 3122.533 ft.  
 Elevation: 0.026 mi. / 138.638 ft.  
 Relative: Higher

**Site Name :** 207 FLYNN AVE  
 207 FLYNN AVE  
 BURLINGTON, VT  
**Database(s) :** [BROWNFIELDS - VT, SHWS - VT] **(cont.)**

**Envirosite ID:** 319236960  
**EPA ID:** N/R

## SHWS - VT **(cont.)**

|                             |                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Project Status :            | Phase II conducted, CAP currently in development. Property will be subdivided and new BRELLA applications submitted. |
| Source of Contamination :   | N/R                                                                                                                  |
| Contaminant :               | N/R                                                                                                                  |
| Institutional Control :     | N/R                                                                                                                  |
| Site Closure Date :         | N/R                                                                                                                  |
| Record Last Updated :       | 05/05/2016                                                                                                           |
| DEC Manager :               | Sarah Bartlett                                                                                                       |
| DEC Staff Person :          | Sarah Bartlett                                                                                                       |
| DEC Contact Email Address : | Sarah.Bartlett@vermont.gov                                                                                           |
| Latitude :                  | 44.4552905662894                                                                                                     |
| Longitude :                 | -73.2182880116394                                                                                                    |

Map Id: 16  
 Direction: E  
 Distance: 0.626 mi.  
 Actual: 3302.893 ft.  
 Elevation: 0.027 mi. / 143.914 ft.  
 Relative: Higher

**Site Name :** 75 BRIGGS STREET  
 75 BRIGGS STREET  
 BURLINGTON, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 353805899  
**EPA ID:** N/R

## SHWS - VT

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Facility Name :             | 75 Briggs Street                                                         |
| Facility Address :          | 75 Briggs Street, Burlington                                             |
| County :                    | N/R                                                                      |
| Discovery Date :            | 01/06/2016                                                               |
| Closure Date :              | N/R                                                                      |
| Site Number :               | 20174731                                                                 |
| Site Use :                  | Industrial                                                               |
| Priority :                  | MED - Site with sensitive receptors that are threatened by contamination |
| Site Status :               | Brownfields - BRELLA                                                     |
| Project Status :            | N/R                                                                      |
| Source of Contamination :   | N/R                                                                      |
| Contaminant :               | N/R                                                                      |
| Institutional Control :     | N/R                                                                      |
| Site Closure Date :         | N/R                                                                      |
| Record Last Updated :       | 10/04/2017                                                               |
| DEC Manager :               | Sarah Bartlett                                                           |
| DEC Staff Person :          | Sarah Bartlett                                                           |
| DEC Contact Email Address : | Sarah.Bartlett@vermont.gov                                               |
| Latitude :                  | 44.4538726219727                                                         |
| Longitude :                 | -73.2181870760574                                                        |

Map Id: 17  
 Direction: E  
 Distance: 0.654 mi.  
 Actual: 3452.704 ft.  
 Elevation: 0.027 mi. / 144.282 ft.  
 Relative: Higher

**Site Name :** Former Vermont Structural Steel  
 Briggs & Flynn Streets  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1115515  
**EPA ID:** N/R

SHWS - VT

|                             |                                    |
|-----------------------------|------------------------------------|
| Facility Name :             | Former Vermont Structural Steel    |
| Facility Address :          | Briggs & Flynn Streets, Burlington |
| County :                    | Chittenden                         |
| Discovery Date :            | N/R                                |
| Closure Date :              | 08/07/1991                         |
| Site Number :               | 770109                             |
| Site Use :                  | Business                           |
| Priority :                  | NFAP - No Further Action Planned   |
| Site Status :               | N/R                                |
| Project Status :            | Monitoring Completed. Site Closed. |
| Source of Contamination :   | N/R                                |
| Contaminant :               | Non-Petroleum                      |
| Institutional Control :     | N/R                                |
| Site Closure Date :         | 08/07/1991                         |
| Record Last Updated :       | 05/22/2012                         |
| DEC Manager :               | Unassigned                         |
| DEC Staff Person :          | Unassigned                         |
| DEC Contact Email Address : | Chuck.Schwer@vermont.gov           |
| Latitude :                  | 44.4552905662894                   |
| Longitude :                 | -73.2182880116394                  |

Map Id: 18  
 Direction: ESE  
 Distance: 0.689 mi.  
 Actual: 3635.864 ft.  
 Elevation: 0.033 mi. / 174.134 ft.  
 Relative: Higher

**Site Name :** General Electric Comp. A&esd  
 Industrial Avenue  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1115604  
**EPA ID:** N/R

SHWS - VT

|                             |                                                                   |
|-----------------------------|-------------------------------------------------------------------|
| Facility Name :             | General Electric Comp. A&esd                                      |
| Facility Address :          | Industrial Avenue, Burlington                                     |
| County :                    | Chittenden                                                        |
| Discovery Date :            | 06/01/1981                                                        |
| Closure Date :              | 08/07/1998                                                        |
| Site Number :               | 770040                                                            |
| Site Use :                  | Industrial                                                        |
| Priority :                  | SMAC - Site Management Activities Completed                       |
| Site Status :               | N/R                                                               |
| Project Status :            | Landfarming of soils completed. Groundwater monitoring completed. |
| Source of Contamination :   | Other, Spill                                                      |
| Contaminant :               | Heating Oil                                                       |
| Institutional Control :     | Deed Restriction, Easement                                        |
| Site Closure Date :         | 08/07/1998                                                        |
| Record Last Updated :       | 01/24/2018                                                        |
| DEC Manager :               | ---                                                               |
| DEC Staff Person :          | ---                                                               |
| DEC Contact Email Address : | N/R                                                               |

Map Id: 18  
 Direction: ESE  
 Distance: 0.689 mi.  
 Actual: 3635.864 ft.  
 Elevation: 0.033 mi. / 174.134 ft.  
 Relative: Higher

**Site Name :** General Electric Comp. A&esd  
 Industrial Avenue  
 Burlington, VT  
**Database(s) :** [SHWS - VT] **(cont.)**

**Envirosite ID:** 1115604  
**EPA ID:** N/R

## SHWS - VT (cont.)

Latitude : 44.4472620626  
 Longitude : -73.219290586

Map Id: 19  
 Direction: ENE  
 Distance: 0.728 mi.  
 Actual: 3846.207 ft.  
 Elevation: 0.024 mi. / 129.15 ft.  
 Relative: Higher

**Site Name :** Tamarack Automotive  
 53 Sears Lane  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1117657  
**EPA ID:** N/R

## SHWS - VT

Facility Name : Tamarack Automotive  
 Facility Address : 53 Sears Lane, Burlington  
 County : Chittenden

Discovery Date : 01/01/1995  
 Closure Date : N/R  
 Site Number : 941740  
 Site Use : Business

Priority : LOW - Site with contamination to soils or groundwater, but no effect on sensitive receptors

Site Status : N/R

Project Status : Petroleum contamination from two underground storage tanks. Ongoing monitoring reveals declining contaminant plume. Biennial site monitoring with next by June 2019. Based on results, evaluate for SMAC.

Source of Contamination : UST-Heating Oil, Waste Oil  
 Contaminant : Heating Oil, Other Petroleum, Waste Oil  
 Institutional Control : N/R  
 Site Closure Date : N/R  
 Record Last Updated : 03/14/2018  
 DEC Manager : Linda Elliott  
 DEC Staff Person : Linda Elliott  
 DEC Contact Email Address : Linda.Elliott@vermont.gov  
 Latitude : 44.4583366932  
 Longitude : -73.2171588724



Map Id: E20  
 Direction: NE  
 Distance: 0.755 mi.  
 Actual: 3987.963 ft.  
 Elevation: 0.023 mi. / 120.256 ft.  
 Relative: Higher

**Site Name :** BELL AIRCRAFT DUMP (FORMER)  
 LAKESIDE AVENUE  
 BURLINGTON, VT 05401  
**Database(s) :** [CERCLIS-HIST, FRS, PART NPL,  
 SEMS\_8R\_ACTIVE SITES]

**EnviroSite ID:** 1324579  
**EPA ID:** VTD981215775

## CERCLIS-HIST

Facility Name : BELL AIRCRAFT DUMP (FORMER)  
 Facility Address : LAKESIDE AVENUE, BURLINGTON, VT 05401  
 County : CHITTENDEN

Site ID : 0101502  
 Epa ID : VTD981215775  
 Short Name : BELL AIRCRAFT DUMP (FORME  
 Congressional District : 01  
 IFMS ID : N/R  
 SMSA Number : 1305  
 USGC Hydro Unit : 02010003  
 Federal Facility : N  
 DMNSN Number : N/R  
 Site Orphan Flag : N  
 RCRA ID : N/R  
 USGS Quadrangle : N/R  
 Site Init by Prog : N/R  
 NFRAP Flag : N/R  
 Parent ID : 0101479  
 RST Code : N/R  
 EPA Region : 01  
 Classification : N/R  
 Site Settings Code : N/R  
 NPL Status : Site is Part of NPL Site  
 DMNSN Unit Code : N/R  
 RBRAC Code : N/R  
 RResp Fed Agency Code : N/R  
 Non NPL Status : N/R  
 Non NPL Status Date : N/R  
 Site Fips Code : 50007  
 CC Concurrence Date : N/R  
 CC Concurrence FY : N/R  
 Alias EPA ID : N/R  
 Site FUDS Flag : N/R

## CERCLIS Site Contact Name(s)

Contact ID : 1270095  
 Contact Name : Martha Bosworth  
 Contact Tel. : 6179181407  
 Contact Title : Site Assessment Manager (SAM)  
 Contact Email : bosworth.martha@epamail.epa.gov

Alias Comments : FORMER BELL AIRCRAFT DUMP  
 Site Description : N/R

## CERCLIS Assessment History

Action Code : 001  
 Action : DISCOVERY  
 Date Started : N/R  
 Date Completed : 09/26/1986

Map Id: E20  
 Direction: NE  
 Distance: 0.755 mi.  
 Actual: 3987.963 ft.  
 Elevation: 0.023 mi. / 120.256 ft.  
 Relative: Higher

**Site Name :** BELL AIRCRAFT DUMP (FORMER)  
 LAKESIDE AVENUE  
 BURLINGTON, VT 05401  
**Database(s) :** [CERCLIS-HIST, FRS, PART NPL,  
 SEMS\_8R\_ACTIVE SITES] (**cont.**)

**Envirosite ID:** 1324579  
**EPA ID:** VTD981215775

## CERCLIS-HIST (**cont.**)

Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : S  
 Planning Status : N/R  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : PRELIMINARY ASSESSMENT  
 Date Started : 09/01/1986  
 Date Completed : 10/03/1986  
 Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : F  
 Planning Status : N/R  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : SITE INSPECTION  
 Date Started : N/R  
 Date Completed : 05/18/1988  
 Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : F  
 Planning Status : N/R  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

## FRS

Facility Name : BELL AIRCRAFT DUMP (FORMER)  
 Facility Address : LAKESIDE AVENUE, BURLINGTON, VT 05401  
 County : CHITTENDEN

Registry ID : 110009346957  
 FRS Facility URL : [Click here for hyperlink provided by the agency.](#)

## Source Description :

The Superfund Enterprise Management System (SEMS) integrates multiple legacy systems into a comprehensive tracking and reporting tool, providing data on the inventory of active and archived hazardous waste sites evaluated by the Superfund program. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL.

FRS Environmental Interest  
 Source and System ID : SEMS - VTD981215775

Map Id: E20  
 Direction: NE  
 Distance: 0.755 mi.  
 Actual: 3987.963 ft.  
 Elevation: 0.023 mi. / 120.256 ft.  
 Relative: Higher

**Site Name :** BELL AIRCRAFT DUMP (FORMER)  
 LAKESIDE AVENUE  
 BURLINGTON, VT 05401  
**Database(s) :** [CERCLIS-HIST, FRS, PART NPL,  
 SEMS\_8R\_ACTIVE SITES] (**cont.**)

**Envirosite ID:** 1324579  
**EPA ID:** VTD981215775

## PART NPL

Facility Name : BELL AIRCRAFT DUMP (FORMER)  
 Facility Address : LAKESIDE AVENUE, BURLINGTON, VT 05401  
 County : CHITTENDEN

## Site Details

NPL Status : Site is Part of NPL Site  
 Non-NPL Status : N/R  
 Non-NPL Status Date : N/R  
 EPA ID : VTD981215775  
 EPA Region : 01  
 Parent Site : PINE STREET CANAL  
 Federal Facility Flag : Not a Federal Facility  
 Incident Category : N/R  
 Latitude : 44.478333  
 Longitude : -73.198333  
 Facility Details Link : [Click here for hyperlink provided by the agency.](#)  
 Last Date in Agency List : 09/03/2018

## Additional Information

Alias Name : FORMER BELL AIRCRAFT DUMP  
 Alias Address : N/R

## Operable Units Information

OU ID : 00  
 OU Name : SITEWIDE

## Contaminant Information

Contaminant : N/R  
 Media : N/R

## Contact Information

Contact Name : Site Assessment Manager (SAM)  
 Contact Title : Martha Bosworth  
 Phone Number : (617) 918-1407

## SEMS\_8R\_ACTIVE SITES

Facility Name : BELL AIRCRAFT DUMP (FORMER)  
 Facility Address : LAKESIDE AVENUE, BURLINGTON, VT 05401  
 County : CHITTENDEN

Map Id: E20  
Direction: NE  
Distance: 0.755 mi.  
Actual: 3987.963 ft.  
Elevation: 0.023 mi. / 120.256 ft.  
Relative: Higher

**Site Name :** BELL AIRCRAFT DUMP (FORMER)  
LAKESIDE AVENUE  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, FRS, PART NPL,  
SEMS\_8R\_ACTIVE SITES] (**cont.**)

**Envirosite ID:** 1324579  
**EPA ID:** VTD981215775

#### SEMS\_8R\_ACTIVE SITES (**cont.**)

##### Site Details

|                            |                          |
|----------------------------|--------------------------|
| Site ID :                  | 0101502                  |
| EPA ID :                   | VTD981215775             |
| Region :                   | 01                       |
| Congressional District :   | 01                       |
| Federal Facility :         | N                        |
| NPL Status :               | Site is Part of NPL Site |
| Non NPL Status :           | N/R                      |
| FIPS Code :                | 50007                    |
| Latitude :                 | N/R                      |
| Longitude :                | N/R                      |
| Last Date in Agency List : | 09/03/2018               |

##### Additional Information

|                       |            |
|-----------------------|------------|
| Start Date :          | 09/26/1986 |
| Finish Date :         | 09/26/1986 |
| OU :                  | 00         |
| Action Code :         | DS         |
| Action Name :         | DISCVRY    |
| Sequence :            | 1          |
| Quality :             | N/R        |
| Current Action Lead : | St Perf    |

|                       |            |
|-----------------------|------------|
| Start Date :          | 09/01/1986 |
| Finish Date :         | 10/03/1986 |
| OU :                  | 00         |
| Action Code :         | PA         |
| Action Name :         | PA         |
| Sequence :            | 1          |
| Quality :             | H          |
| Current Action Lead : | EPA Perf   |

|                       |            |
|-----------------------|------------|
| Start Date :          | N/R        |
| Finish Date :         | 05/18/1988 |
| OU :                  | 00         |
| Action Code :         | SI         |
| Action Name :         | SI         |
| Sequence :            | 1          |
| Quality :             | A          |
| Current Action Lead : | EPA Perf   |



Map Id: E21  
 Direction: NE  
 Distance: 0.764 mi.  
 Actual: 4032.567 ft.  
 Elevation: 0.023 mi. / 120.302 ft.  
 Relative: Higher

**Site Name :** 34, 44, 50 LAKESIDE AVENUE  
 LAKESIDE AVENUE (34,44,50)  
 BURLINGTON, VT  
**Database(s) :** [BROWNFIELDS - VT, SHWS - VT]

**Envirosite ID:** 315252434  
**EPA ID:** N/R

## BROWNFIELDS - VT

Facility Name : 34, 44, 50 Lakeside Avenue  
 Facility Address : Lakeside Avenue (34,44,50), Burlington  
 County : N/R

### Site Details

Site Number : 20154612  
 Record Last Updated : 09/20/2018  
 Discovery Date : 10/27/2015  
 Site Closure Date : N/R  
 Site Use : Industrial  
 Site Status : N/R  
 Brownfield Status : Active  
 Institutional Control : N/R

Priority : LOW - Site with contamination to soils or groundwater, but no effect on sensitive receptors

Contaminant : N/R  
 Source of Contamination : N/R  
 Contaminants of Concern : N/R  
 Project Status : Project enrolled in BRELLA, Phase I submitted  
 DEC Manager : Michael Smith  
 DEC Contact Email Address : Michael.B.Smith@vermont.gov  
 Last Date in Agency List : 10/30/2018

## SHWS - VT

Facility Name : 34, 44, 50 Lakeside Avenue  
 Facility Address : Lakeside Avenue (34,44,50), Burlington  
 County : N/R

Discovery Date : 10/27/2015  
 Closure Date : N/R  
 Site Number : 20154612  
 Site Use : Industrial

Priority : LOW - Site with contamination to soils or groundwater, but no effect on sensitive receptors

Site Status : N/R  
 Project Status : Project enrolled in BRELLA, Phase I submitted  
 Source of Contamination : N/R  
 Contaminant : N/R  
 Institutional Control : N/R  
 Site Closure Date : N/R  
 Record Last Updated : 09/20/2018  
 DEC Manager : Michael Smith  
 DEC Staff Person : Michael Smith  
 DEC Contact Email Address : Michael.B.Smith@vermont.gov  
 Latitude : 44.4615084669293  
 Longitude : -73.2200085133321

Map Id: 22  
 Direction: E  
 Distance: 0.819 mi.  
 Actual: 4322.406 ft.  
 Elevation: 0.028 mi. / 145.738 ft.  
 Relative: Higher

**Site Name :** 316-332 FLYNN AVE  
 316-332 FLYNN AVE  
 BURLINGTON, VT  
**Database(s) :** [BROWNFIELDS - VT, SHWS - VT]

**Envirosite ID:** 325064669  
**EPA ID:** N/R

## BROWNFIELDS - VT

Facility Name : 316-332 Flynn Ave  
 Facility Address : 316-332 Flynn Ave, Burlington  
 County : N/R

### Site Details

Site Number : 20164636  
 Record Last Updated : 09/17/2018  
 Discovery Date : N/R  
 Site Closure Date : N/R  
 Site Use : Business  
 Site Status : Brownfields - BRELLA  
 Brownfield Status : Active  
 Institutional Control : N/R

Priority : LOW - Site with contamination to soils or groundwater, but no effect on sensitive receptors

Contaminant : PAH  
 Source of Contamination : Unknown  
 Contaminants of Concern : PAHs

Project Status : Phase I Site visit 2/17/2016. Phase II WPCE submitted 1/2017, under review. QAPP approved. CAP public notice (May 18- June 19) and public meeting occurred (June 7), CAP Approved June 20, 2017. CAP implementation underway summer/fall 2017. CAP Report received and reviewed. COC being drafted Sept 2018.

DEC Manager : Kristi Herzer  
 DEC Contact Email Address : Kristi.Herzer@vermont.gov  
 Last Date in Agency List : 10/30/2018

## SHWS - VT

Facility Name : 316-332 Flynn Ave  
 Facility Address : 316-332 Flynn Ave, Burlington  
 County : N/R

Discovery Date : N/R  
 Closure Date : N/R  
 Site Number : 20164636  
 Site Use : Business

Priority : LOW - Site with contamination to soils or groundwater, but no effect on sensitive receptors

Site Status : Brownfields - BRELLA

Project Status : Phase I Site visit 2/17/2016. Phase II WPCE submitted 1/2017, under review. QAPP approved. CAP public notice (May 18- June 19) and public meeting occurred (June 7), CAP Approved June 20, 2017. CAP implementation underway summer/fall 2017. CAP Report received and reviewed. COC being drafted Sept 2018.

Source of Contamination : Unknown

Map Id: 22  
 Direction: E  
 Distance: 0.819 mi.  
 Actual: 4322.406 ft.  
 Elevation: 0.028 mi. / 145.738 ft.  
 Relative: Higher

**Site Name :** 316-332 FLYNN AVE  
 316-332 FLYNN AVE  
 BURLINGTON, VT  
**Database(s) :** [BROWNFIELDS - VT, SHWS - VT] **(cont.)**

**EnviroSite ID:** 325064669  
**EPA ID:** N/R

## SHWS - VT **(cont.)**

|                             |                           |
|-----------------------------|---------------------------|
| Contaminant :               | PAH                       |
| Institutional Control :     | N/R                       |
| Site Closure Date :         | N/R                       |
| Record Last Updated :       | 09/17/2018                |
| DEC Manager :               | Kristi Herzer             |
| DEC Staff Person :          | Kristi Herzer             |
| DEC Contact Email Address : | Kristi.Herzer@vermont.gov |
| Latitude :                  | 44.4554923819139          |
| Longitude :                 | -73.213990535582          |

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN]

**EnviroSite ID:** 13361245  
**EPA ID:** VTD002083434

## ARCHIVED RCRA TSDF

**Facility Name :** GENERAL DYNAMICS ARMAMENT & TECH PRODUCT  
**Facility Address :** 128 LAKESIDE AVE, BURLINGTON, VT 05401-4985

**Date Form Received by Agency :** 04/01/2005  
**EPA ID :** VTD002083434  
**Mailing Address :** 128 LAKESIDE AVE, BURLINGTON, VT 05401  
**Contact :** BRIAN FITZGERALD  
**Contact Address :** 128 LAKESIDE AVE, BURLINGTON, VT 05401-4985  
**Contact Country :** US  
**Contact Telephone :** 802-657-6209  
**Contact Email :** N/R  
**EPA Region :** 01  
**Land Type :** Private  
**Source Type :** Notification  
**Classification :** Conditionally Exempt Small Quantity Generator

### Description :

Handlers that generate 100 kilograms or less of hazardous waste per calendar month, and accumulate 1000 kg or less of hazardous waste at any time; or generate one kilogram or less of acutely hazardous waste per calendar month, and accumulate at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generate 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulate at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste.

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**EnviroSite ID:** 13361245  
**EPA ID:** VTD002083434

## ARCHIVED RCRA TSDF (cont.)

### Owner/Operator Summary

Owner/Operator Name : FORTIETH BURLINGTON LLC  
 Owner/Operator Address : N/R  
 Owner/Operator Country : US  
 Owner/Operator Telephone : N/R  
 Owner/Operator Email : N/R  
 Owner/Operator Fax : N/R  
 Legal Status : Private  
 Owner/Operator Type : Owner  
 Owner/Operator Start Date : 12/21/2000  
 Owner/Operator End Date : N/R

Owner/Operator Name : GENERAL DYNAMICS ARMAMENT & TECH PRODUCT  
 Owner/Operator Address : 128 LAKESIDE AVE, BURLINGTON, VT 05401  
 Owner/Operator Country : US  
 Owner/Operator Telephone : 802-657-6209  
 Owner/Operator Email : N/R  
 Owner/Operator Fax : N/R  
 Legal Status : Private  
 Owner/Operator Type : Operator  
 Owner/Operator Start Date : 01/01/1997  
 Owner/Operator End Date : N/R

Owner/Operator Name : GENERAL DYNAMICS ARMAMENT & TECH PRODUCT  
 Owner/Operator Address : 128 LAKESIDE AVE, BURLINGTON, VT 05401  
 Owner/Operator Country : US  
 Owner/Operator Telephone : 802-657-6209  
 Owner/Operator Email : N/R  
 Owner/Operator Fax : N/R  
 Legal Status : Private  
 Owner/Operator Type : Owner  
 Owner/Operator Start Date : 01/01/1997  
 Owner/Operator End Date : N/R

## CORRACTS

Facility Name : GENERAL DYNAMICS ARMAMENT & TECH PRODUCT  
 Facility Address : 128 LAKESIDE AVE, BURLINGTON, VT 05401-4985

EPA ID : VTD002083434  
 EPA Region : 01

HNAICS Code : 332993  
 HNAICS Code Description : AMMUNITION (EXCEPT SMALL ARMS) MANUFACTURING

HNAICS Code : 332994  
 HNAICS Code Description : SMALL ARMS MANUFACTURING

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

## CORRACTS (cont.)

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| HNAICS Code :             | 332995                                                                      |
| HNAICS Code Description : | OTHER ORDNANCE AND ACCESSORIES MANUFACTURING                                |
|                           |                                                                             |
| HNAICS Code :             | 335999                                                                      |
| HNAICS Code Description : | ALL OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT AND COMPONENT<br>MANUFACTURING |
|                           |                                                                             |
| Area Name :               | ENTIRE FACILITY                                                             |
| Actual Date :             | 09/30/2008                                                                  |
| Action :                  | READY FOR ANTICIPATED USE DETERMINATION - READY FOR<br>ANTICIPATED USE      |
| Original Schedule Date :  | 09/30/2008                                                                  |
| Schedule End Date :       | N/R                                                                         |
|                           |                                                                             |
| Area Name :               | FORMER OIL HOUSE/ FILLED LAND AREA                                          |
| Actual Date :             | 02/06/2006                                                                  |
| Action :                  | INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL                      |
| Original Schedule Date :  | N/R                                                                         |
| Schedule End Date :       | N/R                                                                         |
|                           |                                                                             |
| Area Name :               | ENTIRE FACILITY                                                             |
| Actual Date :             | 01/23/2006                                                                  |
| Action :                  | INSTITUTIONAL CONTROLS ESTABLISHED-GOVERNMENTAL CONTROL                     |
| Original Schedule Date :  | N/R                                                                         |
| Schedule End Date :       | N/R                                                                         |
|                           |                                                                             |
| Area Name :               | ENTIRE FACILITY                                                             |
| Actual Date :             | 01/23/2006                                                                  |
| Action :                  | REMEDY CONSTRUCTION-NO REMEDY CONSTRUCTED                                   |
| Original Schedule Date :  | N/R                                                                         |
| Schedule End Date :       | N/R                                                                         |
|                           |                                                                             |
| Area Name :               | ENTIRE FACILITY                                                             |
| Actual Date :             | 01/23/2006                                                                  |
| Action :                  | REMEDY DECISION                                                             |
| Original Schedule Date :  | N/R                                                                         |
| Schedule End Date :       | N/R                                                                         |
|                           |                                                                             |
| Area Name :               | ENTIRE FACILITY                                                             |
| Actual Date :             | 02/14/2003                                                                  |
| Action :                  | RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF<br>THIS DATE   |
| Original Schedule Date :  | N/R                                                                         |
| Schedule End Date :       | N/R                                                                         |



Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

## CORRACTS (cont.)

Area Name : ENTIRE FACILITY  
 Actual Date : 09/20/1999  
 Action : HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS  
 OF THIS DATE  
 Original Schedule Date : N/R  
 Schedule End Date : N/R

Area Name : ENTIRE FACILITY  
 Actual Date : 09/20/1999  
 Action : RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT  
 MEET DEFINITION  
 Original Schedule Date : N/R  
 Schedule End Date : N/R

Area Name : ENTIRE FACILITY  
 Actual Date : 08/21/1991  
 Action : CA PRIORITIZATION-MEDIUM CA PRIORITY  
 Original Schedule Date : N/R  
 Schedule End Date : N/R

Area Name : ENTIRE FACILITY  
 Actual Date : 06/30/1989  
 Action : RFA COMPLETED  
 Original Schedule Date : N/R  
 Schedule End Date : N/R

## Corrective Actions\_2020

Facility Name : GENERAL DYNAMICS ARMAMENT & TECH PRODUCT  
 Facility Address : 128 LAKESIDE AVE, BURLINGTON, VT 05401-4985

EPA ID : VTD002083434  
 Region : 1  
 Remedy Construction : YES  
 Federal Facility : N/R  
 CA725 : YE  
 CA750 : YE  
 CA550 : YE  
 CA900 : N/R

## RCRA IC\_EC

Is site a RCRA IC\_EC Facility : Yes

## RCRA\_NONGEN

Facility Name : GENERAL DYNAMICS ARMAMENT & TECH PRODUCT  
 Facility Address : 128 LAKESIDE AVE, BURLINGTON, VT 05401-4985

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

## RCRA\_NONGEN (cont.)

|                                |                                                |
|--------------------------------|------------------------------------------------|
| Date Form Received by Agency : | 04/24/2013                                     |
| EPA ID :                       | VTD002083434                                   |
| Mailing Address :              | 326 IBM ROAD BUILDING 862, WILLISTON, VT 05495 |
| Contact :                      | KERRY GRISWOLD                                 |
| Contact Address :              | 326 IBM ROAD BUILDING 862, WILLISTON, VT 05495 |
| Contact Country :              | US                                             |
| Contact Telephone :            | 802-662-6723                                   |
| Contact Email :                | KGRISWOL@GDATP.COM                             |
| EPA Region :                   | 01                                             |
| Land Type :                    | Private                                        |
| Source Type :                  | Notification                                   |
| Classification :               | Not a generator, verified                      |
| Description :                  | Not a generator, verified                      |

## Owner/Operator Summary

|                             |                         |
|-----------------------------|-------------------------|
| Owner/Operator Name :       | FORTIETH BURLINGTON LLC |
| Owner/Operator Address :    | N/R                     |
| Owner/Operator Country :    | US                      |
| Owner/Operator Telephone :  | N/R                     |
| Owner/Operator Email :      | N/R                     |
| Owner/Operator Fax :        | N/R                     |
| Legal Status :              | Private                 |
| Owner/Operator Type :       | Owner                   |
| Owner/Operator Start Date : | 12/21/2000              |
| Owner/Operator End Date :   | N/R                     |

|                             |                                          |
|-----------------------------|------------------------------------------|
| Owner/Operator Name :       | GENERAL DYNAMICS ARMAMENT & TECH PRODUCT |
| Owner/Operator Address :    | 128 LAKESIDE AVE, BURLINGTON, VT 05401   |
| Owner/Operator Country :    | US                                       |
| Owner/Operator Telephone :  | 802-657-6209                             |
| Owner/Operator Email :      | N/R                                      |
| Owner/Operator Fax :        | N/R                                      |
| Legal Status :              | Private                                  |
| Owner/Operator Type :       | Owner                                    |
| Owner/Operator Start Date : | 01/01/1997                               |
| Owner/Operator End Date :   | N/R                                      |

|                             |                                          |
|-----------------------------|------------------------------------------|
| Owner/Operator Name :       | GENERAL DYNAMICS ARMAMENT & TECH PRODUCT |
| Owner/Operator Address :    | 128 LAKESIDE AVE, BURLINGTON, VT 05401   |
| Owner/Operator Country :    | US                                       |
| Owner/Operator Telephone :  | 802-662-6209                             |
| Owner/Operator Email :      | N/R                                      |
| Owner/Operator Fax :        | N/R                                      |
| Legal Status :              | Private                                  |
| Owner/Operator Type :       | Operator                                 |
| Owner/Operator Start Date : | 01/01/1997                               |
| Owner/Operator End Date :   | 12/31/2012                               |

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

## RCRA\_NONGEN (cont.)

### Handler Activities Summary

|                                      |   |
|--------------------------------------|---|
| U.S. Importer of Hazardous Waste :   | N |
| Mixed Waste (Haz. and Radioactive) : | N |
| Recycler of Hazardous Waste :        | N |
| Transporter of Hazardous Waste :     | N |
| Treater, Storer or Disposer of HW :  | N |
| Underground Injection Activity :     | N |
| On-site Burner Exemption :           | N |
| Furnace Exemption :                  | N |
| Used Oil Fuel Burner :               | N |
| Used Oil Processor :                 | N |
| Used Oil Refiner :                   | N |
| Used Oil Fuel Marketer to Burner :   | N |
| Used Oil Specification Marketer :    | N |
| Used Oil Transfer Facility :         | N |
| Used Oil Transporter :               | N |

### Historical Generators

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Date Form Received by Agency : | 06/21/2012                                    |
| Facility Name :                | GENERAL DYNAMICS ARMAMENT & TECH PRODUCT      |
| Classification :               | Conditionally Exempt Small Quantity Generator |

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Date Form Received by Agency : | 04/01/2005                                    |
| Facility Name :                | GENERAL DYNAMICS ARMAMENT & TECH PRODUCT      |
| Classification :               | Conditionally Exempt Small Quantity Generator |

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Date Form Received by Agency : | 06/15/2004                                    |
| Facility Name :                | GENERAL DYNAMICS ARMAMENT & TECH PRODUCT      |
| Classification :               | Conditionally Exempt Small Quantity Generator |

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Date Form Received by Agency : | 11/14/2002                                    |
| Facility Name :                | GENERAL DYNAMICS ARMAMENT & TECH PRODUCT      |
| Classification :               | Conditionally Exempt Small Quantity Generator |

|                                |                                   |
|--------------------------------|-----------------------------------|
| Date Form Received by Agency : | 03/14/2002                        |
| Facility Name :                | GENERAL DYNAMICS ARMAMENT SYSTEMS |
| Classification :               | Large Quantity Generator          |

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Date Form Received by Agency : | 01/14/2002                                    |
| Facility Name :                | GENERAL DYNAMICS ARMAMENT SYSTEMS             |
| Classification :               | Conditionally Exempt Small Quantity Generator |

|                                |                                   |
|--------------------------------|-----------------------------------|
| Date Form Received by Agency : | 02/21/2001                        |
| Facility Name :                | GENERAL DYNAMICS ARMAMENT SYSTEMS |
| Classification :               | Not a generator, verified         |

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

## RCRA\_NONGEN (cont.)

Date Form Received by Agency : 02/28/2000  
 Facility Name : GENERAL DYNAMICS ARMAMENT SYSTEMS  
 Classification : Large Quantity Generator

Date Form Received by Agency : 03/12/1998  
 Facility Name : GENERAL DYNAMICS  
 Classification : Large Quantity Generator

Date Form Received by Agency : 02/23/1996  
 Facility Name : LOCKHEED MARTIN ARMAMENT SYSTEMS  
 Classification : Large Quantity Generator

Date Form Received by Agency : 02/25/1994  
 Facility Name : MARTIN MARIETTA ARMAMENT SYSTEM  
 Classification : Large Quantity Generator

Date Form Received by Agency : 01/31/1992  
 Facility Name : GENERAL ELECTRIC CO  
 Classification : Large Quantity Generator

Date Form Received by Agency : 03/29/1990  
 Facility Name : GENERAL ELECTRIC ARMAMENT SYSTEMS  
 Classification : Large Quantity Generator

Date Form Received by Agency : 11/12/1980  
 Facility Name : GENERAL DYNAMICS ARMAMENT SYSTEMS  
 Classification : Not a generator, verified

Date Form Received by Agency : 08/18/1980  
 Facility Name : GENERAL DYNAMICS ARMAMENT SYSTEMS  
 Classification : Large Quantity Generator

## Corrective Action Summary

Date / Status / CA Event Description: 09/30/2008 (Active) CA800YE - READY FOR ANTICIPATED USE  
 DETERMINATION - READY FOR ANTICIPATED USE  
 02/06/2006 (Active) CA772PR - INSTITUTIONAL CONTROLS ESTABLISHED-  
 PROPRIETARY CONTROL  
 01/23/2006 (Active) CA400 - REMEDY DECISION  
 01/23/2006 (Active) CA772GC - INSTITUTIONAL CONTROLS  
 ESTABLISHED-GOVERNMENTAL CONTROL  
 01/23/2006 (Active) CA550NR - REMEDY CONSTRUCTION-NO REMEDY  
 CONSTRUCTED  
 02/14/2003 (Active) CA750YE - RELEASE TO GW CONTROLLED  
 DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Map Id: F23  
Direction: ENE  
Distance: 0.836 mi.  
Actual: 4412.373 ft.  
Elevation: 0.021 mi. / 110.404 ft.  
Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
PRODUCT  
128 LAKESIDE AVE  
BURLINGTON, VT 05401  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
CORRECTIVE ACTIONS\_2020, RCRA  
IC\_EC, RCRA\_NONGEN] **(cont.)**

**EnviroSite ID:** 13361245  
**EPA ID:** VTD002083434

RCRA\_NONGEN **(cont.)**

09/20/1999 (Active) CA750NO - RELEASE TO GW CONTROLLED  
DETERMINATION-FACILITY DOES NOT MEET DEFINITION  
09/20/1999 (Active) CA725YE - HUMAN EXPOSURES CONTROLLED  
DETERMINATION-YES, APPLICABLE AS OF THIS DATE  
08/21/1991 (Active) CA075ME - CA PRIORITIZATION-MEDIUM CA  
PRIORITY  
06/30/1989 (Active) CA050 - RFA COMPLETED

Notices of Violations Summary

Date of Violation : 05/20/1993  
Date Achieved Compliance : 08/27/1993  
Regulation Violated : Y  
Area of Violation : Generators - Pre-transport  
Enforcement Action : WRITTEN INFORMAL  
Enforcement Action Date : 07/21/1993  
Enf. Disposition Status : N/R  
Enf. Disp. Status Date : N/R  
Violation Lead Agency : State  
Enforcement Lead Agency : State  
Proposed Penalty Amount : N/R  
Final Penalty Amount : N/R  
Paid Penalty Amount : N/R

Date of Violation : 05/20/1993  
Date Achieved Compliance : 08/27/1993  
Regulation Violated : Y  
Area of Violation : LDR - General  
Enforcement Action : WRITTEN INFORMAL  
Enforcement Action Date : 07/21/1993  
Enf. Disposition Status : N/R  
Enf. Disp. Status Date : N/R  
Violation Lead Agency : State  
Enforcement Lead Agency : State  
Proposed Penalty Amount : N/R  
Final Penalty Amount : N/R  
Paid Penalty Amount : N/R

Date of Violation : 05/20/1993  
Date Achieved Compliance : 08/27/1993  
Regulation Violated : Y  
Area of Violation : TSD - Container Use and Management  
Enforcement Action : WRITTEN INFORMAL  
Enforcement Action Date : 07/21/1993  
Enf. Disposition Status : N/R  
Enf. Disp. Status Date : N/R  
Violation Lead Agency : State  
Enforcement Lead Agency : State  
Proposed Penalty Amount : N/R  
Final Penalty Amount : N/R  
Paid Penalty Amount : N/R



Map Id: F23  
Direction: ENE  
Distance: 0.836 mi.  
Actual: 4412.373 ft.  
Elevation: 0.021 mi. / 110.404 ft.  
Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
PRODUCT  
128 LAKESIDE AVE  
BURLINGTON, VT 05401  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
CORRECTIVE ACTIONS\_2020, RCRA  
IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

RCRA\_NONGEN **(cont.)**

Date of Violation : 05/20/1993  
Date Achieved Compliance : 08/27/1993  
Regulation Violated : Y  
Area of Violation : TSD IS-Manifest/Records/Reporting  
Enforcement Action : WRITTEN INFORMAL  
Enforcement Action Date : 07/21/1993  
Enf. Disposition Status : N/R  
Enf. Disp. Status Date : N/R  
Violation Lead Agency : State  
Enforcement Lead Agency : State  
Proposed Penalty Amount : N/R  
Final Penalty Amount : N/R  
Paid Penalty Amount : N/R

Date of Violation : 09/13/1991  
Date Achieved Compliance : 02/13/1992  
Regulation Violated : Y  
Area of Violation : Generators - Manifest  
Enforcement Action : WRITTEN INFORMAL  
Enforcement Action Date : 10/25/1991  
Enf. Disposition Status : N/R  
Enf. Disp. Status Date : N/R  
Violation Lead Agency : State  
Enforcement Lead Agency : State  
Proposed Penalty Amount : N/R  
Final Penalty Amount : N/R  
Paid Penalty Amount : N/R

Date of Violation : 09/13/1991  
Date Achieved Compliance : 02/13/1992  
Regulation Violated : Y  
Area of Violation : Generators - Records/Reporting  
Enforcement Action : WRITTEN INFORMAL  
Enforcement Action Date : 10/25/1991  
Enf. Disposition Status : N/R  
Enf. Disp. Status Date : N/R  
Violation Lead Agency : State  
Enforcement Lead Agency : State  
Proposed Penalty Amount : N/R  
Final Penalty Amount : N/R  
Paid Penalty Amount : N/R

Date of Violation : 09/13/1991  
Date Achieved Compliance : 02/13/1992  
Regulation Violated : Y  
Area of Violation : TSD - General Facility Standards  
Enforcement Action : WRITTEN INFORMAL  
Enforcement Action Date : 10/25/1991  
Enf. Disposition Status : N/R  
Enf. Disp. Status Date : N/R  
Violation Lead Agency : State

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

## RCRA\_NONGEN (cont.)

|                           |       |
|---------------------------|-------|
| Enforcement Lead Agency : | State |
| Proposed Penalty Amount : | N/R   |
| Final Penalty Amount :    | N/R   |
| Paid Penalty Amount :     | N/R   |

|                            |                  |
|----------------------------|------------------|
| Date of Violation :        | 09/26/1990       |
| Date Achieved Compliance : | 01/28/1991       |
| Regulation Violated :      | Y                |
| Area of Violation :        | LDR - General    |
| Enforcement Action :       | WRITTEN INFORMAL |
| Enforcement Action Date :  | 01/14/1991       |
| Enf. Disposition Status :  | N/R              |
| Enf. Disp. Status Date :   | N/R              |
| Violation Lead Agency :    | State            |
| Enforcement Lead Agency :  | State            |
| Proposed Penalty Amount :  | N/R              |
| Final Penalty Amount :     | N/R              |
| Paid Penalty Amount :      | N/R              |

|                            |               |
|----------------------------|---------------|
| Date of Violation :        | 09/26/1990    |
| Date Achieved Compliance : | 09/13/1991    |
| Regulation Violated :      | Y             |
| Area of Violation :        | LDR - General |
| Enforcement Action :       | N/R           |
| Enforcement Action Date :  | N/R           |
| Enf. Disposition Status :  | N/R           |
| Enf. Disp. Status Date :   | N/R           |
| Violation Lead Agency :    | State         |
| Enforcement Lead Agency :  | N/R           |
| Proposed Penalty Amount :  | N/R           |
| Final Penalty Amount :     | N/R           |
| Paid Penalty Amount :      | N/R           |

|                            |                                      |
|----------------------------|--------------------------------------|
| Date of Violation :        | 05/23/1988                           |
| Date Achieved Compliance : | 09/13/1991                           |
| Regulation Violated :      | Y                                    |
| Area of Violation :        | LDR - General                        |
| Enforcement Action :       | STATE TO EPA ADMINISTRATIVE REFERRAL |
| Enforcement Action Date :  | 06/28/1988                           |
| Enf. Disposition Status :  | N/R                                  |
| Enf. Disp. Status Date :   | N/R                                  |
| Violation Lead Agency :    | EPA                                  |
| Enforcement Lead Agency :  | State                                |
| Proposed Penalty Amount :  | N/R                                  |
| Final Penalty Amount :     | N/R                                  |
| Paid Penalty Amount :      | N/R                                  |

|                            |            |
|----------------------------|------------|
| Date of Violation :        | 05/23/1988 |
| Date Achieved Compliance : | 09/13/1991 |
| Regulation Violated :      | Y          |

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

## RCRA\_NONGEN (cont.)

Area of Violation : LDR - General  
 Enforcement Action : WRITTEN INFORMAL  
 Enforcement Action Date : 07/13/1988  
 Enf. Disposition Status : N/R  
 Enf. Disp. Status Date : N/R  
 Violation Lead Agency : EPA  
 Enforcement Lead Agency : EPA  
 Proposed Penalty Amount : N/R  
 Final Penalty Amount : N/R  
 Paid Penalty Amount : N/R

Date of Violation : 05/23/1988  
 Date Achieved Compliance : 10/10/1988  
 Regulation Violated : Y  
 Area of Violation : TSD - General  
 Enforcement Action : WRITTEN INFORMAL  
 Enforcement Action Date : 06/10/1988  
 Enf. Disposition Status : N/R  
 Enf. Disp. Status Date : N/R  
 Violation Lead Agency : State  
 Enforcement Lead Agency : State  
 Proposed Penalty Amount : N/R  
 Final Penalty Amount : N/R  
 Paid Penalty Amount : N/R

Date of Violation : 05/23/1988  
 Date Achieved Compliance : 10/10/1988  
 Regulation Violated : Y  
 Area of Violation : TSD - General  
 Enforcement Action : WRITTEN INFORMAL  
 Enforcement Action Date : 07/13/1988  
 Enf. Disposition Status : N/R  
 Enf. Disp. Status Date : N/R  
 Violation Lead Agency : State  
 Enforcement Lead Agency : EPA  
 Proposed Penalty Amount : N/R  
 Final Penalty Amount : N/R  
 Paid Penalty Amount : N/R

Date of Violation : 04/16/1987  
 Date Achieved Compliance : 07/06/1987  
 Regulation Violated : Y  
 Area of Violation : TSD - General  
 Enforcement Action : WRITTEN INFORMAL  
 Enforcement Action Date : 05/08/1987  
 Enf. Disposition Status : N/R  
 Enf. Disp. Status Date : N/R  
 Violation Lead Agency : State  
 Enforcement Lead Agency : State  
 Proposed Penalty Amount : N/R  
 Final Penalty Amount : N/R

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

#### RCRA\_NONGEN (cont.)

|                            |                                       |
|----------------------------|---------------------------------------|
| Paid Penalty Amount :      | N/R                                   |
|                            |                                       |
| Date of Violation :        | 05/16/1986                            |
| Date Achieved Compliance : | 09/13/1991                            |
| Regulation Violated :      | Y                                     |
| Area of Violation :        | Formal Enforcement Agreement or Order |
| Enforcement Action :       | N/R                                   |
| Enforcement Action Date :  | N/R                                   |
| Enf. Disposition Status :  | N/R                                   |
| Enf. Disp. Status Date :   | N/R                                   |
| Violation Lead Agency :    | State                                 |
| Enforcement Lead Agency :  | N/R                                   |
| Proposed Penalty Amount :  | N/R                                   |
| Final Penalty Amount :     | N/R                                   |
| Paid Penalty Amount :      | N/R                                   |
|                            |                                       |
| Date of Violation :        | 03/03/1986                            |
| Date Achieved Compliance : | 07/03/1986                            |
| Regulation Violated :      | Y                                     |
| Area of Violation :        | TSD - General                         |
| Enforcement Action :       | WRITTEN INFORMAL                      |
| Enforcement Action Date :  | 03/13/1986                            |
| Enf. Disposition Status :  | N/R                                   |
| Enf. Disp. Status Date :   | N/R                                   |
| Violation Lead Agency :    | EPA                                   |
| Enforcement Lead Agency :  | EPA                                   |
| Proposed Penalty Amount :  | N/R                                   |
| Final Penalty Amount :     | N/R                                   |
| Paid Penalty Amount :      | N/R                                   |
|                            |                                       |
| Date of Violation :        | 03/03/1986                            |
| Date Achieved Compliance : | 07/03/1986                            |
| Regulation Violated :      | Y                                     |
| Area of Violation :        | TSD - General                         |
| Enforcement Action :       | WRITTEN INFORMAL                      |
| Enforcement Action Date :  | 05/26/1986                            |
| Enf. Disposition Status :  | N/R                                   |
| Enf. Disp. Status Date :   | N/R                                   |
| Violation Lead Agency :    | EPA                                   |
| Enforcement Lead Agency :  | State                                 |
| Proposed Penalty Amount :  | N/R                                   |
| Final Penalty Amount :     | N/R                                   |
| Paid Penalty Amount :      | N/R                                   |
|                            |                                       |
| Date of Violation :        | 01/28/1986                            |
| Date Achieved Compliance : | 02/03/1986                            |
| Regulation Violated :      | Y                                     |
| Area of Violation :        | TSD - General                         |
| Enforcement Action :       | WRITTEN INFORMAL                      |
| Enforcement Action Date :  | 01/28/1986                            |

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSD, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**EnviroSite ID:** 13361245  
**EPA ID:** VTD002083434

## RCRA\_NONGEN (cont.)

|                            |                                |
|----------------------------|--------------------------------|
| Enf. Disposition Status :  | N/R                            |
| Enf. Disp. Status Date :   | N/R                            |
| Violation Lead Agency :    | State                          |
| Enforcement Lead Agency :  | State                          |
| Proposed Penalty Amount :  | N/R                            |
| Final Penalty Amount :     | N/R                            |
| Paid Penalty Amount :      | N/R                            |
|                            |                                |
| Date of Violation :        | 10/23/1984                     |
| Date Achieved Compliance : | 02/01/1985                     |
| Regulation Violated :      | Y                              |
| Area of Violation :        | TSD - General                  |
| Enforcement Action :       | FINAL 3008(A) COMPLIANCE ORDER |
| Enforcement Action Date :  | 01/03/1985                     |
| Enf. Disposition Status :  | N/R                            |
| Enf. Disp. Status Date :   | N/R                            |
| Violation Lead Agency :    | State                          |
| Enforcement Lead Agency :  | State                          |
| Proposed Penalty Amount :  | N/R                            |
| Final Penalty Amount :     | N/R                            |
| Paid Penalty Amount :      | N/R                            |
|                            |                                |
| Date of Violation :        | 10/23/1984                     |
| Date Achieved Compliance : | 02/01/1985                     |
| Regulation Violated :      | Y                              |
| Area of Violation :        | TSD - General                  |
| Enforcement Action :       | N/R                            |
| Enforcement Action Date :  | N/R                            |
| Enf. Disposition Status :  | N/R                            |
| Enf. Disp. Status Date :   | N/R                            |
| Violation Lead Agency :    | State                          |
| Enforcement Lead Agency :  | N/R                            |
| Proposed Penalty Amount :  | N/R                            |
| Final Penalty Amount :     | N/R                            |
| Paid Penalty Amount :      | N/R                            |
|                            |                                |
| Date of Violation :        | 10/23/1984                     |
| Date Achieved Compliance : | 09/13/1991                     |
| Regulation Violated :      | Y                              |
| Area of Violation :        | TSD - General                  |
| Enforcement Action :       | N/R                            |
| Enforcement Action Date :  | N/R                            |
| Enf. Disposition Status :  | N/R                            |
| Enf. Disp. Status Date :   | N/R                            |
| Violation Lead Agency :    | EPA                            |
| Enforcement Lead Agency :  | N/R                            |
| Proposed Penalty Amount :  | N/R                            |
| Final Penalty Amount :     | N/R                            |
| Paid Penalty Amount :      | N/R                            |



Map Id: F23  
Direction: ENE  
Distance: 0.836 mi.  
Actual: 4412.373 ft.  
Elevation: 0.021 mi. / 110.404 ft.  
Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
PRODUCT  
128 LAKESIDE AVE  
BURLINGTON, VT 05401  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
CORRECTIVE ACTIONS\_2020, RCRA  
IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

#### RCRA\_NONGEN (cont.)

Date of Violation : 06/27/1984  
Date Achieved Compliance : 09/13/1991  
Regulation Violated : Y  
Area of Violation : Formal Enforcement Agreement or Order  
Enforcement Action : N/R  
Enforcement Action Date : N/R  
Enf. Disposition Status : N/R  
Enf. Disp. Status Date : N/R  
Violation Lead Agency : State  
Enforcement Lead Agency : N/R  
Proposed Penalty Amount : N/R  
Final Penalty Amount : N/R  
Paid Penalty Amount : N/R

Date of Violation : 05/09/1984  
Date Achieved Compliance : 04/05/1985  
Regulation Violated : Y  
Area of Violation : TSD - General  
Enforcement Action : WRITTEN INFORMAL  
Enforcement Action Date : 05/21/1984  
Enf. Disposition Status : N/R  
Enf. Disp. Status Date : N/R  
Violation Lead Agency : State  
Enforcement Lead Agency : State  
Proposed Penalty Amount : N/R  
Final Penalty Amount : N/R  
Paid Penalty Amount : N/R

#### Evaluation Action Summary

Evaluation Date : 01/22/1998  
Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of Violation : N/R  
Date Achieved Compliance : N/R  
Evaluation Lead Agency : State

Evaluation Date : 08/31/1994  
Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of Violation : N/R  
Date Achieved Compliance : N/R  
Evaluation Lead Agency : State

Evaluation Date : 08/27/1993  
Evaluation : COMPLIANCE SCHEDULE EVALUATION  
Area of Violation : N/R  
Date Achieved Compliance : N/R  
Evaluation Lead Agency : State

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

## RCRA\_NONGEN (cont.)

Evaluation Date : 05/20/1993  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : Generators - Pre-transport  
 Date Achieved Compliance : 08/27/1993  
 Evaluation Lead Agency : State

Evaluation Date : 05/20/1993  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : LDR - General  
 Date Achieved Compliance : 08/27/1993  
 Evaluation Lead Agency : State

Evaluation Date : 05/20/1993  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : TSD - Container Use and Management  
 Date Achieved Compliance : 08/27/1993  
 Evaluation Lead Agency : State

Evaluation Date : 05/20/1993  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : TSD IS-Manifest/Records/Reporting  
 Date Achieved Compliance : 08/27/1993  
 Evaluation Lead Agency : State

Evaluation Date : 05/27/1992  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : N/R  
 Date Achieved Compliance : N/R  
 Evaluation Lead Agency : State

Evaluation Date : 02/13/1992  
 Evaluation : COMPLIANCE SCHEDULE EVALUATION  
 Area of Violation : N/R  
 Date Achieved Compliance : N/R  
 Evaluation Lead Agency : State

Evaluation Date : 09/13/1991  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : Generators - Manifest  
 Date Achieved Compliance : 02/13/1992  
 Evaluation Lead Agency : State

Evaluation Date : 09/13/1991  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : Generators - Records/Reporting  
 Date Achieved Compliance : 02/13/1992  
 Evaluation Lead Agency : State

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

## RCRA\_NONGEN (cont.)

Evaluation Date : 09/13/1991  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : TSD - General Facility Standards  
 Date Achieved Compliance : 02/13/1992  
 Evaluation Lead Agency : State

Evaluation Date : 01/28/1991  
 Evaluation : COMPLIANCE SCHEDULE EVALUATION  
 Area of Violation : N/R  
 Date Achieved Compliance : N/R  
 Evaluation Lead Agency : State

Evaluation Date : 09/26/1990  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : LDR - General  
 Date Achieved Compliance : 01/28/1991  
 Evaluation Lead Agency : State

Evaluation Date : 09/26/1990  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : LDR - General  
 Date Achieved Compliance : 09/13/1991  
 Evaluation Lead Agency : State

Evaluation Date : 09/13/1989  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : N/R  
 Date Achieved Compliance : N/R  
 Evaluation Lead Agency : State

Evaluation Date : 10/10/1988  
 Evaluation : COMPLIANCE SCHEDULE EVALUATION  
 Area of Violation : N/R  
 Date Achieved Compliance : N/R  
 Evaluation Lead Agency : State

Evaluation Date : 05/23/1988  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : LDR - General  
 Date Achieved Compliance : 09/13/1991  
 Evaluation Lead Agency : State

Evaluation Date : 05/23/1988  
 Evaluation : COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of Violation : TSD - General  
 Date Achieved Compliance : 10/10/1988  
 Evaluation Lead Agency : State

Map Id: F23  
 Direction: ENE  
 Distance: 0.836 mi.  
 Actual: 4412.373 ft.  
 Elevation: 0.021 mi. / 110.404 ft.  
 Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
 PRODUCT  
 128 LAKESIDE AVE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
 CORRECTIVE ACTIONS\_2020, RCRA  
 IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

## RCRA\_NONGEN (cont.)

|                            |                                          |
|----------------------------|------------------------------------------|
| Evaluation Date :          | 08/21/1987                               |
| Evaluation :               | FINANCIAL RECORD REVIEW                  |
| Area of Violation :        | N/R                                      |
| Date Achieved Compliance : | N/R                                      |
| Evaluation Lead Agency :   | State                                    |
|                            |                                          |
| Evaluation Date :          | 07/06/1987                               |
| Evaluation :               | COMPLIANCE SCHEDULE EVALUATION           |
| Area of Violation :        | N/R                                      |
| Date Achieved Compliance : | N/R                                      |
| Evaluation Lead Agency :   | State                                    |
|                            |                                          |
| Evaluation Date :          | 04/16/1987                               |
| Evaluation :               | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of Violation :        | TSD - General                            |
| Date Achieved Compliance : | 07/06/1987                               |
| Evaluation Lead Agency :   | EPA                                      |
|                            |                                          |
| Evaluation Date :          | 04/16/1987                               |
| Evaluation :               | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of Violation :        | TSD - General                            |
| Date Achieved Compliance : | 07/06/1987                               |
| Evaluation Lead Agency :   | State                                    |
|                            |                                          |
| Evaluation Date :          | 07/03/1986                               |
| Evaluation :               | COMPLIANCE SCHEDULE EVALUATION           |
| Area of Violation :        | N/R                                      |
| Date Achieved Compliance : | N/R                                      |
| Evaluation Lead Agency :   | State                                    |
|                            |                                          |
| Evaluation Date :          | 05/16/1986                               |
| Evaluation :               | COMPLIANCE SCHEDULE EVALUATION           |
| Area of Violation :        | Formal Enforcement Agreement or Order    |
| Date Achieved Compliance : | 09/13/1991                               |
| Evaluation Lead Agency :   | State                                    |
|                            |                                          |
| Evaluation Date :          | 03/03/1986                               |
| Evaluation :               | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of Violation :        | TSD - General                            |
| Date Achieved Compliance : | 07/03/1986                               |
| Evaluation Lead Agency :   | EPA                                      |
|                            |                                          |
| Evaluation Date :          | 01/28/1986                               |
| Evaluation :               | NON-FINANCIAL RECORD REVIEW              |
| Area of Violation :        | TSD - General                            |
| Date Achieved Compliance : | 02/03/1986                               |
| Evaluation Lead Agency :   | State                                    |

Map Id: F23  
Direction: ENE  
Distance: 0.836 mi.  
Actual: 4412.373 ft.  
Elevation: 0.021 mi. / 110.404 ft.  
Relative: Lower

**Site Name :** GENERAL DYNAMICS ARMAMENT & TECH  
PRODUCT  
128 LAKESIDE AVE  
BURLINGTON, VT 05401  
**Database(s) :** [ARCHIVED RCRA TSDF, CORRACTS,  
CORRECTIVE ACTIONS\_2020, RCRA  
IC\_EC, RCRA\_NONGEN] **(cont.)**

**Envirosite ID:** 13361245  
**EPA ID:** VTD002083434

RCRA\_NONGEN **(cont.)**

|                            |                                          |
|----------------------------|------------------------------------------|
| Evaluation Date :          | 04/05/1985                               |
| Evaluation :               | COMPLIANCE SCHEDULE EVALUATION           |
| Area of Violation :        | N/R                                      |
| Date Achieved Compliance : | N/R                                      |
| Evaluation Lead Agency :   | State                                    |
|                            |                                          |
| Evaluation Date :          | 02/01/1985                               |
| Evaluation :               | COMPLIANCE SCHEDULE EVALUATION           |
| Area of Violation :        | N/R                                      |
| Date Achieved Compliance : | N/R                                      |
| Evaluation Lead Agency :   | State                                    |
|                            |                                          |
| Evaluation Date :          | 10/23/1984                               |
| Evaluation :               | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of Violation :        | TSD - General                            |
| Date Achieved Compliance : | 02/01/1985                               |
| Evaluation Lead Agency :   | EPA                                      |
|                            |                                          |
| Evaluation Date :          | 10/23/1984                               |
| Evaluation :               | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of Violation :        | TSD - General                            |
| Date Achieved Compliance : | 02/01/1985                               |
| Evaluation Lead Agency :   | State                                    |
|                            |                                          |
| Evaluation Date :          | 10/23/1984                               |
| Evaluation :               | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of Violation :        | TSD - General                            |
| Date Achieved Compliance : | 09/13/1991                               |
| Evaluation Lead Agency :   | EPA                                      |
|                            |                                          |
| Evaluation Date :          | 06/27/1984                               |
| Evaluation :               | COMPLIANCE SCHEDULE EVALUATION           |
| Area of Violation :        | Formal Enforcement Agreement or Order    |
| Date Achieved Compliance : | 09/13/1991                               |
| Evaluation Lead Agency :   | State                                    |
|                            |                                          |
| Evaluation Date :          | 05/09/1984                               |
| Evaluation :               | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of Violation :        | TSD - General                            |
| Date Achieved Compliance : | 04/05/1985                               |
| Evaluation Lead Agency :   | State                                    |



Map Id: F24  
Direction: ENE  
Distance: 0.840 mi.  
Actual: 4436.525 ft.  
Elevation: 0.021 mi. / 110.492 ft.  
Relative: Lower

**Site Name :** GENERAL ELECTRIC CO LAKESIDE AVE  
PLANT  
LAKESIDE AVENUE  
BURLINGTON, VT 05401  
**Database(s) :** [CERCLIS-HIST, PART NPL,  
SEMS\_8R\_ACTIVE SITES]

**Envirosite ID:** 1324560  
**EPA ID:** VTD002083434

## CERCLIS-HIST

Facility Name : GENERAL ELECTRIC CO LAKESIDE AVE PLANT  
Facility Address : LAKESIDE AVENUE, BURLINGTON, VT 05401  
County : CHITTENDEN

Site ID : 0101446  
Epa ID : VTD002083434  
Short Name : GENERAL ELECTRIC CO LAKES  
Congressional District : 01  
IFMS ID : N/R  
SMSA Number : 1305  
USGC Hydro Unit : 02010003  
Federal Facility : N  
DMNSN Number : N/R  
Site Orphan Flag : N  
RCRA ID : Y  
USGS Quadrangle : N/R  
Site Init by Prog : N/R  
NFRAP Flag : N/R  
Parent ID : 0101479  
RST Code : N/R  
EPA Region : 01  
Classification : N/R  
Site Settings Code : N/R  
NPL Status : Site is Part of NPL Site  
DMNSN Unit Code : N/R  
RBRAC Code : N/R  
RResp Fed Agency Code : N/R  
Non NPL Status : N/R  
Non NPL Status Date : N/R  
Site Fips Code : 50007  
CC Concurrence Date : N/R  
CC Concurrence FY : N/R  
Alias EPA ID : N/R  
Site FUDS Flag : N/R

## CERCLIS Site Contact Name(s)

Contact ID : 1270095  
Contact Name : Martha Bosworth  
Contact Tel. : 6179181407  
Contact Title : Site Assessment Manager (SAM)  
Contact Email : bosworth.martha@epamail.epa.gov

Alias Comments : N/R  
Site Description : N/R

## CERCLIS Assessment History

Action Code : 001  
Action : DISCOVERY  
Date Started : N/R

Map Id: F24  
 Direction: ENE  
 Distance: 0.840 mi.  
 Actual: 4436.525 ft.  
 Elevation: 0.021 mi. / 110.492 ft.  
 Relative: Lower

**Site Name :** GENERAL ELECTRIC CO LAKESIDE AVE  
 PLANT  
 LAKESIDE AVENUE  
 BURLINGTON, VT 05401  
  
**Database(s) :** [CERCLIS-HIST, PART NPL,  
 SEMS\_8R\_ACTIVE SITES] **(cont.)**

**Envirosite ID:** 1324560  
**EPA ID:** VTD002083434

## CERCLIS-HIST **(cont.)**

|                          |                        |
|--------------------------|------------------------|
| Date Completed :         | 06/01/1981             |
| Priority Level :         | 1                      |
| Operational Unit :       | 00                     |
| Primary Responsibility : | F                      |
| Planning Status :        | N/R                    |
| Urgency Indicator :      | N/R                    |
| Action Anomaly :         | N/R                    |
|                          |                        |
| Action Code :            | 001                    |
| Action :                 | PRELIMINARY ASSESSMENT |
| Date Started :           | 06/18/1985             |
| Date Completed :         | 09/30/1985             |
| Priority Level :         | 1                      |
| Operational Unit :       | 00                     |
| Primary Responsibility : | S                      |
| Planning Status :        | N/R                    |
| Urgency Indicator :      | N/R                    |
| Action Anomaly :         | N/R                    |
|                          |                        |
| Action Code :            | 001                    |
| Action :                 | SITE INSPECTION        |
| Date Started :           | N/R                    |
| Date Completed :         | 05/18/1988             |
| Priority Level :         | 1                      |
| Operational Unit :       | 00                     |
| Primary Responsibility : | F                      |
| Planning Status :        | N/R                    |
| Urgency Indicator :      | N/R                    |
| Action Anomaly :         | N/R                    |

## PART NPL

|                    |                                        |
|--------------------|----------------------------------------|
| Facility Name :    | GENERAL ELECTRIC CO LAKESIDE AVE PLANT |
| Facility Address : | LAKESIDE AVENUE, BURLINGTON, VT 05401  |
| County :           | CHITTENDEN                             |

## Site Details

|                            |                                                                  |
|----------------------------|------------------------------------------------------------------|
| NPL Status :               | Site is Part of NPL Site                                         |
| Non-NPL Status :           | N/R                                                              |
| Non-NPL Status Date :      | N/R                                                              |
| EPA ID :                   | VTD002083434                                                     |
| EPA Region :               | 01                                                               |
| Parent Site :              | PINE STREET CANAL                                                |
| Federal Facility Flag :    | Not a Federal Facility                                           |
| Incident Category :        | N/R                                                              |
| Latitude :                 | 44.463333                                                        |
| Longitude :                | -73.218889                                                       |
| Facility Details Link :    | <a href="#">Click here for hyperlink provided by the agency.</a> |
| Last Date in Agency List : | 09/03/2018                                                       |

Map Id: F24  
Direction: ENE  
Distance: 0.840 mi.  
Actual: 4436.525 ft.  
Elevation: 0.021 mi. / 110.492 ft.  
Relative: Lower

**Site Name :** GENERAL ELECTRIC CO LAKESIDE AVE  
PLANT  
LAKESIDE AVENUE  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, PART NPL,  
SEMS\_8R\_ACTIVE SITES] **(cont.)**

**Envirosite ID:** 1324560  
**EPA ID:** VTD002083434

**PART NPL (cont.)**

**Additional Information**

Alias Name : N/R  
Alias Address : N/R

**Operable Units Information**

OU ID : 00  
OU Name : SITEWIDE

**Contaminant Information**

Contaminant : N/R  
Media : N/R

**Contact Information**

Contact Name : Site Assessment Manager (SAM)  
Contact Title : Martha Bosworth  
Phone Number : (617) 918-1407

**SEMS\_8R\_ACTIVE SITES**

Facility Name : GENERAL ELECTRIC CO LAKESIDE AVE PLANT  
Facility Address : LAKESIDE AVENUE, BURLINGTON, VT 05401  
County : CHITTENDEN

**Site Details**

Site ID : 0101446  
EPA ID : VTD002083434  
Region : 01  
Congressional District : 01  
Federal Facility : N  
NPL Status : Site is Part of NPL Site  
Non NPL Status : N/R  
FIPS Code : 50007  
Latitude : N/R  
Longitude : N/R  
Last Date in Agency List : 09/03/2018

**Additional Information**

Start Date : 06/18/1985  
Finish Date : 09/30/1985  
OU : 00  
Action Code : PA  
Action Name : PA  
Sequence : 1  
Quality : L

Map Id: F24  
 Direction: ENE  
 Distance: 0.840 mi.  
 Actual: 4436.525 ft.  
 Elevation: 0.021 mi. / 110.492 ft.  
 Relative: Lower

**Site Name :** GENERAL ELECTRIC CO LAKESIDE AVE  
 PLANT  
 LAKESIDE AVENUE  
 BURLINGTON, VT 05401  
**Database(s) :** [CERCLIS-HIST, PART NPL,  
 SEMS\_8R\_ACTIVE SITES] **(cont.)**

**Envirosite ID:** 1324560  
**EPA ID:** VTD002083434

## SEMS\_8R\_ACTIVE SITES **(cont.)**

|                       |            |
|-----------------------|------------|
| Current Action Lead : | St Perf    |
| Start Date :          | 06/01/1981 |
| Finish Date :         | 06/01/1981 |
| OU :                  | 00         |
| Action Code :         | DS         |
| Action Name :         | DISCVRY    |
| Sequence :            | 1          |
| Quality :             | N/R        |
| Current Action Lead : | EPA Perf   |
| Start Date :          | N/R        |
| Finish Date :         | 05/18/1988 |
| OU :                  | 00         |
| Action Code :         | SI         |
| Action Name :         | SI         |
| Sequence :            | 1          |
| Quality :             | A          |
| Current Action Lead : | EPA Perf   |

Map Id: G25  
 Direction: ENE  
 Distance: 0.853 mi.  
 Actual: 4505.377 ft.  
 Elevation: 0.024 mi. / 126.168 ft.  
 Relative: Higher

**Site Name :** Burlington Food Service  
 Pine St.  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1114620  
**EPA ID:** N/R

## SHWS - VT

|                           |                                  |
|---------------------------|----------------------------------|
| Facility Name :           | Burlington Food Service          |
| Facility Address :        | Pine St., Burlington             |
| County :                  | Chittenden                       |
| Discovery Date :          | N/R                              |
| Closure Date :            | N/R                              |
| Site Number :             | 890383                           |
| Site Use :                | N/R                              |
| Priority :                | NFAP - No Further Action Planned |
| Site Status :             | N/R                              |
| Project Status :          | Site Closed                      |
| Source of Contamination : | UST-Gasoline                     |
| Contaminant :             | N/R                              |
| Institutional Control :   | N/R                              |
| Site Closure Date :       | N/R                              |
| Record Last Updated :     | 10/30/2007                       |
| DEC Manager :             | Unassigned                       |
| DEC Staff Person :        | Unassigned                       |

Map Id: G25  
 Direction: ENE  
 Distance: 0.853 mi.  
 Actual: 4505.377 ft.  
 Elevation: 0.024 mi. / 126.168 ft.  
 Relative: Higher

**Site Name :** Burlington Food Service  
 Pine St.  
 Burlington, VT  
**Database(s) :** [SHWS - VT] **(cont.)**

**Envirosite ID:** 1114620  
**EPA ID:** N/R

## SHWS - VT (cont.)

DEC Contact Email Address : Chuck.Schwer@vermont.gov  
 Latitude : 44.458624038  
 Longitude : -73.2147934036

Map Id: G26  
 Direction: ENE  
 Distance: 0.854 mi.  
 Actual: 4507.719 ft.  
 Elevation: 0.024 mi. / 129.219 ft.  
 Relative: Higher

**Site Name :** NOYES AUTOMOTIVE  
 777 PINE ST  
 BURLINGTON, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 12067373  
**EPA ID:** N/R

## SHWS - VT

Facility Name : Noyes Automotive  
 Facility Address : 777 Pine St, Burlington  
 County : N/R

Discovery Date : 06/16/2014  
 Closure Date : N/R  
 Site Number : 20144505  
 Site Use : Commercial - Retail

Priority : LOW - Site with contamination to soils or groundwater, but no effect on sensitive receptors

Site Status : Voluntary Action

Project Status : Contamination encountered during removal of two heating oil USTs. Additional work needed to determine extent of contamination. Initial Site Investigation performed summer 2015, supports SMAC upon well closure.

Source of Contamination : UST-Heating Oil  
 Contaminant : Heating Oil  
 Institutional Control : N/R  
 Site Closure Date : N/R  
 Record Last Updated : 11/22/2016  
 DEC Manager : James Donaldson  
 DEC Staff Person : James Donaldson  
 DEC Contact Email Address : James.Donaldson@vermont.gov  
 Latitude : 44.457879276662  
 Longitude : -73.2146428809509



Map Id: F27  
 Direction: ENE  
 Distance: 0.873 mi.  
 Actual: 4609.475 ft.  
 Elevation: 0.021 mi. / 112.011 ft.  
 Relative: Lower

**Site Name :** Former Weissner Property  
 Lakeside Ave  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1115519  
**EPA ID:** N/R

## SHWS - VT

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Facility Name :             | Former Weissner Property                    |
| Facility Address :          | Lakeside Ave, Burlington                    |
| County :                    | Chittenden                                  |
| Discovery Date :            | N/R                                         |
| Closure Date :              | N/R                                         |
| Site Number :               | 770124                                      |
| Site Use :                  | Industrial                                  |
| Priority :                  | SMAC - Site Management Activities Completed |
| Site Status :               | N/R                                         |
| Project Status :            | Inactive                                    |
| Source of Contamination :   | N/R                                         |
| Contaminant :               | Gasoline                                    |
| Institutional Control :     | N/R                                         |
| Site Closure Date :         | N/R                                         |
| Record Last Updated :       | N/R                                         |
| DEC Manager :               | Stan Corneille                              |
| DEC Staff Person :          | Stan Corneille                              |
| DEC Contact Email Address : | Chuck.Schwer@vermont.gov                    |
| Latitude :                  | 44.4611475524                               |
| Longitude :                 | -73.216521                                  |

Map Id: G28  
 Direction: ENE  
 Distance: 0.880 mi.  
 Actual: 4648.092 ft.  
 Elevation: 0.023 mi. / 122.195 ft.  
 Relative: Higher

**Site Name :** Burlington Grocery  
 747 Pine Street  
 Burlington, VT 05401  
**Database(s) :** [SHWS - VT, UST - VT]

**Envirosite ID:** 1121807  
**EPA ID:** N/R

## SHWS - VT

|                           |                                                                                                                                                                                                                                                                              |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Facility Name :           | Burlington Grocery                                                                                                                                                                                                                                                           |
| Facility Address :        | 747 Pine Street, Burlington                                                                                                                                                                                                                                                  |
| County :                  | Chittenden                                                                                                                                                                                                                                                                   |
| Discovery Date :          | 01/08/2008                                                                                                                                                                                                                                                                   |
| Closure Date :            | 07/29/2009                                                                                                                                                                                                                                                                   |
| Site Number :             | 20083804                                                                                                                                                                                                                                                                     |
| Site Use :                | Business                                                                                                                                                                                                                                                                     |
| Priority :                | SMAC - Site Management Activities Completed                                                                                                                                                                                                                                  |
| Site Status :             | N/R                                                                                                                                                                                                                                                                          |
| Project Status :          | One fuel oil UST closed July 2008. ISI conducted January 2009, two MWS contained TPH in excess of 1,000 mg/kg. No sensitive receptors effected. Additional groundwater monitoring conducted May 2009. No petroleum VOCs in excess of VGES, no TPH in excess of action level. |
| Source of Contamination : | UST-Heating Oil                                                                                                                                                                                                                                                              |
| Contaminant :             | Heating Oil                                                                                                                                                                                                                                                                  |
| Institutional Control :   | N/R                                                                                                                                                                                                                                                                          |

Map Id: G28  
 Direction: ENE  
 Distance: 0.880 mi.  
 Actual: 4648.092 ft.  
 Elevation: 0.023 mi. / 122.195 ft.  
 Relative: Higher

**Site Name :** Burlington Grocery  
 747 Pine Street  
 Burlington, VT 05401  
**Database(s) :** [SHWS - VT, UST - VT] **(cont.)**

**Envirosite ID:** 1121807  
**EPA ID:** N/R

## SHWS - VT **(cont.)**

Site Closure Date : 07/29/2009  
 Record Last Updated : 07/31/2009  
 DEC Manager : Sarah Bartlett  
 DEC Staff Person : Sarah Bartlett  
 DEC Contact Email Address : Sarah.Bartlett@vermont.gov  
 Latitude : 44.4588902845  
 Longitude : -73.2149845986

## UST - VT

Facility Name : Burlington Grocery  
 Facility Address : 747 Pine Street, Burlington, VT 05401  
 County : Chittenden

## Site Details

Facility ID : 8645708  
 Facility Status : PULLED  
 Facility Phone : N/R  
 Permitted to : Tank Owner  
 Owner Name : Burlington Food Service Company  
 Owner Person : N/R  
 Owner Address : PO Box 547, Burlington, VT 05401  
 Owner Phone : 802-864-5708  
 Operator Name : Burlington Food Service Company  
 Operator Person : N/R  
 Operator Address : PO Box 547, Burlington, VT 05401  
 Operator Phone : 802-864-5708  
 Land Owner : Cooper Enterprises Inc  
 Type of Facility : Industrial/Commercial  
 Permit Expires : N/R  
 Fee Status : N/R  
 Receipt : 0927  
 Tanks Pulled : 1/1  
 Removed : 2  
 GWM Wells : N/R  
 Vapor Monitoring Points : N/R  
 Site Condition : Contamination found  
 Sites Number : 890383  
 Pin : N/R  
 Latitude : N/R  
 Longitude : N/R  
 Last Date in Agency List : 09/21/2018

## Tank Details

Tank ID : 16120  
 Tank Status : PULLED  
 Tank Ext : -1-1-R  
 COT : N  
 OOS : N/R  
 Year Removed : 2008  
 Capacity : 6000  
 Protection : N/R  
 CP Tested : N/R

Map Id: G28  
 Direction: ENE  
 Distance: 0.880 mi.  
 Actual: 4648.092 ft.  
 Elevation: 0.023 mi. / 122.195 ft.  
 Relative: Higher

**Site Name :** Burlington Grocery  
 747 Pine Street  
 Burlington, VT 05401  
**Database(s) :** [SHWS - VT, UST - VT] (**cont.**)

**EnviroSite ID:** 1121807  
**EPA ID:** N/R

## UST - VT (**cont.**)

Monitor 1 : N/R  
 Monitor 2 : N/R  
 Condition : FAIR  
 Date Ref : 08/27/2008

## Compartment

Compartment ID : 16347  
 Compartment Ext : A  
 Substance : Fuel Oil #5 or #6  
 Spill : N/R  
 Overkill : N/R

## Pipes

Piping ID : 16489  
 Sequence : 1  
 Type : DEFAULT  
 Protection Type : N/R  
 Installed : N/R  
 CP Tested : N/R  
 Monitor 1 : N/R  
 Monitor 1 Tested Date : N/R  
 Monitor 2 : N/R  
 Monitor 2 Tested Date : N/R  
 Pump Type : N/R

## Tank Details

Tank ID : 5102  
 Tank Status : PULLED  
 Tank Ext : 1975-1  
 COT : Y  
 OOS : N/R  
 Year Removed : 1989  
 Capacity : 4000  
 Protection : Unprotected Steel  
 CP Tested : N/R  
 Monitor 1 : N/R  
 Monitor 2 : N/R  
 Condition : POOR  
 Date Ref : 7/89

## Compartment

Compartment ID : 5096  
 Compartment Ext : A  
 Substance : Diesel  
 Spill : N/R  
 Overkill : N/R

Map Id: G28  
 Direction: ENE  
 Distance: 0.880 mi.  
 Actual: 4648.092 ft.  
 Elevation: 0.023 mi. / 122.195 ft.  
 Relative: Higher

**Site Name :** Burlington Grocery  
 747 Pine Street  
 Burlington, VT 05401  
**Database(s) :** [SHWS - VT, UST - VT] **(cont.)**

**EnviroSite ID:** 1121807  
**EPA ID:** N/R

## UST - VT **(cont.)**

### Pipes

Piping ID : 5096  
 Sequence : 1  
 Type : DEFAULT  
 Protection Type : N/R  
 Installed : N/R  
 CP Tested : N/R  
 Monitor 1 : N/R  
 Monitor 1 Tested Date : N/R  
 Monitor 2 : N/R  
 Monitor 2 Tested Date : N/R  
 Pump Type : N/R

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401  
**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL]

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## CERCLIS-HIST

Facility Name : PINE STREET CANAL  
 Facility Address : PINE STREET, BURLINGTON, VT 05401  
 County : CHITTENDEN

Site ID : 0101479  
 Epa ID : VTD980523062  
 Short Name : PINE STREET CANAL  
 Congressional District : 00  
 IFMS ID : 0119  
 SMSA Number : 1305  
 USGC Hydro Unit : 02010003  
 Federal Facility : N  
 DMNSN Number : 8  
 Site Orphan Flag : N  
 RCRA ID : N/R  
 USGS Quadrangle : N/R  
 Site Init by Prog : N/R  
 NFRAP Flag : N/R  
 Parent ID : N/R  
 RST Code : N/R  
 EPA Region : 01  
 Classification : M  
 Site Settings Code : UR  
 NPL Status : Currently on the Final NPL  
 DMNSN Unit Code : ACRE  
 RBRAC Code : N/R

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**CERCLIS-HIST (cont.)**

RResp Fed Agency Code : N/R  
Non NPL Status : N/R  
Non NPL Status Date : N/R  
Site Fips Code : 50007  
CC Concurrence Date : 09/16/2004  
CC Concurrence FY : 2004  
Alias EPA ID : N/R  
Site FUDS Flag : N/R

**CERCLIS Site Contact Name(s)**

Contact ID : 1000151  
Contact Name : MARY ELLEN STANTON  
Contact Tel. : 6179181256  
Contact Title : On-Scene Coordinator (OSC)  
Contact Email : stanton.mary.ellen@epamail.epa.gov

Contact ID : 1000164  
Contact Name : JANIS TSANG  
Contact Tel. : 6179181231  
Contact Title : On-Scene Coordinator (OSC)  
Contact Email : tsang.janis@epamail.epa.gov

Contact ID : 1270095  
Contact Name : Martha Bosworth  
Contact Tel. : 6179181407  
Contact Title : Site Assessment Manager (SAM)  
Contact Email : bosworth.martha@epamail.epa.gov

Contact ID : 1270261  
Contact Name : Karen Lumino  
Contact Tel. : 6179181348  
Contact Title : Remedial Project Manager (RPM)  
Contact Email : Karen.Lumino/R1/USEPA/US@EPA

Contact ID : 13003573  
Contact Name : Emily Zimmerman  
Contact Tel. : 6179181037  
Contact Title : Community Involvement Coordinator  
Contact Email : Emily.Zimmerman/R1/USEPA/US

Alias Comments : PINE STREET CANAL  
Site Description : N/R



Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## CERCLIS-HIST (cont.)

### CERCLIS Assessment History

Action Code : 001  
 Action : ADMINISTRATIVE ORDER ON CONSENT  
 Date Started : N/R  
 Date Completed : 06/30/1995  
 Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : FE  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : ALTERNATIVE DISPUTE RESOLUTION  
 Date Started : N/R  
 Date Completed : 06/17/1993  
 Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : FE  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
 Date Started : 06/27/1988  
 Date Completed : 07/22/1994  
 Priority Level : 1  
 Operational Unit : 01  
 Primary Responsibility : F  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : TN

Action Code : 001  
 Action : CONSENT AGREEMENT (ADMINISTRATIVE)  
 Date Started : N/R  
 Date Completed : 08/12/1993  
 Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : FE  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : CONSENT DECREE  
 Date Started : 06/22/1990  
 Date Completed : 12/26/1990  
 Priority Level : 1

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## CERCLIS-HIST (cont.)

Operational Unit : 00  
 Primary Responsibility : FE  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : DISCOVERY  
 Date Started : N/R  
 Date Completed : 01/01/1981  
 Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : F  
 Planning Status : N/R  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : Explanation Of Significant Differences  
 Date Started : N/R  
 Date Completed : 04/07/2009  
 Priority Level : 2  
 Operational Unit : 01  
 Primary Responsibility : FE  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : FINAL LISTING ON NATIONAL PRIORITIES LIST  
 Date Started : N/R  
 Date Completed : 09/08/1983  
 Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : F  
 Planning Status : N/R  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : FIVE-YEAR REVIEW  
 Date Started : 01/31/2006  
 Date Completed : 10/03/2006  
 Priority Level : 1  
 Operational Unit : 01  
 Primary Responsibility : F  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**CERCLIS-HIST (cont.)**

Action Code : 001  
Action : HAZARD RANKING SYSTEM PACKAGE  
Date Started : N/R  
Date Completed : 12/01/1982  
Priority Level : 1  
Operational Unit : 00  
Primary Responsibility : OH  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : ISSUE REQUEST LETTERS (104E)  
Date Started : N/R  
Date Completed : 07/01/1992  
Priority Level : 1  
Operational Unit : 00  
Primary Responsibility : FE  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : Lodged By DOJ  
Date Started : N/R  
Date Completed : 09/27/1990  
Priority Level : 2  
Operational Unit : 00  
Primary Responsibility : FE  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH  
Date Started : 02/10/1986  
Date Completed : 09/15/1986  
Priority Level : 1  
Operational Unit : 00  
Primary Responsibility : FE  
Planning Status : A  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : Notice Letters Issued  
Date Started : N/R  
Date Completed : 11/30/1987  
Priority Level : 2  
Operational Unit : 00

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**CERCLIS-HIST (cont.)**

Primary Responsibility : FE  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : OPERATIONS AND MAINTENANCE  
Date Started : 01/16/2002  
Date Completed : N/R  
Priority Level : 1  
Operational Unit : 01  
Primary Responsibility : RP  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION  
Date Started : 10/02/2001  
Date Completed : 01/16/2002  
Priority Level : 1  
Operational Unit : 01  
Primary Responsibility : RP  
Planning Status : P  
Urgency Indicator : N/R  
Action Anomaly : PC

Action Code : 001  
Action : POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN  
Date Started : 09/30/1999  
Date Completed : 10/02/2001  
Priority Level : 1  
Operational Unit : 01  
Primary Responsibility : RP  
Planning Status : P  
Urgency Indicator : N/R  
Action Anomaly : PC

Action Code : 001  
Action : POTENTIALLY RESPONSIBLE PARTY REMEDIAL  
INVESTIGATION/FEASIBILITY STUDY  
Date Started : 07/22/1994  
Date Completed : 09/29/1998  
Priority Level : 1  
Operational Unit : 01  
Primary Responsibility : RP  
Planning Status : P  
Urgency Indicator : N/R  
Action Anomaly : TN

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

**CERCLIS-HIST (cont.)**

|                          |                                       |
|--------------------------|---------------------------------------|
| Action Code :            | 001                                   |
| Action :                 | PRELIMINARY ASSESSMENT                |
| Date Started :           | N/R                                   |
| Date Completed :         | 10/01/1981                            |
| Priority Level :         | 1                                     |
| Operational Unit :       | 00                                    |
| Primary Responsibility : | F                                     |
| Planning Status :        | N/R                                   |
| Urgency Indicator :      | N/R                                   |
| Action Anomaly :         | N/R                                   |
|                          |                                       |
| Action Code :            | 001                                   |
| Action :                 | PRELIMINARY CLOSE-OUT REPORT PREPARED |
| Date Started :           | N/R                                   |
| Date Completed :         | 09/16/2004                            |
| Priority Level :         | 1                                     |
| Operational Unit :       | 01                                    |
| Primary Responsibility : | F                                     |
| Planning Status :        | A                                     |
| Urgency Indicator :      | N/R                                   |
| Action Anomaly :         | N/R                                   |
|                          |                                       |
| Action Code :            | 001                                   |
| Action :                 | PREPARATION OF COST DOCUMENT PACKAGE  |
| Date Started :           | 08/14/1993                            |
| Date Completed :         | 09/30/1999                            |
| Priority Level :         | 1                                     |
| Operational Unit :       | 00                                    |
| Primary Responsibility : | FE                                    |
| Planning Status :        | P                                     |
| Urgency Indicator :      | N/R                                   |
| Action Anomaly :         | N/R                                   |
|                          |                                       |
| Action Code :            | 001                                   |
| Action :                 | PROPOSAL TO NATIONAL PRIORITIES LIST  |
| Date Started :           | N/R                                   |
| Date Completed :         | 12/30/1982                            |
| Priority Level :         | 1                                     |
| Operational Unit :       | 00                                    |
| Primary Responsibility : | F                                     |
| Planning Status :        | N/R                                   |
| Urgency Indicator :      | N/R                                   |
| Action Anomaly :         | N/R                                   |
|                          |                                       |
| Action Code :            | 001                                   |
| Action :                 | RECORD OF DECISION                    |
| Date Started :           | N/R                                   |
| Date Completed :         | 09/29/1998                            |
| Priority Level :         | 1                                     |
| Operational Unit :       | 01                                    |



Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## CERCLIS-HIST (cont.)

Primary Responsibility : FE  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS  
 Date Started : 12/18/1998  
 Date Completed : 09/30/1999  
 Priority Level : 1  
 Operational Unit : 01  
 Primary Responsibility : FE  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS  
 Date Started : 04/04/1988  
 Date Completed : 06/27/1988  
 Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : FE  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : REMOVAL  
 Date Started : 03/11/1985  
 Date Completed : 12/12/1985  
 Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : F  
 Planning Status : N/R  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 001  
 Action : REMOVAL ASSESSMENT  
 Date Started : N/R  
 Date Completed : 09/30/1992  
 Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : F  
 Planning Status : N/R  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

CERCLIS-HIST **(cont.)**

Action Code : 001  
Action : RISK/HEALTH ASSESSMENT  
Date Started : 02/20/1996  
Date Completed : 07/16/1997  
Priority Level : 1  
Operational Unit : 01  
Primary Responsibility : F  
Planning Status : P  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : SECTION 107 LITIGATION  
Date Started : 09/30/1988  
Date Completed : 06/22/1990  
Priority Level : 1  
Operational Unit : 00  
Primary Responsibility : FE  
Planning Status : P  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : SITE INSPECTION  
Date Started : N/R  
Date Completed : 06/01/1982  
Priority Level : 1  
Operational Unit : 00  
Primary Responsibility : F  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : Special Notice Issued  
Date Started : N/R  
Date Completed : 02/23/1988  
Priority Level : 2  
Operational Unit : 00  
Primary Responsibility : FE  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : STATE SUPPORT AGENCY COOPERATIVE AGREEMENT  
Date Started : 09/28/1987  
Date Completed : 02/09/2004  
Priority Level : 1  
Operational Unit : 01

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**CERCLIS-HIST (cont.)**

Primary Responsibility : S  
Planning Status : P  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : TECHNICAL ASSISTANCE  
Date Started : 06/01/1989  
Date Completed : 03/31/1992  
Priority Level : 1  
Operational Unit : 01  
Primary Responsibility : F  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : TECHNICAL ASSISTANCE GRANT  
Date Started : 12/07/1992  
Date Completed : 12/31/2006  
Priority Level : 1  
Operational Unit : 01  
Primary Responsibility : F  
Planning Status : P  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : TREATABILITY STUDY  
Date Started : 07/03/1990  
Date Completed : 02/20/1992  
Priority Level : 1  
Operational Unit : 01  
Primary Responsibility : F  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 001  
Action : UNILATERAL ADMIN ORDER  
Date Started : N/R  
Date Completed : 05/12/1989  
Priority Level : 1  
Operational Unit : 00  
Primary Responsibility : FE  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**CERCLIS-HIST (cont.)**

Action Code : 002  
Action : ADMINISTRATIVE ORDER ON CONSENT  
Date Started : N/R  
Date Completed : 07/22/1994  
Priority Level : 1  
Operational Unit : 00  
Primary Responsibility : FE  
Planning Status : P  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 002  
Action : CONSENT DECREE  
Date Started : 09/30/1999  
Date Completed : 02/11/2000  
Priority Level : 1  
Operational Unit : 01  
Primary Responsibility : FE  
Planning Status : P  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 002  
Action : Explanation Of Significant Differences  
Date Started : N/R  
Date Completed : 09/19/2011  
Priority Level : 2  
Operational Unit : 01  
Primary Responsibility : FE  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 002  
Action : FIVE-YEAR REVIEW  
Date Started : 03/09/2011  
Date Completed : 12/22/2011  
Priority Level : 1  
Operational Unit : 01  
Primary Responsibility : EP  
Planning Status : P  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 002  
Action : Lodged By DOJ  
Date Started : N/R  
Date Completed : 11/23/1999  
Priority Level : 2  
Operational Unit : 01

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## CERCLIS-HIST (cont.)

Primary Responsibility : FE  
 Planning Status : N/R  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 002  
 Action : Notice Letters Issued  
 Date Started : N/R  
 Date Completed : 01/04/1988  
 Priority Level : 2  
 Operational Unit : 00  
 Primary Responsibility : FE  
 Planning Status : N/R  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 002  
 Action : POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION  
 Date Started : 08/30/2002  
 Date Completed : N/R  
 Priority Level : 1  
 Operational Unit : 01  
 Primary Responsibility : RP  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : PB

Action Code : 002  
 Action : POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN  
 Date Started : 09/30/1999  
 Date Completed : 08/30/2002  
 Priority Level : 1  
 Operational Unit : 01  
 Primary Responsibility : RP  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : PB

Action Code : 002  
 Action : REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS  
 Date Started : 06/04/1993  
 Date Completed : 06/30/1995  
 Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : FE  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : N/R



Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

CERCLIS-HIST **(cont.)**

Action Code : 002  
Action : REMOVAL ASSESSMENT  
Date Started : 06/28/1990  
Date Completed : 06/28/1990  
Priority Level : 1  
Operational Unit : 00  
Primary Responsibility : F  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 002  
Action : Special Notice Issued  
Date Started : N/R  
Date Completed : 02/23/1988  
Priority Level : 2  
Operational Unit : 00  
Primary Responsibility : FE  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 002  
Action : TECHNICAL ASSISTANCE  
Date Started : 09/23/1991  
Date Completed : 09/29/1998  
Priority Level : 1  
Operational Unit : 01  
Primary Responsibility : F  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 003  
Action : Notice Letters Issued  
Date Started : N/R  
Date Completed : 11/24/1992  
Priority Level : 2  
Operational Unit : 01  
Primary Responsibility : FE  
Planning Status : N/R  
Urgency Indicator : N/R  
Action Anomaly : N/R

Action Code : 003  
Action : POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION  
Date Started : 12/03/2002  
Date Completed : N/R  
Priority Level : 1  
Operational Unit : 01

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## CERCLIS-HIST (cont.)

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Primary Responsibility : | RP                                            |
| Planning Status :        | P                                             |
| Urgency Indicator :      | 5                                             |
| Action Anomaly :         | PS                                            |
|                          |                                               |
| Action Code :            | 003                                           |
| Action :                 | POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN |
| Date Started :           | 09/30/1999                                    |
| Date Completed :         | 01/24/2003                                    |
| Priority Level :         | 1                                             |
| Operational Unit :       | 01                                            |
| Primary Responsibility : | RP                                            |
| Planning Status :        | P                                             |
| Urgency Indicator :      | N/R                                           |
| Action Anomaly :         | PS                                            |
|                          |                                               |
| Action Code :            | 003                                           |
| Action :                 | REMOVAL ASSESSMENT                            |
| Date Started :           | 05/27/1993                                    |
| Date Completed :         | 05/28/1993                                    |
| Priority Level :         | 1                                             |
| Operational Unit :       | 00                                            |
| Primary Responsibility : | F                                             |
| Planning Status :        | N/R                                           |
| Urgency Indicator :      | N/R                                           |
| Action Anomaly :         | N/R                                           |
|                          |                                               |
| Action Code :            | 003                                           |
| Action :                 | Special Notice Issued                         |
| Date Started :           | N/R                                           |
| Date Completed :         | 12/18/1998                                    |
| Priority Level :         | 2                                             |
| Operational Unit :       | 01                                            |
| Primary Responsibility : | FE                                            |
| Planning Status :        | N/R                                           |
| Urgency Indicator :      | N/R                                           |
| Action Anomaly :         | N/R                                           |
|                          |                                               |
| Action Code :            | 003                                           |
| Action :                 | TECHNICAL ASSISTANCE                          |
| Date Started :           | 05/20/1993                                    |
| Date Completed :         | 09/29/1998                                    |
| Priority Level :         | 1                                             |
| Operational Unit :       | 01                                            |
| Primary Responsibility : | F                                             |
| Planning Status :        | P                                             |
| Urgency Indicator :      | N/R                                           |
| Action Anomaly :         | N/R                                           |

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## CERCLIS-HIST (cont.)

Action Code : 004  
 Action : Notice Letters Issued  
 Date Started : N/R  
 Date Completed : 02/23/1988  
 Priority Level : 2  
 Operational Unit : 01  
 Primary Responsibility : F  
 Planning Status : N/R  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 004  
 Action : POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION  
 Date Started : 11/30/2012  
 Date Completed : N/R  
 Priority Level : 1  
 Operational Unit : 01  
 Primary Responsibility : RP  
 Planning Status : N/R  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 004  
 Action : POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN  
 Date Started : 09/19/2011  
 Date Completed : 11/30/2012  
 Priority Level : 1  
 Operational Unit : 01  
 Primary Responsibility : RP  
 Planning Status : N/R  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 004  
 Action : REMOVAL ASSESSMENT  
 Date Started : 06/28/1990  
 Date Completed : 06/28/1990  
 Priority Level : 1  
 Operational Unit : 00  
 Primary Responsibility : F  
 Planning Status : P  
 Urgency Indicator : N/R  
 Action Anomaly : N/R

Action Code : 005  
 Action : Notice Letters Issued  
 Date Started : N/R  
 Date Completed : 03/05/1982  
 Priority Level : 2  
 Operational Unit : 01

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## CERCLIS-HIST (cont.)

|                          |                       |
|--------------------------|-----------------------|
| Primary Responsibility : | F                     |
| Planning Status :        | N/R                   |
| Urgency Indicator :      | N/R                   |
| Action Anomaly :         | N/R                   |
|                          |                       |
| Action Code :            | 006                   |
| Action :                 | Notice Letters Issued |
| Date Started :           | N/R                   |
| Date Completed :         | 05/03/1982            |
| Priority Level :         | 2                     |
| Operational Unit :       | 01                    |
| Primary Responsibility : | F                     |
| Planning Status :        | N/R                   |
| Urgency Indicator :      | N/R                   |
| Action Anomaly :         | N/R                   |
|                          |                       |
| Action Code :            | 007                   |
| Action :                 | Notice Letters Issued |
| Date Started :           | N/R                   |
| Date Completed :         | 05/04/1987            |
| Priority Level :         | 2                     |
| Operational Unit :       | 01                    |
| Primary Responsibility : | F                     |
| Planning Status :        | N/R                   |
| Urgency Indicator :      | N/R                   |
| Action Anomaly :         | N/R                   |

## COAL GAS

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Facility Name :                 | PINE STREET CANAL                 |
| Facility Address :              | PINE STREET, BURLINGTON, VT 05401 |
| County :                        | CHITTENDEN                        |
|                                 |                                   |
| Handler ID :                    | VTD980523062                      |
| Received Date :                 | N/R                               |
| Activity Location :             | N/R                               |
| Source Type :                   | N/R                               |
| SEQ Number :                    | N/R                               |
| Land Type :                     | N/R                               |
| Mailing Address :               | N/R                               |
| Mailing Address 2 :             | N/R                               |
| Mailing Country :               | N/R                               |
| Contact Name :                  | N/R                               |
| Contact Address :               | N/R                               |
| Contact Address 2 :             | N/R                               |
| Contact Country :               | N/R                               |
| Contact Phone :                 | N/R                               |
| Contact Email Address :         | N/R                               |
| Contact Title :                 | N/R                               |
| Federal Waste Generator Owner : | N/R                               |
| Federal Waste Generator :       | N/R                               |

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT (DECREES), FED E C, FED I C, NPL, NPL EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## COAL GAS (cont.)

|                                  |                                      |
|----------------------------------|--------------------------------------|
| State Waste Generator Owner :    | N/R                                  |
| State Waste Generator :          | N/R                                  |
| Short Term Generator :           | N/R                                  |
| Importer Activity :              | N/R                                  |
| Mixed Waste Generator :          | N/R                                  |
| Transporter :                    | N/R                                  |
| Transfer Facility :              | N/R                                  |
| TSD Activity :                   | N/R                                  |
| Recycler Activity :              | N/R                                  |
| Onsite Burner Exemption :        | N/R                                  |
| Furnace Exemption :              | N/R                                  |
| Underground Injection Activity : | N/R                                  |
| Off Site Receipt :               | N/R                                  |
| Universal Waste Dest Facility :  | N/R                                  |
| Used Oil Transporter :           | N/R                                  |
| Used Oil Transfer Facility :     | N/R                                  |
| Used Oil Processor :             | N/R                                  |
| Used Oil Refiner :               | N/R                                  |
| Used Oil Burner :                | N/R                                  |
| Used Oil Market Burner :         | N/R                                  |
| Used Oil Spec Marketer :         | N/R                                  |
| User ID :                        | N/R                                  |
| Last Change :                    | N/R                                  |
| LQHUV :                          | N/R                                  |
| Current Record :                 | N/R                                  |
| Region :                         | 01                                   |
| NPL Status :                     | Currently on the Final NPL           |
| Congr District :                 | 00                                   |
| Primary Site Type Category :     | Manufacturing/Processing/Maintenance |
| Primary Site Type Subcategory :  | Coal gasification                    |
| Latitude :                       | 44.458333                            |
| Longitude :                      | -73.208333                           |

## CONSENT (DECREES)

|                    |                                   |
|--------------------|-----------------------------------|
| Facility Name :    | Pine Street Canal                 |
| Facility Address : | PINE STREET, BURLINGTON, VT 05401 |
| County :           | N/R                               |

## Site Details

|                            |                   |
|----------------------------|-------------------|
| EPA ID :                   | VTD980523062      |
| Site Name :                | PINE STREET CANAL |
| Non-NPL Status Date :      | N/R               |
| Non-NPL Status :           | N/R               |
| NPL Status :               | Final             |
| Last Date in Agency List : | 09/03/2018        |

## FED E C

|                    |                                   |
|--------------------|-----------------------------------|
| Facility Name :    | PINE STREET CANAL                 |
| Facility Address : | PINE STREET, BURLINGTON, VT 05401 |
| County :           | CHITTENDEN                        |



Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

## FED E C (cont.)

Site ID : 0101479  
 Site EPA ID : VTD980523062  
 Region Code : 01  
 Action ID : 001  
 Action Name : Explanation Of Significant Differences  
 Action Completion Date : 04/07/2009  
 Planned Completion Date : 09/30/2009  
 Operable Unit ID : 01  
 Contaminated Media : Sediment  
 Engineering Control(s) : Subaqueous Sediment Cap

Site ID : 0101479  
 Site EPA ID : VTD980523062  
 Region Code : 01  
 Action ID : 001  
 Action Name : RECORD OF DECISION  
 Action Completion Date : 09/29/1998  
 Planned Completion Date : 09/30/1998  
 Operable Unit ID : 01  
 Contaminated Media : Groundwater  
 Engineering Control(s) : Monitoring

Site ID : 0101479  
 Site EPA ID : VTD980523062  
 Region Code : 01  
 Action ID : 001  
 Action Name : RECORD OF DECISION  
 Action Completion Date : 09/29/1998  
 Planned Completion Date : 09/30/1998  
 Operable Unit ID : 01  
 Contaminated Media : Sediment  
 Engineering Control(s) : Cap

Site ID : 0101479  
 Site EPA ID : VTD980523062  
 Region Code : 01  
 Action ID : 001  
 Action Name : RECORD OF DECISION  
 Action Completion Date : 09/29/1998  
 Planned Completion Date : 09/30/1998  
 Operable Unit ID : 01  
 Contaminated Media : Sediment  
 Engineering Control(s) : Excavation

Site ID : 0101479  
 Site EPA ID : VTD980523062  
 Region Code : 01  
 Action ID : 001  
 Action Name : RECORD OF DECISION  
 Action Completion Date : 09/29/1998

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**FED E C (cont.)**

Planned Completion Date : 09/30/1998  
Operable Unit ID : 01  
Contaminated Media : Sediment  
Engineering Control(s) : Monitoring

Site ID : 0101479  
Site EPA ID : VTD980523062  
Region Code : 01  
Action ID : 001  
Action Name : RECORD OF DECISION  
Action Completion Date : 09/29/1998  
Planned Completion Date : 09/30/1998  
Operable Unit ID : 01  
Contaminated Media : Soil  
Engineering Control(s) : Cap

Site ID : 0101479  
Site EPA ID : VTD980523062  
Region Code : 01  
Action ID : 001  
Action Name : RECORD OF DECISION  
Action Completion Date : 09/29/1998  
Planned Completion Date : 09/30/1998  
Operable Unit ID : 01  
Contaminated Media : Soil  
Engineering Control(s) : Monitoring

Site ID : 0101479  
Site EPA ID : VTD980523062  
Region Code : 01  
Action ID : 001  
Action Name : RECORD OF DECISION  
Action Completion Date : 09/29/1998  
Planned Completion Date : 09/30/1998  
Operable Unit ID : 01  
Contaminated Media : Surface Water  
Engineering Control(s) : Monitoring

Site ID : 0101479  
Site EPA ID : VTD980523062  
Region Code : 01  
Action ID : 002  
Action Name : Explanation Of Significant Differences  
Action Completion Date : 09/19/2011  
Planned Completion Date : 09/30/2011  
Operable Unit ID : 01  
Contaminated Media : Free-phase NAPL  
Engineering Control(s) : Disposal

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**FED E C (cont.)**

Site ID : 0101479  
Site EPA ID : VTD980523062  
Region Code : 01  
Action ID : 002  
Action Name : Explanation Of Significant Differences  
Action Completion Date : 09/19/2011  
Planned Completion Date : 09/30/2011  
Operable Unit ID : 01  
Contaminated Media : Free-phase NAPL  
Engineering Control(s) : Free Product Recovery

Site ID : 0101479  
Site EPA ID : VTD980523062  
Region Code : 01  
Action ID : 002  
Action Name : Explanation Of Significant Differences  
Action Completion Date : 09/19/2011  
Planned Completion Date : 09/30/2011  
Operable Unit ID : 01  
Contaminated Media : Groundwater  
Engineering Control(s) : Monitoring

Site ID : 0101479  
Site EPA ID : VTD980523062  
Region Code : 01  
Action ID : 002  
Action Name : Explanation Of Significant Differences  
Action Completion Date : 09/19/2011  
Planned Completion Date : 09/30/2011  
Operable Unit ID : 01  
Contaminated Media : Groundwater  
Engineering Control(s) : Subsurface Vertical Barrier

**FED I C**

Facility Name : PINE STREET CANAL  
Facility Address : PINE STREET, BURLINGTON, VT 05401  
County : CHITTENDEN

Site ID : 0101479  
Site EPA ID : VTD980523062  
Region Code : 01  
Action ID : 001  
Action Name : RECORD OF DECISION  
Action Completion Date : 09/29/1998  
Planned Completion Date : 09/30/1998  
Operable Unit ID : 01  
Contaminated Media : Groundwater  
Engineering Control(s) : Water Supply Use Restriction  
Last Date in Agency List : 09/19/2018

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

**FED I C (cont.)**

Site ID : 0101479  
Site EPA ID : VTD980523062  
Region Code : 01  
Action ID : 001  
Action Name : RECORD OF DECISION  
Action Completion Date : 09/29/1998  
Planned Completion Date : 09/30/1998  
Operable Unit ID : 01  
Contaminated Media : Sediment  
Engineering Control(s) : Land Use Restriction  
Last Date in Agency List : 09/19/2018

Site ID : 0101479  
Site EPA ID : VTD980523062  
Region Code : 01  
Action ID : 001  
Action Name : RECORD OF DECISION  
Action Completion Date : 09/29/1998  
Planned Completion Date : 09/30/1998  
Operable Unit ID : 01  
Contaminated Media : Soil  
Engineering Control(s) : Land Use Restriction  
Last Date in Agency List : 09/19/2018

Site ID : 0101479  
Site EPA ID : VTD980523062  
Region Code : 01  
Action ID : 001  
Action Name : RECORD OF DECISION  
Action Completion Date : 09/29/1998  
Planned Completion Date : 09/30/1998  
Operable Unit ID : 01  
Contaminated Media : Surface Water  
Engineering Control(s) : Institutional Controls, (N.O.S.)  
Last Date in Agency List : 09/19/2018

**NPL**

Facility Name : Pine Street Canal  
Facility Address : PINE STREET BURLINGTON, VT 05401

Listing Date : 09/08/1983  
Site Score : N/R  
Site EPA ID : VTD980523062  
Federal Facility Indicator : No  
National Priorities List Status : Final  
Congressional District : 00  
Other Site Name : N/R  
County : CHITTENDEN  
Site Listing Narrative Link : [Click here for hyperlink provided by the agency.](#)  
Site Progress Profile Link : [Click here for hyperlink provided by the agency.](#)

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] (**cont.**)

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

#### NPL (**cont.**)

Federal Register Notice Link :  
Site Location Link :

[Click here for hyperlink provided by the agency.](#)  
[Click here for hyperlink provided by the agency.](#)

#### Site Details

Superfund Site :

PINE STREET CANAL BURLINGTON, VT

Site Background :

The 38-acre Pine Street Canal site consists of a canal and turning basin, adjacent wetlands, an area formerly known as Maltex Pond, and an additional portion of land. Around 1908, a coal gasification plant began operating on Pine Street, southeast of the canal. The plant ceased operations in 1966. Plant wastewaters and residual oil and wood chips saturated with organic compounds were directly discharged or disposed of in the Pine Street Canal wetland. During the 1960s and 1970s, an oil-like material was detected seeping from the wetland into Pine Street Canal, the turning basin, and Maltex Pond. The State detected high levels of organic compounds associated with coal tar at several locations while investigating the site for a then proposed major highway. The State was concerned that construction would release organic compounds into the canal and possibly into Lake Champlain, the source of Burlington's drinking water. The area is surrounded by large and small businesses. There are several single and multiple-family dwellings, including apartment buildings, located within 1 mile of the site. Burlington has a population of approximately 39,100.

Site Status :

The 1998 Record of Decision (ROD) called for the placement of a subaqueous cap in the canal to address risk to ecological receptors; long term monitoring; and the imposition of land use restrictions on the site to prevent migration or unacceptable human exposure to contaminants. The remedy was implemented in two phases. The first involved the installation of a weir where the canal empties into Lake Champlain. The weir will maintain desired water levels in the canal to prevent future erosion of the subaqueous cap. Construction of the weir was completed in November 2001. The second phase involved capping contaminated soils at the southern end of the site, placing the subaqueous cap over contaminated sediments in the canal and turning basin, making improvements to the stormwater control system, and wetlands restoration. Work began in July 2002, and was completed in March 2003. In June 2003, a breakout of coal tar and oil was discovered in an uncapped area immediately adjacent to, but not in, the canal. During the summer of 2004, the sand cap was extended over a portion of the canal's west bank where coal tar and oil was being released to the ground surface via macropores (e.g., historic cribbing, root system of dead trees). The expanded cap appeared to address the release of contamination until oily sheens and globules of coal tar were observed floating on the surface water at the southern end of the canal during routine compliance monitoring in the spring of 2005. Subsequent studies conducted by the parties responsible for the implementation of the cleanup, under the supervision of EPA and VT DEC, concluded that the coal tar and oil is migrating upwards through the sand cap, primarily when gas bubbles are released from the peat below the cap. Absorbent booms placed across the canal have prevented contamination from entering Lake Champlain while a more permanent solution could be designed and constructed. In April 2009, after a 30-day public comment period, EPA issued an Explanation of Significant Differences (ESD), modifying the remedy to include an amended cap at the southern end of the canal that will capture the oil and coal tar before it is released to the canal. Construction was completed in December 2010. Over time the new cap will fill up and have to be replaced. To extend the life of the new cap, several passive recovery wells were installed along the banks of the canal, which will also prevent contamination from migrating into the canal. Oil and coal tar that accumulates in the recovery wells will periodically be removed and shipped off site for treatment or disposal at an approved facility. In September 2011, after a 30-day public comment period, EPA issued a second ESD modifying the remedy. For nearly ten years, the groundwater plume beneath the site was stable. However, since 2008, increases in benzene concentrations in groundwater samples along with the intermittent presence of measurable accumulations of coal tar in several monitoring wells indicate that additional containment is needed. To protect Lake Champlain from potentially being impacted by the migration of contaminated groundwater and coal tar left on site, a 200-300 foot long vertical barrier and passive



Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## NPL (cont.)

recovery wells were installed during 2012 - 2013.

### Contact Information

Contact Name : Karen Lumino  
 Contact Title : Remedial Project Manager  
 Phone : (617) 918-1348  
 Email : lumino.karen@epa.gov  
 Additional Site Contacts : N/R

Contact Name : Marilyn St. Fleur  
 Contact Title : Community Involvement Coordinator  
 Phone : (617) 918-1617  
 Email : stfleur.marilyn@epa.gov  
 Additional Site Contacts : N/R

### Contaminant Information

CAS Number : 100-02-7  
 Contaminant Name : 4-NITROPHENOL  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 100-41-4  
 Contaminant Name : ETHYLBENZENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 100-41-4  
 Contaminant Name : ETHYLBENZENE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 100-41-4  
 Contaminant Name : ETHYLBENZENE  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 100-42-5  
 Contaminant Name : STYRENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 100-42-5  
 Contaminant Name : STYRENE

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## NPL (cont.)

Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 107-06-2  
 Contaminant Name : 1,2-DICHLOROETHANE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 108-88-3  
 Contaminant Name : TOLUENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 108-88-3  
 Contaminant Name : TOLUENE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 108-88-3  
 Contaminant Name : TOLUENE  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 115-29-7  
 Contaminant Name : ENDOSULFAN (I OR II)  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 117-81-7  
 Contaminant Name : BIS(2-ETHYLHEXYL)PHTHALATE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 117-81-7  
 Contaminant Name : BIS(2-ETHYLHEXYL)PHTHALATE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 117-81-7  
 Contaminant Name : BIS(2-ETHYLHEXYL)PHTHALATE  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## NPL (cont.)

CAS Number : 120-12-7  
 Contaminant Name : ANTHRACENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 120-12-7  
 Contaminant Name : ANTHRACENE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 120-12-7  
 Contaminant Name : ANTHRACENE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 129-00-0  
 Contaminant Name : PYRENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 129-00-0  
 Contaminant Name : PYRENE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 129-00-0  
 Contaminant Name : PYRENE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 132-64-9  
 Contaminant Name : DIBENZOFURAN  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 132-64-9  
 Contaminant Name : DIBENZOFURAN  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 132-64-9  
 Contaminant Name : DIBENZOFURAN  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## NPL (cont.)

CAS Number : 1330-20-7  
 Contaminant Name : XYLENE (MIXED ISOMERS)  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 18540-29-9  
 Contaminant Name : CHROMIUM(VI)  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 18540-29-9  
 Contaminant Name : CHROMIUM(VI)  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 18540-29-9  
 Contaminant Name : CHROMIUM(VI)  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 18540-29-9  
 Contaminant Name : CHROMIUM(VI)  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 191-24-2  
 Contaminant Name : BENZO(GHI)PERYLENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 191-24-2  
 Contaminant Name : BENZO(GHI)PERYLENE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 191-24-2  
 Contaminant Name : BENZO(GHI)PERYLENE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 193-39-5  
 Contaminant Name : INDENO(1,2,3-CD)PYRENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

## NPL (cont.)

CAS Number : 193-39-5  
 Contaminant Name : INDENO(1,2,3-CD)PYRENE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 193-39-5  
 Contaminant Name : INDENO(1,2,3-CD)PYRENE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 205-99-2  
 Contaminant Name : BENZO(B)FLUORANTHENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 205-99-2  
 Contaminant Name : BENZO(B)FLUORANTHENE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 205-99-2  
 Contaminant Name : BENZO(B)FLUORANTHENE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 206-44-0  
 Contaminant Name : FLUORANTHENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 206-44-0  
 Contaminant Name : FLUORANTHENE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 206-44-0  
 Contaminant Name : FLUORANTHENE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 207-08-9  
 Contaminant Name : BENZO(K)FLUORANTHENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)



Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## NPL (cont.)

CAS Number : 207-08-9  
 Contaminant Name : BENZO(K)FLUORANTHENE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 207-08-9  
 Contaminant Name : BENZO(K)FLUORANTHENE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 208-96-8  
 Contaminant Name : ACENAPHTHYLENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 208-96-8  
 Contaminant Name : ACENAPHTHYLENE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 208-96-8  
 Contaminant Name : ACENAPHTHYLENE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 208-96-8  
 Contaminant Name : ACENAPHTHYLENE  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 218-01-9  
 Contaminant Name : CHRYSENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 218-01-9  
 Contaminant Name : CHRYSENE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 218-01-9  
 Contaminant Name : CHRYSENE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

**NPL (cont.)**

CAS Number : 50-32-8  
Contaminant Name : BENZO[A]PYRENE  
Contaminated Media : Groundwater  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 50-32-8  
Contaminant Name : BENZO[A]PYRENE  
Contaminated Media : Sediment  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 50-32-8  
Contaminant Name : BENZO[A]PYRENE  
Contaminated Media : Soil  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 540-59-0  
Contaminant Name : 1,2-DICHLOROETHENE (CIS AND TRANS MIXTURE)  
Contaminated Media : Surface Water  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 5566-34-7  
Contaminant Name : GAMMA-CHLORDANE  
Contaminated Media : Surface Water  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 56-55-3  
Contaminant Name : BENZO[A]ANTHRACENE  
Contaminated Media : Groundwater  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 56-55-3  
Contaminant Name : BENZO[A]ANTHRACENE  
Contaminated Media : Sediment  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 56-55-3  
Contaminant Name : BENZO[A]ANTHRACENE  
Contaminated Media : Soil  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 57-12-5  
Contaminant Name : CYANIDE  
Contaminated Media : Groundwater  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## NPL (cont.)

CAS Number : 57-12-5  
 Contaminant Name : CYANIDE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 57-12-5  
 Contaminant Name : CYANIDE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 57-12-5  
 Contaminant Name : CYANIDE  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 591-78-6  
 Contaminant Name : 2-HEXANONE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 60-57-1  
 Contaminant Name : DIELDRIN  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 67-64-1  
 Contaminant Name : ACETONE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 67-64-1  
 Contaminant Name : ACETONE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 67-66-3  
 Contaminant Name : CHLOROFORM  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 71-43-2  
 Contaminant Name : BENZENE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## NPL (cont.)

CAS Number : 71-43-2  
 Contaminant Name : BENZENE  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 71-43-2  
 Contaminant Name : BENZENE  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 72-43-5  
 Contaminant Name : METHOXYCHLOR  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7439-92-1  
 Contaminant Name : LEAD  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7439-92-1  
 Contaminant Name : LEAD  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7439-92-1  
 Contaminant Name : LEAD  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7439-92-1  
 Contaminant Name : LEAD  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7439-96-5  
 Contaminant Name : MANGANESE  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7439-96-5  
 Contaminant Name : MANGANESE  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

## NPL (cont.)

CAS Number : 7439-96-5  
 Contaminant Name : MANGANESE  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7439-97-6  
 Contaminant Name : MERCURY  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-22-4  
 Contaminant Name : SILVER  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-36-0  
 Contaminant Name : ANTIMONY  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-36-0  
 Contaminant Name : ANTIMONY  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-36-0  
 Contaminant Name : ANTIMONY  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-38-2  
 Contaminant Name : ARSENIC  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-38-2  
 Contaminant Name : ARSENIC  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-38-2  
 Contaminant Name : ARSENIC  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)



Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

## NPL (cont.)

CAS Number : 7440-39-3  
 Contaminant Name : BARIUM  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-39-3  
 Contaminant Name : BARIUM  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-41-7  
 Contaminant Name : BERYLLIUM  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-43-9  
 Contaminant Name : CADMIUM  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-43-9  
 Contaminant Name : CADMIUM  
 Contaminated Media : Sediment  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-62-2  
 Contaminant Name : VANADIUM  
 Contaminated Media : Groundwater  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-62-2  
 Contaminant Name : VANADIUM  
 Contaminated Media : Soil  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-62-2  
 Contaminant Name : VANADIUM  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7440-66-6  
 Contaminant Name : ZINC  
 Contaminated Media : Surface Water  
 Area of Site Found (Operable Unit) : ENTIRE SITE (01)

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**NPL (cont.)**

CAS Number : 75-01-4  
Contaminant Name : CHLOROETHENE (VINYL CHLORIDE)  
Contaminated Media : Groundwater  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 75-09-2  
Contaminant Name : DICHLOROMETHANE (METHYLENE CHLORIDE)  
Contaminated Media : Groundwater  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 75-15-0  
Contaminant Name : CARBON DISULFIDE  
Contaminated Media : Surface Water  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7782-49-2  
Contaminant Name : SELENIUM  
Contaminated Media : Sediment  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 7782-49-2  
Contaminant Name : SELENIUM  
Contaminated Media : Surface Water  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 79-01-6  
Contaminant Name : TRICHLOROETHENE  
Contaminated Media : Groundwater  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 79-01-6  
Contaminant Name : TRICHLOROETHENE  
Contaminated Media : Surface Water  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 83-32-9  
Contaminant Name : 1,2-DIHYDROACENAPHTHYLENE  
Contaminated Media : Groundwater  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 83-32-9  
Contaminant Name : 1,2-DIHYDROACENAPHTHYLENE  
Contaminated Media : Sediment  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**NPL (cont.)**

CAS Number : 85-01-8  
Contaminant Name : PHENANTHRENE  
Contaminated Media : Groundwater  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 85-01-8  
Contaminant Name : PHENANTHRENE  
Contaminated Media : Sediment  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 85-01-8  
Contaminant Name : PHENANTHRENE  
Contaminated Media : Soil  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 86-73-7  
Contaminant Name : 9H-FLUORENE  
Contaminated Media : Groundwater  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 86-73-7  
Contaminant Name : 9H-FLUORENE  
Contaminated Media : Sediment  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 86-73-7  
Contaminant Name : 9H-FLUORENE  
Contaminated Media : Soil  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 91-20-3  
Contaminant Name : NAPHTHALENE  
Contaminated Media : Groundwater  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 91-20-3  
Contaminant Name : NAPHTHALENE  
Contaminated Media : Sediment  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 91-20-3  
Contaminant Name : NAPHTHALENE  
Contaminated Media : Soil  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

#### NPL **(cont.)**

CAS Number : 91-20-3  
Contaminant Name : NAPHTHALENE  
Contaminated Media : Surface Water  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 91-57-6  
Contaminant Name : 2-METHYLNAPHTHALENE  
Contaminated Media : Groundwater  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 91-57-6  
Contaminant Name : 2-METHYLNAPHTHALENE  
Contaminated Media : Sediment  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 91-57-6  
Contaminant Name : 2-METHYLNAPHTHALENE  
Contaminated Media : Soil  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 91-57-6  
Contaminant Name : 2-METHYLNAPHTHALENE  
Contaminated Media : Surface Water  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

CAS Number : 95-48-7  
Contaminant Name : 2-METHYLPHENOL (O-CRESOL)  
Contaminated Media : Surface Water  
Area of Site Found (Operable Unit) : ENTIRE SITE (01)

#### Operable Units Information

OU ID : 00  
Name : SITEWIDE  
Cleanup Technologies Selected in the  
Decision Document: N/R

OU ID : 01  
Name : ENTIRE SITE  
Cleanup Technologies Selected in the  
Decision Document: Cap (amended, insitu)

OU ID : 01  
Name : ENTIRE SITE

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## NPL (cont.)

Cleanup Technologies Selected in the  
 Decision Document:

Data not available

OU ID :  
 Name :

01  
 ENTIRE SITE

Cleanup Technologies Selected in the  
 Decision Document:

Disposal (offsite); Extraction (recovery/vertical well); Monitoring; Vertical  
 Engineered Barrier (other)

## Performance Measures Information

Human Exposure Under Control :  
 Groundwater Migration Under Control :  
 Construction Complete :  
 Sitewide Ready for Anticipated Use :

Yes  
 Yes  
 Yes  
 Yes

## NPL EPA R1 GIS

Description :

GIS for EPA Region 1 NPL

## PRP

Facility Name :  
 Facility Address :  
 County :

Pine Street Canal  
 PINE STREET, BURLINGTON, VT 05401  
 N/R

Date :  
 Date Type :  
 EPA ID :  
 Site Name :  
 NPL Status :  
 Non NPL Status :  
 Party Name :  
 Street Address :  
 State :  
 Region Code :  
 Action Type Seq :  
 Action Name :  
 Last Date in Agency List :

02/11/2000  
 SETTLEMENT DATE  
 VTD980523062  
 PINE STREET CANAL  
 Currently on the Final NPL  
 N/R  
 453 PINE STREET ASSOCIATES, INC.  
 431 PINE STREET, BURLINGTON, VT 05401  
 VT  
 01  
 CD-2  
 C DECREE  
 10/08/2018

Date :  
 Date Type :  
 EPA ID :  
 Site Name :  
 NPL Status :  
 Non NPL Status :  
 Party Name :  
 Street Address :

02/11/2000  
 SETTLEMENT DATE  
 VTD980523062  
 PINE STREET CANAL  
 Currently on the Final NPL  
 N/R  
 BCV ASSOCIATES, INC.  
 86 LAKE STREET P.O. BOX 906, BURLINGTON, VT 05602

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

State : VT  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : BURLINGTON, CITY OF  
Street Address : 135 CHURCH STREET, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : CITIZENS OIL COMPANY  
Street Address : P.O. BOX 146, BURLINGTON, VT 05402  
State : VT  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : DAVIS DEVELOPMENT  
Street Address : 431 PINE STREET, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE



Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : GENERAL DYNAMICS ARMAMENT SYSTEMS INC  
Street Address : LAKESIDE AVENUE, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : GENERAL ELECTRIC COMPANY  
Street Address : LAKESIDE AVENUE, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : GREEN MOUNTAIN POWER CO.  
Street Address : 1 MAIN STREET, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : HEUBLEIN, INC.  
Street Address : MUNSON ROAD, FARMINGTON, CT  
State : CT  
Region Code : 01  
Action Type Seq : CD-2

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : LOCKHEED MARTIN CORP  
Street Address : PO BOX 8048, PHILADELPHIA, PA 19101  
State : PA  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : MALTEX COMPANY, INC.  
Street Address : 431 PINE STREET, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : MARTIN MARIETTA CORP  
Street Address : PO BOX 8048, PHILADELPHIA, PA 19101  
State : PA  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREE), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Non NPL Status : N/R  
Party Name : MAYTAG CORP  
Street Address : 403 W 4TH ST N PO BOX 39, NEWTON, IA 50208  
State : IA  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : NEW ENGLAND ELECTRIC SYSTEMS  
Street Address : 25 RESEARCH DRIVE, WESTBOROUGH, MA 01582  
State : MA  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : SOUTHERN UNION COMPANY  
Street Address : SUITE 1800, DALLAS, TX 75270  
State : TX  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : SPECIALTY FILAMENTS INC  
Street Address : 300 BRICKSTONE SQUARE, ANDOVER, MA 01810  
State : MA  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : UGI CORPORATION  
Street Address : 460 NORTH GULPH ROAD P.O. BOX 858, VALLEY FORGE, PA 19482  
State : PA  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : UHLMANN CO (STANDARD MILLING CO.  
Street Address : N/R  
State : N/R  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : VERMONT AGENCY OF TRANSPORTATION  
Street Address : 133 STATE STREET, MONTPELIER, VT 05633  
State : VT  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : VERMONT GAS SYSTEMS  
Street Address : BOX 467 31 SWIFT STREET, BURLINGTON, VT 05401  
State : VT

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 02/11/2000  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : VERMONT RAILWAY  
Street Address : ONE RAILWAY LANE, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-2  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : 453 PINE STREET ASSOCIATES  
Street Address : 431 PINE ST., BURLINGTON, VT  
State : VT  
Region Code : 01  
Action Type Seq : AC-1  
Action Name : ADM ORDR  
Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : BCV CORPORATION  
Street Address : 431 PINE ST., BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : AC-1  
Action Name : ADM ORDR  
Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## PRP (cont.)

Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : CITIZENS OIL COMPANY  
 Street Address : 377 PINE STREET, BURLINGTON, VT 05401  
 State : VT  
 Region Code : 01  
 Action Type Seq : AC-1  
 Action Name : ADM ORDR  
 Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : CLOVERLEAF PROPERTIES, INC.  
 Street Address : 50 LAKESIDE AVENUE, BURLINGTON, VT 05401  
 State : VT  
 Region Code : 01  
 Action Type Seq : AC-1  
 Action Name : ADM ORDR  
 Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : DAVIS DEVELOPMENT CORP.  
 Street Address : 431 PINE ST., BURLINGTON, VT 05401  
 State : VT  
 Region Code : 01  
 Action Type Seq : AC-1  
 Action Name : ADM ORDR  
 Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : E.B. & A.C. WHITING COMPANY, INC.  
 Street Address : P.O. BOX 15428 1500 MAIN STREET, SPRINGFIELD, MA 01115-5428  
 State : MA  
 Region Code : 01  
 Action Type Seq : AC-1  
 Action Name : ADM ORDR



Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

## PRP (cont.)

Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : G.S. BLODGETT COMPANY, INC.  
 Street Address : 50 LAKESIDE AVE., BURLINGTON, VT 05902  
 State : VT  
 Region Code : 01  
 Action Type Seq : AC-1  
 Action Name : ADM ORDR  
 Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : GENERAL ELECTRIC CO.  
 Street Address : LAKESIDE AVE., BURLINGTON, VT 05041  
 State : VT  
 Region Code : 01  
 Action Type Seq : AC-1  
 Action Name : ADM ORDR  
 Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : GREEN MOUNTAIN POWER CORPORATION  
 Street Address : 451 EAST BYRD ST., RICHMOND, VA 23219-4074  
 State : VA  
 Region Code : 01  
 Action Type Seq : AC-1  
 Action Name : ADM ORDR  
 Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Party Name : LASMO PETROLEUM, INC.  
Street Address : 1221 MCKINNEY, SUITE 600, HOUSTON, TX 77010  
State : TX  
Region Code : 01  
Action Type Seq : AC-1  
Action Name : ADM ORDR  
Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : MALTEX PARTNERSHIP  
Street Address : 431 PINE ST., BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : AC-1  
Action Name : ADM ORDR  
Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : MARTIN MARIETTA CORP.  
Street Address : LAKESIDE AVE., BURLINGTON, VT 05401-4985  
State : VT  
Region Code : 01  
Action Type Seq : AC-1  
Action Name : ADM ORDR  
Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : NEW ENGLAND ELECTRIC SYSTEM  
Street Address : 25 RESEARCH DRIVE, WESTBOROUGH, MA 01582  
State : MA  
Region Code : 01  
Action Type Seq : AC-1  
Action Name : ADM ORDR  
Last Date in Agency List : 10/08/2018

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Date : 06/30/1995  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : VERMONT GAS SYSTEM  
Street Address : P.O. BOX 467, BURLINGTON, VT 05402-0467  
State : VT  
Region Code : 01  
Action Type Seq : AC-1  
Action Name : ADM ORDR  
Last Date in Agency List : 10/08/2018

Date : 06/30/1995  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : VERMONT RAILWAY, INC.  
Street Address : 1 RAILWAY LANE, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : AC-1  
Action Name : ADM ORDR  
Last Date in Agency List : 10/08/2018

Date : 07/22/1994  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : GREEN MOUNTAIN POWER CORPORATION  
Street Address : 951 EAST BYRD STREET, RECHMOND, VA 23219-4074  
State : VA  
Region Code : 01  
Action Type Seq : AC-2  
Action Name : ADM ORDR  
Last Date in Agency List : 10/08/2018

Date : 07/22/1994  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : NEW ENGLAND ELECTRIC SYSTEM  
Street Address : 25 RESEARCH DRIVE, WESTBOROUGH, MA 01582  
State : MA

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

## PRP (cont.)

Region Code : 01  
 Action Type Seq : AC-2  
 Action Name : ADM ORDR  
 Last Date in Agency List : 10/08/2018

Date : 07/22/1994  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : VERMONT GAS SYSTEMS, INC.  
 Street Address : P.O. BOX 467, BURLINGTON, VT 05402  
 State : VT  
 Region Code : 01  
 Action Type Seq : AC-2  
 Action Name : ADM ORDR  
 Last Date in Agency List : 10/08/2018

Date : 08/12/1993  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : ST. JOHNSBURY TRUCKING CO.  
 Street Address : P.O. BOX 6590, HOLLISTON, MA 01746  
 State : MA  
 Region Code : 01  
 Action Type Seq : CA-1  
 Action Name : CON AGMT  
 Last Date in Agency List : 10/08/2018

Date : 11/24/1992  
 Date Type : GENERAL NOTICE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : SOUTHERN UNION GAS COMPANY  
 Street Address : 400 WEST 5TH STREET, SUITE 900, AUSTIN, TX 78701  
 State : TX  
 Region Code : 01  
 Action Type Seq : NJ-3  
 Action Name : Not Ltrs  
 Last Date in Agency List : 10/08/2018

Date : 11/24/1992  
 Date Type : GENERAL NOTICE  
 EPA ID : VTD980523062

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : UGI CORPORATION  
Street Address : 460 NORTH GULPH ROAD P.O. BOX 858, VALLEY FORGE, PA 19482  
State : PA  
Region Code : 01  
Action Type Seq : NJ-3  
Action Name : Not Ltrs  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : BURLINGTON, CITY OF  
Street Address : 135 CHURCH STREET, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : E.B. & A.C. WHITING CO., INC.  
Street Address : ONE HOWARD STREET, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : FARRELL, CHRISTINE  
Street Address : 4 MARGARET ST., BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : G.S. BLODGETT INTERNATIONAL CORP.  
Street Address : 50 LAKESIDE AVENUE, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : GREEN MOUNTAIN POWER CO.  
Street Address : 1 MAIN STREET, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : GRUNDLER RICHARD  
Street Address : N/R  
State : N/R  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R



Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## PRP (cont.)

Party Name : HADDEN, CHARLES  
 Street Address : N/R  
 State : N/R  
 Region Code : 01  
 Action Type Seq : CD-1  
 Action Name : C DECREE  
 Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : HEUBLEIN, INC.  
 Street Address : MUNSON ROAD, FARMINGTON, CT  
 State : CT  
 Region Code : 01  
 Action Type Seq : CD-1  
 Action Name : C DECREE  
 Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : JACOBS, STUART  
 Street Address : N/R  
 State : N/R  
 Region Code : 01  
 Action Type Seq : CD-1  
 Action Name : C DECREE  
 Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : NEW ENGLAND ELECTRIC SYSTEMS  
 Street Address : 25 RESEARCH DRIVE, WESTBOROUGH, MA 01582  
 State : MA  
 Region Code : 01  
 Action Type Seq : CD-1  
 Action Name : C DECREE  
 Last Date in Agency List : 10/08/2018

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : NEW ENGLAND POWER SERVICE COMPANY  
Street Address : 25 RESEARCH DRIVE, WESTBOROUGH, MA 01582  
State : MA  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : PERRIN, ROBERT  
Street Address : N/R  
State : N/R  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : REED, RICHARD  
Street Address : N/R  
State : N/R  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : SHEA, CHARLES  
Street Address : N/R  
State : N/R

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : SMITH, STANLEY  
Street Address : N/R  
State : N/R  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : SOUTHERN UNION GAS COMPANY  
Street Address : 400 WEST 5TH STREET, SUITE 900, AUSTIN, TX 78701  
State : TX  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : STATE OF VERMONT  
Street Address : 133 STATE STREET, MONTPELIER, VT 05602  
State : VT  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : STEN FERSING (LEVERAGE GROUP)  
Street Address : N/R  
State : N/R  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : UGI CORPORATION  
Street Address : 460 NORTH GULPH ROAD P.O. BOX 858, VALLEY FORGE, PA 19482  
State : PA  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : UHLMANN CO (STANDARD MILLING CO.  
Street Address : N/R  
State : N/R  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE  
Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
Date Type : SETTLEMENT DATE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : VERMONT GAS SYSTEMS  
Street Address : BOX 467 31 SWIFT STREET, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : CD-1  
Action Name : C DECREE

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## PRP (cont.)

Last Date in Agency List : 10/08/2018

Date : 12/26/1990  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : WATSON, ROBERT  
 Street Address : N/R  
 State : N/R  
 Region Code : 01  
 Action Type Seq : CD-1  
 Action Name : C DECREE  
 Last Date in Agency List : 10/08/2018

Date : 05/12/1989  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : STATE OF VERMONT  
 Street Address : 133 STATE STREET, MONTPELIER, VT 05602  
 State : VT  
 Region Code : 01  
 Action Type Seq : UA-1  
 Action Name : UNL ORDR  
 Last Date in Agency List : 10/08/2018

Date : 05/12/1989  
 Date Type : SETTLEMENT DATE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : THE STATE OF VERMONT  
 Street Address : N/R  
 State : N/R  
 Region Code : 01  
 Action Type Seq : UA-1  
 Action Name : UNL ORDR  
 Last Date in Agency List : 10/08/2018

Date : 02/23/1988  
 Date Type : GENERAL NOTICE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Party Name : VERMONT AGENCY OF TRANSPORTATION  
Street Address : 133 STATE STREET, MONTPELIER, VT 05633  
State : VT  
Region Code : 01  
Action Type Seq : NJ-4  
Action Name : Not Ltrs  
Last Date in Agency List : 10/08/2018

Date : 02/23/1988  
Date Type : GENERAL NOTICE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : VERMONT RAILWAY  
Street Address : ONE RAILWAY LANE, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : NJ-4  
Action Name : Not Ltrs  
Last Date in Agency List : 10/08/2018

Date : 11/30/1987  
Date Type : GENERAL NOTICE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : E.B. & A.C. WHITING CO., INC.  
Street Address : ONE HOWARD STREET, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : NJ-1  
Action Name : Not Ltrs  
Last Date in Agency List : 10/08/2018

Date : 11/30/1987  
Date Type : GENERAL NOTICE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : GENERAL ELECTRIC COMPANY  
Street Address : LAKESIDE AVENUE, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : NJ-1  
Action Name : Not Ltrs  
Last Date in Agency List : 10/08/2018



Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Date : 11/30/1987  
Date Type : GENERAL NOTICE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : ST. JOHNSBURY TRUCKING CO.  
Street Address : P.O. BOX 6590, HOLLISTON, MA 01746  
State : MA  
Region Code : 01  
Action Type Seq : NJ-1  
Action Name : Not Ltrs  
Last Date in Agency List : 10/08/2018

Date : 05/04/1987  
Date Type : GENERAL NOTICE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : BURLINGTON, CITY OF  
Street Address : 135 CHURCH STREET, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : NJ-7  
Action Name : Not Ltrs  
Last Date in Agency List : 10/08/2018

Date : 05/04/1987  
Date Type : GENERAL NOTICE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : CITIZENS OIL COMPANY  
Street Address : P.O. BOX 146, BURLINGTON, VT 05402  
State : VT  
Region Code : 01  
Action Type Seq : NJ-7  
Action Name : Not Ltrs  
Last Date in Agency List : 10/08/2018

Date : 05/04/1987  
Date Type : GENERAL NOTICE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : DAVIS DEVELOPMENT  
Street Address : 431 PINE STREET, BURLINGTON, VT 05401  
State : VT

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

**PRP (cont.)**

Region Code : 01  
Action Type Seq : NJ-7  
Action Name : Not Ltrs  
Last Date in Agency List : 10/08/2018

Date : 05/04/1987  
Date Type : GENERAL NOTICE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : L.E. FARRELL CO., INC.  
Street Address : P.O. BOX 4010, SOUTH BURLINGTON, VT 05402  
State : VT  
Region Code : 01  
Action Type Seq : NJ-7  
Action Name : Not Ltrs  
Last Date in Agency List : 10/08/2018

Date : 05/04/1987  
Date Type : GENERAL NOTICE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : MALTEX COMPANY, INC.  
Street Address : 431 PINE STREET, BURLINGTON, VT 05401  
State : VT  
Region Code : 01  
Action Type Seq : NJ-7  
Action Name : Not Ltrs  
Last Date in Agency List : 10/08/2018

Date : 05/03/1982  
Date Type : GENERAL NOTICE  
EPA ID : VTD980523062  
Site Name : PINE STREET CANAL  
NPL Status : Currently on the Final NPL  
Non NPL Status : N/R  
Party Name : NEW ENGLAND ELECTRIC SYSTEMS  
Street Address : 25 RESEARCH DRIVE, WESTBOROUGH, MA 01582  
State : MA  
Region Code : 01  
Action Type Seq : NJ-6  
Action Name : Not Ltrs  
Last Date in Agency List : 10/08/2018

Date : 03/05/1982  
Date Type : GENERAL NOTICE  
EPA ID : VTD980523062

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

## PRP (cont.)

Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : FARRELL, CHRISTINE  
 Street Address : 4 MARGARET ST., BURLINGTON, VT 05401  
 State : VT  
 Region Code : 01  
 Action Type Seq : NJ-5  
 Action Name : Not Ltrs  
 Last Date in Agency List : 10/08/2018

Date : 03/05/1982  
 Date Type : GENERAL NOTICE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : G.S. BLODGETT INTERNATIONAL CORP.  
 Street Address : 50 LAKESIDE AVENUE, BURLINGTON, VT 05401  
 State : VT  
 Region Code : 01  
 Action Type Seq : NJ-5  
 Action Name : Not Ltrs  
 Last Date in Agency List : 10/08/2018

Date : 03/05/1982  
 Date Type : GENERAL NOTICE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : GREEN MOUNTAIN POWER CO.  
 Street Address : 1 MAIN STREET, BURLINGTON, VT 05401  
 State : VT  
 Region Code : 01  
 Action Type Seq : NJ-5  
 Action Name : Not Ltrs  
 Last Date in Agency List : 10/08/2018

Date : 03/05/1982  
 Date Type : GENERAL NOTICE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : VERMONT DEVELOPMENT CREDIT CORP.  
 Street Address : 104 MAIN STREET, MONTPELIER, VT 05602  
 State : VT  
 Region Code : 01  
 Action Type Seq : NJ-5  
 Action Name : Not Ltrs

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## PRP (cont.)

Last Date in Agency List : 10/08/2018

Date : 03/05/1982  
 Date Type : GENERAL NOTICE  
 EPA ID : VTD980523062  
 Site Name : PINE STREET CANAL  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 Party Name : VERMONT GAS SYSTEMS  
 Street Address : BOX 467 31 SWIFT STREET, BURLINGTON, VT 05401  
 State : VT  
 Region Code : 01  
 Action Type Seq : NJ-5  
 Action Name : Not Ltrs  
 Last Date in Agency List : 10/08/2018

## ROD

Facility Name : PINE STREET CANAL  
 Facility Address : PINE STREET, BURLINGTON, VT 05401  
 County : CHITTENDEN

Date : 09/29/1998  
 EPA ID : VTD980523062  
 Region : 01  
 Title : RECORD OF DECISION (ROD)  
 Title (Link) : [Click here for hyperlink provided by the agency.](#)  
 Last Date in Agency List : 09/11/2018

## SEMS\_8R\_ACTIVE SITES

Facility Name : PINE STREET CANAL  
 Facility Address : PINE STREET, BURLINGTON, VT 05401  
 County : CHITTENDEN

## Site Details

Site ID : 0101479  
 EPA ID : VTD980523062  
 Region : 01  
 Congressional District : 00  
 Federal Facility : N  
 NPL Status : Currently on the Final NPL  
 Non NPL Status : N/R  
 FIPS Code : 50007  
 Latitude : 44.466669  
 Longitude : -73.218061  
 Last Date in Agency List : 09/03/2018

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

## SEMS\_8R\_ACTIVE SITES **(cont.)**

### Additional Information

Start Date : 03/14/2016  
 Finish Date : 12/19/2016  
 OU : 00  
 Action Code : FE  
 Action Name : 5 YEAR  
 Sequence : 3  
 Quality : N/R  
 Current Action Lead : EPA Perf In-Hse

Start Date : 11/30/2012  
 Finish Date : 11/12/2014  
 OU : 01  
 Action Code : BF  
 Action Name : PRP RA  
 Sequence : 4  
 Quality : N/R  
 Current Action Lead : EPA Ovrsght

Start Date : 09/19/2011  
 Finish Date : 11/30/2012  
 OU : 01  
 Action Code : BE  
 Action Name : PRP RD  
 Sequence : 4  
 Quality : N/R  
 Current Action Lead : EPA Ovrsght

Start Date : 07/08/2011  
 Finish Date : 07/12/2011  
 OU : 01  
 Action Code : AR  
 Action Name : ADMIN REC  
 Sequence : 2  
 Quality : E  
 Current Action Lead : EPA Perf

Start Date : 03/09/2011  
 Finish Date : 12/22/2011  
 OU : 00  
 Action Code : FE  
 Action Name : 5 YEAR  
 Sequence : 2  
 Quality : N/R  
 Current Action Lead : EPA Perf In-Hse

Start Date : 01/31/2006  
 Finish Date : 10/03/2006  
 OU : 00

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**Envirosite ID:** 440455  
**EPA ID:** VTD980523062

SEMS\_8R\_ACTIVE SITES **(cont.)**

|                       |             |
|-----------------------|-------------|
| Action Code :         | FE          |
| Action Name :         | 5 YEAR      |
| Sequence :            | 1           |
| Quality :             | N/R         |
| Current Action Lead : | EPA Perf    |
| Start Date :          | 09/16/2004  |
| Finish Date :         | 09/16/2004  |
| OU :                  | 00          |
| Action Code :         | CM          |
| Action Name :         | PCOR        |
| Sequence :            | 1           |
| Quality :             | N/R         |
| Current Action Lead : | EPA Perf    |
| Start Date :          | 12/03/2002  |
| Finish Date :         | 09/18/2014  |
| OU :                  | 01          |
| Action Code :         | BF          |
| Action Name :         | PRP RA      |
| Sequence :            | 3           |
| Quality :             | FR          |
| Current Action Lead : | EPA Ovrsght |
| Start Date :          | 08/30/2002  |
| Finish Date :         | 09/18/2014  |
| OU :                  | 01          |
| Action Code :         | BF          |
| Action Name :         | PRP RA      |
| Sequence :            | 2           |
| Quality :             | IR          |
| Current Action Lead : | EPA Ovrsght |
| Start Date :          | 01/16/2002  |
| Finish Date :         | N/R         |
| OU :                  | 01          |
| Action Code :         | OM          |
| Action Name :         | OM          |
| Sequence :            | 1           |
| Quality :             | N/R         |
| Current Action Lead : | EPA Ovrsght |
| Start Date :          | 10/02/2001  |
| Finish Date :         | 01/16/2002  |
| OU :                  | 01          |
| Action Code :         | BF          |
| Action Name :         | PRP RA      |
| Sequence :            | 1           |
| Quality :             | IR          |



Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## SEMS\_8R\_ACTIVE SITES **(cont.)**

Current Action Lead : EPA Ovrsght

Start Date : 09/30/1999  
 Finish Date : 01/24/2003  
 OU : 01  
 Action Code : BE  
 Action Name : PRP RD  
 Sequence : 3  
 Quality : N/R  
 Current Action Lead : EPA Ovrsght

Start Date : 09/30/1999  
 Finish Date : 08/30/2002  
 OU : 01  
 Action Code : BE  
 Action Name : PRP RD  
 Sequence : 2  
 Quality : N/R  
 Current Action Lead : EPA Ovrsght

Start Date : 09/30/1999  
 Finish Date : 10/02/2001  
 OU : 01  
 Action Code : BE  
 Action Name : PRP RD  
 Sequence : 1  
 Quality : L  
 Current Action Lead : EPA Ovrsght

Start Date : 09/29/1998  
 Finish Date : 09/29/1998  
 OU : 01  
 Action Code : RO  
 Action Name : ROD  
 Sequence : 1  
 Quality : R  
 Current Action Lead : EPA Perf

Start Date : 02/20/1996  
 Finish Date : 07/16/1997  
 OU : 01  
 Action Code : ED  
 Action Name : R/H ASMT  
 Sequence : 1  
 Quality : N/R  
 Current Action Lead : EPA Perf

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

SEMS\_8R\_ACTIVE SITES **(cont.)**

Start Date : 07/22/1994  
Finish Date : 09/29/1998  
OU : 01  
Action Code : BD  
Action Name : PRP RI/FS  
Sequence : 1  
Quality : N/R  
Current Action Lead : EPA Ovrsght

Start Date : 05/27/1993  
Finish Date : 05/28/1993  
OU : 00  
Action Code : RS  
Action Name : RV ASSESS  
Sequence : 3  
Quality : N/R  
Current Action Lead : EPA Perf

Start Date : 05/20/1993  
Finish Date : 09/29/1998  
OU : 00  
Action Code : TA  
Action Name : TECH ASSIST  
Sequence : 3  
Quality : N/R  
Current Action Lead : EPA Perf

Start Date : 12/07/1992  
Finish Date : 12/31/2006  
OU : 00  
Action Code : TG  
Action Name : TA GRANT  
Sequence : 1  
Quality : N/R  
Current Action Lead : EPA Perf

Start Date : 09/30/1992  
Finish Date : 09/30/1992  
OU : 00  
Action Code : RS  
Action Name : RV ASSESS  
Sequence : 1  
Quality : N/R  
Current Action Lead : EPA Perf

Start Date : 09/23/1991  
Finish Date : 09/29/1998  
OU : 00  
Action Code : TA

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
 (DECREEES), FED E C, FED I C, NPL, NPL  
 EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
 SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## SEMS\_8R\_ACTIVE SITES **(cont.)**

Action Name : TECH ASSIST  
 Sequence : 2  
 Quality : N/R  
 Current Action Lead : EPA Perf

Start Date : 07/03/1990  
 Finish Date : 02/20/1992  
 OU : 01  
 Action Code : TS  
 Action Name : TRTSTUDY  
 Sequence : 1  
 Quality : N/R  
 Current Action Lead : EPA Perf

Start Date : 06/28/1990  
 Finish Date : 06/28/1990  
 OU : 00  
 Action Code : RS  
 Action Name : RV ASSESS  
 Sequence : 2  
 Quality : N/R  
 Current Action Lead : EPA Perf

Start Date : 06/28/1990  
 Finish Date : 06/28/1990  
 OU : 00  
 Action Code : RS  
 Action Name : RV ASSESS  
 Sequence : 4  
 Quality : N/R  
 Current Action Lead : EPA Perf

Start Date : 06/01/1989  
 Finish Date : 03/31/1992  
 OU : 00  
 Action Code : TA  
 Action Name : TECH ASSIST  
 Sequence : 1  
 Quality : N/R  
 Current Action Lead : EPA Perf

Start Date : 12/20/1988  
 Finish Date : 12/24/1988  
 OU : 01  
 Action Code : AR  
 Action Name : ADMIN REC  
 Sequence : 1  
 Quality : E  
 Current Action Lead : EPA Perf

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**SEMS\_8R\_ACTIVE SITES (cont.)**

Start Date : 06/27/1988  
Finish Date : 01/31/2014  
OU : 00  
Action Code : CR  
Action Name : CI  
Sequence : 1  
Quality : N/R  
Current Action Lead : EPA Perf

Start Date : 06/27/1988  
Finish Date : 07/22/1994  
OU : 01  
Action Code : CO  
Action Name : RI/FS  
Sequence : 1  
Quality : N/R  
Current Action Lead : EPA Perf

Start Date : 09/28/1987  
Finish Date : 02/09/2004  
OU : 00  
Action Code : MA  
Action Name : ST COOP  
Sequence : 1  
Quality : N/R  
Current Action Lead : St Perf

Start Date : 03/11/1985  
Finish Date : 12/12/1985  
OU : 00  
Action Code : RV  
Action Name : RMVL  
Sequence : 1  
Quality : S  
Current Action Lead : EPA Perf

Start Date : 09/08/1983  
Finish Date : 09/08/1983  
OU : 00  
Action Code : NF  
Action Name : NPL FINL  
Sequence : 1  
Quality : N/R  
Current Action Lead : EPA Perf

Start Date : 12/30/1982  
Finish Date : 12/30/1982  
OU : 00  
Action Code : NP

Map Id: F29  
Direction: ENE  
Distance: 0.882 mi.  
Actual: 4658.279 ft.  
Elevation: N/R  
Relative: N/R

**Site Name :** PINE STREET CANAL  
PINE STREET  
BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT  
(DECREEES), FED E C, FED I C, NPL, NPL  
EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE  
SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

**SEMS\_8R\_ACTIVE SITES (cont.)**

Action Name : PROPOSED  
Sequence : 1  
Quality : N/R  
Current Action Lead : EPA Perf

Start Date : 12/01/1982  
Finish Date : 12/01/1982  
OU : 00  
Action Code : HR  
Action Name : HAZRANK  
Sequence : 1  
Quality : N/R  
Current Action Lead : Other

Start Date : 06/01/1982  
Finish Date : 06/01/1982  
OU : 00  
Action Code : SI  
Action Name : SI  
Sequence : 1  
Quality : H  
Current Action Lead : EPA Perf

Start Date : 10/01/1981  
Finish Date : 10/01/1981  
OU : 00  
Action Code : PA  
Action Name : PA  
Sequence : 1  
Quality : L  
Current Action Lead : EPA Perf

Start Date : 01/01/1981  
Finish Date : 01/01/1981  
OU : 00  
Action Code : DS  
Action Name : DISCVRY  
Sequence : 1  
Quality : N/R  
Current Action Lead : EPA Perf

**SEMS\_FINAL NPL**

Facility Name : PINE STREET CANAL  
Facility Address : PINE STREET, BURLINGTON, VT 05401  
County : CHITTENDEN

Final Date : 09/08/1983  
Site ID : 0101479

Map Id: F29  
 Direction: ENE  
 Distance: 0.882 mi.  
 Actual: 4658.279 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 PINE STREET  
 BURLINGTON, VT 05401

**Database(s) :** [CERCLIS-HIST, COAL GAS, CONSENT (DECREES), FED E C, FED I C, NPL, NPL EPA R1 GIS, PRP, ROD, SEMS\_8R\_ACTIVE SITES, SEMS\_FINAL NPL] **(cont.)**

**EnviroSite ID:** 440455  
**EPA ID:** VTD980523062

## SEMS\_FINAL NPL (cont.)

EPA ID : VTD980523062  
 Region : 01  
 Federal Facility : N  
 Latitude : 44.466669  
 Longitude : -73.218061  
 Last Date in Agency List : 09/03/2018

Map Id: 30  
 Direction: NE  
 Distance: 0.883 mi.  
 Actual: 4662.291 ft.  
 Elevation: 0.02 mi. / 107.585 ft.  
 Relative: Lower

**Site Name :** General Electric Comp. Lakeside Ave.  
 Lakeside Avenue  
 Burlington, VT

**Database(s) :** [SHWS - VT]

**EnviroSite ID:** 1115605  
**EPA ID:** N/R

## SHWS - VT

Facility Name : General Electric Comp. Lakeside Ave.  
 Facility Address : Lakeside Avenue, Burlington  
 County : Chittenden

Discovery Date : 06/01/1981  
 Closure Date : 05/01/2006  
 Site Number : 770041  
 Site Use : Industrial  
 Priority : SMAC - Site Management Activities Completed  
 Site Status : RCRA CA

Project Status : Rcra Corrective Action Permit Pending RCRA corrective action permit granted. All work required by permit was completed and the site received a SMAC designation in May 2006

Source of Contamination : N/R  
 Contaminant : Non-Petroleum  
 Institutional Control : Easement, Easement, Class IV GW Reclass, Easement  
 Site Closure Date : 05/01/2006  
 Record Last Updated : 01/24/2018  
 DEC Manager : Michael Smith  
 DEC Staff Person : Michael Smith  
 DEC Contact Email Address : Michael.B.Smith@vermont.gov  
 Latitude : 44.4622655358  
 Longitude : -73.2176283321



Map Id: F31  
 Direction: ENE  
 Distance: 0.907 mi.  
 Actual: 4787.910 ft.  
 Elevation: 0.021 mi. / 109.442 ft.  
 Relative: Lower

**Site Name :** Rosetti Property (former)  
 175 Lakeside Avenue  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1117204  
**EPA ID:** N/R

## SHWS - VT

|                             |                                                                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Facility Name :             | Rosetti Property (former)                                                                                                                                                                                                                                                 |
| Facility Address :          | 175 Lakeside Avenue, Burlington                                                                                                                                                                                                                                           |
| County :                    | Chittenden                                                                                                                                                                                                                                                                |
| Discovery Date :            | 11/01/1994                                                                                                                                                                                                                                                                |
| Closure Date :              | 04/20/2012                                                                                                                                                                                                                                                                |
| Site Number :               | 911069                                                                                                                                                                                                                                                                    |
| Site Use :                  | Business                                                                                                                                                                                                                                                                  |
| Priority :                  | SMAC - Site Management Activities Completed                                                                                                                                                                                                                               |
| Site Status :               | Voluntary Action                                                                                                                                                                                                                                                          |
| Project Status :            | Property underwent long term ground water monitoring to track petroleum plume. Redevelopment in summer 2011 for Champlain College - Miller Center. Ongoing site work reveals no apparent impact to identified receptors. Site eligible for SMAC. Letter issued 4/20/2012. |
| Source of Contamination :   | Waste Oil                                                                                                                                                                                                                                                                 |
| Contaminant :               | Diesel, Gasoline, Other Petroleum, Waste Oil                                                                                                                                                                                                                              |
| Institutional Control :     | N/R                                                                                                                                                                                                                                                                       |
| Site Closure Date :         | 04/20/2012                                                                                                                                                                                                                                                                |
| Record Last Updated :       | 04/20/2012                                                                                                                                                                                                                                                                |
| DEC Manager :               | Linda Elliott                                                                                                                                                                                                                                                             |
| DEC Staff Person :          | Linda Elliott                                                                                                                                                                                                                                                             |
| DEC Contact Email Address : | Linda.Elliott@vermont.gov                                                                                                                                                                                                                                                 |
| Latitude :                  | 44.4598758232                                                                                                                                                                                                                                                             |
| Longitude :                 | -73.2160395628                                                                                                                                                                                                                                                            |

Map Id: F32  
 Direction: ENE  
 Distance: 0.907 mi.  
 Actual: 4787.910 ft.  
 Elevation: 0.021 mi. / 109.442 ft.  
 Relative: Lower

**Site Name :** Rossetti Real Estate  
 175 Lakeside Ave  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1117207  
**EPA ID:** N/R

## SHWS - VT

|                           |                                                           |
|---------------------------|-----------------------------------------------------------|
| Facility Name :           | Rossetti Real Estate                                      |
| Facility Address :        | 175 Lakeside Ave, Burlington                              |
| County :                  | Chittenden                                                |
| Discovery Date :          | 12/01/1994                                                |
| Closure Date :            | 09/01/1995                                                |
| Site Number :             | 941679                                                    |
| Site Use :                | Bulk Storage                                              |
| Priority :                | SMAC - Site Management Activities Completed               |
| Site Status :             | N/R                                                       |
| Project Status :          | Site Invest Complete, No Impact To Soils Or Gw From Ust's |
| Source of Contamination : | UST-Gasoline                                              |
| Contaminant :             | Gasoline                                                  |
| Institutional Control :   | N/R                                                       |

Map Id: F32  
 Direction: ENE  
 Distance: 0.907 mi.  
 Actual: 4787.910 ft.  
 Elevation: 0.021 mi. / 109.442 ft.  
 Relative: Lower

**Site Name :** Rossetti Real Estate  
 175 Lakeside Ave  
 Burlington, VT  
**Database(s) :** [SHWS - VT] (**cont.**)

**Envirosite ID:** 1117207  
**EPA ID:** N/R

## SHWS - VT (**cont.**)

Site Closure Date : 09/01/1995  
 Record Last Updated : 03/15/2005  
 DEC Manager : Matt Moran  
 DEC Staff Person : Matt Moran  
 DEC Contact Email Address : Matt.Moran@vermont.gov  
 Latitude : 44.4609207234  
 Longitude : -73.2152219657

Map Id: H33  
 Direction: ENE  
 Distance: 0.911 mi.  
 Actual: 4809.494 ft.  
 Elevation: 0.022 mi. / 114.951 ft.  
 Relative: Higher

**Site Name :** Swish Facility  
 703 Pine St  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1117647  
**EPA ID:** N/R

## SHWS - VT

Facility Name : Swish Facility  
 Facility Address : 703 Pine St, Burlington  
 County : Chittenden

Discovery Date : 09/25/2007  
 Closure Date : 05/06/2008  
 Site Number : 20073730  
 Site Use : Business  
 Priority : SMAC - Site Management Activities Completed  
 Site Status : N/R

### Project Status :

Contamination discovered during the closure of a heating oil UST. It was originally speculated that there had been a gasoline release in the vicinity of the UST due to high PID readings, but the VOC analysis indicated a profile similar to heating oil. Investigation at this site included a boring into a sump in the warehouse floor. No elevated VOCs were encountered during the installation of this boring. Napthalene remains slightly above the VGES in the vicinity of the heating oil UST, but has declined steadily over three sampling events. No elevated PIDs recorded from the indoor air screening event. This property and all adjacent properties are served by the municipal drinking water system.

Source of Contamination : UST-Heating Oil  
 Contaminant : Gasoline, Heating Oil  
 Institutional Control : N/R  
 Site Closure Date : 05/06/2008  
 Record Last Updated : 11/16/2007  
 DEC Manager : Ashley Desmond  
 DEC Staff Person : Ashley Desmond  
 DEC Contact Email Address : Ashley.Desmond@vermont.gov  
 Latitude : 44.4594538918  
 Longitude : -73.2149286927

Map Id: H34  
 Direction: ENE  
 Distance: 0.920 mi.  
 Actual: 4855.181 ft.  
 Elevation: 0.022 mi. / 113.917 ft.  
 Relative: Lower

**Site Name :** former Maynard Auto Supply  
 696 Pine St  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1115454  
**EPA ID:** N/R

## SHWS - VT

Facility Name : former Maynard Auto Supply  
 Facility Address : 696 Pine St, Burlington  
 County : Chittenden

Discovery Date : 10/07/2008  
 Closure Date : 04/29/2010  
 Site Number : 20083862  
 Site Use : Business  
 Priority : SMAC - Site Management Activities Completed  
 Site Status : Voluntary Action

Project Status : 2 abandoned UST's removed. Former gas station, closed Site 20002774. Expressway. Confirmatory sample shows minimal impact to GW. SMAC

Source of Contamination : UST-Gasoline  
 Contaminant : Gasoline  
 Institutional Control : N/R  
 Site Closure Date : 04/29/2010  
 Record Last Updated : 12/30/2013  
 DEC Manager : Gerold Noyes  
 DEC Staff Person : Gerold Noyes  
 DEC Contact Email Address : Gerold.Noyes@vermont.gov  
 Latitude : 44.4599551681  
 Longitude : -73.214268422

Map Id: H35  
 Direction: ENE  
 Distance: 0.920 mi.  
 Actual: 4855.181 ft.  
 Elevation: 0.022 mi. / 113.917 ft.  
 Relative: Lower

**Site Name :** Maynard Auto  
 696 Pine St  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1116409  
**EPA ID:** N/R

## SHWS - VT

Facility Name : Maynard Auto  
 Facility Address : 696 Pine St, Burlington  
 County : Chittenden

Discovery Date : 04/13/2000  
 Closure Date : 10/04/2000  
 Site Number : 20002774  
 Site Use : Business  
 Priority : SMAC - Site Management Activities Completed  
 Site Status : N/R

Project Status : UST removed. Contam found. Investigation completed. Minor impact to GW. VGES exceeded in tank pit moitor well. SMAC . Re-opened 10/2008 as 2008-3862 following removal of 2 abandoned USTs

Source of Contamination : UST-Heating Oil

Map Id: H35  
 Direction: ENE  
 Distance: 0.920 mi.  
 Actual: 4855.181 ft.  
 Elevation: 0.022 mi. / 113.917 ft.  
 Relative: Lower

**Site Name :** Maynard Auto  
 696 Pine St  
 Burlington, VT  
**Database(s) :** [SHWS - VT] **(cont.)**

**Envirosite ID:** 1116409  
**EPA ID:** N/R

## SHWS - VT (cont.)

|                             |                          |
|-----------------------------|--------------------------|
| Contaminant :               | N/R                      |
| Institutional Control :     | N/R                      |
| Site Closure Date :         | 10/04/2000               |
| Record Last Updated :       | 09/04/2009               |
| DEC Manager :               | Gerold Noyes             |
| DEC Staff Person :          | Gerold Noyes             |
| DEC Contact Email Address : | Gerold.Noyes@vermont.gov |
| Latitude :                  | 44.4599551681            |
| Longitude :                 | -73.214268422            |

Map Id: 36  
 Direction: E  
 Distance: 0.924 mi.  
 Actual: 4877.561 ft.  
 Elevation: 0.031 mi. / 164.61 ft.  
 Relative: Higher

**Site Name :** Cannon Residence  
 134 Ferguson Ave  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**Envirosite ID:** 1114709  
**EPA ID:** N/R

## SHWS - VT

|                             |                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Facility Name :             | Cannon Residence                                                                                                                                                                                                                                                                                                                                                            |
| Facility Address :          | 134 Ferguson Ave, Burlington                                                                                                                                                                                                                                                                                                                                                |
| County :                    | Chittenden                                                                                                                                                                                                                                                                                                                                                                  |
| Discovery Date :            | 11/13/2006                                                                                                                                                                                                                                                                                                                                                                  |
| Closure Date :              | N/R                                                                                                                                                                                                                                                                                                                                                                         |
| Site Number :               | 20063617                                                                                                                                                                                                                                                                                                                                                                    |
| Site Use :                  | Dry Cleaners                                                                                                                                                                                                                                                                                                                                                                |
| Priority :                  | MED - Site with sensitive receptors that are threatened by contamination                                                                                                                                                                                                                                                                                                    |
| Site Status :               | Voluntary Action                                                                                                                                                                                                                                                                                                                                                            |
| Project Status :            | Former dry cleaner had triad SI performed with no significant findings aside from surficial PAHs related to fill. UST closure complete with soil or GW contamination at tank grave. Monitoring results 8/08 showed no VGES violations for MW-1, MW-2 and MW-UST. Request to decommission wells April 2010. Remaining issue is PAH question with respect to coal ash onsite. |
| Source of Contamination :   | Dry Cleaners, UST-Heating Oil                                                                                                                                                                                                                                                                                                                                               |
| Contaminant :               | Heating Oil                                                                                                                                                                                                                                                                                                                                                                 |
| Institutional Control :     | N/R                                                                                                                                                                                                                                                                                                                                                                         |
| Site Closure Date :         | N/R                                                                                                                                                                                                                                                                                                                                                                         |
| Record Last Updated :       | 05/15/2017                                                                                                                                                                                                                                                                                                                                                                  |
| DEC Manager :               | James Donaldson                                                                                                                                                                                                                                                                                                                                                             |
| DEC Staff Person :          | James Donaldson                                                                                                                                                                                                                                                                                                                                                             |
| DEC Contact Email Address : | James.Donaldson@vermont.gov                                                                                                                                                                                                                                                                                                                                                 |
| Latitude :                  | 44.4546592577                                                                                                                                                                                                                                                                                                                                                               |
| Longitude :                 | -73.2116443899                                                                                                                                                                                                                                                                                                                                                              |

Map Id: F37  
 Direction: ENE  
 Distance: 0.924 mi.  
 Actual: 4878.798 ft.  
 Elevation: 0.021 mi. / 109.892 ft.  
 Relative: Lower

**Site Name :** Former St. Johnsbury Trucking  
 Pine St.  
 Burlington, VT  
**Database(s) :** [SHWS - VT]

**EnviroSite ID:** 1115497  
**EPA ID:** N/R

## SHWS - VT

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Facility Name :             | Former St. Johnsbury Trucking               |
| Facility Address :          | Pine St., Burlington                        |
| County :                    | Chittenden                                  |
| Discovery Date :            | 07/29/1998                                  |
| Closure Date :              | 02/02/2011                                  |
| Site Number :               | 992591                                      |
| Site Use :                  | Business                                    |
| Priority :                  | SMAC - Site Management Activities Completed |
| Site Status :               | N/R                                         |
| Project Status :            | Site SMAC 2 Feb 2011                        |
| Source of Contamination :   | UST-Diesel                                  |
| Contaminant :               | N/R                                         |
| Institutional Control :     | Land Record Notice                          |
| Site Closure Date :         | 02/02/2011                                  |
| Record Last Updated :       | 11/24/2015                                  |
| DEC Manager :               | Michael Smith                               |
| DEC Staff Person :          | Michael Smith                               |
| DEC Contact Email Address : | Michael.B.Smith@vermont.gov                 |
| Latitude :                  | 44.4615890754                               |
| Longitude :                 | -73.2156935015                              |

Map Id: I38  
 Direction: ESE  
 Distance: 0.929 mi.  
 Actual: 4906.479 ft.  
 Elevation: 0.032 mi. / 171.411 ft.  
 Relative: Higher

**Site Name :** A O T SOUTHERN CONNECTOR  
 N/A  
 BURLINGTON, VT  
**Database(s) :** [SHWS - VT]

**EnviroSite ID:** 353805911  
**EPA ID:** N/R

## SHWS - VT

|                             |                                  |
|-----------------------------|----------------------------------|
| Facility Name :             | A O T Southern Connector         |
| Facility Address :          | n/a, Burlington                  |
| County :                    | Chittenden                       |
| Discovery Date :            | N/R                              |
| Closure Date :              | 01/09/1998                       |
| Site Number :               | 870121                           |
| Site Use :                  | N/R                              |
| Priority :                  | NFAP - No Further Action Planned |
| Site Status :               | N/R                              |
| Project Status :            | Site Closed                      |
| Source of Contamination :   | UST-Gasoline                     |
| Contaminant :               | N/R                              |
| Institutional Control :     | N/R                              |
| Site Closure Date :         | 01/09/1998                       |
| Record Last Updated :       | 05/23/2012                       |
| DEC Manager :               | Unassigned                       |
| DEC Staff Person :          | Unassigned                       |
| DEC Contact Email Address : | Chuck.Schwer@vermont.gov         |

Map Id: I38  
 Direction: ESE  
 Distance: 0.929 mi.  
 Actual: 4906.479 ft.  
 Elevation: 0.032 mi. / 171.411 ft.  
 Relative: Higher

**Site Name :** A O T SOUTHERN CONNECTOR  
 N/A  
 BURLINGTON, VT  
**Database(s) :** [SHWS - VT] (**cont.**)

**Envirosite ID:** 353805911  
**EPA ID:** N/R

## SHWS - VT (**cont.**)

Latitude : 44.4460706445057  
 Longitude : -73.2145236594238

Map Id: I39  
 Direction: ESE  
 Distance: 0.929 mi.  
 Actual: 4906.479 ft.  
 Elevation: 0.032 mi. / 171.411 ft.  
 Relative: Higher

**Site Name :** A O T SOUTHERN CONNECTOR  
 44.4460706445057, -73.2145236594238  
 BURLINGTON, VT  
**Database(s) :** [HIST SHWS - VT]

**Envirosite ID:** 405835824  
**EPA ID:** N/R

## HIST SHWS - VT

Facility Name : A O T Southern Connector  
 Facility Address : 44.4460706445057, -73.2145236594238, Burlington  
 County : Chittenden

## Site Details

Discovery Date : N/R  
 Closure Date : 01/09/1998  
 Site Number : 870121  
 Site Use : N/R  
 Priority : NFAP  
 Site Status : N/R  
 Project Status : Site Closed  
 Source of Contamination : N/R  
 Contaminant : N/R  
 Institutional Control : N/R  
 Site Closure Date : N/R  
 Record Last Updated : N/R  
 DEC Manager : N/R  
 DEC Staff Person : Unassigned  
 DEC Contact Email Address : N/R  
 Latitude : 44.4460706445057  
 Longitude : -73.2145236594238  
 Last Date in Agency List : 09/24/2015



Map Id: 40  
 Direction: ENE  
 Distance: 0.943 mi.  
 Actual: 4979.437 ft.  
 Elevation: 0.021 mi. / 110.925 ft.  
 Relative: Lower

**Site Name :** CUMBERLAND FARMS #4018  
 661 PINE ST  
 BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HWG - VT, MANIFEST - RI,  
 MANIFEST - VT, RCRA\_CESQG, SHWS - VT]

**Envirosite ID:** 13361085  
**EPA ID:** VT5000001594

## ECHO

Facility Name : CUMBERLAND FARMS #4018  
 Facility Address : 661 PINE ST, BURLINGTON, VT 05401  
 County : CHITTENDEN

## Site Details

Last Inspection Date : N/R  
 Registry ID : 110005293690  
 FIPS Code : 50007  
 EPA Region : 01  
 Inspection Count : 0  
 Last Inspection Days : N/R  
 Informal Count : 0  
 Last Informal Action Date : N/R  
 Formal Action Count : 0  
 Last Formal Action Date : N/R  
 Total Penalties : 0  
 Penalty Count : N/R  
 Last Penalty Date : N/R  
 Last Penalty Amount : N/R  
 QTRS IN NC : 0  
 Programs IN SNC : 0  
 Current Compliance Status : No Violation  
 Three-Year Compliance Status :  
 Collection Method : ADDRESS MATCHING-HOUSE NUMBER  
 Reference Point : CENTER OF A FACILITY OR STATION  
 Accuracy Meters : 30  
 Derived Tribes : N/R  
 Derived HUC : 02010008  
 Derived WBD : N/R  
 Derived STCTY FIPS : 50007  
 Derived Zip : 05401  
 Derived CD113 : 01  
 Derived CB2010 : 500070008001010  
 MYRTK Universe : NNN  
 NPDES IDs : N/R  
 CWA Permit Types : N/R  
 CWA Compliance Tracking : N/R  
 CWA NAICS : N/R  
 CWA SICS : N/R  
 CWA Inspection Count : N/R  
 CWA Last Inspection Days : N/R  
 CWA Informal Count : N/R  
 CWA Formal Action Count : N/R  
 CWA Last Formal Action Date : N/R  
 CWA Penalties : N/R  
 CWA Last Penalty Date : N/R  
 CWA Last Penalty Amount : N/R  
 CWA Quarters IN NC : N/R  
 CWA Current Compliance Status : N/R  
 CWA Current SNC Flag : N  
 CWA 13 Quarters Compliance Status : N/R  
 CWA 13 Quarters Effluent Exceedances: N/R  
 CWA Three-Year QNCR Codes : N/R

Map Id: 40  
 Direction: ENE  
 Distance: 0.943 mi.  
 Actual: 4979.437 ft.  
 Elevation: 0.021 mi. / 110.925 ft.  
 Relative: Lower

**Site Name :** CUMBERLAND FARMS #4018  
 661 PINE ST  
 BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HWG - VT, MANIFEST - RI,  
 MANIFEST - VT, RCRA\_CESQG, SHWS - VT]  
**(cont.)**

**Envirosite ID:** 13361085  
**EPA ID:** VT5000001594

## ECHO (cont.)

|                                        |                                                                  |
|----------------------------------------|------------------------------------------------------------------|
| DFR URL :                              | <a href="#">Click here for hyperlink provided by the agency.</a> |
| Facility SIC Codes :                   | N/R                                                              |
| Facility NAICS Codes :                 | 44711                                                            |
| Facility Last Inspection EPA Date :    | N/R                                                              |
| Facility Last Inspection State Date :  | N/R                                                              |
| Facility Last Formal Act EPA Date :    | N/R                                                              |
| Facility Last Formal Act State Date :  | N/R                                                              |
| Facility Last Informal Act EPA Date :  | N/R                                                              |
| Facility Last Informal Act State Date: | N/R                                                              |
| Facility Federal Agency :              | N/R                                                              |
| TRI Reporter :                         | N/R                                                              |
| Facility Imp Water Flag :              | N/R                                                              |
| Current SNC Flag :                     | N                                                                |
| Indian County Flag :                   | N                                                                |
| Federal Flag :                         | N/R                                                              |
| US Mexico Border Flag :                | N/R                                                              |
| Chesapeake Bay Flag :                  | N/R                                                              |
| AIR Flag :                             | N                                                                |
| NPDES Flag :                           | N                                                                |
| SDWIS Flag :                           | N                                                                |
| RCRA Flag :                            | Y                                                                |
| TRI Flag :                             | N                                                                |
| GHG Flag :                             | N                                                                |
| Major Flag :                           | N/R                                                              |
| Active Flag :                          | Y                                                                |
| NAA Flag :                             | N/R                                                              |
| Latitude :                             | 44.46117                                                         |
| Longitude :                            | -73.21456                                                        |
| Last Date in Agency List :             | 10/08/2018                                                       |

## FRS

|                    |                                                                  |
|--------------------|------------------------------------------------------------------|
| Facility Name :    | CUMBERLAND FARMS #4018                                           |
| Facility Address : | 661 PINE ST, BURLINGTON, VT 05401                                |
| County :           | CHITTENDEN                                                       |
| Registry ID :      | 110005293690                                                     |
| FRS Facility URL : | <a href="#">Click here for hyperlink provided by the agency.</a> |

## Source Description :

RCRAInfo is EPA's comprehensive information system that supports the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984 through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA. RCRAInfo also supports generation of the National Hazardous Waste Biennial Report. All generators and treatment, storage, and disposal facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years to support creation of the Biennial Report.

Map Id: 40  
 Direction: ENE  
 Distance: 0.943 mi.  
 Actual: 4979.437 ft.  
 Elevation: 0.021 mi. / 110.925 ft.  
 Relative: Lower

**Site Name :** CUMBERLAND FARMS #4018  
 661 PINE ST  
 BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HWG - VT, MANIFEST - RI,  
 MANIFEST - VT, RCRA\_CESQG, SHWS - VT]  
**(cont.)**

**EnviroSite ID:** 13361085  
**EPA ID:** VT5000001594

## FRS (cont.)

FRS Environmental Interest  
 Source and System ID : RCRAINFO - VT5000001594

## HWG - VT

Facility Name : CUMBERLAND FARMS #4018  
 Facility Address : 661 PINE ST, BURLINGTON, VT 05401  
 EPA ID : VT5000001594  
 Status : Conditionally Exempt Small Quantity Generators  
 Mailing Name : CUMBERLAND FARMS #4018  
 Mailing Address : 165 FLANDERS ROAD, WESTBOROUGH, MA 01581  
 Contact Name : ANGELA PIMENTAL  
 Contact Phone Number : 800-225-9702 44  
 Contact Email : APIMENTAL@CUMBERLANDFARMS.COM  
 Comments : N/R  
 Last Date in Agency List : 09/17/2018

## MANIFEST - RI

Manifest Document Number : 001152116GBF  
 Quarter : N/R  
 Year : N/R  
 Item Number : 9908  
 Gen Cert Date : 07/22/2010  
 Generator EPA ID : VT5000001594  
 Transporter 1 Receipt Date : 07/22/2010  
 Transporter 1 EPA ID : MAR000502138  
 Transporter 1 Name : TMC SERVICES, INC.  
 Transporter 2 Receipt Date : N/R  
 Transporter 2 Epa Number : N/R  
 Transporter 2 Name : N/R  
 TSD Facility EPA Number : RID040098352  
 TSD Facility Name : Northland Environmental  
 TSD Facility Receipt Date : 07/22/2010  
 Waste Description : PAINT SOLIDS  
 Contact Name : N/R  
 Email : N/R  
 Total Fee : N/R  
 Billing Name : N/R  
 Time Paid : N/R  
 Number of Containers : N/R  
 Container Type : N/R  
 Quantity : 125.00  
 Weight/Volume Units : P  
 Waste Code 1 : D001D018  
 Waste Code Description 1 : N/R  
 Waste Code 2 : N/R  
 Waste Code Description 2 : N/R  
 Waste Code 3 : N/R  
 Waste Code Description 3 : N/R  
 Waste Code 4 : N/R  
 Waste Code Description 4 : N/R  
 Waste Code 5 : N/R

Map Id: 40  
 Direction: ENE  
 Distance: 0.943 mi.  
 Actual: 4979.437 ft.  
 Elevation: 0.021 mi. / 110.925 ft.  
 Relative: Lower

**Site Name :** CUMBERLAND FARMS #4018  
 661 PINE ST  
 BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HWG - VT, MANIFEST - RI,  
 MANIFEST - VT, RCRA\_CESQG, SHWS - VT]  
**(cont.)**

**EnviroSite ID:** 13361085  
**EPA ID:** VT5000001594

## MANIFEST - RI (cont.)

|                              |                         |
|------------------------------|-------------------------|
| Waste Code Description 5 :   | N/R                     |
| Waste Code 6 :               | N/R                     |
| Waste Code Description 6 :   | N/R                     |
| Fee Exempt Code :            | N/R                     |
| Fee :                        | N/R                     |
| Manifest Created AT :        | N/R                     |
| Manifest Updated AT :        | N/R                     |
| Filing Date :                | N/R                     |
| Filing Method :              | N/R                     |
| Filing Created AT :          | N/R                     |
| Filing Updated AT :          | N/R                     |
| Company Permit Number :      | N/R                     |
| Comment :                    | N/R                     |
|                              |                         |
| Manifest Document Number :   | 003067544FLE            |
| Quarter :                    | N/R                     |
| Year :                       | N/R                     |
| Item Number :                | 6447                    |
| Gen Cert Date :              | 06/16/2010              |
| Generator EPA ID :           | VT5000001594            |
| Transporter 1 Receipt Date : | 06/16/2010              |
| Transporter 1 EPA ID :       | MAR000502138            |
| Transporter 1 Name :         | TMC SERVICES, INC.      |
| Transporter 2 Receipt Date : | N/R                     |
| Transporter 2 Epa Number :   | N/R                     |
| Transporter 2 Name :         | N/R                     |
| TSD Facility EPA Number :    | RID040098352            |
| TSD Facility Name :          | Northland Environmental |
| TSD Facility Receipt Date :  | 06/16/2010              |
| Waste Description :          | PAINT SOLIDS            |
| Contact Name :               | N/R                     |
| Email :                      | N/R                     |
| Total Fee :                  | N/R                     |
| Billing Name :               | N/R                     |
| Time Paid :                  | N/R                     |
| Number of Containers :       | N/R                     |
| Container Type :             | N/R                     |
| Quantity :                   | 200.00                  |
| Weight/Volume Units :        | P                       |
| Waste Code 1 :               | D001D018                |
| Waste Code Description 1 :   | N/R                     |
| Waste Code 2 :               | N/R                     |
| Waste Code Description 2 :   | N/R                     |
| Waste Code 3 :               | N/R                     |
| Waste Code Description 3 :   | N/R                     |
| Waste Code 4 :               | N/R                     |
| Waste Code Description 4 :   | N/R                     |
| Waste Code 5 :               | N/R                     |
| Waste Code Description 5 :   | N/R                     |
| Waste Code 6 :               | N/R                     |
| Waste Code Description 6 :   | N/R                     |
| Fee Exempt Code :            | N/R                     |
| Fee :                        | N/R                     |
| Manifest Created AT :        | N/R                     |

Map Id: 40  
Direction: ENE  
Distance: 0.943 mi.  
Actual: 4979.437 ft.  
Elevation: 0.021 mi. / 110.925 ft.  
Relative: Lower

**Site Name :** CUMBERLAND FARMS #4018  
661 PINE ST  
BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HWG - VT, MANIFEST - RI,  
MANIFEST - VT, RCRA\_CESQG, SHWS - VT]  
**(cont.)**

**EnviroSite ID:** 13361085  
**EPA ID:** VT5000001594

**MANIFEST - RI (cont.)**

|                         |     |
|-------------------------|-----|
| Manifest Updated AT :   | N/R |
| Filing Date :           | N/R |
| Filing Method :         | N/R |
| Filing Created AT :     | N/R |
| Filing Updated AT :     | N/R |
| Company Permit Number : | N/R |
| Comment :               | N/R |

**MANIFEST - VT**

|                    |                                   |
|--------------------|-----------------------------------|
| Facility Name :    | CUMBERLAND FARMS #4018            |
| Facility Address : | 661 PINE ST, BURLINGTON, VT 05401 |

|                    |                                  |
|--------------------|----------------------------------|
| Facility Name :    | CUMBERLAND FARMS #4018           |
| Facility Address : | 661 PINE ST, BURLINGTON, VT 5401 |

**Site Details**

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| Pre-Number :        | 011512853JJK                                                             |
| Generator ID :      | VT5000001594                                                             |
| Manifest ID :       | 126645                                                                   |
| Mailing Name :      | CUMBERLAND FARMS #4018                                                   |
| Mailing Address :   | 100 CROSSING BLVD, FRAMINGHAM, MA 01702                                  |
| Contact Name :      | ANGELA PIMENTAL                                                          |
| Contact Phone :     | 8002259702 4494                                                          |
| Transporter ID :    | CTD021816889                                                             |
| Transporter Name :  | UNITED OIL RECOVERY INC                                                  |
| Transporter City :  | MERIDEN                                                                  |
| Transporter State : | CT                                                                       |
| Gen Date :          | 11/13/2015                                                               |
| Facility ID :       | CTD021816889                                                             |
| Name :              | UNITED OIL RECOVERY INC                                                  |
| City :              | MERIDEN                                                                  |
| State :             | CT                                                                       |
| Fac Date :          | 12/14/2015                                                               |
| Waste :             | 254344                                                                   |
| Waste Line :        | 1                                                                        |
| DOT Description :   | UN3175 WASTE SOLIDS CONTAINING FLAMMABLE LIQUID NOS<br>GASOLINE 4.1 PGII |
| Container Count :   | 1                                                                        |
| Container Type :    | Metal drums, barrels, kegs                                               |
| Quantity :          | 30                                                                       |
| Units :             | Gallons                                                                  |
| Waste Code 1 :      | D001                                                                     |
| Waste Code 2 :      | D018                                                                     |
| Waste Code 3 :      | N/R                                                                      |
| Waste Code 4 :      | N/R                                                                      |
| Waste Code 5 :      | N/R                                                                      |
| Waste Code 6 :      | N/R                                                                      |
| Pre-Number :        | 011512853JJK                                                             |
| Generator ID :      | VT5000001594                                                             |

Map Id: 40  
 Direction: ENE  
 Distance: 0.943 mi.  
 Actual: 4979.437 ft.  
 Elevation: 0.021 mi. / 110.925 ft.  
 Relative: Lower

**Site Name :** CUMBERLAND FARMS #4018  
 661 PINE ST  
 BURLINGTON, VT 05401  
  
**Database(s) :** [ECHO, FRS, HWG - VT, MANIFEST - RI,  
 MANIFEST - VT, RCRA\_CESQG, SHWS - VT]  
**(cont.)**

**EnviroSite ID:** 13361085  
**EPA ID:** VT5000001594

## MANIFEST - VT (cont.)

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| Manifest ID :       | 126645                                                                   |
| Mailing Name :      | CUMBERLAND FARMS #4018                                                   |
| Mailing Address :   | 100 CROSSING BLVD, FRAMINGHAM, MA 01702                                  |
| Contact Name :      | ANGELA PIMENTAL                                                          |
| Contact Phone :     | 8002259702 4494                                                          |
| Transporter ID :    | VTR000522854                                                             |
| Transporter Name :  | ACCUWORX USA INC                                                         |
| Transporter City :  | BARRE                                                                    |
| Transporter State : | VT                                                                       |
| Gen Date :          | 11/13/2015                                                               |
| Facility ID :       | CTD021816889                                                             |
| Name :              | UNITED OIL RECOVERY INC                                                  |
| City :              | MERIDEN                                                                  |
| State :             | CT                                                                       |
| Fac Date :          | 12/14/2015                                                               |
| Waste :             | 254344                                                                   |
| Waste Line :        | 1                                                                        |
| DOT Description :   | UN3175 WASTE SOLIDS CONTAINING FLAMMABLE LIQUID NOS<br>GASOLINE 4.1 PGII |
| Container Count :   | 1                                                                        |
| Container Type :    | Metal drums, barrels, kegs                                               |
| Quantity :          | 30                                                                       |
| Units :             | Gallons                                                                  |
| Waste Code 1 :      | D001                                                                     |
| Waste Code 2 :      | D018                                                                     |
| Waste Code 3 :      | N/R                                                                      |
| Waste Code 4 :      | N/R                                                                      |
| Waste Code 5 :      | N/R                                                                      |
| Waste Code 6 :      | N/R                                                                      |

|                     |                                                    |
|---------------------|----------------------------------------------------|
| Pre-Number :        | 01152975JJK                                        |
| Generator ID :      | VT5000001594                                       |
| Manifest ID :       | 128562                                             |
| Mailing Name :      | CUMBERLAND FARMS #4018                             |
| Mailing Address :   | 100 CROSSING BLVD, FRAMINGHAM, MA 01702            |
| Contact Name :      | ANGELA PIMENTAL                                    |
| Contact Phone :     | 8002259702 4494                                    |
| Transporter ID :    | CTD021816889                                       |
| Transporter Name :  | UNITED OIL RECOVERY INC                            |
| Transporter City :  | MERIDEN                                            |
| Transporter State : | CT                                                 |
| Gen Date :          | 07/25/2016                                         |
| Facility ID :       | CTD021816889                                       |
| Name :              | UNITED OIL RECOVERY INC                            |
| City :              | MERIDEN                                            |
| State :             | CT                                                 |
| Fac Date :          | 08/06/2016                                         |
| Waste :             | 260454                                             |
| Waste Line :        | 1                                                  |
| DOT Description :   | WASTE SOLIDS CONTAINING FLAMMABLE LIQUIDS GASOLINE |
| Container Count :   | 1                                                  |
| Container Type :    | Metal drums, barrels, kegs                         |
| Quantity :          | 30                                                 |
| Units :             | Pounds                                             |



Map Id: 40  
Direction: ENE  
Distance: 0.943 mi.  
Actual: 4979.437 ft.  
Elevation: 0.021 mi. / 110.925 ft.  
Relative: Lower

**Site Name :** CUMBERLAND FARMS #4018  
661 PINE ST  
BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HWG - VT, MANIFEST - RI,  
MANIFEST - VT, RCRA\_CESQG, SHWS - VT]  
**(cont.)**

**Envirosite ID:** 13361085  
**EPA ID:** VT5000001594

MANIFEST - VT **(cont.)**

Waste Code 1 : D001  
Waste Code 2 : D018  
Waste Code 3 : N/R  
Waste Code 4 : N/R  
Waste Code 5 : N/R  
Waste Code 6 : N/R

Pre-Number : 01152975JJK  
Generator ID : VT5000001594  
Manifest ID : 128562  
Mailing Name : CUMBERLAND FARMS #4018  
Mailing Address : 100 CROSSING BLVD, FRAMINGHAM, MA 01702  
Contact Name : ANGELA PIMENTAL  
Contact Phone : 8002259702 4494  
Transporter ID : VTR000522854  
Transporter Name : ACCUWORX USA INC  
Transporter City : BARRE  
Transporter State : VT  
Gen Date : 07/25/2016  
Facility ID : CTD021816889  
Name : UNITED OIL RECOVERY INC  
City : MERIDEN  
State : CT  
Fac Date : 08/06/2016  
Waste : 260454  
Waste Line : 1  
DOT Description : WASTE SOLIDS CONTAINING FLAMMABLE LIQUIDS GASOLINE  
Container Count : 1  
Container Type : Metal drums, barrels, kegs  
Quantity : 30  
Units : Pounds  
Waste Code 1 : D001  
Waste Code 2 : D018  
Waste Code 3 : N/R  
Waste Code 4 : N/R  
Waste Code 5 : N/R  
Waste Code 6 : N/R

Pre-Number : 01152975JJK  
Generator ID : VT5000001594  
Manifest ID : 128562  
Mailing Name : CUMBERLAND FARMS #4018  
Mailing Address : 100 CROSSING BLVD, FRAMINGHAM, MA 1702  
Contact Name : ANGELA PIMENTAL  
Contact Phone : 8002259702 4494  
Transporter ID : CTD021816889  
Transporter Name : UNITED OIL RECOVERY INC  
Transporter City : MERIDEN  
Transporter State : CT  
Gen Date : 07/25/2016  
Facility ID : CTD021816889  
Name : UNITED OIL RECOVERY INC  
City : MERIDEN

Map Id: 40  
Direction: ENE  
Distance: 0.943 mi.  
Actual: 4979.437 ft.  
Elevation: 0.021 mi. / 110.925 ft.  
Relative: Lower

**Site Name :** CUMBERLAND FARMS #4018  
661 PINE ST  
BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HWG - VT, MANIFEST - RI,  
MANIFEST - VT, RCRA\_CESQG, SHWS - VT]  
**(cont.)**

**Envirosite ID:** 13361085  
**EPA ID:** VT5000001594

MANIFEST - VT **(cont.)**

State : CT  
Fac Date : 08/06/2016  
Waste : 260454  
Waste Line : 1  
DOT Description : WASTE SOLIDS CONTAINING FLAMMABLE LIQUIDS GASOLINE  
Container Count : 1  
Container Type : Metal drums, barrels, kegs  
Quantity : 30  
Units : Pounds  
Waste Code 1 : D001  
Waste Code 2 : D018  
Waste Code 3 : N/R  
Waste Code 4 : N/R  
Waste Code 5 : N/R  
Waste Code 6 : N/R

Pre-Number : 01152975JJK  
Generator ID : VT5000001594  
Manifest ID : 128562  
Mailing Name : CUMBERLAND FARMS #4018  
Mailing Address : 100 CROSSING BLVD, FRAMINGHAM, MA 1702  
Contact Name : ANGELA PIMENTAL  
Contact Phone : 8002259702 4494  
Transporter ID : VTR000522854  
Transporter Name : ACCUWORX USA INC  
Transporter City : BARRE  
Transporter State : VT  
Gen Date : 07/25/2016  
Facility ID : CTD021816889  
Name : UNITED OIL RECOVERY INC  
City : MERIDEN  
State : CT  
Fac Date : 08/06/2016  
Waste : 260454  
Waste Line : 1  
DOT Description : WASTE SOLIDS CONTAINING FLAMMABLE LIQUIDS GASOLINE  
Container Count : 1  
Container Type : Metal drums, barrels, kegs  
Quantity : 30  
Units : Pounds  
Waste Code 1 : D001  
Waste Code 2 : D018  
Waste Code 3 : N/R  
Waste Code 4 : N/R  
Waste Code 5 : N/R  
Waste Code 6 : N/R

RCRA\_CESQG

Facility Name : CUMBERLAND FARMS #4018  
Facility Address : 661 PINE ST, BURLINGTON, VT 05401

Map Id: 40  
Direction: ENE  
Distance: 0.943 mi.  
Actual: 4979.437 ft.  
Elevation: 0.021 mi. / 110.925 ft.  
Relative: Lower

**Site Name :** CUMBERLAND FARMS #4018  
661 PINE ST  
BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HWG - VT, MANIFEST - RI,  
MANIFEST - VT, RCRA\_CESQG, SHWS - VT]  
**(cont.)**

**EnviroSite ID:** 13361085  
**EPA ID:** VT5000001594

**RCRA\_CESQG (cont.)**

Date Form Received by Agency : 07/25/2017  
EPA ID : VT5000001594  
Mailing Address : 165 FLANDERS ROAD, WESTBOROUGH, MA 01581  
Contact : ANGELA PIMENTAL  
Contact Address : 165 FLANDERS ROAD, WESTBOROUGH, MA 01581  
Contact Country : US  
Contact Telephone : 800-225-9702  
Contact Email : APIMENTAL@CUMBERLANDFARMS.COM  
EPA Region : 01  
Land Type : Private  
Source Type : Implementer  
Classification : Conditionally Exempt Small Quantity Generator

**Description :**

Handlers that generate 100 kilograms or less of hazardous waste per calendar month, and accumulate 1000 kg or less of hazardous waste at any time; or generate one kilogram or less of acutely hazardous waste per calendar month, and accumulate at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generate 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulate at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste.

**Owner/Operator Summary**

Owner/Operator Name : CUMBERLAND FARMS INC  
Owner/Operator Address : 777 DEDHAM ST, CANTON, MA 02021  
Owner/Operator Country : US  
Owner/Operator Telephone : 781-828-4900  
Owner/Operator Email : N/R  
Owner/Operator Fax : N/R  
Legal Status : Private  
Owner/Operator Type : Operator  
Owner/Operator Start Date : 08/24/2009  
Owner/Operator End Date : N/R

Owner/Operator Name : CUMBERLAND FARMS INC  
Owner/Operator Address : 777 DEDHAM ST, CANTON, MA 02021  
Owner/Operator Country : US  
Owner/Operator Telephone : 781-828-4900  
Owner/Operator Email : N/R  
Owner/Operator Fax : N/R  
Legal Status : Private  
Owner/Operator Type : Owner  
Owner/Operator Start Date : 01/01/1776  
Owner/Operator End Date : N/R

Map Id: 40  
 Direction: ENE  
 Distance: 0.943 mi.  
 Actual: 4979.437 ft.  
 Elevation: 0.021 mi. / 110.925 ft.  
 Relative: Lower

**Site Name :** CUMBERLAND FARMS #4018  
 661 PINE ST  
 BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HWG - VT, MANIFEST - RI,  
 MANIFEST - VT, RCRA\_CESQG, SHWS - VT]  
**(cont.)**

**Envirosite ID:** 13361085  
**EPA ID:** VT5000001594

## RCRA\_CESQG (cont.)

### Handler Activities Summary

|                                      |   |
|--------------------------------------|---|
| U.S. Importer of Hazardous Waste :   | N |
| Mixed Waste (Haz. and Radioactive) : | N |
| Recycler of Hazardous Waste :        | N |
| Transporter of Hazardous Waste :     | N |
| Treater, Storer or Disposer of HW :  | N |
| Underground Injection Activity :     | N |
| On-site Burner Exemption :           | N |
| Furnace Exemption :                  | N |
| Used Oil Fuel Burner :               | N |
| Used Oil Processor :                 | N |
| Used Oil Refiner :                   | N |
| Used Oil Fuel Marketer to Burner :   | N |
| Used Oil Specification Marketer :    | N |
| Used Oil Transfer Facility :         | N |
| Used Oil Transporter :               | N |

### Historical Generators

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Date Form Received by Agency : | 08/24/2009                                    |
| Facility Name :                | CUMBERLAND FARMS #4018                        |
| Classification :               | Conditionally Exempt Small Quantity Generator |

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Date Form Received by Agency : | 02/22/2002                                    |
| Facility Name :                | CUMBERLAND FARMS #4018                        |
| Classification :               | Conditionally Exempt Small Quantity Generator |

|                                |                          |
|--------------------------------|--------------------------|
| Date Form Received by Agency : | 04/16/1994               |
| Facility Name :                | CUMBERLAND FARMS #4018   |
| Classification :               | Small Quantity Generator |

### Hazardous Waste Summary

|                     |                                          |
|---------------------|------------------------------------------|
| Waste Code / Name : | D001 - IGNITABLE WASTE<br>D018 - BENZENE |
|---------------------|------------------------------------------|

### Notices of Violations Summary

|                       |   |
|-----------------------|---|
| Regulation Violated : | N |
|-----------------------|---|

## SHWS - VT

|                    |                         |
|--------------------|-------------------------|
| Facility Name :    | Cumberland Farms #4018  |
| Facility Address : | 661 Pine St, Burlington |
| County :           | Chittenden              |

|                  |            |
|------------------|------------|
| Discovery Date : | 04/21/1998 |
| Closure Date :   | 08/27/2012 |
| Site Number :    | 982418     |

Map Id: 40  
 Direction: ENE  
 Distance: 0.943 mi.  
 Actual: 4979.437 ft.  
 Elevation: 0.021 mi. / 110.925 ft.  
 Relative: Lower

**Site Name :** CUMBERLAND FARMS #4018  
 661 PINE ST  
 BURLINGTON, VT 05401  
**Database(s) :** [ECHO, FRS, HWG - VT, MANIFEST - RI,  
 MANIFEST - VT, RCRA\_CESQG, SHWS - VT]  
**(cont.)**

**EnviroSite ID:** 13361085  
**EPA ID:** VT5000001594

## SHWS - VT (cont.)

|                             |                                                                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site Use :                  | Retail Motor Fuel                                                                                                                                                                                                                    |
| Priority :                  | SMAC - Site Management Activities Completed                                                                                                                                                                                          |
| Site Status :               | Voluntary Action                                                                                                                                                                                                                     |
| Project Status :            | UST removed. Contam found. Investigation completed. Semi-annual GW monitoring required, 5/7, 9/13/99, 3/22, 9/20/00, 4/24/01, 4 of 8; 6/2011 3 of 8 wells over VGES in the vicinity of the USTs and pump island. No off site impact. |
| Source of Contamination :   | UST-Gasoline                                                                                                                                                                                                                         |
| Contaminant :               | Gasoline                                                                                                                                                                                                                             |
| Institutional Control :     | Land Record Notice                                                                                                                                                                                                                   |
| Site Closure Date :         | 08/27/2012                                                                                                                                                                                                                           |
| Record Last Updated :       | 03/28/2013                                                                                                                                                                                                                           |
| DEC Manager :               | Gerold Noyes                                                                                                                                                                                                                         |
| DEC Staff Person :          | Gerold Noyes                                                                                                                                                                                                                         |
| DEC Contact Email Address : | Gerold.Noyes@vermont.gov                                                                                                                                                                                                             |
| Latitude :                  | 44.4611459324                                                                                                                                                                                                                        |
| Longitude :                 | -73.2149620074                                                                                                                                                                                                                       |

Map Id: 41  
 Direction: NE  
 Distance: 0.973 mi.  
 Actual: 5136.457 ft.  
 Elevation: N/R  
 Relative: N/R

**Site Name :** PINE STREET CANAL  
 44.4665759761, -73.2167808864  
 BURLINGTON, VT 05401  
**Database(s) :** [CDC HAZDAT]

**EnviroSite ID:** 325357681  
**EPA ID:** N/R

## CDC HAZDAT

|               |                |
|---------------|----------------|
| Site ID :     | VTD980523062   |
| ORIG FID :    | 1994           |
| FEMA Region : | 01             |
| Latitude :    | 44.4665759761  |
| Longitude :   | -73.2167808864 |

| <b><u>ENVIROSITE ID</u></b> | <b><u>NAME</u></b>                 | <b><u>ADDRESS</u></b>        | <b><u>CITY</u></b> | <b><u>ZIP</u></b> | <b><u>DATABASE(S)</u></b> |
|-----------------------------|------------------------------------|------------------------------|--------------------|-------------------|---------------------------|
| <u>15590733</u>             | AGWAY ENERGY PRODUCTS              | BEARTRAP ROAD                | MILTON             | 05401             | RCRA_LQG                  |
| <u>1324570</u>              | BURLINGTON MUNICIPAL DISPOS...     | INTERVALE AVENUE             | BURLINGTON         | 05401             | CERCLIS-HIST, FRS, SE...  |
| <u>1113781</u>              | Champlain College Freeman Building | Maple Street                 | Burlington         |                   | LUST - VT, UST - VT       |
| <u>6007503</u>              | City of Burlington North Plant     | North Ave. extension         | Burlington         | 05401             | HIST T 2 - VT             |
| <u>14574621</u>             | FAIRPOINT COMMUNICATIONS M...      | RTE 7 SOUTH                  | BURLINGTON         | 05401             | ECHO, FRS, RCRA_NONGEN    |
| <u>21575560</u>             | GENERAL ELECTRIC CO                | GUN BARREL PRODUCTION SHOP   | BURLINGTON         | 05401             | RCRA_NONGEN               |
| <u>1360474</u>              | GENERAL ELECTRIC CO A&ESD          | INDUSTRIAL PARKWAY           | BURLINGTON         | 05401             | CERCLIS NFRAP, SEMS...    |
| <u>15289228</u>             | LAKE CHAMPLAIN TRANSPORTATION      | KING ST DOCK                 | BURLINGTON         | 05401             | MANIFEST - VT             |
| <u>1113756</u>              | Lakeview Cemetery                  | North Avenue                 | Burlington         | 05401             | LUST - VT, UST - VT       |
| <u>1119452</u>              | Lawrence Barnes School             | North Street                 | Burlington         | 05401             | UST - VT                  |
| <u>1113782</u>              | Mccauliffe's Office Products       | Cherry Street                | Burlington         |                   | LUST - VT, UST - VT       |
| <u>14574108</u>             | MITEL SEMICONDUCTORS               | AIR GUARD RD BLDG 880        | SOUTH BURLINGTON   | 05401             | ECHO, FRS, RCRA_NONGEN    |
| <u>1119500</u>              | New England Telephone Central...   | Farrell Street               | South Burlington   | 05401             | UST - VT                  |
| <u>1360520</u>              | OFFSET HOUSE PROPERTY              | AIRPORT PARKWAY              | SOUTH BURLINGTON   | 05401             | CERCLIS NFRAP, SEMS...    |
| <u>1113779</u>              | Right of Way                       | Sears Lane                   | Burlington         |                   | LUST - VT, UST - VT       |
| <u>1119389</u>              | School District Bus Garage         | Patchen Road                 | South Burlington   | 05401             | UST - VT                  |
| <u>1119844</u>              | Seven Burlington Square            | Corner of Pine & Bank Street | Burlington         | 05401             | UST - VT                  |
| <u>1119596</u>              | US Coast Guard Station             | Depot Street                 | Burlington         | 05401             | UST - VT                  |
| <u>402906526</u>            | VAG MINE SITE                      | EDEN/LOWELL                  |                    |                   | EPA OSC                   |
| <u>1360525</u>              | VERMONT AIR NATIONAL GUARD         | BURLINGTON IAP               | BURLINGTON         | 05401             | CERCLIS NFRAP, FEDE...    |
| <u>14574380</u>             | VT AGENCY OF ENVIR CONSERV...      | MALTEX POND PINE ST          | BURLINGTON         | 05401             | ECHO, FRS, RCRA_NONGEN    |
| <u>1117953</u>              | Vt Aot                             | Pine St                      | Burlington         |                   | SHWS - VT                 |
| <u>1119611</u>              | Woodbury Lumber Corp.              | Foot of King Street          | Burlington         | 05401             | UST - VT                  |
| <u>3545913</u>              | YMCA                               | COLLEGE STREET               | BURLINGTON         | 05401             | FRS, FTTS INSP, UST - VT  |



**FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST**

ARCHIVED RCRA TSD: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 08/03/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/21/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 10/12/2018

RCRA\_TSD: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 08/03/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 12/21/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 10/12/2018

**FEDERAL CERCLIS LIST**

CERCLIS NFRAP: The CERCLIS sites with No Further Remedial Action Planned from the CERCLIS program database. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 800-424-9346  
Most Recent Contact: 11/12/2018

CERCLIS-HIST: The CERCLIS program database contains information on the assessment and remediation of federal hazardous waste sites. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 800-424-9346  
Most Recent Contact: 11/12/2018

FEDERAL FACILITY: Sites where Federal Facilities Restoration and Reuse Office (FFRRO) arranged cleanup for Base Closure and Property Transfer at Federal Facilities

Agency Version Date: 07/26/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8712  
Most Recent Contact: 11/12/2018

SEMS\_8R\_ACTIVE SITES: The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. NPL sites include latitude and longitude information. For non-NPL sites, a brief site status is provided.

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 11/12/2018

SEMS\_8R\_ARCHIVED SITES: The Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 11/12/2018

**FEDERAL RCRA CORRACTS FACILITIES LIST**

CORRACTS: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases

Agency Version Date: 08/03/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 12/21/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-1667  
Most Recent Contact: 10/12/2018

**FEDERAL DELISTED NPL SITE LIST**

DELISTED NPL: National Priority List of sites that were delisted and no longer require action

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 11/12/2018

DELISTED PROPOSED NPL: Sites that have been delisted from the proposed National Priority List

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 11/12/2018

SEMS\_DELETED NPL: All Deleted National Priority List Sties

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 11/12/2018

**FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS**

EPA LF MOP: Sites in the EPA Landfill Methane Outreach Program

Agency Version Date: 10/08/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 12/17/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 10/08/2018

**FEDERAL ERNS LIST**

ERNS: Emergency Response Notification System records of reported spills

Agency Version Date: 09/05/2018  
Agency Update Frequency: Annually  
Planned Next Contact: 01/23/2019

Agency: National Response Center United States Coast Guard  
Agency Contact: N/R  
Most Recent Contact: 11/14/2018

**FEDERAL NPL SITE LIST**

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 11/12/2018

NPL EPA R1 GIS: Geospatial data for the Environmental Protection Agency Region 1 National Priority List subject to environmental regulation

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-2132  
Most Recent Contact: 11/12/2018

**FEDERAL NPL SITE LIST (cont.)**

NPL EPA R3 GIS: Geospatial data for the Environmental Protection Agency Region 3 National Priority List subject to environmental regulation

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-2132  
Most Recent Contact: 11/12/2018

NPL EPA R6 GIS: Geospatial data for the Environmental Protection Agency Region 6 National Priority List subject to environmental regulation

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-2132  
Most Recent Contact: 11/12/2018

NPL EPA R8 GIS: Geospatial data for the Environmental Protection Agency Region 8 National Priority List subject to environmental regulation

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-2132  
Most Recent Contact: 11/12/2018

NPL EPA R9 GIS: Geospatial data for the Environmental Protection Agency Region 9 National Priority List subject to environmental regulation

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-2132  
Most Recent Contact: 11/12/2018

PART NPL: Sites that are a part of an National Priority List site referred to as the parent site

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 11/12/2018

PROPOSED NPL: Sites that have been proposed for the National Priority List

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 11/12/2018

SEMS\_FINAL NPL: All Included National Priority List Sites

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 11/12/2018

SEMS\_PROPOSED NPL: All Proposed National Priority List Sites

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 11/12/2018

**FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

RCRA IC\_EC: Sites with institutional or engineering controls related to Resource Conservation and Recovery Act

Agency Version Date: 08/03/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/21/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 10/12/2018

## FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES (cont.)

Fed E C: Federal listing of remediation sites with engineering controls

Agency Version Date: 09/19/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 02/06/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 800-424-9346  
Most Recent Contact: 11/28/2018

Fed I C: Federal listing of remediation sites with institutional controls

Agency Version Date: 09/19/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 02/06/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 800-424-9346  
Most Recent Contact: 11/28/2018

## FEDERAL RCRA GENERATORS LIST

RCRA\_CESQG: Resource Conservation and Recovery Act listing of licensed conditionally exempt small quantity generators

Agency Version Date: 08/03/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/21/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 10/12/2018

RCRA\_LQG: Resource Conservation and Recovery Act listing of licensed large quantity generators

Agency Version Date: 08/03/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 12/21/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 10/12/2018

RCRA\_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators

Agency Version Date: 08/03/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/21/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 10/12/2018

RCRA\_SQG: Resource Conservation and Recovery Act listing of licensed small quantity generators

Agency Version Date: 08/03/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 12/21/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 10/12/2018

## STATE AND TRIBAL REGISTERED STORAGE TANK LISTS

FEMA UST: FEMA underground storage tank listing

Agency Version Date: 04/27/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/08/2019

Agency: FEMA  
Agency Contact: 202-212-5283  
Most Recent Contact: 10/10/2018

INDIAN UST R1: Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 10/30/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/08/2019

Agency: U.S. Environmental Protection Agency Region 1  
Agency Contact: 855-246-3642  
Most Recent Contact: 10/30/2018

INDIAN UST R10: Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 04/12/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 02/04/2019

Agency: U.S. Environmental Protection Agency Region 10  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/26/2018

**STATE AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)****INDIAN UST R2: Underground Storage Tanks on Indian Land in EPA Region 2**

Agency Version Date: 12/07/2016  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/14/2019

Agency: U.S. Environmental Protection Agency Region 2  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/05/2018

**INDIAN UST R4: Underground Storage Tanks on Indian Land in EPA Region 4**

Agency Version Date: 10/14/2017  
Agency Update Frequency: Semi Annually  
Planned Next Contact: 02/04/2019

Agency: U.S. Environmental Protection Agency Region 4  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/26/2018

**INDIAN UST R5: Underground Storage Tanks on Indian Land in EPA Region 5**

Agency Version Date: 04/12/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/24/2019

Agency: U.S. Environmental Protection Agency Region 5  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/15/2018

**INDIAN UST R6: Underground Storage Tanks on Indian Land in EPA Region 6**

Agency Version Date: 04/01/2018  
Agency Update Frequency: Semi Annually  
Planned Next Contact: 02/07/2019

Agency: U.S. Environmental Protection Agency Region 6  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/29/2018

**INDIAN UST R7: Underground Storage Tanks on Indian Land in EPA Region 7**

Agency Version Date: 09/06/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/24/2019

Agency: U.S. Environmental Protection Agency Region 7  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/15/2018

**INDIAN UST R8: Underground Storage Tanks on Indian Land in EPA Region 8**

Agency Version Date: 04/25/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/07/2019

Agency: U.S. Environmental Protection Agency Region 8  
Agency Contact: 855-246-3642  
Most Recent Contact: 10/29/2018

**INDIAN UST R9: Underground Storage Tanks on Indian Land in EPA Region 9**

Agency Version Date: 04/10/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/07/2019

Agency: U.S. Environmental Protection Agency Region 9  
Agency Contact: 855-246-3642  
Most Recent Contact: 10/29/2018

**AST - VT: Aboveground storage tank listing**

Agency Version Date: 07/17/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 02/12/2019

Agency: Department of Environmental Conservation  
Agency Contact: 802.522.0469  
Most Recent Contact: 12/04/2018

**UST - VT: Registered Underground Storage Tanks**

Agency Version Date: 09/21/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 02/08/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 828-1138  
Most Recent Contact: 11/30/2018

**STATE AND TRIBAL LEAKING STORAGE TANK LISTS****INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land in EPA Region 1**

Agency Version Date: 10/14/2017  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/08/2019

Agency: U.S. Environmental Protection Agency Region 1  
Agency Contact: 855-246-3642  
Most Recent Contact: 10/30/2018

**INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land in EPA Region 10**

Agency Version Date: 04/12/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 02/04/2019

Agency: U.S. Environmental Protection Agency Region 10  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/26/2018

**INDIAN LUST R2: Leaking Underground Storage Tanks on Indian Land in EPA Region 2**

Agency Version Date: 12/07/2016  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/14/2019

Agency: U.S. Environmental Protection Agency Region 2  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/05/2018

**INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land in EPA Region 4**

Agency Version Date: 10/14/2017  
Agency Update Frequency: Semi Annually  
Planned Next Contact: 02/04/2019

Agency: U.S. Environmental Protection Agency Region 4  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/26/2018

**INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land in EPA Region 5**

Agency Version Date: 04/12/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/24/2019

Agency: U.S. Environmental Protection Agency Region 5  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/15/2018

**INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land in EPA Region 6**

Agency Version Date: 04/01/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/28/2019

Agency: U.S. Environmental Protection Agency Region 6  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/19/2018

**INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land in EPA Region 7**

Agency Version Date: 09/06/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/24/2019

Agency: U.S. Environmental Protection Agency Region 7  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/15/2018

**INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land in EPA Region 8**

Agency Version Date: 04/25/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/25/2019

Agency: U.S. Environmental Protection Agency Region 8  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/16/2018

**INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land in EPA Region 9**

Agency Version Date: 04/10/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/07/2019

Agency: U.S. Environmental Protection Agency Region 9  
Agency Contact: 855-246-3642  
Most Recent Contact: 10/29/2018

**LAST - VT: Aboveground Storage Tank with releases/ leaks**

Agency Version Date: 08/30/2018  
Agency Update Frequency: No update  
Planned Next Contact: 01/17/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 249-5601  
Most Recent Contact: 11/08/2018



**STATE AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)**

LUST - VT: Underground Storage Tank with releases/ leaks

Agency Version Date: 09/21/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 02/08/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 249-5346  
Most Recent Contact: 11/30/2018

**STATE BROWNFIELD LIST**

TRIBAL BROWNFIELDS: Tribal brownfield remediation site listing

Agency Version Date: 02/10/2014  
Agency Update Frequency: Quarterly  
Planned Next Contact: 12/12/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 09/14/2018

BROWNFIELDS - VT: List of brownfield Sites

Agency Version Date: 10/26/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/04/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 241-3296  
Most Recent Contact: 10/26/2018

**STATE- AND TRIBAL - EQUIVALENT CERCLIS**

HIST SHWS - VT: List of State Hazardous Waste sites recorded in the state that is no longer in current agency list.

Agency Version Date: 09/24/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 02/11/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 241-3888  
Most Recent Contact: 12/03/2018

SHWS - VT: State Hazardous Waste sites recorded in the state

Agency Version Date: 09/24/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 02/11/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 241-3888  
Most Recent Contact: 12/03/2018

**STATE RCRA GENERATORS LIST**

HWG - VT: Hazardous waste generator listing

Agency Version Date: 09/17/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 02/04/2019

Agency: Department of Environmental Conservation  
Agency Contact: 800.522.5729  
Most Recent Contact: 11/26/2018

**STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

I C - VT: Sites with institutional controls

Agency Version Date: 10/26/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/04/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 241-3296  
Most Recent Contact: 10/26/2018

**STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS**

SWF/LF - VT: State Landfill locations

Agency Version Date: 09/21/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 02/08/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 241-3888  
Most Recent Contact: 11/30/2018

## LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES: EPA Brownfields Assessment, Cleanup and Redevelopment Exchange System.

Agency Version Date: 10/02/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 12/06/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 09/27/2018

Fed Brownfields: Federal brownfield remediation sites

Agency Version Date: 08/28/2018  
Agency Update Frequency: Semi Annually  
Planned Next Contact: 01/15/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/06/2018

## LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL: The U.S. Department of Justice listing of clandestine drug lab locations

Agency Version Date: 08/20/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/07/2019

Agency: U.S. Department of Justice  
Agency Contact: 202-307-7610  
Most Recent Contact: 10/29/2018

US HIST CDL: The U.S. Department of Justice historical listing of clandestine drug lab locations

Agency Version Date: 08/20/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/07/2019

Agency: U.S. Department of Justice  
Agency Contact: 202-307-7610  
Most Recent Contact: 10/29/2018

## LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8: List of Region 8 Indian land open dump inventory sites maintained within the STARS program that is no longer in current agency list.

Agency Version Date: 11/12/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/21/2019

Agency: Indian Health Service  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/12/2018

INDIAN ODI R8: Region 8 Indian land open dump inventory sites maintained within the STARS program

Agency Version Date: 11/12/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/21/2019

Agency: Indian Health Service  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/12/2018

ODI: Open dump inventory sites

Agency Version Date: 10/03/2017  
Agency Update Frequency: No Update  
Planned Next Contact: 02/05/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 11/27/2018

TRIBAL ODI: Indian land open dump inventory for all regions

Agency Version Date: 09/20/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 02/07/2019

Agency: Indian Health Service  
Agency Contact: 301-443-3593  
Most Recent Contact: 11/29/2018

SWRCY - VT: Recycling facilities

Agency Version Date: 09/07/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/25/2019

Agency: Department of Environmental Conservation  
Agency Contact: (410) 333-2730  
Most Recent Contact: 11/16/2018

**RECORDS OF EMERGENCY RELEASE REPORTS**

HMIRS (DOT): Hazardous Material spills reported by the Department of Transportation

Agency Version Date: 10/03/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/12/2018

Agency: U.S. Department of Transportation  
Agency Contact: (202) 366-4996  
Most Recent Contact: 10/03/2018

HIST SPILLS - VT: Remediated Spills

Agency Version Date: 08/30/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/17/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 249-5346  
Most Recent Contact: 11/08/2018

SPILLS - VT: List of reported chemical spills

Agency Version Date: 08/30/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/17/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 249-5346  
Most Recent Contact: 11/08/2018

**LOCAL LAND RECORDS**

LIENS 2: Comprehensive Environmental Response Compensation and Liability Act sites with liens

Agency Version Date: 05/11/2017  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 03/01/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 800-424-9346  
Most Recent Contact: 09/05/2018

**OTHER ASCERTAINABLE RECORDS**

AFS: Air Facility Systems Quarterly Extract

Agency Version Date: 09/07/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/25/2019

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 11/16/2018

BRS: Reporting of hazardous waste generation and management from large quantity generators

Agency Version Date: 08/03/2018  
Agency Update Frequency: Biennial  
Planned Next Contact: 12/21/2018

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 10/12/2018

CDC HAZDAT: The Agency for Toxic Substances and Disease Registry's Hazardous Substance Release/Health Effects Database.

Agency Version Date: 07/26/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/21/2019

Agency: Agency for Toxic Substances and Disease Registry  
Agency Contact: 770-488-6399  
Most Recent Contact: 11/12/2018

COAL ASH DOE: List of existing and planned generators with 1 megawatt or greater of combined capacity that are utilizing coal ash impoundments.

Agency Version Date: 10/04/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/13/2018

Agency: Department of Energy  
Agency Contact: (202) 586-8800  
Most Recent Contact: 10/04/2018

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Agency Version Date: 07/31/2014  
Agency Update Frequency: Varies  
Planned Next Contact: 01/28/2019

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 11/19/2018

## OTHER ASCERTAINABLE RECORDS (cont.)

### COAL GAS: Manufactured Gas Plant locations

Agency Version Date: 04/23/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 12/26/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 09/28/2018

### CONSENT (DECREES): Legal decisions regarding responsibility for Superfund locations

Agency Version Date: 07/26/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/21/2019

Agency: Environmental Protection Agency  
Agency Contact: (800) 424-9346  
Most Recent Contact: 11/12/2018

DEBRIS R5 LF: US EPA Region 5 Disaster Debris Recovery Database is a list of public facilities for disaster construction and demolition materials, electronics, household hazardous waste, metals, tires, and vehicles in EPA Region 5.

Agency Version Date: 10/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/04/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 10/26/2018

DEBRIS R5 SWRCY: US EPA Region 5 Disaster Debris Recovery Database is a list of public facilities for disaster construction and demolition materials, electronics, household hazardous waste, metals, tires, and vehicles in EPA Region 5.

Agency Version Date: 10/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/04/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 10/26/2018

### DOD: Department of Defense sites

Agency Version Date: 08/08/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/21/2019

Agency: Environmental Protection Agency  
Agency Contact: (800) 424-9346  
Most Recent Contact: 11/12/2018

### DOT OPS: Incident Data Report

Agency Version Date: 09/17/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 02/04/2019

Agency: U.S. Department of Transportation  
Agency Contact: (202) 366-4996  
Most Recent Contact: 11/26/2018

ECHO: ECHO is EPA Enforcement and Compliance History Online website to search for facilities in your community to assess their compliance with environmental regulations related to CAA, CWA, RCRA, & SDWA.

Agency Version Date: 10/08/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 12/17/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-1667  
Most Recent Contact: 10/08/2018

ENOI: The Electronic Notice of Intent (eNOI) database contains construction sites and industrial facilities that submit permit requests to EPA for Construction General Permits (CGP) and Multi-Sector General Permits (MSGP).

Agency Version Date: 09/21/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 02/08/2019

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 11/30/2018

### EPA FUELS: List of companies and facilities registered to participate in EPA Fuel Programs under Title 40 CFR Part 80.

Agency Version Date: 09/07/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/25/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: (202) 564-2307  
Most Recent Contact: 11/16/2018

**OTHER ASCERTAINABLE RECORDS (cont.)**

EPA OSC: Listing of oil spills and hazardous substance release sites requiring EPA On-Site Coordinators.

Agency Version Date: 10/03/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 12/12/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: (202) 564-2307  
Most Recent Contact: 10/03/2018

EPA WATCH: The EPA Watch List was used to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. EPA maintained the lists from 2011 - 2013.

Agency Version Date: 02/09/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/25/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: (202) 564-2307  
Most Recent Contact: 11/16/2018

FA HWF: Hazardous Waste Facilities with Financial Assurance

Agency Version Date: 10/23/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/01/2019

Agency: Environmental Protection Agency  
Agency Contact: (800) 424-9346  
Most Recent Contact: 10/23/2018

FEDLAND: Federal land locations

Agency Version Date: 07/26/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/21/2019

Agency: Environmental Protection Agency  
Agency Contact: (800) 424-9346  
Most Recent Contact: 11/12/2018

FRS: Facility Registry Systems

Agency Version Date: 09/13/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/31/2019

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 11/22/2018

FTTS: Tracking of administrative and enforcement activities related to FIFRA/TSCA

Agency Version Date: 04/16/2013  
Agency Update Frequency: Varies  
Planned Next Contact: 03/22/2019

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-2280  
Most Recent Contact: 09/24/2018

FTTS INSP: Tracking of inspections related to FIFRA/TSCA

Agency Version Date: 05/08/2017  
Agency Update Frequency: Varies  
Planned Next Contact: 12/24/2018

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-2280  
Most Recent Contact: 09/26/2018

FUDS: Defense sites that require cleanup

Agency Version Date: 09/30/2015  
Agency Update Frequency: Varies  
Planned Next Contact: 01/28/2019

Agency: US Army Corps of Engineering  
Agency Contact: (202) 761-0011  
Most Recent Contact: 11/19/2018

HIST AFS: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 09/07/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/25/2019

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 11/16/2018

## OTHER ASCERTAINABLE RECORDS (cont.)

HIST DOD: Department of Defense historical sites

Agency Version Date: 08/17/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: Environmental Protection Agency  
Agency Contact: (800) 424-9346  
Most Recent Contact: 11/12/2018

HIST LEAD\_SMELTER: List of former Lead Smelter Sites that are no longer in current agency list.

Agency Version Date: 12/12/2017  
Agency Update Frequency: Varies  
Planned Next Contact: 02/05/2019

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 11/27/2018

HIST MLTS: List of sites in possession/use of radioactive materials regulated by NRC that are no longer in current agency list.

Agency Version Date: 07/05/2013  
Agency Update Frequency: Varies  
Planned Next Contact: 01/09/2019

Agency: Nuclear Regulatory Commission  
Agency Contact: (800) 397-4209  
Most Recent Contact: 10/31/2018

HIST PCB TRANS: List of PCB Disposal Facilities that are no longer in current agency list.

Agency Version Date: 01/18/2018  
Agency Update Frequency: No Update  
Planned Next Contact: 01/29/2019

Agency: Environmental Protection Agency  
Agency Contact: (703) 308-8404  
Most Recent Contact: 10/31/2018

HIST SSTS: List of tracking of facilities who produce pesticides and their quantity that are no longer in current agency list.

Agency Version Date: 02/28/2017  
Agency Update Frequency: Annually  
Planned Next Contact: 12/05/2018

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 09/26/2018

HWC DOCKET: Listing of Federal facilities which are managing or have managed hazardous waste; or have had a release of hazardous waste.

Agency Version Date: 06/29/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/25/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: (202) 564-2307  
Most Recent Contact: 11/16/2018

ICIS: Comprised of all Federal Administrative and Judicial enforcement information [intended to replace PCS] by tracking enforcement and compliance information (also contains what used to be known as FFTS)

Agency Version Date: 07/31/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/18/2018

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 10/09/2018

INACTIVE PCS: Inactive Permitted facilities to discharge wastewater

Agency Version Date: 07/31/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/18/2018

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-6582  
Most Recent Contact: 10/09/2018

INDIAN RESERVATION: Indian Reservation sites

Agency Version Date: 10/23/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/01/2019

Agency: Environmental Protection Agency  
Agency Contact: (800) 424-9346  
Most Recent Contact: 10/23/2018



**OTHER ASCERTAINABLE RECORDS (cont.)**

LEAD\_SMELTER: Listing of former Lead Smelter Sites

Agency Version Date: 07/17/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 02/05/2019

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 11/27/2018

LUCIS: Land Use Control Information Systems

Agency Version Date: 05/02/2018  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 12/31/2018

Agency: Department of the Navy: BRAC PMO  
Agency Contact: (619) 532-0900  
Most Recent Contact: 10/02/2018

LUCIS 2: Land Use Control Information Systems

Agency Version Date: 01/17/2018  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 09/30/2019

Agency: Department of the Navy: BRAC PMO  
Agency Contact: (619) 532-0900  
Most Recent Contact: 10/02/2018

MINES: Mines Master Index Files

Agency Version Date: 10/10/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/19/2018

Agency: Department of Labor  
Agency Contact: (202) 693-9400  
Most Recent Contact: 10/10/2018

MLTS: Sites in possession/use of radioactive materials regulated by NRC

Agency Version Date: 10/30/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/09/2019

Agency: Nuclear Regulatory Commission  
Agency Contact: (800) 397-4209  
Most Recent Contact: 10/31/2018

NPL AOC: Areas of Concern related to NPL remediation sites

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: Environmental Protection Agency  
Agency Contact: N/R  
Most Recent Contact: 11/12/2018

NPL LIENS: National Priority List of sites with Liens

Agency Version Date: 07/26/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 11/12/2018

OSHA: OSHA's listing of inspections violations and fatality information

Agency Version Date: 10/09/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/18/2018

Agency: Occupational Safety & Health Administration  
Agency Contact: 800-321-6742  
Most Recent Contact: 10/09/2018

PADS: Listing of generators transporters commercial store/ brokers and disposers of PCB

Agency Version Date: 01/18/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/18/2019

Agency: Environmental Protection Agency  
Agency Contact: (703) 308-8404  
Most Recent Contact: 11/09/2018

PCB TRANSFORMER: Disposal and Storage of Polychlorinated Biphenyl (PCB) Waste

Agency Version Date: 09/12/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/30/2019

Agency: Environmental Protection Agency  
Agency Contact: (703) 308-8404  
Most Recent Contact: 11/21/2018

## OTHER ASCERTAINABLE RECORDS (cont.)

PCS ENF: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 07/31/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/18/2018

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-6582  
Most Recent Contact: 10/09/2018

PCS FACILITY: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 07/31/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/18/2018

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-6582  
Most Recent Contact: 10/09/2018

RAATS: Listing of major violators with enforcement actions issued under RCRA. Includes administrative and civil actions filed by the EPA. This dataset is no longer maintained.

Agency Version Date: 08/03/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/21/2018

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 10/12/2018

RADINFO: EPA regulated facilities with radiation and radioactive materials

Agency Version Date: 10/25/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/03/2019

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 10/25/2018

RMP: Facilities producing/handling/ process/ distribute/ store specific chemicals report plans required by the Clean Air Act

Agency Version Date: 10/10/2018  
Agency Update Frequency: Monthly  
Planned Next Contact: 12/24/2018

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-2534  
Most Recent Contact: 09/26/2018

ROD: Permanent remedy at an NPL site

Agency Version Date: 07/26/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/21/2019

Agency: Environmental Protection Agency  
Agency Contact: (800) 424-9346  
Most Recent Contact: 11/12/2018

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners

Agency Version Date: 09/20/2018  
Agency Update Frequency: No Update  
Planned Next Contact: 02/07/2019

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 11/29/2018

SEMS\_SMELTER: This report includes sites that have smelting-related, or potentially smelting-related, indicators in the SEMS database. The report includes information on the site location as well as contaminants of concern.

Agency Version Date: 07/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/21/2019

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 11/12/2018

SSTS: Tracking of facilities who produce pesticides and their quantity

Agency Version Date: 09/26/2018  
Agency Update Frequency: Annually  
Planned Next Contact: 02/13/2019

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 12/05/2018

**OTHER ASCERTAINABLE RECORDS (cont.)****STORMWATER: Permitted storm water sites**

Agency Version Date: 07/31/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/18/2018

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 10/09/2018

**TOSCA-PLANT: Plants controlled by the Toxic Substance Control Act**

Agency Version Date: 09/26/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 02/13/2019

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 12/05/2018

**TRIS: Information regarding toxic chemicals that are being used/manufactured/ treated/ transported/released into the environment**

Agency Version Date: 03/12/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/17/2018

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 10/08/2018

**UMTRA: Uranium Recovery Sites**

Agency Version Date: 08/02/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/20/2018

Agency: United States Nuclear Regulatory Commission  
Agency Contact: (301) 415-8200  
Most Recent Contact: 10/11/2018

**Corrective Actions\_2020: The RCRA cleanup baseline includes facilities expected to need corrective action.**

Agency Version Date: 05/25/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 12/21/2018

Agency: U.S. Environmental Protection Agency  
Agency Contact: N/R  
Most Recent Contact: 10/12/2018

**AIRS - VT: Air permits**

Agency Version Date: 09/07/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 01/25/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 828-1288  
Most Recent Contact: 11/16/2018

**DAYCARE - VT: Day Care Providers**

Agency Version Date: 10/01/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/10/2018

Agency: Vermont Child Care Information Systems  
Agency Contact: (800) 649-2642  
Most Recent Contact: 10/01/2018

**DRYCLEANERS - VT: perchloroethylene Drycleaners**

Agency Version Date: 06/15/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 02/22/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 272-4088  
Most Recent Contact: 11/26/2018

**DRYCLEANERS 2 - VT: Perchloroethylene Drycleaners**

Agency Version Date: 10/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 01/04/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 272-4088  
Most Recent Contact: 10/26/2018

**HIST T 2 - VT: Historical List of facilities that submit an Emergency and Hazardous Chemical Inventory Form**

Agency Version Date: 05/21/2018  
Agency Update Frequency: No Update  
Planned Next Contact: 01/30/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 479-7586  
Most Recent Contact: 11/05/2018

**OTHER ASCERTAINABLE RECORDS (cont.)**

## MANIFEST - VT: Hazardous Waste Generators Manifest

Agency Version Date: 11/07/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 02/05/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 241-3888  
Most Recent Contact: 11/07/2018

## NPDES - VT: Inventory of NPDES permits

Agency Version Date: 09/25/2018  
Agency Update Frequency: Varies  
Planned Next Contact: 12/20/2018

Agency: Department of Environmental Conservation  
Agency Contact: (802) 241-3770  
Most Recent Contact: 09/24/2018

## T 2 - VT: List of facilities that submit an Emergency and Hazardous Chemical Inventory Form

Agency Version Date: 05/21/2018  
Agency Update Frequency: No update  
Planned Next Contact: 01/30/2019

Agency: Department of Environmental Conservation  
Agency Contact: (802) 479-7586  
Most Recent Contact: 11/01/2018

## UIC - VT: Regulated Underground Injection Controlled wells

Agency Version Date: 05/15/2018  
Agency Update Frequency: Semi Annually  
Planned Next Contact: 12/18/2018

Agency: Department of Environmental Conservation  
Agency Contact: (802) 585-4913  
Most Recent Contact: 09/20/2018

**SUBJECT PROPERTY ADDRESS:**

Wisener Property  
65 Oakledge Drive  
Burlington, Vermont 05401

**SUBJECT PROPERTY COORDINATES:**

|                                |                           |
|--------------------------------|---------------------------|
| Latitude(North):               | 44.453304 - 44°27'11.9"   |
| Longitude(West):               | -73.230367 - -73°13'49.3" |
| Universal Transverse Mercator: | Zone 18N                  |
| UTM X (Meters):                | 640794.54                 |
| UTM Y (Meters):                | 4923745.32                |

**ELEVATION:**

Elevation: 114.137 ft. above sea level

**USGS TOPOGRAPHIC MAP:**

|                       |                        |
|-----------------------|------------------------|
| Subject Property Map: | 44073d2 BURLINGTON, VT |
| Most Recent Revision: | 2018                   |

**GEOHYDROLOGY DATA:****SUBJECT PROPERTY TOPOGRAPHY:**

Topographic Gradient: North

**DFIRM FLOOD ZONE:**

|                                        |                                                        |
|----------------------------------------|--------------------------------------------------------|
|                                        | DFIRM Flood                                            |
| Subject Property County:               | Electronic Data:                                       |
| CHITTENDEN                             | Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP |
| Flood Plain Panel at Subject Property: | 50007C                                                 |
| Additional Panels in search area:      | No available data                                      |

**FEMA FLOOD ZONE:**

|                                        |                    |
|----------------------------------------|--------------------|
|                                        | FEMA Flood         |
| Subject Property County:               | Electronic Data:   |
| CHITTENDEN                             | No available data. |
| Flood Plain Panel at Subject Property: | No available data  |
| Additional Panels in search area:      | No available data  |

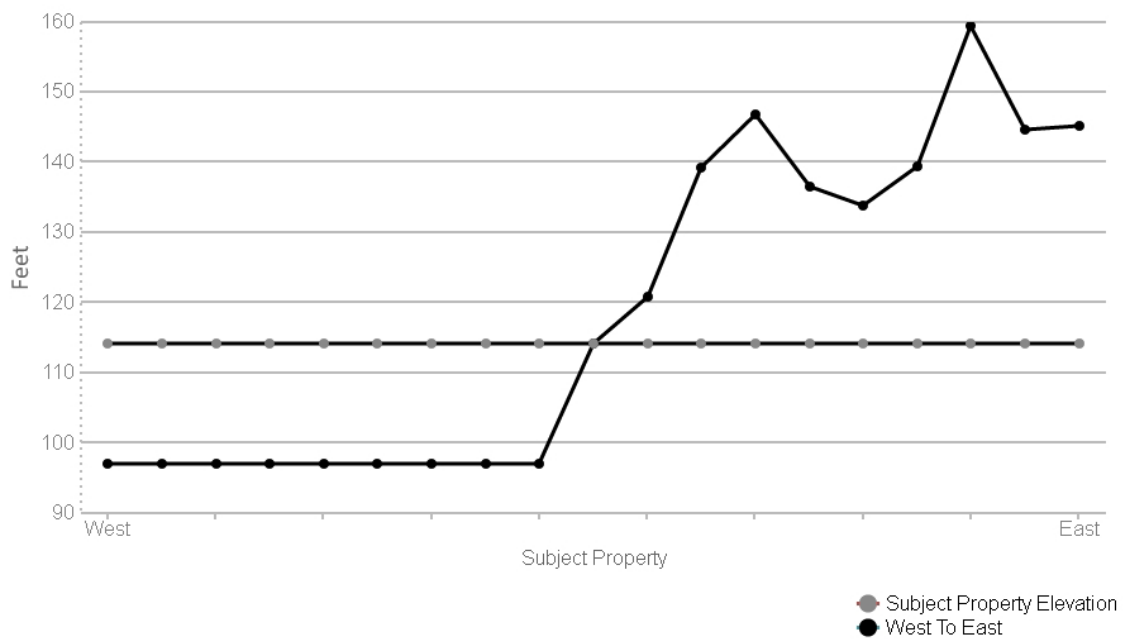
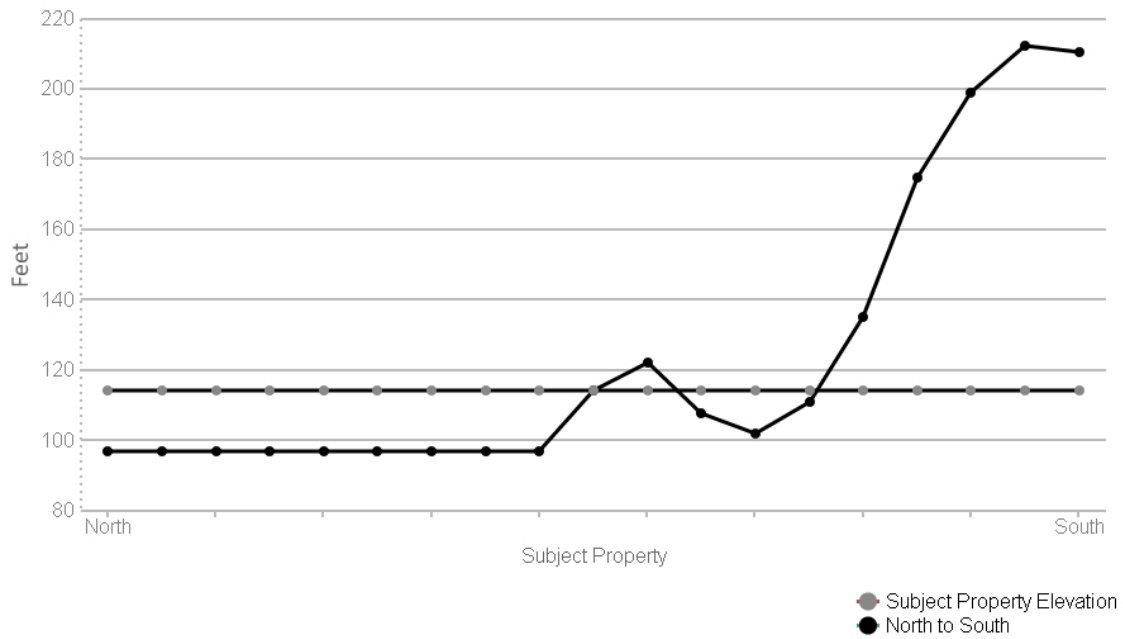
**NATIONAL WETLAND INVENTORY:**

|                                      |                                            |
|--------------------------------------|--------------------------------------------|
|                                      | NWI Electronic                             |
| <u>NWI Quad at Subject Property:</u> | <u>Data Coverage:</u>                      |
| BURLINGTON                           | Yes - refer to the Geological Findings Map |

**LITHOSTRATIGRAPHIC INFORMATION:****ROCK STRATIGRAPHIC UNIT:****GEOLOGIC AGE IDENTIFICATION**

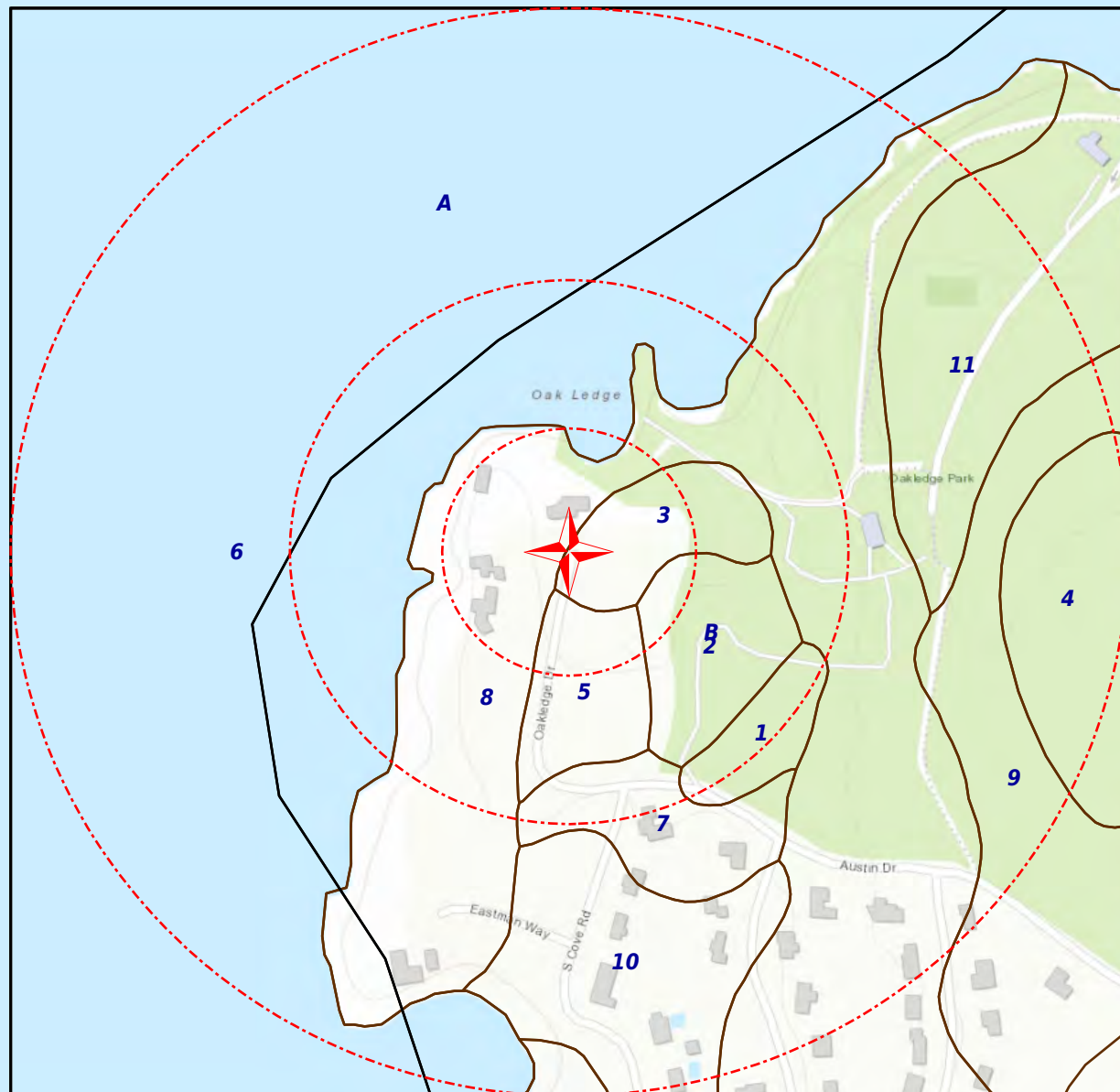
|         |                               |                                                |
|---------|-------------------------------|------------------------------------------------|
| Era:    | Paleozoic                     | Category: 125 O2 Middle Ordovician (Mohawkian) |
| System: | Ordovician                    |                                                |
| Series: | Middle Ordovician (Mohawkian) |                                                |
| Code:   | O2                            |                                                |





SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: December 05, 2018



0.00 0.12 0.25  
 Mile(s)

+ Subject Property

— SSURGO

— STATSGO

**SOIL COMPOSITION IN GENERAL AREA OF SUBJECT PROPERTY:**

Agency source: Soil Conservation Service, US Department of Agriculture

**SOIL MAP ID 1**

|                                      |                   |
|--------------------------------------|-------------------|
| USDA Soil Name                       | Covington, Series |
| USDA Soil Texture                    | Silty clay        |
| Hydrologic Soil Group                | D                 |
| Soil Drainage Class                  | Poorly drained    |
| Hydric Classification                | 100               |
| Corrosion Potential - Uncoated Steel | High              |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                       | Unified Soil Description                                                                                                                                                                                                                                                                                                                                                                     | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 1     | 0-20           | Silty clay   | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984). | FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 0-1.4111                                     | 5.6-7.3          |
| 2     | 20-71          | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984). | FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).      | 0-0.4233                                     | 5.6-7.8          |
| 3     | 71-165         | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984). | FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and                                                                                                                         | 0-0.4233                                     | 5.6-8.4          |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                      | Unified Soil Description                                                                                           | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 3     | 71-165         | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 0-0.4233                                     | 5.6-8.4          |

## SOIL MAP ID 2

|                                      |                         |
|--------------------------------------|-------------------------|
| USDA Soil Name                       | Georgia, Series         |
| USDA Soil Texture                    | Loam                    |
| Hydrologic Soil Group                | C                       |
| Soil Drainage Class                  | Moderately well drained |
| Hydric Classification                | 0                       |
| Corrosion Potential - Uncoated Steel | High                    |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                                                                                        | Unified Soil Description                                                                                                                                                                                                                                                                                                                                                               | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 1     | 0-20           | Loam         | Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 4.2333-14.1111                               | 5.1-7.3          |
| 2     | 20-66          | Loam         | Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,                                                                                    | 4.2333-14.1111                               | 5.1-7.3          |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                                                                                        | Unified Soil Description                                                                                                                                                                                                                                                                                                                                                               | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 2     | 20-66          | Loam         | Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | 1984).                                                                                                                                                                                                                                                                                                                                                                                 | 4.2333-14.1111                               | 5.1-7.3          |
| 3     | 66-165         | Loam         | Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 0.4233-1.4111                                | 5.1-7.3          |

**SOIL MAP ID 3**

|                                      |                 |
|--------------------------------------|-----------------|
| USDA Soil Name                       | Whately, Series |
| USDA Soil Texture                    | Fine sandy loam |
| Hydrologic Soil Group                | C/D             |
| Soil Drainage Class                  | Poorly drained  |
| Hydric Classification                | 100             |
| Corrosion Potential - Uncoated Steel | High            |

| Layer | Depth (inches) | Soil Texture    | AASHTO Group                                                                                                                                                                                                                                  | Unified Soil Description                                                                                                                                                                                                                                                    | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 1     | 0-20           | Fine sandy loam | Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and | 14.1111-42.3333                              | 5.1-7.3          |

| Layer | Depth (inches) | Soil Texture    | AASHTO Group                                                                                                                                                                                                                                        | Unified Soil Description                                                                                                                                                                                                                                                                                                                                                                   | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 1     | 0-20           | Fine sandy loam | 1984.                                                                                                                                                                                                                                               | on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).                                                                                                                                                                                                                                                                                                  | 14.1111-42.3333                              | 5.1-7.3          |
| 2     | 20-38          | Fine sandy loam | Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).                                                                                 | 14.1111-42.3333                              | 5.1-7.3          |
| 3     | 38-165         | Silty clay loam | Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 0-1.4111                                     | 5.6-8.4          |

#### SOIL MAP ID 4

|                                      |                              |
|--------------------------------------|------------------------------|
| USDA Soil Name                       | Farmington, Series           |
| USDA Soil Texture                    | Loam                         |
| Hydrologic Soil Group                | D                            |
| Soil Drainage Class                  | Somewhat excessively drained |
| Hydric Classification                | 0                            |
| Corrosion Potential - Uncoated Steel | Low                          |



| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                                                                                        | Unified Soil Description                                                                                                                                                                                                                                                                                                                                                               | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 1     | 0-18           | Loam         | Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 4.2333-14.1111                               | 5.1-7.3          |
| 2     | 18-43          | Silt loam    | Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 4.2333-14.1111                               | 5.6-7.8          |
| 3     | 43-68          |              | No data                                                                                                                                                                                                                                             | No data                                                                                                                                                                                                                                                                                                                                                                                | 0.0706-141.1111                              | No data          |

**SOIL MAP ID 5**

|                                      |                   |
|--------------------------------------|-------------------|
| USDA Soil Name                       | Covington, Series |
| USDA Soil Texture                    | Silty clay        |
| Hydrologic Soil Group                | D                 |
| Soil Drainage Class                  | Poorly drained    |
| Hydric Classification                | 100               |
| Corrosion Potential - Uncoated Steel | High              |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                      | Unified Soil Description                                                                                                                                                                                                                                                                                                                                                                     | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 1     | 0-20           | Silty clay   | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 0-1.4111                                     | 5.6-7.3          |
| 2     | 20-71          | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).      | 0-0.4233                                     | 5.6-7.8          |
| 3     | 71-165         | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).      | 0-0.4233                                     | 5.6-8.4          |

**SOIL MAP ID 6**

|                                      |                          |
|--------------------------------------|--------------------------|
| USDA Soil Name                       | Water,Miscellaneous area |
| USDA Soil Texture                    | Not Reported             |
| Hydrologic Soil Group                | Not Reported             |
| Soil Drainage Class                  | Not Reported             |
| Hydric Classification                | 0                        |
| Corrosion Potential - Uncoated Steel | Not Reported             |

**SOIL MAP ID 7**

|                                      |                         |
|--------------------------------------|-------------------------|
| USDA Soil Name                       | Eldridge, Series        |
| USDA Soil Texture                    | Loamy fine sand         |
| Hydrologic Soil Group                | C/D                     |
| Soil Drainage Class                  | Moderately well drained |
| Hydric Classification                | 10                      |
| Corrosion Potential - Uncoated Steel | High                    |

| Layer | Depth (inches) | Soil Texture    | AASHTO Group                                                                                                                                                                      | Unified Soil Description                                                                                                                                                                                                                                                                                                                                              | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 1     | 0-23           | Loamy fine sand | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 42.3333-141.1111                             | 5.1-7.3          |
| 2     | 23-68          | Loamy fine sand | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 42.3333-141.1111                             | 5.1-7.3          |
| 3     | 68-152         | Silt loam       | Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is                                                                                              | FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a                                                                                                                                                                                                                                                                      | 0.4233-4.2333                                | 5.1-7.3          |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                   | Unified Soil Description                                                                                                                                                                                                                                                              | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 3     | 68-152         | Silt loam    | a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 0.4233-4.2333                                | 5.1-7.3          |

### SOIL MAP ID 8

|                                      |                              |
|--------------------------------------|------------------------------|
| USDA Soil Name                       | Farmington, Series           |
| USDA Soil Texture                    | Loam                         |
| Hydrologic Soil Group                | D                            |
| Soil Drainage Class                  | Somewhat excessively drained |
| Hydric Classification                | 0                            |
| Corrosion Potential - Uncoated Steel | Low                          |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                                                                                        | Unified Soil Description                                                                                                                                                                                                                                                                                                                                                               | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 1     | 0-18           | Loam         | Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 4.2333-14.1111                               | 5.1-7.3          |
| 2     | 18-43          | Silt loam    | Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and                                 | FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75                                                                                                                                              | 4.2333-14.1111                               | 5.6-7.8          |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                    | Unified Soil Description                                                                                                                     | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 2     | 18-43          | Silt loam    | Transportation Officials, 1984. | mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 4.2333-14.1111                               | 5.6-7.8          |
| 3     | 43-68          |              | No data                         | No data                                                                                                                                      | 0.0706-141.1111                              | No data          |

### SOIL MAP ID 9

|                                      |                   |
|--------------------------------------|-------------------|
| USDA Soil Name                       | Covington, Series |
| USDA Soil Texture                    | Silty clay        |
| Hydrologic Soil Group                | D                 |
| Soil Drainage Class                  | Poorly drained    |
| Hydric Classification                | 100               |
| Corrosion Potential - Uncoated Steel | High              |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                      | Unified Soil Description                                                                                                                                                                                                                                                                                                                                                                     | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 1     | 0-20           | Silty clay   | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 0-1.4111                                     | 5.6-7.3          |
| 2     | 20-71          | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and                                                                                                                         | 0-0.4233                                     | 5.6-7.8          |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                      | Unified Soil Description                                                                                                                                                                                                                                                                                                                                                                | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 2     | 20-71          | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).                                                                                                                                                                                                                                                                      | 0-0.4233                                     | 5.6-7.8          |
| 3     | 71-165         | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 0-0.4233                                     | 5.6-8.4          |

**SOIL MAP ID 10**

|                                      |                   |
|--------------------------------------|-------------------|
| USDA Soil Name                       | Covington, Series |
| USDA Soil Texture                    | Silty clay        |
| Hydrologic Soil Group                | D                 |
| Soil Drainage Class                  | Poorly drained    |
| Hydric Classification                | 100               |
| Corrosion Potential - Uncoated Steel | High              |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                      | Unified Soil Description                                                                                                                                                                                                                                                                           | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 1     | 0-20           | Silty clay   | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and | 0-1.4111                                     | 5.6-7.3          |



| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                      | Unified Soil Description                                                                                                                                                                                                                                                                                                                                                                | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 1     | 0-20           | Silty clay   | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).                                                                                                                                                                                                                                                                                               | 0-1.4111                                     | 5.6-7.3          |
| 2     | 20-71          | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 0-0.4233                                     | 5.6-7.8          |
| 3     | 71-165         | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 0-0.4233                                     | 5.6-8.4          |

**SOIL MAP ID 11**

|                                      |                         |
|--------------------------------------|-------------------------|
| USDA Soil Name                       | Vergennes, Series       |
| USDA Soil Texture                    | Clay                    |
| Hydrologic Soil Group                | D                       |
| Soil Drainage Class                  | Moderately well drained |
| Hydric Classification                | 5                       |
| Corrosion Potential - Uncoated Steel | High                    |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                       | Unified Soil Description                                                                                                                                                                                                                                                                                                                                                                     | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 1     | 0-15           | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984). | FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).      | 0.4233-4.2333                                | 4.5-7.3          |
| 2     | 15-36          | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984). | FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 0-1.4111                                     | 4.5-7.3          |
| 3     | 36-63          | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984). | FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM                              | 0-1.4111                                     | 5.6-8.4          |

| Layer | Depth (inches) | Soil Texture | AASHTO Group                                                                                                                                                                      | Unified Soil Description                                                                                                                                                                                                                                                                                                                                                                     | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|
| 3     | 36-63          | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | test D 2487, in ASTM, 1984).                                                                                                                                                                                                                                                                                                                                                                 | 0-1.4111                                     | 5.6-8.4          |
| 4     | 63-165         | Clay         | Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984. | FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984). | 0-0.4233                                     | 7.9-8.4          |

**SOIL MAP ID A**

|                                      |                          |
|--------------------------------------|--------------------------|
| USDA Soil Name                       | Water,Miscellaneous area |
| USDA Soil Texture                    | Not Reported             |
| Hydrologic Soil Group                | Not Reported             |
| Soil Drainage Class                  | Not Reported             |
| Hydric Classification                | 0                        |
| Corrosion Potential - Uncoated Steel | Not Reported             |

**SOIL MAP ID B**

|                                      |                   |
|--------------------------------------|-------------------|
| USDA Soil Name                       | Vergennes, Series |
| USDA Soil Texture                    | Clay              |
| Hydrologic Soil Group                | C                 |
| Soil Drainage Class                  | Poorly drained    |
| Hydric Classification                | 46                |
| Corrosion Potential - Uncoated Steel | High              |

| Layer | Depth (inches) | Soil Texture | AASHTO Group | Unified Soil Description | Saturated Hydraulic Conductivity micro m/sec | Soil Reaction pH |
|-------|----------------|--------------|--------------|--------------------------|----------------------------------------------|------------------|
| 1     | 0-15           | Clay         | No data      | No data                  | 0.4234-4.2343                                | 4.5-7.3          |
| 2     | 15-41          | Clay         | No data      | No data                  | 0-1.4114                                     | 4.5-7.3          |
| 3     | 41-74          | Clay         | No data      | No data                  | 0-1.4114                                     | 5.6-8.4          |
| 4     | 74-165         | Clay         | No data      | No data                  | 0-0.4234                                     | 7.9-8.4          |

**WATER AGENCY DATA:**
**WATER AGENCY SEARCH DISTANCES:**

|                  |                                 |
|------------------|---------------------------------|
| <u>DATABASE:</u> | <u>SEARCH DISTANCE (MILES):</u> |
| NWIS             | 1.000                           |
| PWS              | 1.000                           |

|                             |                    |
|-----------------------------|--------------------|
| <u>DISTANCE TO NEAREST:</u> | <u>DISTANCE:</u>   |
| NWIS                        | 0.630 mi / 3329 ft |
| PWS                         | 0.229 mi / 1211 ft |

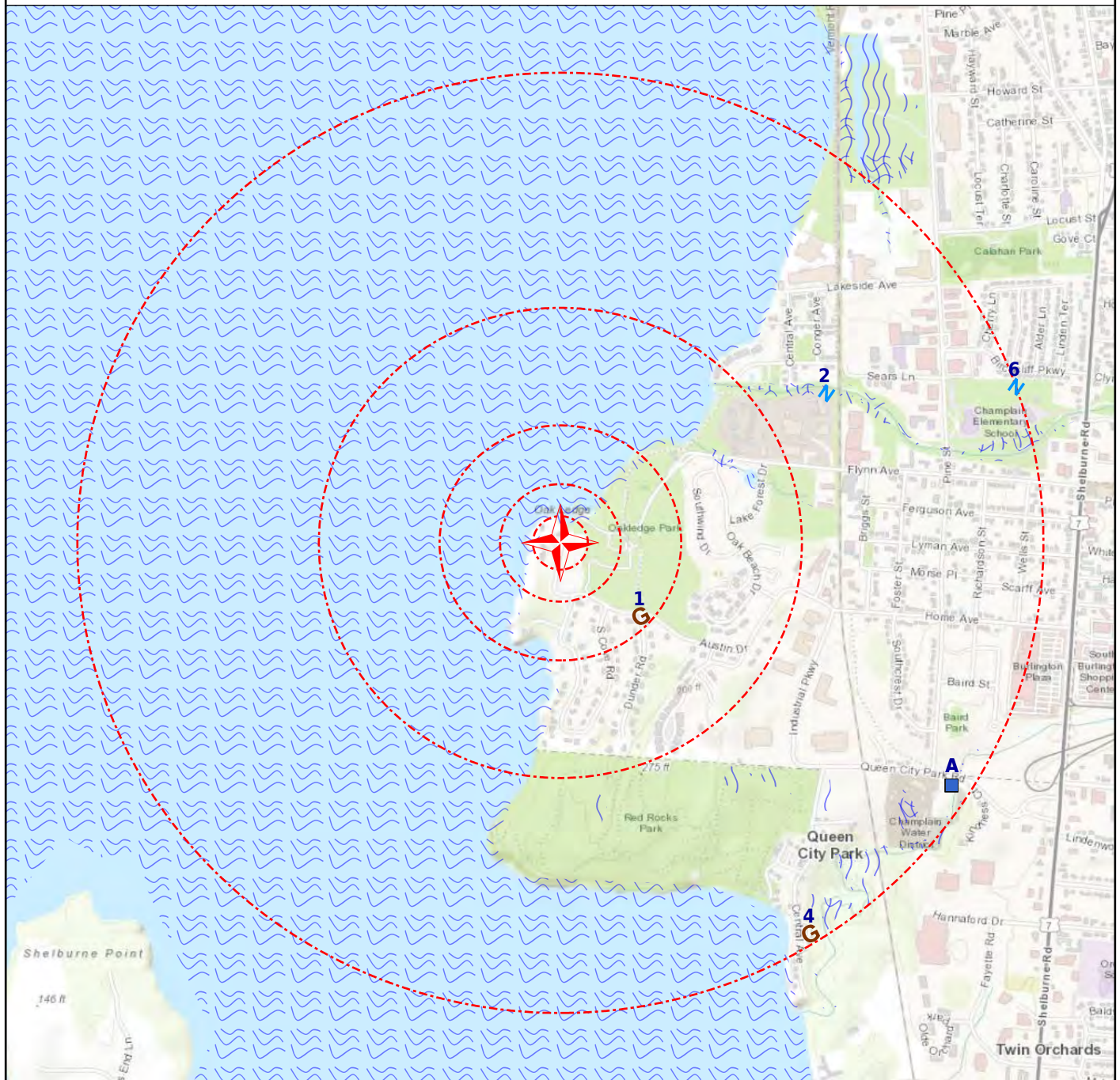
**FEDERAL WATER AGENCY DATA SUMMARY:**

|                |                 |                          |
|----------------|-----------------|--------------------------|
| <u>MAP ID:</u> | <u>WELL ID:</u> | <u>LOCATION FROM SP:</u> |
| 1              | VT0021373       | 1/8 - 1/4 Mile SE        |
| 2              | 04282815        | 1/2 - 1 Mile ENE         |
| 4              | VT0005090       | 1/2 - 1 Mile SE          |
| A5             | 04282813        | 1/2 - 1 Mile ESE         |
| 6              | 042828147       | 1/2 - 1 Mile ENE         |

Note: PWS System location is not always the same as well location.

SUBJECT NAME: Wisener Property  
 ADDRESS: 65 Oakledge Drive, Burlington, Vermont 05401  
 LAT/LONG: 44.453304 / -73.230367

PREPARED FOR: KAS, Inc.  
 ORDER #: 25609  
 REPORT DATE: December 05, 2018



- |                    |                    |                                    |                   |
|--------------------|--------------------|------------------------------------|-------------------|
| ★ Subject Property | ⌘ Basins (No Data) | ■ Geologic Cluster with Water Well | ○ Geological Site |
| ⊞ NWI              | ⚡ NWIS             | 〰 WetLands                         |                   |

Map Id: 1  
 Direction: SE  
 Distance: 0.229 mi.  
 Actual: 1210.539 ft.  
 Elevation: 0.028 mi. / 145.459 ft.  
 Relative: Higher

**Site Name :** VT0021373  
 1 DUNDER RD  
 BURLINGTON, VT 05401  
**Database(s) :** [PWS, PWS ENF]

**Envirosite ID:** 362614006  
**EPA ID:** N/R

## PWS

Facility Address : 1 DUNDER RD, BURLINGTON, VT 05401

PWS ID : VT0021373  
 PWS Type : Transient non-community system  
 PWS Name : HUNTINGTON LODGE  
 Activity Status : Active  
 Primary Source : Ground water  
 Submission Year : 2018  
 Submission Year Quarter : 2018Q1  
 Population Served Count : 25  
 Service Connections Count : 1  
 Population Category 2 : <10,000  
 Population Category 3 : <=3300  
 Population Category 4 : <10K  
 Population Category 5 : <=500  
 Population Category 11 : <=100  
 Submission Quarter : 1  
 Submission Status Code : Y  
 First Reported Date : 08/14/2012  
 Last Reported Date : 02/20/2018  
 Deactivation Date : N/R  
 GW or SW : Groundwater  
 Is Grant Eligible : Y  
 Is Outstanding Performer : N/R  
 Is School or Daycare : N  
 Is Source Water Protected : N/R  
 Primacy Agency : Vermont  
 Primacy Type : State  
 Org Name : BEER, MICHAEL D  
 EPA Region : Region 1  
 Admin Name : BEER, MICHAEL D  
 Owner Type : Private  
 Phone Number : 802-865-3163  
 Phone Ext Number : N/R  
 Alt Phone Number : N/R  
 Email Address : mbeer05401@aol.com  
 Fax Number : N/R  
 Is Wholesaler : N  
 LT2 Schedule Category : N/R  
 NPM Candidate : Y  
 CDS ID : N/R  
 DBPR Schedule Category : N/R  
 Outstanding Performer Date : N/R  
 Season Begin Date : 01-01  
 Season End Date : 12-31  
 Source Water Protection Date : N/R  
 Seasonal Startup System : N/R  
 Reduced Monitoring Begin Date : 04/01/2016  
 Reduced Monitoring End Date : N/R  
 Reduced RTRC Monitoring : Quarterly  
 Last Date in Agency : 05/31/2018

PWS ID : VT0021373  
 PWS Type : Transient non-community system  
 PWS Name : HUNTINGTON LODGE



Map Id: 1  
 Direction: SE  
 Distance: 0.229 mi.  
 Actual: 1210.539 ft.  
 Elevation: 0.028 mi. / 145.459 ft.  
 Relative: Higher

**Site Name :** VT0021373  
 1 DUNDER RD  
 BURLINGTON, VT 05401  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**Envirosite ID:** 362614006  
**EPA ID:** N/R

## PWS (**cont.**)

|                                 |                    |
|---------------------------------|--------------------|
| Activity Status :               | Active             |
| Primary Source :                | Ground water       |
| Submission Year :               | 2018               |
| Submission Year Quarter :       | 2018Q2             |
| Population Served Count :       | 25                 |
| Service Connections Count :     | 1                  |
| Population Category 2 :         | <10,000            |
| Population Category 3 :         | <=3300             |
| Population Category 4 :         | <10K               |
| Population Category 5 :         | <=500              |
| Population Category 11 :        | <=100              |
| Submission Quarter :            | 2                  |
| Submission Status Code :        | Y                  |
| First Reported Date :           | 08/14/2012         |
| Last Reported Date :            | 05/23/2018         |
| Deactivation Date :             | N/R                |
| GW or SW :                      | Groundwater        |
| Is Grant Eligible :             | Y                  |
| Is Outstanding Performer :      | N/R                |
| Is School or Daycare :          | N                  |
| Is Source Water Protected :     | N/R                |
| Primacy Agency :                | Vermont            |
| Primacy Type :                  | State              |
| Org Name :                      | BEER, MICHAEL D    |
| EPA Region :                    | Region 1           |
| Admin Name :                    | BEER, MICHAEL D    |
| Owner Type :                    | Private            |
| Phone Number :                  | 802-865-3163       |
| Phone Ext Number :              | N/R                |
| Alt Phone Number :              | N/R                |
| Email Address :                 | mbeer05401@aol.com |
| Fax Number :                    | N/R                |
| Is Wholesaler :                 | N                  |
| LT2 Schedule Category :         | N/R                |
| NPM Candidate :                 | Y                  |
| CDS ID :                        | N/R                |
| DBPR Schedule Category :        | N/R                |
| Outstanding Performer Date :    | N/R                |
| Season Begin Date :             | 01-01              |
| Season End Date :               | 12-31              |
| Source Water Protection Date :  | N/R                |
| Seasonal Startup System :       | N/R                |
| Reduced Monitoring Begin Date : | 04/01/2016         |
| Reduced Monitoring End Date :   | N/R                |
| Reduced RTCR Monitoring :       | Quarterly          |
| Last Date in Agency :           | 08/09/2018         |

## PWS ENF

|                    |                                   |
|--------------------|-----------------------------------|
| Facility Address : | 1 DUNDER RD, BURLINGTON, VT 05401 |
| PWS ID :           | VT0021373                         |
| PWS Name :         | HUNTINGTON LODGE                  |
| EPA Region :       | Region 1                          |
| Primacy Agency :   | Vermont                           |
| PWS Type :         | Transient non-community system    |

Map Id: 1  
 Direction: SE  
 Distance: 0.229 mi.  
 Actual: 1210.539 ft.  
 Elevation: 0.028 mi. / 145.459 ft.  
 Relative: Higher

**Site Name :** VT0021373  
 1 DUNDER RD  
 BURLINGTON, VT 05401  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**Envirosite ID:** 362614006  
**EPA ID:** N/R

## PWS ENF (**cont.**)

|                            |              |
|----------------------------|--------------|
| Primacy Type :             | State        |
| Primary Source :           | Ground water |
| Activity Status :          | Active       |
| Deactivation Date :        | N/R          |
| Owner Type :               | Private      |
| Phone Number :             | 802-865-3163 |
| Last Date in Agency List : | 08/09/2018   |

## Violation Details

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| RTC Enforcement ID :             | 14                                                 |
| Violation ID :                   | 5                                                  |
| Submission Year :                | 2018                                               |
| Violation First Reported Date :  | 09/30/2013                                         |
| Contaminant Name :               | Coliform (TCR)                                     |
| Rule Family :                    | Total Coliform Rules                               |
| Rule Group :                     | Microbials                                         |
| Rule Name :                      | Total Coliform Rule                                |
| Violation Type :                 | Maximum Contaminant Level Violation, Monthly (TCR) |
| Is Health Based :                | Y                                                  |
| Is Major Violation :             | N/R                                                |
| Severity Indicator Count :       | N/R                                                |
| Public Notification Tier :       | 2                                                  |
| Address Line 1 :                 | BURLINGTON, 05401                                  |
| Address Line 2 :                 | 1 DUNDER RD                                        |
| Compliance Status :              | Returned to Compliance                             |
| RTC Date :                       | 10/28/2013                                         |
| Enforcement Action Description : | State Compliance achieved                          |
| Admin Name :                     | BEER, MICHAEL D                                    |
| Email Address :                  | mbeer05401@aol.com                                 |

|                                  |                                 |
|----------------------------------|---------------------------------|
| RTC Enforcement ID :             | 16                              |
| Violation ID :                   | 6                               |
| Submission Year :                | 2018                            |
| Violation First Reported Date :  | 11/19/2013                      |
| Contaminant Name :               | Coliform (TCR)                  |
| Rule Family :                    | Total Coliform Rules            |
| Rule Group :                     | Microbials                      |
| Rule Name :                      | Total Coliform Rule             |
| Violation Type :                 | Monitoring, Routine Major (TCR) |
| Is Health Based :                | N                               |
| Is Major Violation :             | N/R                             |
| Severity Indicator Count :       | N/R                             |
| Public Notification Tier :       | 3                               |
| Address Line 1 :                 | BURLINGTON, 05401               |
| Address Line 2 :                 | 1 DUNDER RD                     |
| Compliance Status :              | Returned to Compliance          |
| RTC Date :                       | 02/11/2015                      |
| Enforcement Action Description : | State Compliance achieved       |
| Admin Name :                     | BEER, MICHAEL D                 |
| Email Address :                  | mbeer05401@aol.com              |

|                      |   |
|----------------------|---|
| RTC Enforcement ID : | 5 |
| Violation ID :       | 2 |

Map Id: 1  
 Direction: SE  
 Distance: 0.229 mi.  
 Actual: 1210.539 ft.  
 Elevation: 0.028 mi. / 145.459 ft.  
 Relative: Higher

**Site Name :** VT0021373  
 1 DUNDER RD  
 BURLINGTON, VT 05401  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**Envirosite ID:** 362614006  
**EPA ID:** N/R

## PWS ENF (**cont.**)

Submission Year : 2018  
 Violation First Reported Date : 09/30/2013  
 Contaminant Name : Coliform (TCR)  
 Rule Family : Total Coliform Rules  
 Rule Group : Microbials  
 Rule Name : Total Coliform Rule  
 Violation Type : Monitoring, Repeat Major (TCR)  
 Is Health Based : N  
 Is Major Violation : N/R  
 Severity Indicator Count : N/R  
 Public Notification Tier : 3  
 Address Line 1 : BURLINGTON, 05401  
 Address Line 2 : 1 DUNDER RD  
 Compliance Status : Returned to Compliance  
 RTC Date : 08/30/2013  
 Enforcement Action Description : State Public Notification received  
 Admin Name : BEER, MICHAEL D  
 Email Address : mbeer05401@aol.com

RTC Enforcement ID : N/R  
 Violation ID : 8  
 Submission Year : 2018  
 Violation First Reported Date : 11/16/2017  
 Contaminant Name : Revised Total Coliform Rule  
 Rule Family : Total Coliform Rules  
 Rule Group : Microbials  
 Rule Name : Revised Total Coliform Rule  
 Violation Type : Monitoring, Additional Routine (RTCR)  
 Is Health Based : N  
 Is Major Violation : Y  
 Severity Indicator Count : N/R  
 Public Notification Tier : 3  
 Address Line 1 : BURLINGTON, 05401  
 Address Line 2 : 1 DUNDER RD  
 Compliance Status : Known  
 RTC Date : N/R  
 Enforcement Action Description : State Public Notification requested  
 Admin Name : BEER, MICHAEL D  
 Email Address : mbeer05401@aol.com

RTC Enforcement ID : N/R  
 Violation ID : 4  
 Submission Year : 2018  
 Violation First Reported Date : 09/30/2013  
 Contaminant Name : E. COLI  
 Rule Family : Groundwater Rule  
 Rule Group : Microbials  
 Rule Name : Ground Water Rule  
 Violation Type : Monitoring, Source Water (GWR)  
 Is Health Based : N  
 Is Major Violation : Y  
 Severity Indicator Count : N/R  
 Public Notification Tier : 3  
 Address Line 1 : BURLINGTON, 05401  
 Address Line 2 : 1 DUNDER RD

**Envirosite ID:** 362614006  
**EPA ID:** N/R

|                                  |                                    |
|----------------------------------|------------------------------------|
| Compliance Status :              | Open                               |
| RTC Date :                       | N/R                                |
| Enforcement Action Description : | State Public Notification received |
| Admin Name :                     | BEER, MICHAEL D                    |
| Email Address :                  | mbeer05401@aol.com                 |

**Envirosite ID:** 403959745  
**EPA ID:** N/R

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| Site Identification Number :          | 04282815                                 |
| Site Type :                           | Stream                                   |
| Station Name :                        | ENGLESBY BROOK AT BURLINGTON, VT         |
| Agency :                              | U.S. Geological Survey                   |
| District :                            | New Hampshire                            |
| State :                               | VT                                       |
| County :                              | Chittenden County                        |
| Country :                             | USA                                      |
| Land Net Location :                   | N/R                                      |
| Name of Location Map :                | BURLINGTON, VT                           |
| Scale of Location Map :               | 24000                                    |
| Altitude of Gage/Land Surface :       | 105                                      |
| Method Altitude Determined :          | Interpolated from topographic map.       |
| Altitude Accuracy :                   | 20                                       |
| Altitude Datum :                      | National Geodetic Vertical Datum of 1929 |
| Hydrologic Unit :                     | Winooski River                           |
| Drainage Basin :                      | N/R                                      |
| Topographic Setting :                 | Stream channel                           |
| Flags for the Type of Data Collected: | INIINNNNNNNNNNNNNNNNNNNNNNNNNNNNI        |
| Flags for Instruments at Site :       | NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN        |
| Date of First Construction :          | N/R                                      |
| Date Site Established or Inventoried: | 01/01/1999                               |
| Drainage Area :                       | 0.9                                      |
| Contributing Drainage Area :          | N/R                                      |
| Data Reliability :                    | N/R                                      |
| Data-other GW Files :                 | NNNNNNNN                                 |
| National Aquifer :                    | N/R                                      |
| Local Aquifer :                       | N/R                                      |
| Local Aquifer Type :                  | N/R                                      |
| Well Depth :                          | N/R                                      |
| Hole Depth :                          | N/R                                      |
| Source of Depth Data :                | N/R                                      |
| Project Number :                      | N/R                                      |
| Real-Time Data Flag :                 | 1                                        |
| Peak-Streamflow Data Begin Date :     | 07/18/2000                               |
| Peak-Streamflow Data End Date :       | 09/30/2010                               |
| Peak-Streamflow Data Count :          | 11                                       |

Map Id: 2  
 Direction: ENE  
 Distance: 0.630 mi.  
 Actual: 3328.530 ft.  
 Elevation: 0.025 mi. / 130.42 ft.  
 Relative: Higher

**Site Name :** 04282815  
 44.45782720, -73.21929400  
 VT  
**Database(s) :** [NWIS] (*cont.*)

**Envirosite ID:** 403959745  
**EPA ID:** N/R

## NWIS (*cont.*)

Water-Quality Data Begin Date : 03/29/1999  
 Water-Quality Data End Date : 11/27/2009  
 Water-Quality Data Count : 2471  
 Field Water-Level Data Begin Date : N/R  
 Field Water-Level Data End Date : N/R  
 Field Water-Level Data Count : 0  
 Site-Visit Data Begin Date : 10/05/1999  
 Site-Visit Data End Date : 08/13/2010  
 Site-Visit Data Count : 37  
 Latitude : 44.45782720  
 Longitude : -73.21929400  
 Last Date in Agency List : 09/21/2018

Map Id: A3  
 Direction: ESE  
 Distance: 0.941 mi.  
 Actual: 4970.817 ft.  
 Elevation: 0.031 mi. / 161.982 ft.  
 Relative: Higher

**Site Name :** TANK  
 44 26 45.00N, 073 12 52.00W  
 SOUTH BURLINGTON, VT  
**Database(s) :** [DIGITAL OBSTACLE]

**Envirosite ID:** 358386855  
**EPA ID:** N/R

## DIGITAL OBSTACLE

Facility Name : TANK  
 Facility Address : SOUTH BURLINGTON, VT

Date of Action : 10/12/2017  
 Action : Change  
 FAA Study Number : 2017ANE03652OE  
 OBS Number : 50-034388  
 Obstacle Type : TANK  
 Country Identifier : US  
 Type of Lighting : None  
 Verification Status : Verified  
 Quantity : 1  
 Mark Indicator : None  
 Above Ground Level Height (Feet) : 00045  
 Above Mean Sea Level Height (Feet) : 00220  
 Horizontal Accuracy : +-250'  
 Vertical Accuracy : +-125'  
 Latitude : 44 26 45.00N  
 Longitude : 073 12 52.00W  
 Last Date in Agency List : 08/30/2018

Map Id: 4  
 Direction: SE  
 Distance: 0.980 mi.  
 Actual: 5176.459 ft.  
 Elevation: 0.03 mi. / 156.909 ft.  
 Relative: Higher

**Site Name :** VT0005090  
 5 PINE PLACE  
 SOUTH BURLINGTON, VT 05403  
**Database(s) :** [PWS, PWS ENF]

**Envirosite ID:** 362612267  
**EPA ID:** N/R

## PWS

Facility Address : 5 PINE PLACE, SOUTH BURLINGTON, VT 05403

PWS ID : VT0005090  
 PWS Type : Community water system  
 PWS Name : SOUTH BURLINGTON FIRE DISTRICT  
 Activity Status : Active  
 Primary Source : Ground water  
 Submission Year : 2018  
 Submission Year Quarter : 2018Q1  
 Population Served Count : 250  
 Service Connections Count : 78  
 Population Category 2 : <10,000  
 Population Category 3 : <=3300  
 Population Category 4 : <10K  
 Population Category 5 : <=500  
 Population Category 11 : 101-500  
 Submission Quarter : 1  
 Submission Status Code : Y  
 First Reported Date : 01/28/1983  
 Last Reported Date : 02/20/2018  
 Deactivation Date : N/R  
 GW or SW : Groundwater  
 Is Grant Eligible : Y  
 Is Outstanding Performer : N/R  
 Is School or Daycare : N  
 Is Source Water Protected : N  
 Primacy Agency : Vermont  
 Primacy Type : State  
 Org Name : MCDERMOTT, MANDY  
 EPA Region : Region 1  
 Admin Name : MCDERMOTT, MANDY  
 Owner Type : Local government  
 Phone Number : 802-860-4990  
 Phone Ext Number : N/R  
 Alt Phone Number : N/R  
 Email Address : mandymc@myfairpoint.net  
 Fax Number : N/R  
 Is Wholesaler : N  
 LT2 Schedule Category : N/R  
 NPM Candidate : Y  
 CDS ID : N/R  
 DBPR Schedule Category : N/R  
 Outstanding Performer Date : N/R  
 Season Begin Date : N/R  
 Season End Date : N/R  
 Source Water Protection Date : N/R  
 Seasonal Startup System : N/R  
 Reduced Monitoring Begin Date : N/R  
 Reduced Monitoring End Date : N/R  
 Reduced RTCR Monitoring : N/R  
 Last Date in Agency : 05/31/2018

PWS ID : VT0005090  
 PWS Type : Community water system  
 PWS Name : SOUTH BURLINGTON FIRE DISTRICT



Map Id: 4  
 Direction: SE  
 Distance: 0.980 mi.  
 Actual: 5176.459 ft.  
 Elevation: 0.03 mi. / 156.909 ft.  
 Relative: Higher

**Site Name :** VT0005090  
 5 PINE PLACE  
 SOUTH BURLINGTON, VT 05403  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**Envirosite ID:** 362612267  
**EPA ID:** N/R

## PWS (**cont.**)

|                                 |                         |
|---------------------------------|-------------------------|
| Activity Status :               | Active                  |
| Primary Source :                | Ground water            |
| Submission Year :               | 2018                    |
| Submission Year Quarter :       | 2018Q2                  |
| Population Served Count :       | 250                     |
| Service Connections Count :     | 78                      |
| Population Category 2 :         | <10,000                 |
| Population Category 3 :         | <=3300                  |
| Population Category 4 :         | <10K                    |
| Population Category 5 :         | <=500                   |
| Population Category 11 :        | 101-500                 |
| Submission Quarter :            | 2                       |
| Submission Status Code :        | Y                       |
| First Reported Date :           | 01/28/1983              |
| Last Reported Date :            | 05/23/2018              |
| Deactivation Date :             | N/R                     |
| GW or SW :                      | Groundwater             |
| Is Grant Eligible :             | Y                       |
| Is Outstanding Performer :      | N/R                     |
| Is School or Daycare :          | N                       |
| Is Source Water Protected :     | N                       |
| Primacy Agency :                | Vermont                 |
| Primacy Type :                  | State                   |
| Org Name :                      | MCDERMOTT, MANDY        |
| EPA Region :                    | Region 1                |
| Admin Name :                    | MCDERMOTT, MANDY        |
| Owner Type :                    | Local government        |
| Phone Number :                  | 802-860-4990            |
| Phone Ext Number :              | N/R                     |
| Alt Phone Number :              | N/R                     |
| Email Address :                 | mandymc@myfairpoint.net |
| Fax Number :                    | N/R                     |
| Is Wholesaler :                 | N                       |
| LT2 Schedule Category :         | N/R                     |
| NPM Candidate :                 | Y                       |
| CDS ID :                        | N/R                     |
| DBPR Schedule Category :        | N/R                     |
| Outstanding Performer Date :    | N/R                     |
| Season Begin Date :             | N/R                     |
| Season End Date :               | N/R                     |
| Source Water Protection Date :  | N/R                     |
| Seasonal Startup System :       | N/R                     |
| Reduced Monitoring Begin Date : | N/R                     |
| Reduced Monitoring End Date :   | N/R                     |
| Reduced RTCR Monitoring :       | N/R                     |
| Last Date in Agency :           | 08/09/2018              |

## PWS ENF

Facility Address : 5 PINE PLACE, SOUTH BURLINGTON, VT 05403

|                  |                                |
|------------------|--------------------------------|
| PWS ID :         | VT0005090                      |
| PWS Name :       | SOUTH BURLINGTON FIRE DISTRICT |
| EPA Region :     | Region 1                       |
| Primacy Agency : | Vermont                        |
| PWS Type :       | Community water system         |

Map Id: 4  
 Direction: SE  
 Distance: 0.980 mi.  
 Actual: 5176.459 ft.  
 Elevation: 0.03 mi. / 156.909 ft.  
 Relative: Higher

**Site Name :** VT0005090  
 5 PINE PLACE  
 SOUTH BURLINGTON, VT 05403  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**Envirosite ID:** 362612267  
**EPA ID:** N/R

## PWS ENF (**cont.**)

|                            |                  |
|----------------------------|------------------|
| Primacy Type :             | State            |
| Primary Source :           | Ground water     |
| Activity Status :          | Active           |
| Deactivation Date :        | N/R              |
| Owner Type :               | Local government |
| Phone Number :             | 802-860-4990     |
| Last Date in Agency List : | 08/09/2018       |

## Violation Details

|                                  |                                    |
|----------------------------------|------------------------------------|
| RTC Enforcement ID :             | 2399500                            |
| Violation ID :                   | 923100                             |
| Submission Year :                | 2018                               |
| Violation First Reported Date :  | 11/16/2005                         |
| Contaminant Name :               | Nitrate                            |
| Rule Family :                    | Inorganic Chemicals                |
| Rule Group :                     | Chemicals                          |
| Rule Name :                      | Nitrates                           |
| Violation Type :                 | Monitoring, Regular                |
| Is Health Based :                | N                                  |
| Is Major Violation :             | Y                                  |
| Severity Indicator Count :       | N/R                                |
| Public Notification Tier :       | 3                                  |
| Address Line 1 :                 | SOUTH BURLINGTON, 05403            |
| Address Line 2 :                 | 5 PINE PLACE                       |
| Compliance Status :              | Returned to Compliance             |
| RTC Date :                       | 08/22/2000                         |
| Enforcement Action Description : | State Public Notification received |
| Admin Name :                     | MCDERMOTT, MANDY                   |
| Email Address :                  | mandymc@myfairpoint.net            |

|                                  |                                    |
|----------------------------------|------------------------------------|
| RTC Enforcement ID :             | 2399600                            |
| Violation ID :                   | 923200                             |
| Submission Year :                | 2018                               |
| Violation First Reported Date :  | 11/16/2005                         |
| Contaminant Name :               | CYANIDE                            |
| Rule Family :                    | Inorganic Chemicals                |
| Rule Group :                     | Chemicals                          |
| Rule Name :                      | Inorganic Chemicals                |
| Violation Type :                 | Monitoring, Regular                |
| Is Health Based :                | N                                  |
| Is Major Violation :             | Y                                  |
| Severity Indicator Count :       | N/R                                |
| Public Notification Tier :       | 3                                  |
| Address Line 1 :                 | SOUTH BURLINGTON, 05403            |
| Address Line 2 :                 | 5 PINE PLACE                       |
| Compliance Status :              | Returned to Compliance             |
| RTC Date :                       | 08/22/2000                         |
| Enforcement Action Description : | State Public Notification received |
| Admin Name :                     | MCDERMOTT, MANDY                   |
| Email Address :                  | mandymc@myfairpoint.net            |

|                      |         |
|----------------------|---------|
| RTC Enforcement ID : | 2399603 |
| Violation ID :       | 923202  |

Map Id: 4  
 Direction: SE  
 Distance: 0.980 mi.  
 Actual: 5176.459 ft.  
 Elevation: 0.03 mi. / 156.909 ft.  
 Relative: Higher

**Site Name :** VT0005090  
 5 PINE PLACE  
 SOUTH BURLINGTON, VT 05403  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**Envirosite ID:** 362612267  
**EPA ID:** N/R

## PWS ENF (**cont.**)

Submission Year : 2018  
 Violation First Reported Date : 11/28/2014  
 Contaminant Name : Consumer Confidence Rule  
 Rule Family : Consumer Confidence Rule  
 Rule Group : Other  
 Rule Name : Consumer Confidence Rule  
 Violation Type : Consumer Confidence Report Complete Failure to Report  
 Is Health Based : N  
 Is Major Violation : N/R  
 Severity Indicator Count : N/R  
 Public Notification Tier : 3  
 Address Line 1 : SOUTH BURLINGTON, 05403  
 Address Line 2 : 5 PINE PLACE  
 Compliance Status : Returned to Compliance  
 RTC Date : 08/21/2014  
 Enforcement Action Description : State Compliance achieved  
 Admin Name : MCDERMOTT, MANDY  
 Email Address : mandymc@myfairpoint.net

RTC Enforcement ID : 2399607  
 Violation ID : 923203  
 Submission Year : 2018  
 Violation First Reported Date : 06/22/2015  
 Contaminant Name : Chlorine  
 Rule Family : Stage 1 Disinfectants and Disinfection Byproducts Rule  
 Rule Group : Disinfectants and Disinfection Byproducts Rule  
 Rule Name : Stage 1 Disinfectants and Disinfection Byproducts Rule  
 Violation Type : Monitoring and Reporting (DBP)  
 Is Health Based : N  
 Is Major Violation : Y  
 Severity Indicator Count : N/R  
 Public Notification Tier : 3  
 Address Line 1 : SOUTH BURLINGTON, 05403  
 Address Line 2 : 5 PINE PLACE  
 Compliance Status : Returned to Compliance  
 RTC Date : 12/17/2015  
 Enforcement Action Description : State Compliance achieved  
 Admin Name : MCDERMOTT, MANDY  
 Email Address : mandymc@myfairpoint.net

RTC Enforcement ID : N/R  
 Violation ID : 2160200  
 Submission Year : 2018  
 Violation First Reported Date : 11/21/2000  
 Contaminant Name : Nitrate  
 Rule Family : Inorganic Chemicals  
 Rule Group : Chemicals  
 Rule Name : Nitrates  
 Violation Type : Monitoring, Regular  
 Is Health Based : N  
 Is Major Violation : Y  
 Severity Indicator Count : N/R  
 Public Notification Tier : 3  
 Address Line 1 : SOUTH BURLINGTON, 05403  
 Address Line 2 : 5 PINE PLACE

Map Id: 4  
 Direction: SE  
 Distance: 0.980 mi.  
 Actual: 5176.459 ft.  
 Elevation: 0.03 mi. / 156.909 ft.  
 Relative: Higher

**Site Name :** VT0005090  
 5 PINE PLACE  
 SOUTH BURLINGTON, VT 05403  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**Envirosite ID:** 362612267  
**EPA ID:** N/R

## PWS ENF (**cont.**)

Compliance Status : Known  
 RTC Date : N/R  
 Enforcement Action Description : N/R  
 Admin Name : MCDERMOTT, MANDY  
 Email Address : mandymc@myfairpoint.net

RTC Enforcement ID : N/R  
 Violation ID : 2160600  
 Submission Year : 2018  
 Violation First Reported Date : 11/21/2000  
 Contaminant Name : CYANIDE  
 Rule Family : Inorganic Chemicals  
 Rule Group : Chemicals  
 Rule Name : Inorganic Chemicals  
 Violation Type : Monitoring, Regular  
 Is Health Based : N  
 Is Major Violation : Y  
 Severity Indicator Count : N/R  
 Public Notification Tier : 3  
 Address Line 1 : SOUTH BURLINGTON, 05403  
 Address Line 2 : 5 PINE PLACE  
 Compliance Status : Known  
 RTC Date : N/R  
 Enforcement Action Description : N/R  
 Admin Name : MCDERMOTT, MANDY  
 Email Address : mandymc@myfairpoint.net

RTC Enforcement ID : N/R  
 Violation ID : 549296  
 Submission Year : 2018  
 Violation First Reported Date : 02/06/1996  
 Contaminant Name : Coliform (TCR)  
 Rule Family : Total Coliform Rules  
 Rule Group : Microbials  
 Rule Name : Total Coliform Rule  
 Violation Type : Maximum Contaminant Level Violation, Monthly (TCR)  
 Is Health Based : Y  
 Is Major Violation : N/R  
 Severity Indicator Count : N/R  
 Public Notification Tier : 2  
 Address Line 1 : SOUTH BURLINGTON, 05403  
 Address Line 2 : 5 PINE PLACE  
 Compliance Status : Known  
 RTC Date : N/R  
 Enforcement Action Description : State Public Notification received  
 Admin Name : MCDERMOTT, MANDY  
 Email Address : mandymc@myfairpoint.net

RTC Enforcement ID : N/R  
 Violation ID : 531095  
 Submission Year : 2018  
 Violation First Reported Date : 11/09/1995  
 Contaminant Name : Coliform (TCR)  
 Rule Family : Total Coliform Rules

Map Id: 4  
Direction: SE  
Distance: 0.980 mi.  
Actual: 5176.459 ft.  
Elevation: 0.03 mi. / 156.909 ft.  
Relative: Higher

**Site Name :** VT0005090  
5 PINE PLACE  
SOUTH BURLINGTON, VT 05403  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**Envirosite ID:** 362612267  
**EPA ID:** N/R

**PWS ENF (cont.)**

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| Rule Group :                     | Microbials                                         |
| Rule Name :                      | Total Coliform Rule                                |
| Violation Type :                 | Maximum Contaminant Level Violation, Monthly (TCR) |
| Is Health Based :                | Y                                                  |
| Is Major Violation :             | N/R                                                |
| Severity Indicator Count :       | N/R                                                |
| Public Notification Tier :       | 2                                                  |
| Address Line 1 :                 | SOUTH BURLINGTON, 05403                            |
| Address Line 2 :                 | 5 PINE PLACE                                       |
| Compliance Status :              | Known                                              |
| RTC Date :                       | N/R                                                |
| Enforcement Action Description : | State Boil Water Order                             |
| Admin Name :                     | MCDERMOTT, MANDY                                   |
| Email Address :                  | mandymc@myfairpoint.net                            |

|                                  |                                     |
|----------------------------------|-------------------------------------|
| RTC Enforcement ID :             | N/R                                 |
| Violation ID :                   | 514395                              |
| Submission Year :                | 2018                                |
| Violation First Reported Date :  | 05/03/1995                          |
| Contaminant Name :               | Coliform (TCR)                      |
| Rule Family :                    | Total Coliform Rules                |
| Rule Group :                     | Microbials                          |
| Rule Name :                      | Total Coliform Rule                 |
| Violation Type :                 | Monitoring, Repeat Minor (TCR)      |
| Is Health Based :                | N                                   |
| Is Major Violation :             | N/R                                 |
| Severity Indicator Count :       | N/R                                 |
| Public Notification Tier :       | 3                                   |
| Address Line 1 :                 | SOUTH BURLINGTON, 05403             |
| Address Line 2 :                 | 5 PINE PLACE                        |
| Compliance Status :              | Known                               |
| RTC Date :                       | N/R                                 |
| Enforcement Action Description : | State Public Notification requested |
| Admin Name :                     | MCDERMOTT, MANDY                    |
| Email Address :                  | mandymc@myfairpoint.net             |

|                                  |                                     |
|----------------------------------|-------------------------------------|
| RTC Enforcement ID :             | N/R                                 |
| Violation ID :                   | 518695                              |
| Submission Year :                | 2018                                |
| Violation First Reported Date :  | 05/03/1995                          |
| Contaminant Name :               | Coliform (TCR)                      |
| Rule Family :                    | Total Coliform Rules                |
| Rule Group :                     | Microbials                          |
| Rule Name :                      | Total Coliform Rule                 |
| Violation Type :                 | Monitoring, Routine Major (TCR)     |
| Is Health Based :                | N                                   |
| Is Major Violation :             | N/R                                 |
| Severity Indicator Count :       | N/R                                 |
| Public Notification Tier :       | 3                                   |
| Address Line 1 :                 | SOUTH BURLINGTON, 05403             |
| Address Line 2 :                 | 5 PINE PLACE                        |
| Compliance Status :              | Known                               |
| RTC Date :                       | N/R                                 |
| Enforcement Action Description : | State Public Notification requested |
| Admin Name :                     | MCDERMOTT, MANDY                    |

Map Id: 4  
 Direction: SE  
 Distance: 0.980 mi.  
 Actual: 5176.459 ft.  
 Elevation: 0.03 mi. / 156.909 ft.  
 Relative: Higher

**Site Name :** VT0005090  
 5 PINE PLACE  
 SOUTH BURLINGTON, VT 05403  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**Envirosite ID:** 362612267  
**EPA ID:** N/R

## PWS ENF (**cont.**)

Email Address : mandymc@myfairpoint.net

RTC Enforcement ID : N/R  
 Violation ID : 501195  
 Submission Year : 2018  
 Violation First Reported Date : 02/23/1995  
 Contaminant Name : Coliform (TCR)  
 Rule Family : Total Coliform Rules  
 Rule Group : Microbials  
 Rule Name : Total Coliform Rule  
 Violation Type : Maximum Contaminant Level Violation, Monthly (TCR)  
 Is Health Based : Y  
 Is Major Violation : N/R  
 Severity Indicator Count : N/R  
 Public Notification Tier : 2  
 Address Line 1 : SOUTH BURLINGTON, 05403  
 Address Line 2 : 5 PINE PLACE  
 Compliance Status : Known  
 RTC Date : N/R  
 Enforcement Action Description : State Boil Water Order  
 Admin Name : MCDERMOTT, MANDY  
 Email Address : mandymc@myfairpoint.net

RTC Enforcement ID : N/R  
 Violation ID : 501895  
 Submission Year : 2018  
 Violation First Reported Date : 02/23/1995  
 Contaminant Name : Coliform (TCR)  
 Rule Family : Total Coliform Rules  
 Rule Group : Microbials  
 Rule Name : Total Coliform Rule  
 Violation Type : Maximum Contaminant Level Violation, Monthly (TCR)  
 Is Health Based : Y  
 Is Major Violation : N/R  
 Severity Indicator Count : N/R  
 Public Notification Tier : 2  
 Address Line 1 : SOUTH BURLINGTON, 05403  
 Address Line 2 : 5 PINE PLACE  
 Compliance Status : Known  
 RTC Date : N/R  
 Enforcement Action Description : State Boil Water Order  
 Admin Name : MCDERMOTT, MANDY  
 Email Address : mandymc@myfairpoint.net

RTC Enforcement ID : N/R  
 Violation ID : 489394  
 Submission Year : 2018  
 Violation First Reported Date : 11/21/1994  
 Contaminant Name : Coliform (TCR)  
 Rule Family : Total Coliform Rules  
 Rule Group : Microbials  
 Rule Name : Total Coliform Rule  
 Violation Type : Maximum Contaminant Level Violation, Monthly (TCR)  
 Is Health Based : Y

**Envirosite ID:** 362612267  
**EPA ID:** N/R

|                                  |                         |
|----------------------------------|-------------------------|
| Is Major Violation :             | N/R                     |
| Severity Indicator Count :       | N/R                     |
| Public Notification Tier :       | 2                       |
| Address Line 1 :                 | SOUTH BURLINGTON, 05403 |
| Address Line 2 :                 | 5 PINE PLACE            |
| Compliance Status :              | Known                   |
| RTC Date :                       | N/R                     |
| Enforcement Action Description : | State Boil Water Order  |
| Admin Name :                     | MCDERMOTT, MANDY        |
| Email Address :                  | mandymc@myfairpoint.net |

**Envirosite ID:** 403948975  
**EPA ID:** N/R

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| Site Identification Number :          | 04282813                                          |
| Site Type :                           | Stream                                            |
| Station Name :                        | POTASH BR @ QUEEN CITY PARK RD, NR BURLINGTON, VT |
| Agency :                              | U.S. Geological Survey                            |
| District :                            | New Hampshire                                     |
| State :                               | VT                                                |
| County :                              | Chittenden County                                 |
| Country :                             | USA                                               |
| Land Net Location :                   | N/R                                               |
| Name of Location Map :                | BURLINGTON, VT                                    |
| Scale of Location Map :               | 24000                                             |
| Altitude of Gage/Land Surface :       | 150                                               |
| Method Altitude Determined :          | Interpolated from topographic map.                |
| Altitude Accuracy :                   | 20                                                |
| Altitude Datum :                      | National Geodetic Vertical Datum of 1929          |
| Hydrologic Unit :                     | Winooski River                                    |
| Drainage Basin :                      | N/R                                               |
| Topographic Setting :                 | Stream channel                                    |
| Flags for the Type of Data Collected: | IINNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN              |
| Flags for Instruments at Site :       | NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN                |
| Date of First Construction :          | N/R                                               |
| Date Site Established or Inventoried: | N/R                                               |
| Drainage Area :                       | 7.18                                              |
| Contributing Drainage Area :          | N/R                                               |
| Data Reliability :                    | N/R                                               |
| Data-other GW Files :                 | N/R                                               |
| National Aquifer :                    | N/R                                               |
| Local Aquifer :                       | N/R                                               |
| Local Aquifer Type :                  | N/R                                               |
| Well Depth :                          | N/R                                               |
| Hole Depth :                          | N/R                                               |
| Source of Depth Data :                | N/R                                               |



**Envirosite ID:** 403948975  
**EPA ID:** N/R

|                                     |              |
|-------------------------------------|--------------|
| Project Number :                    | N/R          |
| Real-Time Data Flag :               | 1            |
| Peak-Streamflow Data Begin Date :   | 07/05/2005   |
| Peak-Streamflow Data End Date :     | 04/27/2011   |
| Peak-Streamflow Data Count :        | 7            |
| Water-Quality Data Begin Date :     | 04/04/2006   |
| Water-Quality Data End Date :       | 07/18/2006   |
| Water-Quality Data Count :          | 5            |
| Field Water-Level Data Begin Date : | N/R          |
| Field Water-Level Data End Date :   | N/R          |
| Field Water-Level Data Count :      | 0            |
| Site-Visit Data Begin Date :        | 07/19/2004   |
| Site-Visit Data End Date :          | 10/11/2011   |
| Site-Visit Data Count :             | 63           |
| Latitude :                          | 44.44588307  |
| Longitude :                         | -73.21346040 |
| Last Date in Agency List :          | 09/21/2018   |

**Envirosite ID:** 403948982  
**EPA ID:** N/R

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| Site Identification Number :          | 042828147                                         |
| Site Type :                           | Diversion                                         |
| Station Name :                        | ENGLESBY BR DIV @ OUTLET OF POND @ BURLINGTON, VT |
| Agency :                              | U.S. Geological Survey                            |
| District :                            | New Hampshire                                     |
| State :                               | VT                                                |
| County :                              | Chittenden County                                 |
| Country :                             | USA                                               |
| Land Net Location :                   | N/R                                               |
| Name of Location Map :                | BURLINGTON, VT                                    |
| Scale of Location Map :               | 24000                                             |
| Altitude of Gage/Land Surface :       | 160                                               |
| Method Altitude Determined :          | Interpolated from topographic map.                |
| Altitude Accuracy :                   | 10                                                |
| Altitude Datum :                      | National Geodetic Vertical Datum of 1929          |
| Hydrologic Unit :                     | Winooski River                                    |
| Drainage Basin :                      | N/R                                               |
| Topographic Setting :                 | Lake or Swamp                                     |
| Flags for the Type of Data Collected: | ANAANNNNNNNANNNNNNNNNNNNNNNNNNNNNNNNI             |
| Flags for Instruments at Site :       | YNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN              |
| Date of First Construction :          | N/R                                               |
| Date Site Established or Inventoried: | N/R                                               |
| Drainage Area :                       | 0.20                                              |
| Contributing Drainage Area :          | N/R                                               |
| Data Reliability :                    | N/R                                               |

Map Id: 6  
 Direction: ENE  
 Distance: 0.994 mi.  
 Actual: 5249.601 ft.  
 Elevation: 0.029 mi. / 155.135 ft.  
 Relative: Higher

**Site Name :** 042828147  
 44.45805556, -73.21138889  
 VT  
**Database(s) :** [NWIS] (*cont.*)

**EnviroSite ID:** 403948982  
**EPA ID:** N/R

## NWIS (*cont.*)

|                                     |              |
|-------------------------------------|--------------|
| Data-other GW Files :               | N/R          |
| National Aquifer :                  | N/R          |
| Local Aquifer :                     | N/R          |
| Local Aquifer Type :                | N/R          |
| Well Depth :                        | N/R          |
| Hole Depth :                        | N/R          |
| Source of Depth Data :              | N/R          |
| Project Number :                    | N/R          |
| Real-Time Data Flag :               | 0            |
| Peak-Streamflow Data Begin Date :   | N/R          |
| Peak-Streamflow Data End Date :     | N/R          |
| Peak-Streamflow Data Count :        | 0            |
| Water-Quality Data Begin Date :     | 07/04/2007   |
| Water-Quality Data End Date :       | 11/21/2007   |
| Water-Quality Data Count :          | 41           |
| Field Water-Level Data Begin Date : | N/R          |
| Field Water-Level Data End Date :   | N/R          |
| Field Water-Level Data Count :      | 0            |
| Site-Visit Data Begin Date :        | N/R          |
| Site-Visit Data End Date :          | N/R          |
| Site-Visit Data Count :             | 0            |
| Latitude :                          | 44.45805556  |
| Longitude :                         | -73.21138889 |
| Last Date in Agency List :          | 09/21/2018   |

## RADON DATA:

STATE SOURCE: No Available Data

FEDERAL AREA RADON INFORMATION FOR: 05401

NUMBER OF SAMPLE SITES: 19

| <u>Area:</u>          | <u>Average Activity:</u> | <u>% &lt;4 pCi/L:</u> | <u>% 4-20 pCi/L:</u> | <u>% &gt;20 pCi/L:</u> |
|-----------------------|--------------------------|-----------------------|----------------------|------------------------|
| basement              | 1.7091 pCi/L             | 90.91%                | 9.09%                | 0%                     |
| first floor           | 0.9 pCi/L                | 100%                  | 0%                   | 0%                     |
| second floor or above | 1.1 pCi/L                | 100%                  | 0%                   | 0%                     |

## NWIS

National Water Information Systems

United States Geological Society

(703) 648-5953

Information on all water resources for the United States. This database contains all current and historical data for the nation.

## PWS

Public Water Supply

Environmental Protection Agency

(800) 426-4791

Safe drinking water information Systems

## PWS ENF

Public Water Supply locations with Enforcement Violations

Environmental Protection Agency

(800) 426-4791

Safe drinking water information Systems with enforcement violations

## FLOOD Q3

Flood data

Environmental Protection Agency

(202) 566-1667

Q3 Flood Data

## HYDROLOGIC UNIT

Hydrologic Unit Maps

USGS

The United States Geological Survey created a hierarchical system of hydrologic units originally called regions, subregions, accounting units, and cataloging units. Each unit was assigned a unique Hydrologic Unit Code (HUC). As first implemented the system had 21 regions, 221 subregions, 378 accounting units, and 2,264 cataloging units. Over time the system was changed and expanded. As of 2010 there are six levels in the hierarchy, represented by hydrologic unit codes from 2 to 12 digits long, called regions, subregions, basins, subbasins, watersheds, and subwatersheds. The table below describes the system's hydrologic unit levels and their characteristics, along with example names and codes.

## WETLANDS NWI

National Wetland Inventory

U.S. Fish and Wildlife Service

(703) 358-2171

Wetland Inventory for the United States

## WETLANDS - VT

Wetlands

Vermont Center for Geographic Information, Inc.

(802) 882-3003

Wetlands Inventory

## SSURGO

Detailed Soil Data Map

Natural Resources Conservation Service: U.S. Department of Agriculture

(202) 690-4985

Detailed Soil Data Map

## STATSGO & MUI

General Soil Data Map

Natural Resources Conservation Service: U.S. Department of Agriculture  
(202) 690-4985

General Soil Data Map

## USGS GEOLOGIC AGE

USGS Digital Data Series DDS

Natural Resources Conservation Service: U.S. Department of Agriculture  
(202) 690-4985

USGS Digital Data Series DDS: Geologic Age and Rock Stratigraphic Unit

## RADON

National Radon Database

USGS

703-605-6008

A study of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

## AIRPORT FACILITIES

Airport landing facilities

Federal Aviation Administration

(866) 835-5322

Airport landing facilities

## BASINS

Better Assessment Science Integrating point & Non-point Sources

U.S. Environmental Protection Agency

855-246-3642

Integrated geographical information system national watershed data and environmental assessment known as Better Assessment Science Integrating point & Non-point Sources

## DIGITAL OBSTACLE

Obstacles of interest to aviation users

Federal Aviation Administration

855-379-6518

The Digital Obstacle File describes all known obstacles of interest to aviation users in the U.S. with limited coverage of the Pacific the Caribbean Canada and Mexico. The obstacles are assigned unique numerical identifiers; accuracy codes and listed in order of ascending latitude within each state or area by FAA Region.

## EPICENTERS

National Geographical Data Center

National Geographical Data Center

303-497-6826

Data on over four million earthquakes dating from 2100 B.C. to 1995 A.D.

## FLOOD DFIRM

National Flood Hazard Layer Database

Federal Emergency Management Agency

The National Flood Hazard Layer Database (NFHL) is a computer database that contains the flood hazard map information from FEMA's Flood Map Modernization program. These map data are from Digital Flood Insurance Rate Map (DFIRM) databases and Letters of Map Revision.



## **APPENDIX D**

### **SITE RECONNAISSANCE CHECKLIST**

**KAS, Inc.**

**Site Reconnaissance Checklist**

Phase I Environmental Site Assessment ASTM E 1527-13

KAS Project No.: 512180510

Date: 12/5/2018

Site Name: 65 Oakledge Drive

Location: 65 Oakledge Drive, Burlington, VT

Inspector: Jeremy Roberts

Weather: ~ 20 deg.F, Partly Cloudy

Accompanied By: Nobody

Title, or Relationship to the Property: N/A

Telephone: N/A

*Section 1. General Site Setting (ASTM E-1527-13 Section 9.4.1)*

A. Current uses of the property (Section 9.4.1.1): Describe current property uses with emphasis on those likely to involve use, treatment, storage, disposal and/or generation of hazardous substances and/or petroleum products. Generate site sketch map (or obtain existing site plans). Include an estimate of the subject property boundaries. Include detail sketches if appropriate. Describe structures and other improvements on the property.

- The property is currently not in use. It was previously used as a residence. One boat house currently resides on the property.
- No storage of hazardous substances or petroleum products was noted.
- The majority of the property consists of vacant land. The property extends to the north to Lake Champlain and to the south, east and west up to residential lots.
- A chain link fence resides around the property. Three zoning permits and one building permit was noted on the fence near the property entrance. The zoning permits were for the demolition of the residence, the construction of a new single family residence and lot line adjustments. The building permit is dated May 2018.

B. Past uses of the property (Section 9.4.1.2): To the extent visually evident, describe past property uses with emphasis on those likely to involve use, treatment, storage, disposal and/or generation of hazardous substances and/or petroleum products.

- Based on visual observations it appeared the property was previously used as a residence..

C. Current and past uses of adjoining properties (Section 9.4.1.3 and 9.4.1.4): To the extent visually identifiable from the subject property, list current uses of adjoining properties with emphasis on those likely to indicate recognized environmental conditions on the subject property. If past uses of adjoining properties with such potential are evident list these also.

- North: Lake Champlain
- South: Residential Lots
- East: Residential Lots
- West: Residential Lots



## KAS, Inc.

### Site Reconnaissance Checklist

#### Phase I Environmental Site Assessment ASTM E 1527-13

- D. Current or past uses in the surrounding area (Section 9.4.1.5): To the extent visually identifiable from the subject property and public thoroughfares in the vicinity, describe general area development with potential to indicate recognized environmental conditions with the subject property.
- The surrounding properties would likely be similar to what was currently observed. No past uses were evident.
- E. Geologic, Hydrogeologic, Hydrologic and Topographic Conditions (Section 9.4.1.6): Describe the overall property setting. Describe natural bodies of water (including springs and seeps) and possible wetlands on subject property and indicate location(s) on site sketch map. Note presence of exposed bedrock on property grounds and indicate general location(s) on site sketch map.
- The property has a gradual slope to the north towards Lake Champlain. No wetlands were observed on the property. Several bedrock outcroppings were observed throughout the property. One storm drain was noted on the property near its southern end.
- F. General Description of Structures (Section 9.4.1.7): Describe structures or other improvements on the property including number and size of buildings, footprints, number of stories each, approximate age of buildings, occupancy status, pavement, fences, foundations/ruins, utilities, product pipelines, and ancillary structures such as railroad spurs and power transmission lines.
- One boat house is present on the property. This building was in good condition and did not appear to be heated. A paved driveway is present along the eastern and southern sides of the property.
  - No other buildings were observed on the property.
- G. Roads (Section 9.4.1.8): List public thoroughfares, roads, streets and parking facilities adjoining / on the subject property.
- The property is accessed off of Oakledge Drive.
  -
- H. Potable Water Supply (Section 9.4.1.9): Identify potable water supply source(s) for the subject property as apparent from visual inspection.
- No drinking water supply well was noted on the property.
- I. Sewage Disposal System (Section 9.4.1.10): Identify current sewage disposal system as apparent from visual inspection.
- No private sewage system was observed at the property.

#### Section 2. Interior and Exterior Observations (ASTM E-1527-13 Section 9.4.2)

- A. Current and Past Property Use (Sections 9.4.2.1 and 9.4.2.2): If building structures are identified on the subject property, visually inspect accessible common areas (lobbies, hallways), maintenance and repair areas (boiler rooms) and a representative sample of occupant spaces. Identify below which interior spaces were inspected and describe. Also note which interior spaces were not inspected.
- See 1A and 1F.

## KAS, Inc.

### Site Reconnaissance Checklist

#### Phase I Environmental Site Assessment ASTM E 1527-13

- B. Hazardous Substances and Petroleum Products and Unidentified Containers (Sections 9.4.2.3, 9.4.2.8 and 9.4.2.9): List apparent hazardous substances, petroleum products, pollutants, contaminants, unidentified containers and raw materials observed interior to any buildings. Include type, container size and quantity, locations and whether stored appropriately. Note presence or absence of labeling, content according to labels, drum condition. Are adverse environmental conditions observed? Obtain/ review Material Safety Data Sheets if possible.

- No hazardous substances or petroleum products were noted.

- C. Storage Tanks (Section 9.4.2.4): Identify ASTs and USTs on the subject property. Note pumps, fill pipes, vents, access ways, concrete pads, saw cuts in paved areas, etc. Determine location, size and construction material to the extent visually identifiable, apparent contents, spill/ release protection, containment measures, status (active or inactive). Note upgrades such as corrosion protection, spill and overflow protection, secondary containment systems, etc. Note visual evidence of whether tank(s) have been taken out of operation, removed, closed in place, or otherwise closed.

- No storage tanks were noted.

- D. Odors (Section 9.4.2.5): Note strong, pungent, or noxious odors and attempt to identify source.

- None observed.

- E. Pools of Liquid (Section 9.4.2.6): Note standing surface water, and pools or sumps containing liquids likely to be hazardous substances or petroleum products, to the extent visually identifiable.

- None observed on the property. Lake Champlain abuts the property to the north.

- F. Drums (Section 9.4.2.7): Identify drums potentially containing hazardous substances, petroleum products, pollutants, or contaminants. Identify storage methods including whether release protection measures are in place. Are adverse environmental conditions such as leakage, weeping or overfilling observed? If drums are identified, indicate whether they are labeled and identify drum contents according to labeling.

- No drums were observed at the property.

- G. PCBs (Section 9.4.2.10): List suspect sources of polychlorinated biphenyls (PCBs) such as electrical or other equipment with potential to contain PCBs (transformers, circuit breakers, capacitors, hydraulic fluids, pesticide extenders, lubricants, cutting oils, vacuum pumps, heat transfer systems, plasticizer applications). Fluorescent light ballasts need not be noted. Note with respect to each whether known to contain PCBs (as indicated by labeling), name of utility company (if applicable) and serial numbers, other marks, manufacturer, and model number; evidence of spill or release. Indicate location(s) on site sketch map.

- No obvious sources of PCB containing equipment were observed on the property. A pad mounted transformer was noted to be present east of the property. The transformer appeared to be in good condition with no signs of a release.

#### Section 3. Interior Observations (ASTM E-1527-13 Section 9.4.3)

- A. Heating/Cooling (Section 9.4.3.1): Identify current fuel source(s) for heating and cooling. If possible to identify past fuel sources for heating and cooling, list these also.

No heating source was identified for the boat house building. A natural gas line was noted near the former residence which was likely the former heating source for that building.

**KAS, Inc.**

**Site Reconnaissance Checklist**

Phase I Environmental Site Assessment ASTM E 1527-13

- B. Stains/Corrosion (Section 9.4.3.2): Identify stains or corrosion of floors, walls, or ceilings except for staining from water.

- No stains or corrosion was noted.

- C. Drains and Sumps (Section 9.4.3.3): Identify floor drains, other drains, ditches, and sumps interior to buildings. Note the presence or absence of wastewater or other liquid discharge, and sediments, in or into these structures. Describe whether flowing or pooled, sheens, color, odor. Note processes active in their vicinity and whether drains are sealed or operational. Can discharge pipes be seen and if so, note the direction they exit the floor drain. Do drains daylight on the property?

- No floor drains were observed.

*Section 4. Exterior Observations (ASTM E-1527-13 Section 9.4.4)*

- A. Pits, Ponds and Lagoons (Section 9.4.4.1): Note pits, pools, ponds, lagoons, sumps, or catch basins and indicate location on site sketch map and indicate whether they appear to have been used in connection with waste disposal or treatment.

- No pits, ponds or lagoons were noted on the property.

- B. Stained soil or pavement (Section 9.4.4.2): Note stained soil or pavement.

- None observed.

- C. Stressed Vegetation (section 9.4.4.3): Note areas of stressed vegetation from cause other than lack of water and indicate location on site sketch map.

- None observed.

- D. Solid Waste (Section 9.4.4.4): Note landfills for solid waste or hazardous waste and whether active or abandoned. Note presence of trash and/or construction debris. Note areas that are apparently filled or graded by non-natural causes or filled with material of unknown origin, mounds, or depressions suggesting solid waste disposal.

- No solid waste was observed. A recycling container was noted along the driveway.

- E. Drains and Waste Water (Section 9.4.4.5): Describe wastewater or other liquid (including storm water) discharge into drain, ditch, or stream on or adjacent to the subject property. Note the condition of wastewater or liquid discharge (e.g., water flowing or pooled, sheens on the liquid surface, color, odor)

- None observed

- F. Wells (Section 9.4.4.6): Note active or inactive wells on the subject property (including oil or gas wells, injection wells, irrigation wells, groundwater monitoring wells, dry wells, abandoned wells, or other wells) and indicate location on site sketch map.

- None observed

- G. Septic Systems (Section 9.4.4.7): Indicate whether evidence exists of on-site septic systems and/or cesspools, to the extent visually identifiable.

- None observed

**KAS, Inc.**

**Site Reconnaissance Checklist**

Phase I Environmental Site Assessment ASTM E 1527-13

H. Limitations (Section 9.2.4): Identify condition(s) which prevented thorough inspection of building interiors and/or property grounds (snow cover, denied access, safety or structural issues).

- None

I. Additional Site Reconnaissance Observations: This section is used to describe other contract specific requests not addressed above, whether ASTM or non-ASTM criteria are used to evaluate the specific feature (Attach additional pages as needed.)

- None



## **APPENDIX E**

### **SITE PHOTOGRAPHS**



Photographic Documentation  
Phase I Environmental Site Assessment  
65 Oakledge Drive  
Burlington, Vermont  
KAS # 512180510

Photograph ID: 001

Date: 12/5/18

Location:  
Property

Direction:  
Facing northeast

View of the driveway/entrance  
to the property



Photograph ID: 002

Date: 12/5/18

Location:  
Property

Direction:  
Facing West

Comments:

View of the boat house on the  
property







Photographic Documentation  
Phase I Environmental Site Assessment  
65 Oakledge Drive  
Burlington, Vermont  
KAS # 512180510

Photograph ID: 003

Date: 12/5/18

Location:  
Property

Direction:  
Facing northeast

Comments:

View of the edge of the property  
along Lake Champlain



Photograph ID: 004

Date: 12/5/18

Location:  
Property

Direction:  
Facing south

Comments:

Closer view of the boat house  
on the property







Photographic Documentation  
Phase I Environmental Site Assessment  
65 Oakledge Drive  
Burlington, Vermont  
KAS # 512180510

Photograph ID: 005

Date: 12/5/18

Location:  
Property

Direction:  
N/A

Comments:

View of a catch basin on the  
southern end of the property



Photograph ID: 006

Date: 12/5/18

Location:  
Adjacent Properties

Direction:  
Facing South

Comments:

General view of adjacent  
residential properties





## **APPENDIX F**

# **INTERVIEW DOCUMENTATION**

## QUESTIONNAIRE FOR INTERVIEW

Name of person being interviewed: Mr. Dick Eastman

Title and address: Construction Manager

In person or telephone: Telephone

Telephone Number: 802-355-4932

Association with Property: Construction Manager for Owner / Owner's Representative

Date of Interview: 12/11/18

Name of person conducting interview: Jeremy Roberts

### **"To the Best of your Knowledge"**

1. Please provide a description of the property, its current use and past uses.

Currently the property is vacant. An ~ 3,000 SF residence was demolished earlier this year in order to build a new home. The building was demolished on a voluntary basis. A boat house remains present on the property. This is grandfathered into the property. The property has not been used for anything other than residential in the past.

2. Has the property or an adjacent property ever been used for agriculture, mineral, commercial or industrial purposes? If yes, explain.

Not that he is aware of.

3. Are any past or present improvements such as old building foundations, evident on the property: if yes, explain:

No.

4. Have there been or are there any unnatural topographic features such as mounds, fill areas, depressions, etc.? If yes, explain.

No, the old foundation has been filled in with some sand.

5. Has fill dirt ever been brought onto the property that originated from a contaminated site or that was of an unknown origin? If yes, explain.

Not that he is aware of

6. Have any of the following been dumped above grade, or buried and/or burned on the property: hazardous substances or petroleum products (except when burned for heating), tires, automotive or industrial batteries, vehicles, barrels, pesticide containers or other waste materials? If yes, explain.

Not to his knowledge.

7. Has there been any past, present or permitted or planned mining activity or oil and gas exploration or development on the property? If yes, explain.

No

8. Are there or have there ever been pipelines or utility lines, either buried or overhead, crossing the property and have there been spills or releases associated with them? If yes, explain.

No

9. Are PCBs present or have PCBs ever been present in transformers, capacitors, or hydraulic equipment on the property and have there been any releases? If yes, explain.

None that he knows of

10. Is there or has there been any storage, mixing or disposal of pesticides on the property? Note: disposal means other than normal intended use of the product. If yes, explain.

Not that he is aware of

11. Have any monitoring wells been installed in the property? If yes, explain any the purpose of the wells and provide any analytical results.

No

12. If the property is served by a private well have contaminants ever been identified in the well that exceeded acceptable levels? If yes, explain.

N/A, City water

13. If surface water is present, are there or have there been any unnatural characteristics such as color, sheens, odors, etc.? If yes, explain.

No

14. Are there or have there been pits, ponds or lagoons associated with waste treatment or waste disposal on the property? If yes, explain.

No

15. Has the property discharged waste water (not including stormwater runoff) on or adjacent to the property? If yes, explain.

No, the property is connected to the municipal sewage system.

16. Is there or has there been stressed or dead vegetation present? If yes, explain.

Not that he knows of

17. Are floor drains present? If yes, explain and indicate whether the drains are connected to municipal sewer or whether they discharge on site.

Not that he knows of

18. Are there or have there been any floors, drains or walls stained by substances other than water or which are emitting foul and/or unnatural odors? If yes, explain.

Not that he knows of

19. Have radon, asbestos containing materials or lead based paint ever been identified in any on site structures? If yes, explain.

Not that he knows of

20. Are there or were there ever above ground or underground storage tanks on the property? If yes, explain.

Not that he knows of

21. Have hazardous substances been stored on the property? If yes, explain.

Not that he knows of

22. Have there been any industrial drums, sacks or chemicals located or dumped on the property? If yes, explain.

Not to his knowledge.

23. Have there been any environmental permits or licenses associated with the property?  
If yes, explain.

No, other than a Class III wetland notice from the state which was finalized this year.  
The state has no regulatory authority over the wetland.

24. Have there been any compliance / enforcement notices or environmental liens relating  
to past or recurrent violations of environmental laws with respect to the property or  
any facility on the property? If yes, explain.

Not to his knowledge

25. Has an environmental site assessment of the property indicated the presence of  
hazardous substances, petroleum products or other potential environmental problems  
on the property, or recommended further assessments? If yes, explain.

Not that he knows of.

26. Are you aware of any past, threatened, or pending lawsuits or administrative  
proceedings concerning a release or threatened release of any hazardous substances or  
petroleum products on the property? If yes, explain.

Not to his knowledge

27. Have there been spills of hazardous substances or petroleum products on the  
property? If yes, explain and indicate whether these spills were reported to regulatory  
authorities.

Not that he knows of

28. Are material safety data sheets available for the facility? If yes, attempt to view.

N/A

29. If a purchase, does the purchase price reasonably reflect fair market value? If not, has  
the price been discounted due to real or perceived contamination?

N/A

30. If not mentioned above, is there anything else that could indicate the presence of  
hazardous substance and petroleum products which may impact the property? If yes,  
explain.

No

KAS, Inc.

**Interview Questionnaire – Phase I ESA User**

Phase I Environmental Site Assessment ASTM1527-13 X3.

Page 1 of 4

Date: 12-6-18

Site Name: 65 Oakledge Drive

Location: 65 Oakledge Drive, Burlington, Vermont

Person Interviewed: David S. Marshall, Dick Eastman

Title/ Affiliation: Project Engineer, Project Manager

Relationship to Subject Property: Project Engineer, Project Manager

Address: Civil Engineering Associates, Inc, 10 Mansfield View Lane, S. Burl, VT 05403

Telephone: 802-864-2323 x310

In order to qualify for one of the Landowner Liability Protections (LLPs)<sup>187</sup> offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the “Brownfields Amendments”),<sup>188</sup> the user must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that “all appropriate inquiries” is not complete.

(1.) Environmental liens that are filed or recorded against the property (40 CFR 312.25).

*Did a search of recorded land title records (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law? NOTE 1—In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.*

No.



KAS, Inc.

**Interview Questionnaire – Phase I ESA User**

Phase I Environmental Site Assessment ASTM1527-13 X3.

Page 2 of 4

(2.) Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and vi)).

*Did a search of recorded land title records (or judicial records where appropriate, see Note 1 above) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?*

A Building Permit was issued by the City of Burlington for the original building but no other restrictions were identified.

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

*Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?*

No. This has always been a residential property.

KAS, Inc.

**Interview Questionnaire – Phase I ESA User**

Phase I Environmental Site Assessment ASTM1527-13 X3.

Page 3 of 4

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

Yes

(5.) Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases?

For example,

(a.) Do you know the past uses of the property? Yes, Residential

(b.) Do you know of specific chemicals that are present or once were present at the property? No. But an interview with the previous owner would identify any pesticide use or other contamination that may have occurred.

(c.) Do you know of spills or other chemical releases that have taken place at the property? No.

KAS, Inc.

**Interview Questionnaire – Phase I ESA User**

Phase I Environmental Site Assessment ASTM1527-13 X3.

Page 4 of 4

(d.) Do you know of any environmental cleanups that have taken place at the property? **We are not aware of any.**

(6.) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property? **No. At the time of demolition the building was heated using natural gas. This however was just got the past two years. We understand from Erich Finley, the project manager responsible for the demolition of the building that there were oil tanks in the garage at one time, with capped lines running into the mechanical room. When they took out the slab on grade, the only pipes coming through the slab were the water and sewer lines. There were two wood stoves as well; one on the first floor and one on the third floor.**

X3.1 In addition, certain information should be collected, if available, and provided to the environmental professional conducting the Phase I Environmental Site Assessment. This information is intended to assist the environmental professional, but is not necessarily required to qualify for one of the LLPs. The information includes:

(a) the reason why the Phase I is being performed,

**The City of Burlington Conservation Board is required to review all projects located within the Lake setback area. In order to determine is level of comfort with the proposed blasting plan for the basement of the proposed house, it wants to understand whether there are any sources of contamination that could migrate through rock fractures to the lake.**

(b) the type of property and type of property transaction, for example, sale, purchase, exchange, etc.,

**Fee simple purchase.**

(c) the complete and correct address for the property (a map or other documentation showing property location and boundaries is helpful),

**65 Oakledge Drive. An pre-existing plan with a site location map was previously provided.**



## **APPENDIX G**

# **QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS**



**KAS, INC.  
PROFESSIONAL PROFILE**

**JEREMY P. ROBERTS, P.G.**

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TITLE</b>                           | <b>Environmental Program Manager / Senior Scientist</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>EXPERTISE</b>                       | Environmental program project management. Collection of environmental samples and operation and maintenance of hazardous waste treatment systems. Project management, geological investigations, hazardous waste site assessments, water system monitoring and maintenance, groundwater and soil contamination, remedial system design, installation, and operation. Wetland delineation. Phase I and Phase II Environmental Site Assessments.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>EXPERIENCE</b>                      | <p><b>KAS, Inc., Williston, VT October 2004 – Present.</b> Management of KAS' environmental projects/ programs, including environmental site assessments, UST removals, site investigations, and environmental clean up activities. Foster technical innovation, quality control and assurance on projects and written materials. Business development activities for environmental programs. Project Management.</p> <p><b>Griffin International, Inc., Williston, VT January 2002 – October 2004.</b> Project management. Technical report writing. Geological investigations. Hazardous waste site assessments. Phase I and Phase II environmental site assessments. Collection of groundwater, surface water, and soil samples, soil screening, and soil vapor extraction system monitoring and maintenance.</p> |
| <b>ACADEMIC<br/>BACKGROUND</b>         | BS, Plant and Soil Science, University of Vermont. May 1999.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>PROFESSIONAL<br/>QUALIFICATIONS</b> | New York Licensed Geologist #000453-1<br>ASTM/EPA Environmental Professional<br>40 Hour OSHA 29CFR1910.120 Hazardous Worker Training<br>40 Hour Certification in Federal Wetland Delineation, Identification, and Classification.<br>Vermont Certified Asbestos Site Inspector<br>ASTM Phase I Environmental Site Assessment Practices For Commercial Real Estate: Transaction Screen & Phase I Site Assessment, April 2012<br>IAQ/IH Sampling Workshop, August 2012<br>Practical Guide to Vapor Intrusion Course, April 2016                                                                                                                                                                                                                                                                                        |

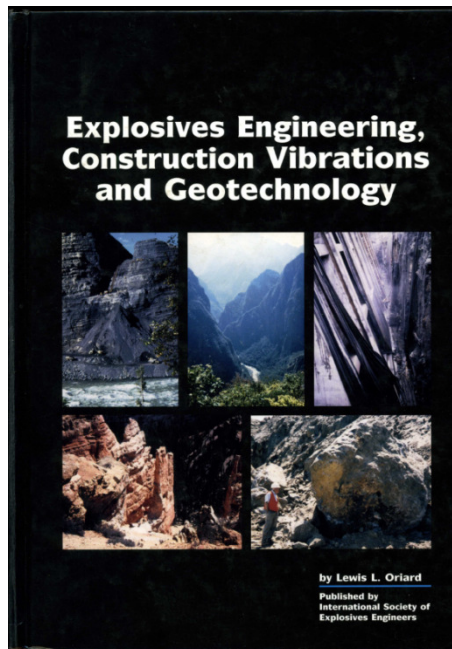
# Blasting in or Near Bodies of Water

Rock fragmentation using explosives is accomplished by confining an explosive charge with-in the geology to be broken. When the charge is detonated the geology immediately surrounding the charged drill hole is fractured by initial shock energy. The by products of the rapid detonation combustion (gases) expand the fractures and the geology is displaced in the direction of least resistance (the nearest free face or surface). The displacing material and escaping gases cause a measured impulsive increase to nearby atmospheric pressure (similar but less intensive than a thunder clap).

When explosives are used under water to fragment rock the displacing materials and escaping gases cause a measured impulsive increase in water pressure. These pressures must be controlled to prevent harm to marine life.

When blasting occurs on land in close proximity to bodies of water (or even in shallow waters) ground vibration is communicated through the ground surface to the water. In stark contrast to deep under-water blasting, through his research, Lewis L. Oriard was able to state “ In those cases, questions related to technology and ground vibrations are not much difference from those where there is no water”.

# Blasting in or Near Bodies of Water



## *Chapter 7* **Blasting in or Near Bodies of Water**

Most of the construction blasting that takes place under water is done for rock excavation. A second category of consequence is that which takes place for the demolition of concrete or other structures, such as the removal of old bridge piers, modifications of dams, and similar types of underwater construction work.

In some instances, the water is very shallow and may be nothing more than a few inches over a depression in the work area. Equipment and men can sometimes work on the rock surface in water up to several feet deep. In those cases, questions related to blasting technology and ground vibrations are not much different from those where there is no water cover. However, there are important differences when the water is of such depth that drilling must be done from drill barges, and where there are concerns about water pressures impinging on nearby structures, marine life, or even human swimmers. At times there is also a concern over water contamination in the form of rock dust or disturbed silt.



# Blasting in or Near Bodies of Water

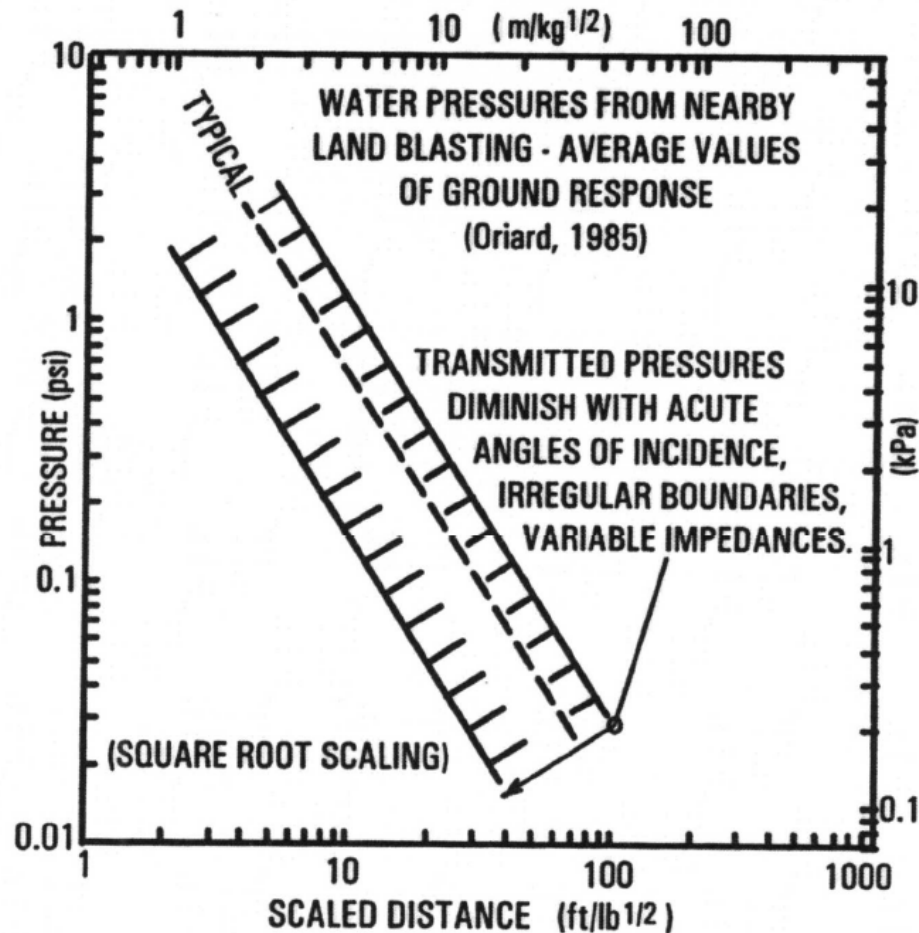
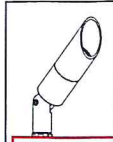


Figure 7-6

SD plot illustrating limited  
resulting water pressure generation  
from nearby land blasting  
(L.L. Oriard 1985).



**BKSSL**  
SOLID STATE LIGHTING

the power of  
dimming



## MICRO NITE STAR

**TREE DOWN LIGHT - SEE L100 FOR LOCATION.  
ALL ELECTRICAL COMPONENTS AND  
CONNECTIONS TO BE SPECIFIED BY  
ELECTRICIAN. LANDSCAPE ARCHITECT TO  
REVIEW PRIOR TO INSTALLATION.**

PROJECT: 65 OAKLEDGE DRIVE

TYPE:  
CATALOG NUMBER: MN-LED-E68-MFL-BLP-12-B-360SL  
SOURCE:  
NOTES: TO INCLUDE POWER CANOPY FOR TREE MOUNTING

### CATALOG NUMBER LOGIC

|          | MN                                                                                                                                                                                       | LED                                   | E68                         | MFL  | BLP   | 12   |      | B   | 360SL   |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------|------|-------|------|------|-----|---------|
| Example  | - MN                                                                                                                                                                                     | - LED                                 | - e67                       | - SP | - BZW | - 12 | - 11 | - B | - 360SL |
| Material | Blank - Aluminum<br>B - Brass                                                                                                                                                            |                                       |                             |      |       |      |      |     |         |
| Series   | MN - Micro Nite Star™                                                                                                                                                                    |                                       |                             |      |       |      |      |     |         |
| Source   | LED - 'e' Technology with Integral Dimming Driver (see Specifications for Dimming)<br>Designed for use with remote 12VAC BKSSL™ transformers. Requires magnetic low voltage transformer. |                                       |                             |      |       |      |      |     |         |
| LED Type | e67 - 7WLED/2.7K<br>e68 - 7WLED/3K                                                                                                                                                       | e69 - 7WLED/4K<br>e75 - 7WLED/Amber   |                             |      |       |      |      |     |         |
| Optics   | SP - Spot (Green Indicator)                                                                                                                                                              | MFL - Medium Flood (Yellow Indicator) | FL - Flood (Blue Indicator) |      |       |      |      |     |         |
| Finish   |                                                                                                                                                                                          |                                       |                             |      |       |      |      |     |         |

| Aluminum Finish   |       |         | Brass Finish |     | Premium Finish                |                              |                                                             |
|-------------------|-------|---------|--------------|-----|-------------------------------|------------------------------|-------------------------------------------------------------|
| Powder Coat Color | Satin | Wrinkle | Machined     | MAC | ABP Antique Brass Powder      | CMG Cascade Mountain Granite | RMG Rocky Mountain Granite                                  |
| Bronze            | BZP   | BZW     | Polished     | POL | AMG Aleutian Mountain Granite | CRI Cracked Ice              | SDS Sonoran Desert Sandstone                                |
| Black             | BLP   | BLW     | Mitique™     | MIT | AQW Antique White             | CRM Cream                    | SMG Sierra Mountain Granite                                 |
| White (Gloss)     | WHP   | WHW     |              |     | BCM Black Chrome              | HUG Hunter Green             | TXF Textured Forest                                         |
| Aluminum          | SAP   | —       |              |     | BGE Beige                     | MDS Mojave Desert Sandstone  | WCP Weathered Copper                                        |
| Verde             | —     | VER     |              |     | BPP Brown Patina Powder       | NBP Natural Brass Powder     | WIR Weathered Iron                                          |
|                   |       |         |              |     | CAP Clear Anodized Powder     | OCP Old Copper               | Also available in RAL Finishes<br>See submittal SUB-1439-00 |

Lens Type \_\_\_\_\_  
12 - Soft Focus Lens      13 - Rectilinear Lens

Shielding \_\_\_\_\_  
11 - Honeycomb Baffle

Cap Style \_\_\_\_\_  
A - 45°      B - 90°      C - Flush      D - 45° less Weep Hole (Interior Use Only)      E - 90° less Weep Hole (Interior Use Only)

Option \_\_\_\_\_  
360SL - 360SL™ Rotational Knuckle Mounting System

**RECEIVED**  
OCT 29 2018

DEPARTMENT OF  
PLANNING & ZONING

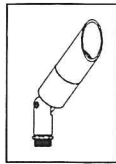
**B-K LIGHTING**

40429 Brickyard Drive • Madera, CA 93636 • USA  
559.438.5800 • FAX 559.438.5900  
www.bklighting.com • info@bklighting.com

RELEASED  
07-25-17

DRAWING NUMBER  
SUB00092

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF B-K LIGHTING, INC. AND ITS RECEIPT OR POSSESSION DOES NOT CONVEY ANY RIGHTS TO REPRODUCE, DISCLOSE ITS CONTENTS, OR TO MANUFACTURE, USE OR SELL ANYTHING DESCRIBE, REPRODUCE, DISCLOSE OR USE WITHOUT SPECIFIC WRITTEN AUTHORIZATION OF B-K LIGHTING, INC. IS STRICTLY FORBIDDEN.



**BKSSL**  
SOLID STATE LIGHTING

the power of  
dimming



**DECEIVING**  
**MICROTESTAR™**

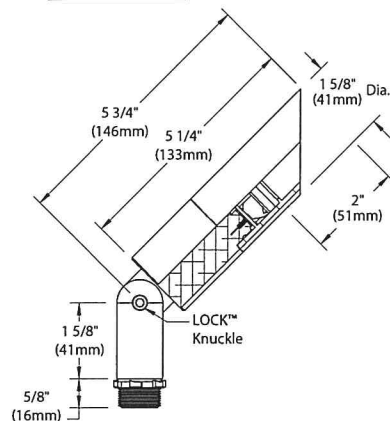
OCT 29 2018

PROJECT: 65 OAKLEDGE DRIVE

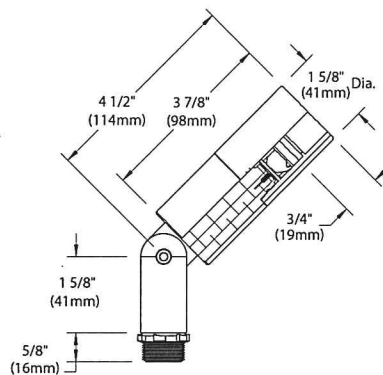
TYPE:

DEPARTMENT OF  
PLANNING & ZONING

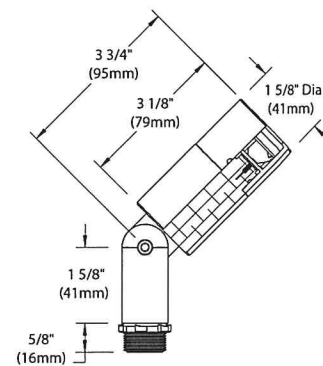
"A/D" CAP



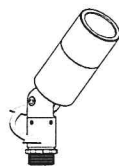
"B/E" CAP



"C" CAP



360 SL™



Accessories (Configure separately)

All dimensions indicated on this submittal are nominal.  
Contact Technical Sales if you require more stringent specifications.

**Mounting:**



Power Pipe™



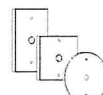
Power Canopy™



Tree Strap™



Stems



Canopies



UPM™

**Remote Transformers:**



TR Series



Power Pipe™



UPMRM™

**Horizontal Rotation**  
(Optional 360SL™ Knuckle)

## SPECIFICATIONS

### GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult [www.bklighting.com/greensource](http://www.bklighting.com/greensource) for program requirements.

### Materials

Furnished in Copper-Free Aluminum (Type 6061-T6) or Brass (Type 360).

### Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

### Knuckle

The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. 1/2" pipe thread for mounting.

Optional 360SL™ additionally provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

### Cap

Fully machined. Accommodates [1] lens or louver media. Choose from 45° cutoff ('A' or 'D'), 5/8" deep bezel with 90° cutoff ('B' or 'E'), or flush lens ('C') cap styles. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

### Lens

Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

### BKSSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

### Dimming

Line voltage dimmable via magnetic low voltage dimmer. For use with low voltage dimmer with dedicated neutral conductor. For purposes of dimming: Remote magnetic transformer with BKSSL® Power of 'e' technology loads should be loaded to 25% of the transformer VA (watts) rated value.

### Optics

Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Spot (SP) = Green. Medium Flood (MFL) = Yellow. Flood (FL) = Blue.

### Remote Transformer

For use with 12VAC BKSSL remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

### Wiring

Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

### Hardware

Tamper-resistant, stainless steel hardware. LOCK™ aiming screw is additionally black oxide treated for additional corrosion resistance.

### Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish.

### Warranty

5 year limited warranty.

### Certification and Listing

ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP66 Rated. Made in USA.



\*Teflon is a registered trademark of DuPont Corporation.

\*Energy Star is a registered trademark of the United States Environmental Protection Agency.

**B-K LIGHTING**

40429 Brickyard Drive • Madera, CA 93636 • USA  
559.438.5800 • FAX 559.438.5900  
[www.bklighting.com](http://www.bklighting.com) • [info@bklighting.com](mailto:info@bklighting.com)

RELEASED  
07-25-17

DRAWING NUMBER  
SUB000927



the power of

**RECEIVED**  
**LAMP & DRIVER DATA**OCT 29 2018  
e67, e68, e69, e75DEPARTMENT OF  
PLANNING & ZONING

| DRIVER DATA | Input Volts      | InRush Current      | Operating | Dimmable                    | Operation Ambient Temperature |
|-------------|------------------|---------------------|-----------|-----------------------------|-------------------------------|
|             | 12VAC/DC 50/60Hz | <250mA (non-dimmed) | 500mA     | Magnetic Low Voltage Dimmer | -22°F-194°F (-30°C - 90°C)    |

**LM79 DATA**

| BK No. | CCT (Typ.)    | CRI (Typ.) | Input Watts (Typ.) |
|--------|---------------|------------|--------------------|
| e67    | 2700K         | 80         | 7                  |
|        | 2700K         | 80         | 7                  |
|        | 2700K         | 80         | 7                  |
| e68    | 3000K         | 80         | 7                  |
|        | 3000K         | 80         | 7                  |
|        | 3000K         | 80         | 7                  |
| e69    | 4000K         | 80         | 7                  |
|        | 4000K         | 80         | 7                  |
|        | 4000K         | 80         | 7                  |
| e75    | Amber (590nm) | ~          | 7                  |

**L70 DATA**

| Minimum Rated Life (hrs.)<br>70% of initial lumens (L70) |
|----------------------------------------------------------|
| 50,000                                                   |
| 50,000                                                   |
| 50,000                                                   |
| 50,000                                                   |
| 50,000                                                   |
| 50,000                                                   |
| 50,000                                                   |
| 50,000                                                   |
| 50,000                                                   |

**OPTICAL DATA**

| Angle | CBCP | Delivered Lumens |
|-------|------|------------------|
| 17°   | 3632 | 459              |
| 25°   | 1708 | 435              |
| 30°   | 1337 | 438              |
| 17°   | 3871 | 489              |
| 25°   | 1821 | 464              |
| 30°   | 1425 | 467              |
| 17°   | 3991 | 504              |
| 25°   | 1877 | 478              |
| 30°   | 1469 | 481              |
| ~     | ~    | ~                |

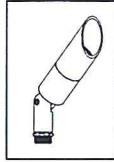
**FOR USE WITH**

|       |                               |
|-------|-------------------------------|
| CH    | Chart Star™                   |
| MN    | Micro Nite Star™              |
| PM-MN | Micro Nite™ Pendant           |
| RM-MN | Micro Nite™ Ring Mount        |
| SF-MN | Micro Nite™ Staff Star™       |
| SM-MN | Micro Nite™ Surface Downlight |
| SN-MN | Micro Nite™ Sign Star™        |
| ST-MN | Micro Nite™ Twin Sign Star™   |
| TF-MN | Micro Nite™ Twin Staff Star™  |
| TT    | Teton Series™                 |
| WM-MN | Micro Nite™ Twin Pendant      |

**OPTICS**

| Optic              | Angle |
|--------------------|-------|
| SP - Spot          | 17°   |
| MFL - Medium Flood | 25°   |
| FL - Flood         | 30°   |





the power of  
dimming



RECEIVED  
MICRO NITE STAR  
OCT 29 2018

SIGN LIGHT - SEE L100 FOR LOCATION.  
ALL ELECTRICAL COMPONENTS AND  
CONNECTIONS TO BE SPECIFIED BY  
ELECTRICIAN. LANDSCAPE ARCHITECT  
TO REVIEW PRIOR TO INSTALLATION.

|                 |                                     |
|-----------------|-------------------------------------|
| PROJECT:        | 65 OAKLEDGE DRIVE<br>DEPARTMENT C   |
| TYPE:           | PLANNING & ZON                      |
| CATALOG NUMBER: | MN-LED-E68-MFL-BLP-12-B-360         |
| SOURCE:         |                                     |
| NOTES:          | TO INCLUDE POWER CANOPY FOR TREE MO |

## CATALOG NUMBER LOGIC

Example  -  MN -  LED -  e67 -  SP -  BZW -  12 -  11 -  B -  360SL

Material   
Blank - Aluminum  
B - Brass

Series   
MN - Micro Nite Star™

Source   
LED - 'e' Technology with Integral Dimming Driver (see Specifications for Dimming)  
Designed for use with remote 12VAC BKSSL® transformers. Requires magnetic low voltage transformer.

LED Type   
e67 - 7WLED/2.7K e69 - 7WLED/4K  
e68 - 7WLED/3K e75 - 7WLED/Amber

Optics   
SP - Spot (Green Indicator) MFL - Medium Flood (Yellow Indicator) FL - Flood (Blue Indicator)

Finish

| Aluminum Finish   |       |         | Brass Finish |     | Premium Finish                |                              |                                                             |
|-------------------|-------|---------|--------------|-----|-------------------------------|------------------------------|-------------------------------------------------------------|
| Powder Coat Color | Satin | Wrinkle | Machined     | MAC | ABP Antique Brass Powder      | CMG Cascade Mountain Granite | RMG Rocky Mountain Granite                                  |
| Bronze            | BZP   | BZW     | Polished     | POL | AMG Aleutian Mountain Granite | CRI Cracked Ice              | SDS Sonoran Desert Sandstone                                |
| Black             | BLP   | BLW     | Mitique™     | MIT | AQW Antique White             | CRM Cream                    | SMG Sierra Mountain Granite                                 |
| White (Gloss)     | WHP   | WHW     |              |     | BCM Black Chrome              | HUG Hunter Green             | TXF Textured Forest                                         |
| Aluminum          | SAP   | —       |              |     | BGE Beige                     | MDS Mojave Desert Sandstone  | WCP Weathered Copper                                        |
| Verde             | —     | VER     |              |     | BPP Brown Patina Powder       | NBP Natural Brass Powder     | WIR Weathered Iron                                          |
|                   |       |         |              |     | CAP Clear Anodized Powder     | OCP Old Copper               | Also available in RAL Finishes<br>See submittal SUB-1439-00 |

Lens Type   
12 - Soft Focus Lens 13 - Rectilinear Lens

Shielding   
11 - Honeycomb Baffle

Cap Style   
A - 45° B - 90° C - Flush D - 45° less Weep Hole (Interior Use Only) E - 90° less Weep Hole (Interior Use Only)

Option   
360SL - 360SL™ Rotational Knuckle Mounting System

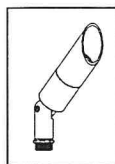
**B-K LIGHTING**

40429 Brickyard Drive • Madera, CA 93636 • USA  
559.438.5800 • FAX 559.438.5900  
www.bklighting.com • info@bklighting.com

RELEASED  
07-25-17

DRAWING NUM  
SUB0009

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF B-K LIGHTING, INC. AND ITS RECEIPT OR POSSESSION DOES NOT CONVEY ANY RIGHTS TO REPRODUCE, DISCLOSE ITS CONTENTS, OR TO MANUFACTURE, USE OR SELL ANYTHING DESCRIBE, REPRODUCTION, DISCLOSURE OR USE WITHOUT SPECIFIC WRITTEN AUTHORIZATION OF B-K LIGHTING, INC. IS STRICTLY FORBIDDEN.



**BKSSL**  
SOLID STATE LIGHTING

the power of  
dimming



**MICRO RECAP™**

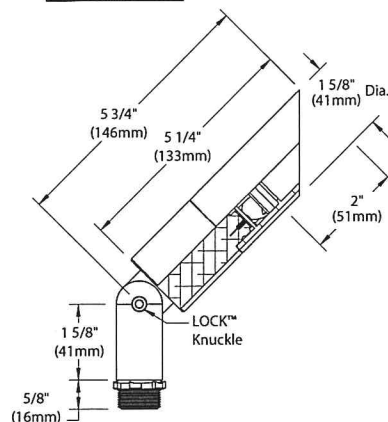
PROJECT: 65 OAKLEDGE DRIVE

OCT 29 2011

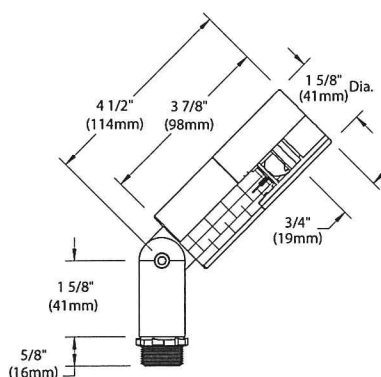
TYPE:

DEPARTMENT  
PLANNING & ZONING

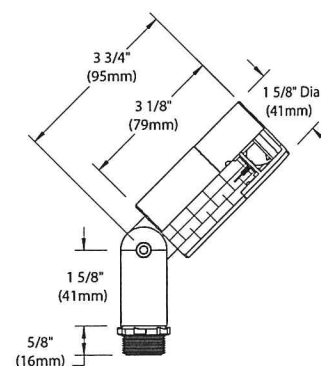
"A/D" CAP



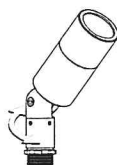
"B/E" CAP



"C" CAP



360 SL™



Accessories (Configure separately)

All dimensions indicated on this submittal are nominal.  
Contact Technical Sales if you require more stringent specifications.

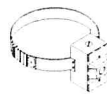
**Mounting:**



Power Pipe™



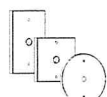
Power Canopy™



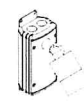
Tree Strap™



Stems



Canopies



UPM™

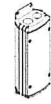
**Remote Transformers:**



TR Series



Power Pipe™



UPMR™

**Horizontal Rotation**  
(Optional 360SL™ Knuckle)

## SPECIFICATIONS

### GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult [www.bklighting.com/greensource](http://www.bklighting.com/greensource) for program requirements.

### Materials

Furnished in Copper-Free Aluminum (Type 6061-T6) or Brass (Type 360).

### Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

### Knuckle

The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. 1/2" pipe thread for mounting.

Optional 360SL™ additionally provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

### Cap

Fully machined. Accommodates (1) lens or louver media. Choose from 45° cutoff ('A' or 'D'), 5/8" deep bezel with 90° cutoff ('B' or 'E'), or flush lens ('C') cap styles. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

### Lens

Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

### BKSSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

### Dimming

Line voltage dimmable via magnetic low voltage dimmer. For use with low voltage dimmer with dedicated neutral conductor. For purposes of dimming: Remote magnetic transformer with BKSSL® Power of 'e' technology loads should be loaded to 25% of the transformer VA (watts) rated value.

### Optics

Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Spot (SP) = Green. Medium Flood (MFL) = Yellow. Flood (FL) = Blue.

### Remote Transformer

For use with 12VAC BKSSL remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

### Wiring

Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

### Hardware

Tamper-resistant, stainless steel hardware. LOCK™ aiming screw is additionally black oxide treated for additional corrosion resistance.

### Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish.

### Warranty

5 year limited warranty.

### Certification and Listing

ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP66 Rated. Made in USA.



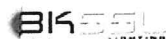
\*Teflon is a registered trademark of DuPont Corporation.  
\*Energy Star is a registered trademark of the United States Environmental Protection Agency.

**B-K LIGHTING**

40429 Brickyard Drive • Madera, CA 93636 • USA  
559.438.5800 • FAX 559.438.5900  
[www.bklighting.com](http://www.bklighting.com) • [info@bklighting.com](mailto:info@bklighting.com)

RELEASED  
07-25-17

DRAWING NUMBER  
SUB000927



the power of 

**RECEIVED**  
**LAMP & DRIVER DATA**  
OCT 29 2018  
**e67, e68, e69, e75**  
**DEPARTMENT**  
**PLANNING & ZONING**

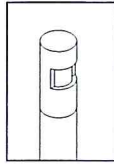
| DRIVER DATA | Input Volts      | InRush Current      | Operating | Dimmable                    | Operation Ambient Temperature |
|-------------|------------------|---------------------|-----------|-----------------------------|-------------------------------|
|             | 12VAC/DC 50/60Hz | <250mA (non-dimmed) | 500mA     | Magnetic Low Voltage Dimmer | -22°F-194°F (-30°C - 90°C)    |

| LM79 DATA |               |            |                    | L70 DATA                                                 |  | OPTICAL DATA |      |                  |
|-----------|---------------|------------|--------------------|----------------------------------------------------------|--|--------------|------|------------------|
| BK No.    | CCT (Typ.)    | CRI (Typ.) | Input Watts (Typ.) | Minimum Rated Life (hrs.)<br>70% of initial lumens (L70) |  | Angle        | CBCP | Delivered Lumens |
| e67       | 2700K         | 80         | 7                  | 50,000                                                   |  | 17°          | 3632 | 459              |
|           | 2700K         | 80         | 7                  | 50,000                                                   |  | 25°          | 1708 | 435              |
|           | 2700K         | 80         | 7                  | 50,000                                                   |  | 30°          | 1337 | 438              |
| e68       | 3000K         | 80         | 7                  | 50,000                                                   |  | 17°          | 3871 | 489              |
|           | 3000K         | 80         | 7                  | 50,000                                                   |  | 25°          | 1821 | 464              |
|           | 3000K         | 80         | 7                  | 50,000                                                   |  | 30°          | 1425 | 467              |
| e69       | 4000K         | 80         | 7                  | 50,000                                                   |  | 17°          | 3991 | 504              |
|           | 4000K         | 80         | 7                  | 50,000                                                   |  | 25°          | 1877 | 478              |
|           | 4000K         | 80         | 7                  | 50,000                                                   |  | 30°          | 1469 | 481              |
| e75       | Amber (590nm) | ~          | 7                  | 50,000                                                   |  | ~            | ~    | ~                |

| FOR USE WITH |                               |
|--------------|-------------------------------|
| CH           | Chart Star™                   |
| MN           | Micro Nite Star™              |
| PM-MN        | Micro Nite™ Pendant           |
| RM-MN        | Micro Nite™ Ring Mount        |
| SF-MN        | Micro Nite™ Staff Star™       |
| SM-MN        | Micro Nite™ Surface Downlight |
| SN-MN        | Micro Nite™ Sign Star™        |
| ST-MN        | Micro Nite™ Twin Sign Star™   |
| TF-MN        | Micro Nite™ Twin Staff Star™  |
| TT           | Teton Series™                 |
| WM-MN        | Micro Nite™ Twin Pendant      |

| OPTICS             |       |
|--------------------|-------|
| Optic              | Angle |
| SP - Spot          | 17°   |
| MFL - Medium Flood | 25°   |
| FL - Flood         | 30°   |





the power of 

RECEIVED  
LITESTICK  
OCT 29 2018

B-K LIGHTING

PATH LIGHT - SEE L100 FOR LOCATIONS.  
ALL ELECTRICAL COMPONENTS AND  
CONNECTIONS TO BE SPECIFIED BY  
ELECTRICIAN. LANDSCAPE ARCHITECT  
TO REVIEW PRIOR TO INSTALLATION.

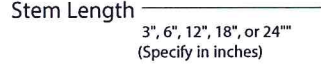
|                 |                                 |
|-----------------|---------------------------------|
| PROJECT:        | 65 OAKLEDGE DRIVE               |
| TYPE:           | DEPARTMENT OF PLANNING & ZONING |
| CATALOG NUMBER: | LT-12-LED-E71-BLP-A18           |
| SOURCE:         |                                 |
| NOTES:          |                                 |

## CATALOG NUMBER LOGIC

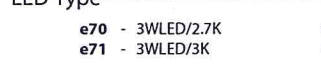
Example: 

Material   
Blank - Aluminum  
B - Brass  
S - Stainless Steel

Series   
LT - Litestick® Pathlight

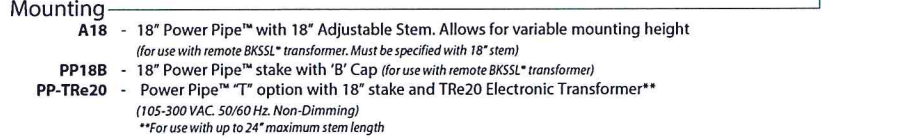
Stem Length   
3", 6", 12", 18", or 24"  
(Specify in inches)

Source   
LED - 'e' Technology with Integral Driver  
Designed for use with remote 12VAC BKSSL® transformers.

LED Type   
e70 - 3WLED/2.7K e72 - 3WLED/4K  
e71 - 3WLED/3K e73 - 3WLED/Amber

Finish 

| Aluminum & Brass Finishes |       |         | Brass Finishes     |     | Premium Finish |                           |     |                          |                                                             |                          |
|---------------------------|-------|---------|--------------------|-----|----------------|---------------------------|-----|--------------------------|-------------------------------------------------------------|--------------------------|
| Powder Coat Color         | Satin | Wrinkle | Machined           | MAC | ABP            | Antique Brass Powder      | CMG | Cascade Mountain Granite | RMG                                                         | Rocky Mountain Granite   |
| Bronze                    | BZP   | BZW     | Polished           | POL | AMG            | Aleutian Mountain Granite | CRI | Cracked Ice              | SDS                                                         | Sonoran Desert Sandstone |
| Black                     | BLP   | BLW     | Mitique™           | MIT | AQW            | Antique White             | CRM | Cream                    | SMG                                                         | Sierra Mountain Granite  |
| White (Gloss)             | WHP   | WHW     | Stainless Finishes |     | BCM            | Black Chrome              | HUG | Hunter Green             | TXF                                                         | Textured Forest          |
| Aluminum                  | SAP   | —       | Machined           | MAC | BGE            | Beige                     | MDS | Mojave Desert Sandstone  | WCP                                                         | Weathered Copper         |
| Verde                     | —     | VER     | Polished           | POL | BPP            | Brown Patina Powder       | NBP | Natural Brass Powder     | WIR                                                         | Weathered Iron           |
|                           |       |         | Brushed            | BRU | CAP            | Clear Anodized Powder     | OCP | Old Copper               | Also available in RAL Finishes<br>See submittal SUB-1439-00 |                          |
|                           |       |         | Interior use only. |     |                |                           |     |                          |                                                             |                          |

Mounting   
A18 - 18" Power Pipe™ with 18" Adjustable Stem. Allows for variable mounting height  
(for use with remote BKSSL® transformer. Must be specified with 18" stem)  
PP18B - 18" Power Pipe™ stake with 'B' Cap (for use with remote BKSSL® transformer)  
PP-TRE20 - Power Pipe™ "T" option with 18" stake and TRE20 Electronic Transformer\*\*  
(105-300 VAC, 50/60 Hz, Non-Dimming)  
\*\*For use with up to 24" maximum stem length

Options   
GS - Adjustable Glare Shield  
SF - Stability Flange (for use with Power Pipe™)

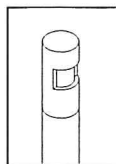
**B-K LIGHTING**

40429 Brickyard Drive • Madera, CA 93636 • USA  
559.438.5800 • FAX 559.438.5900  
www.bklighting.com • info@bklighting.com

RELEASED  
09-05-18

DRAWING NUMBER  
SUB0011

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF B-K LIGHTING, INC. AND ITS RECEIPT OR POSSESSION DOES NOT CONVEY ANY RIGHTS TO REPRODUCE, DISCLOSE ITS CONTENTS, OR TO MANUFACTURE, USE OR SELL ANYTHING DESCRIBE. REPRODUCTION, DISCLOSURE OR USE WITHOUT SPECIFIC WRITTEN AUTHORIZATION OF B-K LIGHTING, INC. IS STRICTLY FORBIDDEN.



**BKSSL**

the power of **e**

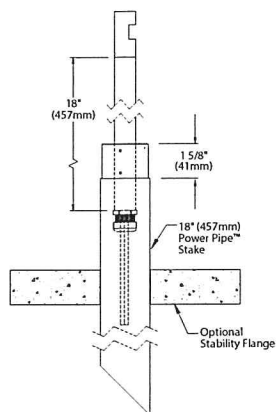
**RECEIVED**  
**LITESTICK®**  
OCT 29 2018

PROJECT:

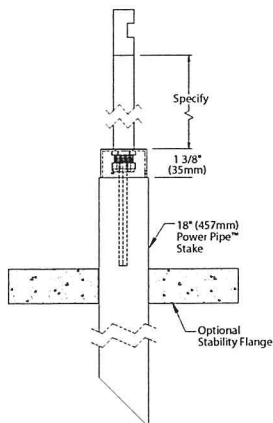
DEPARTMENT  
PLANNING & ZONING

TYPE:

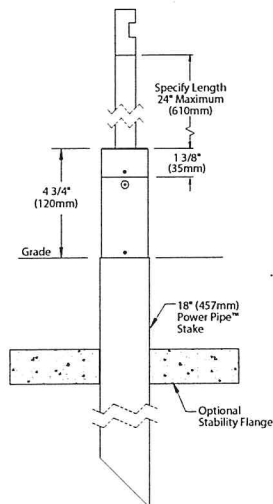
#### A18 (Mounting Option)



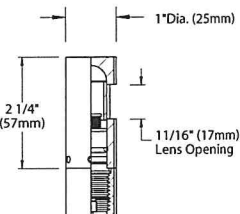
#### POWER PIPE™ (Mounting Option)



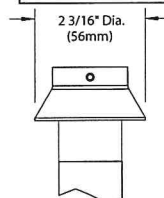
#### POWER PIPE 'T' (Mounting Option)



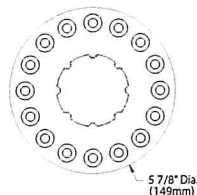
#### DETAIL VIEW



#### GLARE SHIELD (optional)



#### STABILITY FLANGE (optional)



#### Accessories (Configure separately)

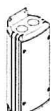
##### Remote Transformers:



TR Series



Power Pipe™



UPMRM™

All dimensions indicated on this submittal are nominal.  
Contact Technical Sales if you require more stringent specifications.

## SPECIFICATIONS

#### GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult [www.bklighting.com/greensource](http://www.bklighting.com/greensource) for program requirements.

#### Materials

Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 304).

#### Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. High temperature, silicone 'O' Ring provides water-tight seal. Weather-tight cable connector with 5', 2 wire low voltage cable.

#### Cap

Fully machined from solid billet with 1 1/16" lens opening. 360° rotation for precise optic positioning. Tamper resistant, stainless steel set screw.

Optional 2-3/16" dia. machined glare shield reduces aperture brightness.

#### Stem

Fully machined, 1" dia. with internal threads for maximum visual appeal. Available in configurable lengths to 24" maximum overall.

#### Lens

Shock resistant, tempered, frosted glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.

#### BKSSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components. Side emitting optical grade lens delivers high efficiency, radial light distribution.

Integral non-dimming driver. Minimum 50,000 hour rated life at 70% of initial lumens (L70). BKSSL technology provides long life, significant energy reduction and exceptional thermal management.

#### Installation

Available for installation in three distinct mounting conditions:

#### Power Pipe™

Provides a clean transition from wiring system to fixture. Schedule 80, 18" PVC housing for direct burial into soil or concrete. Machined 2-1/4" dia. cap for fixture mounting. Stainless steel hardware. Optional 6" diameter, molded stability flange, which simplifies installation and projects into substrate to reinforce housing stability. For use with 12VAC BKSSL remote transformer.

#### Power Pipe™ with Adjustable Mount

Features 18" Power Pipe™ and 18" stem which passes through a machined Delrin® bushing within the Power Pipe™ Cap. (3) stainless steel set screws secure fixture position (Not available with integral transformer).

#### Power Pipe™ with Transformer Housing (Optional)

Additionally features integral transformer housing fully machined from copper-free aluminum. High temperature, silicone 'O' Ring provides water-tight seal. Integral, TRe20 electronic transformer. 105-300VAC primary voltage. 50/60Hz Non Dimming. 20VA maximum load.

#### Remote Transformer

For use with 12VAC BKSSL remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

#### Wiring

PVC coated, 18AWG, 150V, 60°C rated and certified to UL 1838 standard.

#### Hardware

Tamper-resistant, stainless steel hardware.

#### Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

#### Warranty

5 year limited warranty.

#### Certification and Listing

ITL tested to IESNA LM-79, UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. IP66 Rated. Made in USA.



\*Energy Star is a registered trademark of the United States Environmental Protection Agency.

**B-K LIGHTING**

40429 Brickyard Drive • Madera, CA 93638 • USA  
559.438.5800 • FAX 559.438.5900  
[www.bklighting.com](http://www.bklighting.com) • [info@bklighting.com](mailto:info@bklighting.com)

RELEASED  
09-05-18

DRAWING NUMBER  
SUB001109



the power of 

**BK LIGHTING**

## LAMP & DRIVER DATA

**e70, e71, e72, e73**

| DRIVER DATA | Input Volts      | InRush Current      | Operating Current | Operation Ambient Temperature |
|-------------|------------------|---------------------|-------------------|-------------------------------|
|             | 12VAC/DC 50/60Hz | <250mA (non-dimmed) | 500mA             | -22°F-194°F (-30°C - 90°C)    |

| LM79 DATA |               |            |                    | L70 DATA                                                 |  | OPTICAL DATA |                                  |                  |
|-----------|---------------|------------|--------------------|----------------------------------------------------------|--|--------------|----------------------------------|------------------|
| BK No.    | CCT (Typ.)    | CRI (Typ.) | Input Watts (Typ.) | Minimum Rated Life (hrs.)<br>70% of initial lumens (L70) |  | Beam Type    | Angle                            | Delivered Lumens |
| e70       | 2700K         | 80         | 3                  | 50,000                                                   |  | Radial       | 360°h x 270°v<br>w/ Glare Shield | 31<br>13         |
| e71       | 3000K         | 80         | 3                  | 50,000                                                   |  | Radial       | 360°h x 270°v<br>w/ Glare Shield | 32<br>13         |
| e72       | 4000K         | 80         | 3                  | 50,000                                                   |  | Radial       | 360°h x 270°v<br>w/ Glare Shield | 36<br>15         |
| e73       | Amber (590nm) | ~          | 3                  | 50,000                                                   |  | Radial       | 360°h x 270°v                    | ~                |

| FOR USE WITH |            |
|--------------|------------|
| LT           | Litestick® |

**RECEIVED**

OCT 29 2018

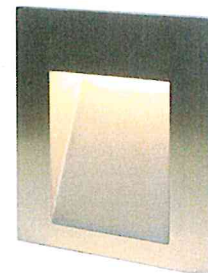
DEPARTMENT OF  
PLANNING & ZONING

# IMPACT ISL1-LED

## RECESSED LED LUMINAIRE PATH & STEPLIGHT

In-wall 3.4-watt DC LED path or step light. Wide low-glare aperture projects light 4' at 4' width delivering minimum 1 fc up to 10 fc. Creates discreet path lighting for residential, commercial and hospitality applications. Durable precision milled 316 stainless steel or brass casting. 80+ CRI, delivering 43 lumens. Available in 2700K, 3000K, 3500K & 4000K color temperatures. Dry / Damp and Wet location.

WALL STEP LIGHT- SEE L100 FOR LOCATION.  
ALL ELECTRICAL COMPONENTS AND  
CONNECTIONS TO BE SPECIFIED BY  
ELECTRICIAN. ARCHITECT TO REVIEW PRIOR  
TO INSTALLATION.



Designates Quick Ship product. Add "Q" at end of model number to have up to units shipped within 10 business days. Quick Ship offerings have 3-4 week lead time.

### PERFORMANCE

| LUMINAIRE PERFORMANCE |                     |                     |                        |
|-----------------------|---------------------|---------------------|------------------------|
| LED Configuration     | Delivered Lumens lm | Power Consumption W | Luminous Efficacy lm/W |
| 80L-02B               | 43                  | 3.4                 | 12.6                   |

### ORDERING INFORMATION - FIXTURE

| ISL1                                                                                                                                                                                          |                                                               |                                                                                                                           |                                                                                                              |                                                                                                                           |                                                                       | 80L                        | 02B                                                                                  |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------|---|
| ↑                                                                                                                                                                                             | ↑                                                             | ↑                                                                                                                         | ↑                                                                                                            | ↑                                                                                                                         | ↑                                                                     | ↑                          | ↑                                                                                    | ↑ |
| IMPACT<br>STEPLIGHT                                                                                                                                                                           | RATING<br>1 Dry / Damp<br>(Non-Locking)<br>2 Wet<br>(Locking) | POWDER COAT FINISH<br>WH White<br>BK Black<br>AG Satin Silver<br>AB Architectural Bronze<br>CF Custom Finish <sup>1</sup> | NATURAL FINISH<br>IG Industrial Gray<br>SS Brushed Stainless Steel<br>BR Brushed Bronze<br>NB Natural Bronze | PLATED FINISH<br>CH Chrome<br>PB Polished Oil-Rubbed<br>Bronze <sup>2</sup><br>MB Matte Oil-Rubbed<br>Bronze <sup>2</sup> | CRI / LED<br>80L 80+ CRI                                              | SOURCE LUMENS<br>02B 200lm | CCT<br>1 2700K<br>2 3000K<br>3 3500K<br>4 4000K<br>C Custom Color (gel) <sup>2</sup> |   |
| <sup>1</sup> Powder coat only, no plated finishes; custom finishes assigned unique suffix upon receipt of order, consult factory for additional cost<br><sup>2</sup> Dry / Damp location only |                                                               |                                                                                                                           |                                                                                                              |                                                                                                                           | <sup>2</sup> Custom gels assigned unique suffix upon receipt of order |                            |                                                                                      |   |

### MOUNTING OPTIONS FOR REMOTE POWER SUPPLY - SELECT ONLY ONE [SEE PAGE 3 FOR MOUNTING PROVISION DETAILS]

#### WET OR DRY / DAMP LOCATION

- ☐ **SSL-UMP** ④  
Universal Mounting Plate
- ☐ **SSL-MP-(1.50 / 1.75 / 2.00 / 2.50 / 3.00)**  
Mounting Plate; specify collar depth
- ☐ **SSL-BB** ④  
Back Box with SSL-UMP mounting plate
- ☐ **SSL-BB-(1.50 / 1.75 / 2.00 / 2.50 / 3.00)**  
Back Box with SSL-MP mounting plate; specify collar depth
- ☐ **SSL-SMB(finish)**  
Surface Mount Box; specify finish, powder coat only

#### DRY / DAMP LOCATION ONLY

- ☐ **SSL-RM**  
Remodel-Mount collar (drywall / plasterboard)
- ☐ **SSL-CC**  
Cavity Collar
- ☐ **SSL-SC3**  
Stud-Mount collar (3")
- ☐ **SSL-SC6**  
Stud-Mount collar (6")

RECEIVED

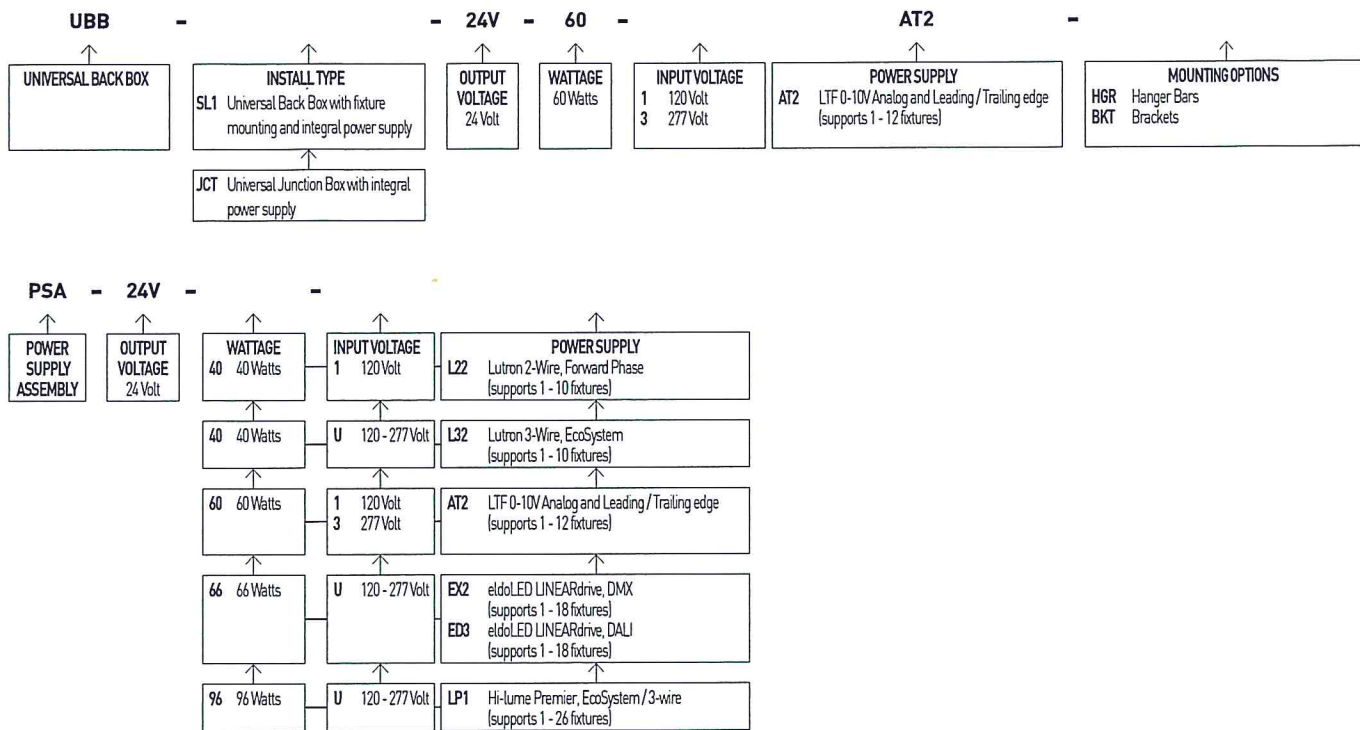
OCT 29 2018

DEPARTMENT OF  
PLANNING & ZONING



# IMPACT ISL1

## POWER SUPPLY OPTIONS



□ **PSA-24V-60-1EL2** Plug-in 120V Class 2 power supply (Supports 1-12 fixtures)

## TECHNICAL

### CONSTRUCTION

**Stealth:** Cast 316 stainless steel or brass, depending on finish.  
**Mounting Plates and Mounting Collars:** Stainless Steel.  
**Single-gang Weatherproof Box:** Aluminum.  
**Surface Mount Box:** Aluminum.  
**Universal Back Box:** Polycarbonate.

### LED

Proprietary 2 step MacAdam ellipse LED module available with 80+ CRI in color temperatures of 2700K, 3000K, 3500K and 4000K. Average rated lamp life: 50,000 hours.

### DIMMING PROTOCOL

LTF 0-10V analog and Leading / Trailing edge [AT2] dims to nominal 10%. Lutron 2-wire (L22) and Lutron 3-wire (L32) dims to 1%. eldoLED LINEARdrive [EX2 & ED3] dims to 0%. Lutron Premier (LP1) dims to 0.1% and features Soft-On, Fade-to-Black™.

### RECOMMENDED SPACING

Optimum 18" (457mm) above walking surface; 36" (914mm) on-center spacing.

## ELECTRICAL

**Luminaire requires factory-supplied 24-Volt DC power supply.** May be integral to back box or remote. Secondary run lengths vary depending on power supply specified, see installation guidelines for run lengths.

### LISTING

cTUVus Listed; Dark-Sky approved; Patent No. US D610,734 S; Dry / Damp (IP54 rated) and Wet (IP65 rated) location.

### WARRANTY

Manufacturer's 1-year warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service. 5-year warranty on LED and power supply to operate with 70% of the original flux and remain within a range of 3 duv. Warranty period begins from the date of shipment by Seller and conditional upon the use of manufacturer-supplied power supply. Consult website for full warranty terms and conditions.

**RECEIVED**

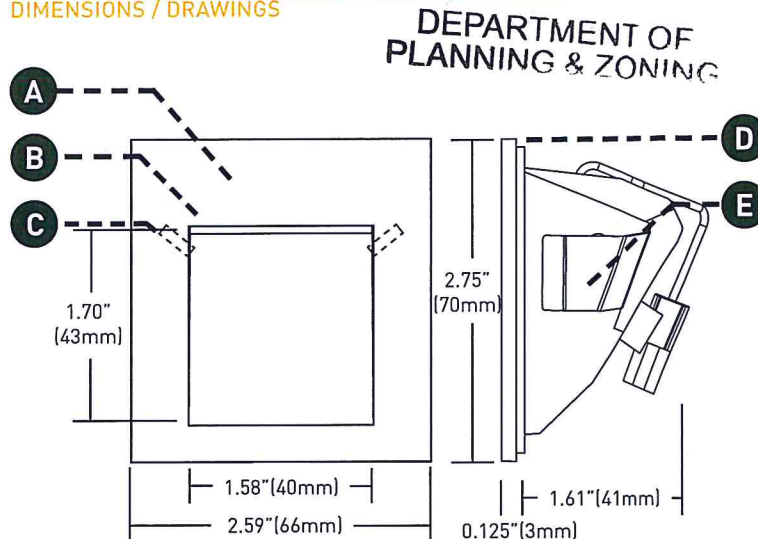
OCT 29 2018

DEPARTMENT OF  
PLANNING & ZONING

## FIXTURE

- A LED**  
Regressed LED with wide low glare aperture, energy-efficient path and step lighting; suitable for dry / damp or wet applications. 3.4W DC LED (dimming by power supply).
- B EFFECTS DEVICES**  
Provided with sealed polycarbonate linear diffusion lens; consult factory for availability of color gels, which may achieve custom color temperatures.
- C LOCKING**  
Discreetly hidden tamper-resistant set screws. Included with IP65 Wet location luminaire.
- D GASKET**  
Foam gasket provided. Required for IP65 wet location applications only.
- E RETENTION**  
Torsion spring clips secure fixture into back box, mounting plate, or appropriately sized cut-out.

## DIMENSIONS / DRAWINGS



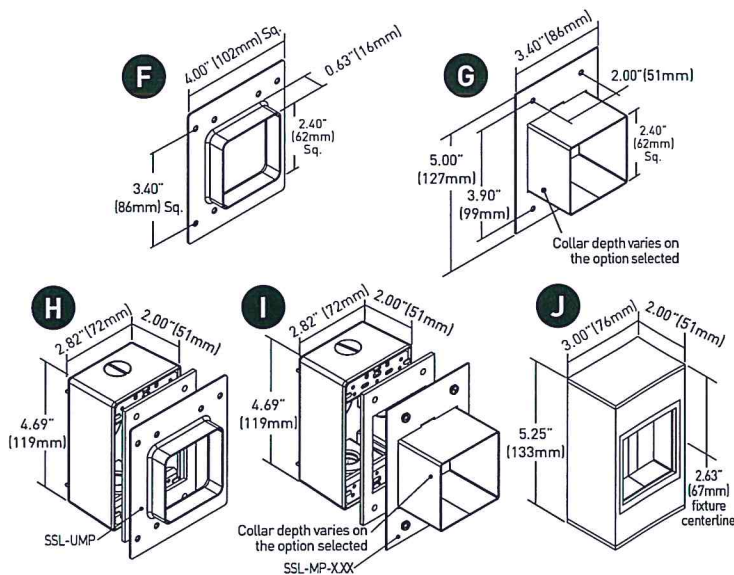
DEPARTMENT OF  
PLANNING & ZONING

## MOUNTING

### REQUIRES REMOTE POWER SUPPLY

- F SSL-UMP**  
Universal Mounting Plate typically used with two-gang switch box or 4-square junction box for dry /damp locations. May be used with customer-furnished single or two gang weatherproof box and factory supplied gasket for wet and concrete pour locations.
- G SSL-MP-(1.50 / 1.75 / 2.00 / 2.50 / 3.00)**  
Mounting Plate includes gasket and features an extended collar for single-gang weatherproof box; specify preferred depth. Typically for wet and concrete pour locations.
- H SSL-BB**  
Back Box equipped with SSL-UMP mounting plate and gasket. Typically used in wet and concrete pour applications. Features 1/2" knockouts.
- I SSL-BB-(1.50 / 1.75 / 2.00 / 2.50 / 3.00)**  
Back Box equipped with SSL-MP-XXX mounting plate and gasket; specify preferred depth. Typically used in wet and concrete pour locations. Features 1/2" knockouts.
- J SSL-SMB-(finish)**  
Surface Mounting Box for interior or exterior applications, providing flush mount of luminaire. Receives secondary wiring through back of box. Powder coat finishes only.

## WET AND DRY / DAMP LOCATION

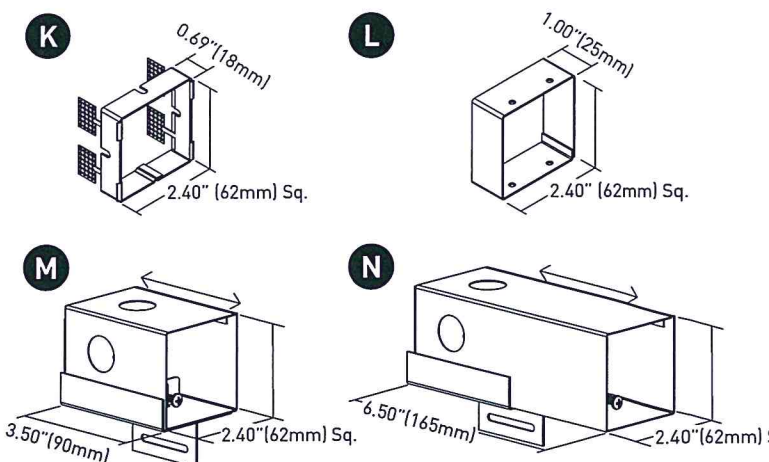


## MOUNTING

### REQUIRES REMOTE POWER SUPPLY

- K SSL-RM**  
Remodel Mount collar for installing fixture into drywall / plasterboard. Requires Class 2 power supply.
- L SSL-CC**  
Cavity Collar for installing fixture into cavity or bore. Requires Class 2 power supply.
- M SSL-SC3**  
Stud-mount Collar, adjusts with integral jackscrew from 1/2" to 3" for walls with varying substrate depths (rock, brick and stone). Features 1/2" knockouts for wiring.
- N SSL-SC6**  
Stud-mount Collar, adjusts with integral jackscrew from 3" to 6" for walls with varying substrate depths (rock, brick and stone). Features 1/2" knockouts for wiring.

## DRY / DAMP LOCATION ONLY





# IMPACT ISL1

RECEIVED  
OCT 29 2018

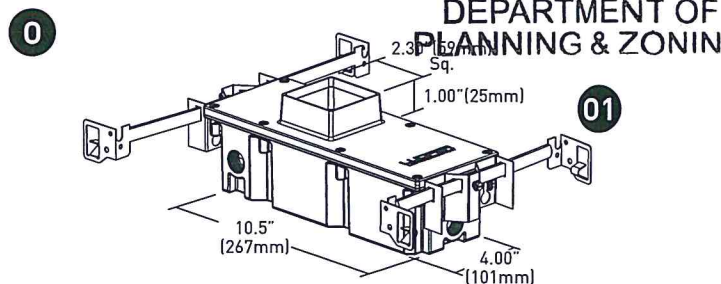
## MOUNTING WITH INTEGRAL POWER SUPPLY

### 0 UBB-SL1-24V-60-XAT2-XXX

Universal Back Box, wet location and concrete pour rated. Can be specified with integral or remote power supply and features secondary output capacity, simplifying wiring practices and reducing budgets. See Page 2 for power supply options. Supplied with mounting hardware, specify "-HGR" or "-BKT". Shown with hanger bars (-HGR).

- 01 Hanger bars, adjust from 14" to 24" for standard joist spacing.

## DIMENSIONS / DRAWINGS



## REMOTE POWER SUPPLIES

### P UBB-JCT-24V-60-XAT2-XXX

Universal Junction Box, wet location and concrete pour rated. Can be specified with integral or remote power supply and features secondary output capacity, simplifying wiring practices and reducing budgets. See Page 2 for power supply options. Supplied with "-HGR" or "-BKT" mounting hardware, shown with Bracket (-BKT).

- P1 Brackets, universal stainless steel mounting flange.

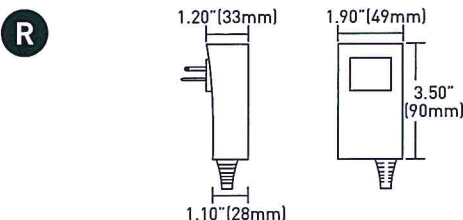
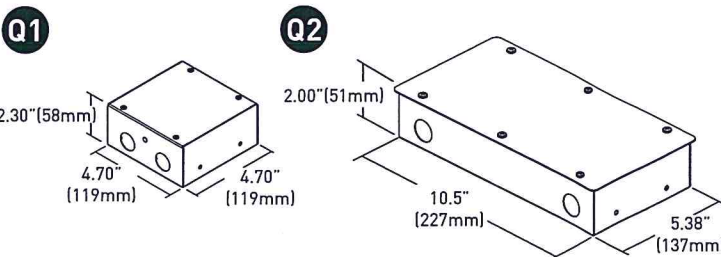
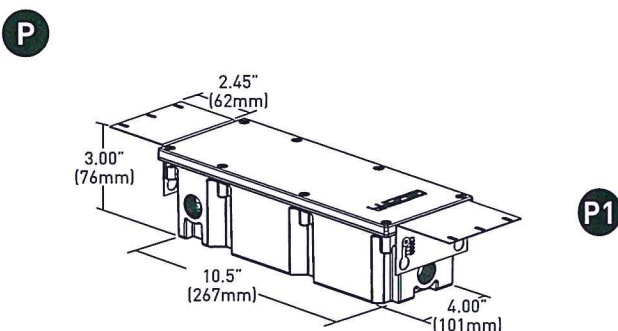
### Q PSA-24V-XX-XXXX

Hardwire Class 2 power supply, consists of a steel compartment and lid painted black with integral conventional electronic power supply. Wired in either a homerun or parallel method. See page 2 for power supply options.

- Q1 Used for 60W electronic transformer (AT2).  
Q2 Used for 40W, 66W and 96W electronic transformers (EX2, ED3, LP1, L22 & L32).

### R PSA-24V-60-1EL2

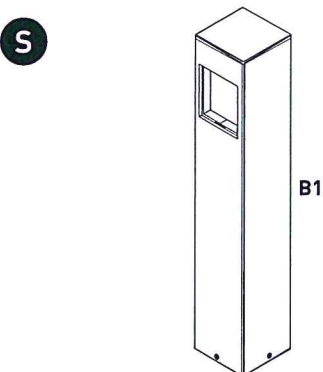
Plug-in Class 2 power supply, wires may be spliced to accommodate multiple luminaires in a parallel or home run method.



## BOLLARD

### S BOLLARD

Free-standing mount. Available with integral or remote power supply. See BOLLARD spec sheet for complete details and ordering information.





LUTRON DIMMING COMPATIBILITY

DEPARTMENT OF PLANNING & ZONING

| Power supply L22 Product Family                               | Part No.                        | Drivers Per Control (120V only)                  | Power supply LP1 Product Family  | 120V Part No.                                                          | 277V Part No.   | Drivers per Control 120V | 277V |
|---------------------------------------------------------------|---------------------------------|--------------------------------------------------|----------------------------------|------------------------------------------------------------------------|-----------------|--------------------------|------|
| Maestro WirelessR 600 W dimmer                                | MRF2-6ND-120-                   | 1-8                                              | NovaT®                           | NTF-10-                                                                | NTF-10-277-     | 1-16                     | 1-19 |
| Maestro WirelessR 1000 W dimmer                               | MRF2-10ND-120-                  | 1-13                                             |                                  | NTF-103P-                                                              | NTF-103P-277-   | 1-8                      | 1-14 |
| Caséta® Wireless Pro 1000 W dimmer                            | PD-10NXD-                       | 1-13                                             | Nova®                            | NF-10-                                                                 | NF-10-277-      | 1-8                      | 1-19 |
| GRAFIK T™ CL® dimmer                                          | GT-250M-, GTJ-250M-             | 1-10                                             |                                  | NF-103P-                                                               | NF-103P-277-    | 1-8                      | 1-14 |
| HomeWorks® QS adaptive dimmer                                 | HQRD-6NA-                       | 1-8                                              | Skylark®                         | SF-10P-                                                                | SF-12P-277-     | 1-8                      | 1-14 |
| HomeWorks® QS 600 W dimmer                                    | HQRD-6ND-                       | 1-8                                              |                                  | SF-103P-                                                               | SF-12P-277-3    | 1-8                      | 1-14 |
| HomeWorks® QS 1000 W dimmer                                   | HQRD-10ND-                      | 1-13                                             | Diva®                            | DVF-103P-                                                              | DVF-103P-277-   | 1-8                      | 1-14 |
| RadioRA® 2 adaptive dimmer                                    | RRD-6NA-                        | 1-8                                              |                                  | DVSCF-103P-                                                            | DVSCF-103P-277- | 1-8                      | 1-14 |
| RadioRA® 2 1000 W dimmer                                      | RRD-10ND                        | 1-13                                             | Ariadni®                         | AYF-103P-                                                              | AYF-103P-277-   | 1-6                      | 1-14 |
| myRoom™ DIN power module                                      | MQSE-4A1-D                      | 1-6 (per output),<br>1A max driver input current | Maestro®                         | MAF-6AM-                                                               | MAF-6AM-277-    | 1-6                      | 1-14 |
| HomeWorks® QS DIN power module                                | LQSE-4A1-D                      | 1-6 (per output),<br>1A max driver input current |                                  | MSCF-6AM-                                                              | MSCF-6AM-277-   | 1-6                      | 1-14 |
| HomeWorks® QS wallbox power module                            | HQRJ-WPM-6D-120                 | 2-10 (per output),<br>26 total per module        | Maestro Wireless®                | MRF2-F6AN-DV-                                                          |                 | 1-6                      | 1-14 |
| HomeWorks® wallbox power module                               | HWI-WPM-6D-120                  | 2-10 (per output),<br>26 total per module        | RadioRA® 2                       | RRD-F6AN-DV-                                                           |                 | 1-6                      | 1-14 |
| GRAFIK Eye® QS control unit                                   | QSGR-, QSGRJ-                   | 2-10 (per output),<br>26 total per module        | HomeWorks® QS                    | HQRD-F6AN-DV                                                           |                 | 1-6                      | 1-14 |
| GRAFIK Eye® 3000 control unit                                 | GRX-3100-, GRX-3500-            | 2-10 (per output),<br>26 total per module        | Interfaces                       | PHPM-3F-120                                                            | -               | 1-16                     | -    |
| RPM-4U module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®) | HW-RPM-4U-120,<br>LP-RPM-4U-120 | 2-26 (per output),<br>26 total per module        |                                  | PHPM-3F-DV                                                             |                 | 1-16                     | 1-38 |
| RPM-4A module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®) | HW-RPM-4A-120,<br>LP-RPM-4A-120 | 1-13 (per output),<br>26 total per module        |                                  | BCI-0-10                                                               |                 | 1-16                     | 1-38 |
| GP dimming panels                                             | Various                         | 1-26                                             | GP Dimming Panels                | Various                                                                |                 | 1-16                     | 1-38 |
| Ariadni CL 250W dimmer                                        | AYCL-253P-                      | 1-8                                              | PowPak™ with EcoSystem           | RMJ-ECO32-DV-B                                                         |                 | 32 per EcoSystem link    |      |
| Diva CL 250W dimmer                                           | DVCL-253P-<br>DCSCCL-253P-      | 1-8                                              |                                  | URMJ-ECO32-DVB                                                         |                 | 32 per EcoSystem link    |      |
| Nova T CL 250W dimmer                                         | NTCL-250-                       | 1-10                                             |                                  | FCJ-ECO                                                                |                 | 3 per EcoSystem link     |      |
|                                                               |                                 |                                                  | Energi Savr Node™ with EcoSystem | QSN-1ECO-S, QSN-2ECO-S,<br>QSN-2ECO-PS120, UQSN-1ECO-S,<br>UQSN-2ECO-S |                 | 64 per EcoSystem link    |      |
|                                                               |                                 |                                                  | GRAFIK Eye® QS with EcoSystem    | QSGRJ-_E<br>QSGR-_E                                                    | -               | 64 per EcoSystem link    |      |
|                                                               |                                 |                                                  | HomeWorks® QS with EcoSystem     | LQSE-2ECO-D,<br>QSGRJ-_E,<br>QSGR-_E                                   |                 | 64 per EcoSystem link    |      |
|                                                               |                                 |                                                  | Quantum®                         | QP2-_P_C                                                               |                 | 64 per EcoSystem link    |      |

| Power supply L32 Product Family  | 120V Part No.          | 277V Part No.   | Drivers per Control   |      |
|----------------------------------|------------------------|-----------------|-----------------------|------|
|                                  |                        |                 | 120V                  | 277V |
| NovaT®                           | NTF-10-                | NTF-10-277-     | 1-41                  | 1-44 |
|                                  | NTF-103P-              | NTF-103P-277-   | 1-20                  | 1-33 |
| Nova®                            | NF-10-                 | NF-10-277-      | 1-41                  | 1-44 |
|                                  | NF-103P-               | NF-103P-277-    | 1-20                  | 1-33 |
| Skylark®                         | SF-10P-                | SF-12P-277-     | 1-20                  | 1-33 |
|                                  | SF-103P-               | SF-12P-277-3    | 1-20                  | 1-33 |
| Diva®                            | DVF-103P-              | DVF-103P-277-   | 1-20                  | 1-33 |
|                                  | DVSCF-103P-            | DVSCF-103P-277- | 1-20                  | 1-33 |
| Ariadni®                         | AYF-103P-              | AYF-103P-277-   | 1-20                  | 1-44 |
| Maestro®                         | MAF-6AM-               | MAF-6AM-277-    | 1-15                  | 1-20 |
|                                  | MSCF-6AM-              | MSCF-6AM-277-   | 1-15                  | 1-20 |
| Maestro Wireless®                | MRF2-F6AN-DV-          |                 | 1-15                  | 1-33 |
| RadioRA® 2                       | RRD-F6AN-DV-           |                 | 1-15                  | 1-33 |
| HomeWorks® QS                    | HQRD-F6AN-DV           |                 | 1-15                  | 1-33 |
| Interfaces                       | PHPM-3F-120            | -               | 1-41                  | -    |
|                                  | PHPM-3F-DV             |                 | 1-41                  | 1-88 |
| GP Dimming Panels                | Various                |                 | 1-41                  | 1-88 |
| PowPak™ with EcoSystem           | RMJ-ECO32-DV-B         |                 | 32 per EcoSystem link |      |
|                                  | FCJ-ECO                |                 | 3 per EcoSystem link  |      |
| Energi Savr Node™ with EcoSystem | QSN-1ECO-S, QSN-2ECO-S |                 | 64 per EcoSystem link |      |
| GRAFIK Eye® QS with EcoSystem    | QSGRJ-_E<br>QSGR-_E    | -               | 64 per EcoSystem link |      |
| Quantum®                         | QP2-_P_C               |                 | 64 per EcoSystem link |      |

RECESSED CEILING LIGHT- SEE L100 FOR LOCATION. ALL ELECTRICAL COMPONENTS AND CONNECTIONS TO BE SPECIFIED BY ELECTRICIAN. ARCHITECT TO REVIEW PRIOR TO INSTALLATION.

## TRIM: **INS-BV-W** - BEVEL SERIES™

4" TRIM, 1 3/4" APERTURE FOR WOOD/STONE CEILING APPLICATIONS

|              |                         |
|--------------|-------------------------|
| Project Name |                         |
| Date         | Type                    |
| Prepared By  |                         |
| Comments     |                         |
| Catalog #    | <b>INS - BV - W -</b> / |



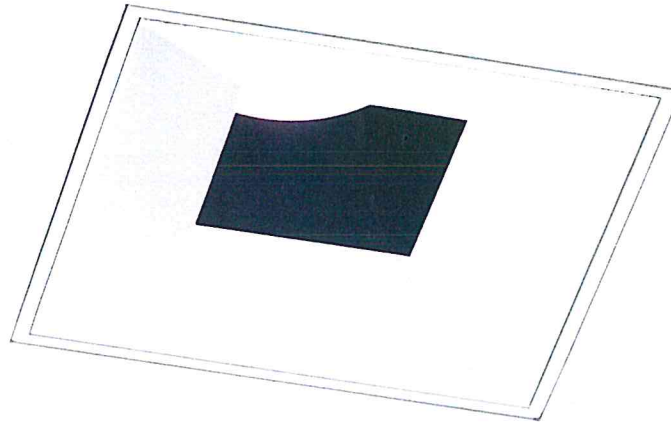
Cotati, CA 94931  
USA  
P 707.794.0888  
F 707.795.4379  
www.8lighting.com

All No. 8 Lighting fixtures and components are UL/CSA listed. U.S. Patents Pending on the Seamless™ and Inset™ Series trims as well as the type A Lamp Module. No. 8 Lighting reserves the right to change details of design, materials, and finish.

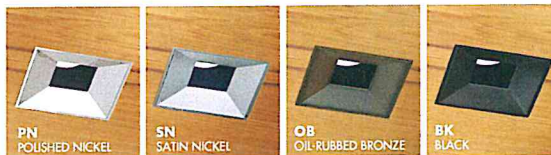
© 2018 No. 8 Lighting  
Doc # 91320-11.3



### PRODUCT FEATURES



**WH**  
WHITE - FIELD PAINTABLE TO MATCH CEILING FINISH



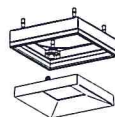
#### Trim Assembly

- **INS-BV-W** trim bevels from finished ceiling to 1/2" above ceiling surface. Designed for wood/stone ceilings.
- Optimized for use with type A, J2-HI, and K2-HI lamp modules. Not recommended for use with B, L2-HI, or M2-HI lamp modules.
- Field adjustable to accommodate ceiling thickness between 1/2" - 1 1/2".
- Die-cast from Zinc alloy for maximum strength, stability, and corrosion resistance.
- Minimal 1 3/4" aperture.
- Unique magnetic trim plate is removable without marring finishes.
- 4 5/16" wide trim installs flush within 4 3/8" ceiling cut out.
- Features +/- 3° rotational adjustment for squaring trim to other fixtures or nearby walls.
- Can be installed before or after ceiling installation.
- Works with all Number Eight 800 Series housings.
- Available with optional factory installed lenses for harsh environment and beam modification applications. **All lensed trim plates are rated for use in dry, damp, or wet locations (covered ceiling applications only).**
- Available in many designer finishes including: White, Polished Nickel\*\*, Satin Nickel\*\*, Oil-Rubbed Bronze\*\*, and Black\*\*.

**\*\*Lot variations in specialty finishes may occur. Ordering ALL trim kits at the same time is recommended to minimize variations in finishes.**

### PRODUCT SPECIFIER/PRODUCT ORDER NUMBER

|               |   |                  |   |             |
|---------------|---|------------------|---|-------------|
| <b>INS-BV</b> | - | <b>W</b>         | - | /           |
| TRIM ASSEMBLY | + | TRIM APPLICATION | + | TRIM FINISH |



**INS-BV**  
INSET trim bevels from finished ceiling to 1/2" above  
4 5/16" flangeless trim installs flush into 4 3/8" ceiling cut out

**W**  
WOOD/STONE ceiling applications (1/2" min - 1 1/2" max)

**WH**  
WHITE - Field paintable to match ceiling finish

**PN**  
POLISHED NICKEL\*

**SN**  
SATIN NICKEL\*

**OB**  
OIL-RUBBED BRONZE\*

**BK**  
BLACK\*

\*Specialty finish. Additional lead time required.

**CL**  
CLEAR LENS installed in trim plate\*

**SF**  
SOFT FOCUS LENS installed in trim plate\*

\*Lensed trim plate rated for use in DRY, DAMP, or WET locations (covered ceiling applications only).

RECEIVED

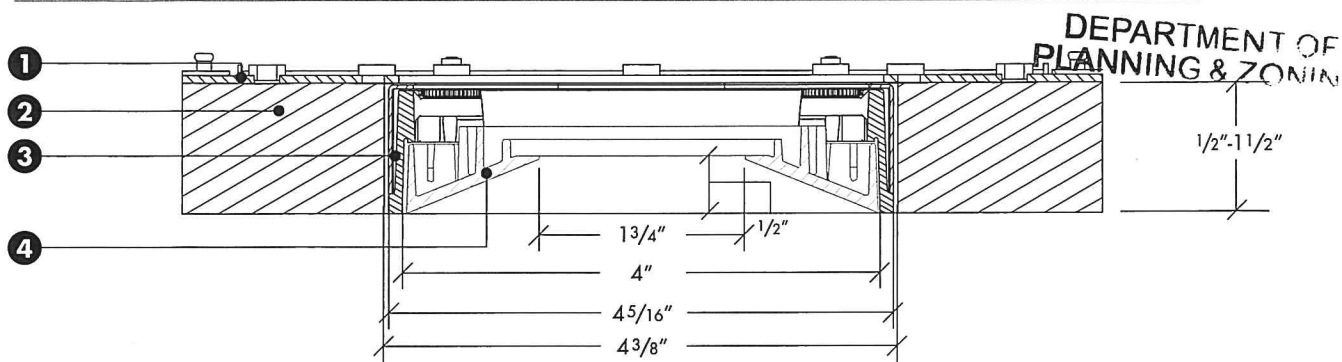
OCT 29 2018

DEPARTMENT PLANNING & ZONING

# RECEIVED

OCT 29 2018

## TRIM ASSEMBLY CROSS SECTION DETAIL



- 1) Housing**
- 2) Wood/Stone Ceiling Material** – Accommodates all thickness from 1/2" to 1 1/2".
- 3) Inset Trim Kit** – 4 5/16" wide trim installs flush within 4 3/8" ceiling cut out. Height and rotation may be adjusted before or after ceiling installation.
- 4) Trim Plate** – Features unique magnetic attachments. Bevels from finished ceiling to 1/2" above.

**Note:** Cross sections are for illustration purposes only. Refer to W-Series trim installation instructions for complete installation details.



## DG150-2 Generator Set

### Electric Power



Image shown may not reflect actual configuration

Caterpillar is leading the power generation marketplace with Power Solutions engineered to deliver unmatched flexibility, expandability, reliability, and cost-effectiveness.

RECEIVED

OCT 29 2018

DEPARTMENT OF  
PLANNING & ZONING

## Specifications

### Generator Set Specifications

|                      |                     |
|----------------------|---------------------|
| Rating (Natural Gas) | 150 ekW (187.5 kVA) |
| Rating (LP Vapor)    | 140 ekW (175 kVA)   |
| Voltage              | 480 Volts           |
| Frequency            | 60 Hz               |
| Speed                | 1800 rpm            |

### Generator Set Configurations

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| Emissions/Fuel Strategy | U.S. EPA Certified for Stationary Emergency Application |
|-------------------------|---------------------------------------------------------|

### Engine Specifications

|                                |                                     |                     |
|--------------------------------|-------------------------------------|---------------------|
| Engine Model                   | 8.8L V8, 4-cycle                    |                     |
| Bore                           | 110.5 mm                            | 4.35 in             |
| Displacement                   | 8.8 L                               | 535 in <sup>3</sup> |
| Stroke                         | 114.3 mm                            | 4.5 in              |
| Compression Ratio              | 10.1:1                              |                     |
| Aspiration                     | Turbocharged Air-to-Air Aftercooler |                     |
| Governor Type                  | Electronic                          |                     |
| Fuel Type                      | Natural Gas, LP Vapor               |                     |
| Fuel Pressure Operating Range* | 2.7 - 3.5 kPa                       | 11 - 14 in. water   |

### Package Dimensions\*\*

|         |         |          |
|---------|---------|----------|
| Length  | 3037 mm | 119.6 in |
| Width   | 1110 mm | 43.7 in  |
| Height  | 1655 mm | 65.2 in  |
| Weight† | 1616 kg | 3563 lb  |

\*Optional fuel pressure options may be available, please contact your local dealer.

\*\*Note: For reference only – do not use for installation design. Please contact your local dealer for exact weight and dimensions.

†Weight includes: Oversize generator, skid base, circuit breaker, oil, and coolant.

## DG150-2 Generator Set

### Electric Power



RECEIVED  
OCT 29 2018

DEPARTMENT OF  
PLANNING & ZONING

### Benefits & Features

#### Generator

- Matched to the performance and output characteristics of engine
- Industry-leading mechanical and electrical design
- Industry-leading motor starting capabilities
- High efficiency

#### Cat® EMCP Control Panel

The EMCP 4 controller features the reliability and durability you have come to expect from your Cat equipment. EMCP 4 is a scalable control platform designed to ensure reliable generator set operation, providing extensive information about power output and engine operation. EMCP 4 systems can be further customized to meet your needs through programming and expansion modules.

#### Design Criteria

- The generator set facilitates compliance with NFPA 110
- Cooling system designed to operate in 50°C/122°F ambient temperatures with an air flow restriction of 0.5 in. water

#### UL 2200/CSA – Optional

- UL 2200 Listed
  - CSA Certified
- Certain restrictions may apply. Consult with your Cat dealer.

#### Worldwide Product Support

Cat dealers provide extensive post-sale support including maintenance and repair agreements. Cat dealers have over 1,800 dealer branch stores operating in 200 countries.

## DG150-2 Generator Set

### Electric Power



RECEIVED  
OCT 29 2018

DEPARTMENT OF  
PLANNING & ZONING

### Standard Equipment

#### Air Inlet

- Single element air filter

#### Cooling

- Radiator and cooling fan complete with protective guards
- Standard ambient temperatures up to 50°C (122°F)

#### Exhaust

- Exhaust outlet with 2.5" pipe

#### Fuel

- Natural Gas or LP Vapor
- Dual lock off valves
- NPT connection

#### Generator

- Matched to the performance and output characteristics of engine
- IP23 protection
- Integrated Voltage Regulator

#### Governor

- Electronic governor (non adjustable)

#### Control Panels

- EMCP 4.2 Series generator set controller

#### Mounting

- Rubber vibration isolators

#### Starting/Charging

- 12 volt starting motor
- Batteries with rack and cables



**DG150-2 Generator Set**  
**Electric Power**



**RECEIVED**  
OCT 29 2018

**DEPARTMENT OF  
PLANNING & ZONING**

**Optional Equipment**

**Generator**

- Excitation: ☐ Permanent Magnet Excited (PM)
- Oversize and premium generators
- Anti Condensation heater

**Starting/Charging**

- Battery charger – UL Listed 10 amp
- Jacket water heater
- Battery heater
- Lube oil sump heater

**General**

- UL 2200 Listed
- CSA Certified
- Enclosures: sound attenuated, weather protective
- Automatic transfer switches (ATS)
- Suitable for Use as Service Equipment (SUSE)

# **ELECTRIC POWER – Technical Spec Sheet** **STANDARD**

**DG150-2**

**150 ekW/ 187.5 kVA/ 60 Hz/ 1800 rpm/ 480V/ 0.8 Power Factor**

**Rating Type: STANDBY**

**Emissions: U.S. EPA Certified for Stationary Emergency Application**

**RECEIVED**  
**OCT 29 2018**

**DEPARTMENT OF  
PLANNING & ZONING  
150 ekW/ 187.5 kVA  
60 Hz/ 1800 rpm/ 480V**



Image shown may not reflect actual configuration

## **Package Performance**

| Fuel                                                   | Natural Gas | LP Vapor |
|--------------------------------------------------------|-------------|----------|
| Generator Set Power Rating with Fan @ 0.8 Power Factor | 150 ekW     | 140 ekW  |
| Generator Set Power Rating                             | 187.5 kVA   | 175 kVA  |

## **Fuel Consumption with Natural Gas**

|                    |            |             |
|--------------------|------------|-------------|
| 100% Load With Fan | 50.4 m³/hr | 1778 ft³/hr |
| 75% Load With Fan  | 40.3 m³/hr | 1423 ft³/hr |
| 50% Load With Fan  | 30.5 m³/hr | 1079 ft³/hr |

## **Fuel Consumption with LP Vapor**

|                    |            |            |
|--------------------|------------|------------|
| 100% Load With Fan | 19.6 m³/hr | 691 ft³/hr |
| 75% Load With Fan  | 15.4 m³/hr | 542 ft³/hr |
| 50% Load With Fan  | 11.6 m³/hr | 409 ft³/hr |

## **Cooling System¹**

|                                                |          |                |
|------------------------------------------------|----------|----------------|
| Engine Coolant Capacity                        | 13.7 L   | 3.6 gal        |
| Radiator Coolant Capacity                      | 11.8 L   | 3.1 gal        |
| Engine Coolant Capacity with Radiator/Exp Tank | 25.5 L   | 6.7 gal        |
| Air Flow Restriction (System)                  | 0.12 kPa | 0.48 in. water |

## **Inlet Air**

|                                |             |         |
|--------------------------------|-------------|---------|
| Combustion Air Inlet Flow Rate | 10.3 m³/min | 365 cfm |
|--------------------------------|-------------|---------|

## ELECTRIC POWER – Technical Spec Sheet STANDARD

DG150-2

150 ekW/ 187.5 kVA/ 60 Hz/ 1800 rpm/ 480V/ 0.8 Power Factor

Rating Type: STANDBY

Emissions: U.S. EPA Certified for Stationary Emergency Application

CA  
RECEIVED  
OCT 29 2018  
DEPARTMENT OF  
PLANNING & ZONING

| Exhaust System                                  |             |                |
|-------------------------------------------------|-------------|----------------|
| Exhaust Stack Gas Temperature                   | 690°C       | 1274°F         |
| Exhaust Gas Flow Rate                           | 33.3 m³/min | 1178 cfm       |
| Exhaust System Backpressure (maximum allowable) | 10.2 kPa    | 40.9 in. water |

| Heat Rejection                              |         |              |
|---------------------------------------------|---------|--------------|
| Heat Rejection to Coolant (total)           | 88.3 kW | 5021 Btu/min |
| Heat Rejection to Atmosphere from Generator | 10.8 kW | 614 Btu/min  |

| Alternator <sup>2</sup>                     |              |       |
|---------------------------------------------|--------------|-------|
| Motor Starting Capability @ 30% Voltage Dip | 452 skVA     |       |
| Frame                                       | LC3114J      |       |
| Temperature Rise                            | 130°C        | 234°F |
| Excitation                                  | Self Excited |       |

| Lube System             |       |          |
|-------------------------|-------|----------|
| Sump Refill with Filter | 7.6 L | 2.00 gal |

| Emissions (Nominal) <sup>3</sup> |             |
|----------------------------------|-------------|
| NOx + HC                         | 2.7 g/kW-hr |
| CO                               | 4.4 g/kW-hr |

<sup>1</sup> For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to the existing restriction from the factory.

<sup>2</sup> Generator temperature rise is based on a 40°C (104°F) ambient per NEMA MG1-32.

<sup>3</sup> The nominal emissions data shown is subject to environment, instrumentation, measurement, facility and engine to engine variations.



## ELECTRIC POWER – Technical Spec Sheet STANDARD

DG150-2

150 ekW/ 187.5 kVA/ 60 Hz/ 1800 rpm/ 480V/ 0.8 Power Factor

Rating Type: STANDBY

Emissions: U.S. EPA Certified for Stationary Emergency Application

RECEIVED  
OCT 29 2018

### DEFINITIONS AND CONDITIONS

DEPARTMENT OF  
PLANNING & ZONING

#### Applicable Codes and Standards:

CSA C22.2 No 100-04, UL 489, UL 869, UL 2200, NFPA 37, NFPA 70, NFPA 99, NFPA 110, IBC, IEC60034-1, ISO3046, NEMA MG 1-22, NEMA MG 1-33.

**STANDBY:** Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

**Ratings** are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

**Fuel Rates** are based on heat values of 1015 BTU/SCF for Natural Gas and 2500 BTU/SFC for Propane Vapor @77°F (25°C) and 328 ft (100m) above sea level.

Additional ratings may be available for specific customer requirements, contact your Cat representative for details.

Feature Code: 88LGE02  
Generator Arrangement: 454-5283  
Date: 08/04/2016  
Source Country: U.S.

LEHE1003-01

[www.Cat-ElectricPower.com](http://www.Cat-ElectricPower.com)  
©2016 Caterpillar  
All rights reserved.

Materials and specifications are subject to change without notice.  
The International System of Units (SI) is used in this publication.

CAT, CATERPILLAR, their respective logos, ADEM, S-O-S, "Caterpillar Yellow", the "Power Edge" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.



**CITY OF BURLINGTON  
DEPARTMENT OF PUBLIC WORKS**

33 Kilburn Street  
Post Office Box 849  
Burlington, VT 05402-0849  
802.863.9094 VOX  
802.863.0466 FAX  
802.863.0450 TTY

---

**Steven Goodkind, P.E.**  
*DIRECTOR OF PUBLIC WORKS  
CITY ENGINEER*

# **The City of Burlington, Department of Public Works**

## **Drilling & Blasting Procedures**

March 21 2000

An Equal Opportunity Employer

*This material is available in alternative formats for persons with disabilities. To request an accommodation, please call 802.863.9094 (voice) or 802.863.0450 (TTY).*

**DPW**

**1. Blasting:**

- a. All blasting will be done in accordance with procedures acceptable by the City Engineer, Department of Public Works. The contractor shall notify neighbors and minimize vibration to adjacent and nearby structures. The blasting plan shall be filed with both Planning Department and Department of Public Works at least 48 hours prior to the scheduled blasting.
- b. The developer, at his expense, will engage a blasting consultant to conduct a pre-blast and post-blast geo-technical survey of all structures of abutting properties and structures on the linear ledge stratum as deemed appropriate by the City Engineer. The developer shall not be required to conduct surveys of any structure where entry is not reasonably provided within 14 days written notifications to the property owner by the developer. A licensed structural engineer shall be present at the pre-blast and post-blast surveys and attest the report of each.
- c. The developer, at his expense, will engage a qualified professional blasting consultant to monitor all blasting activities and to establish procedures and charge levels necessary to minimize vibration to adjacent structures and in the presence of and in conformance with the recommendations of the blasting consultant.
- d. No blasting shall occur without notifying the City Engineer, Department of Public Works, at least 48 hours prior to the scheduled blasting. All blasting shall only occur during weekday work hours of 8 am – 4:30 pm.
- e. The blasting company shall carry an insurance policy in this project of an amount sufficient to insure damage on properties, structures and contents of surveyed properties. Said policy shall remain in effect for a period of no less than six months following completion of blasting. The developers shall not be released of any liability should vibration caused by blasting result in damage to nearby structures. A certificate of insurance must be filed with the Department of Public Works at least 48 hours prior to the scheduled blasting.



- f. All blasting will be done at lowest detonation levels practical and feasible, and in those locations where other methods of excavation cannot be reasonably utilized.
- g. A performance bond or letter of credit – in the amount to be determined by staff – shall be provided by the developer if deemed necessary by the Department of Public Works.
- h. The point of contact for any issues raised regarding blasting shall be the City Engineer or a designated representative if he/she is away. At the request of the City Engineer, blasting shall cease immediately upon instruction if determined to be necessary based upon complaints of breach of the accepted blasting plan.
- i. If instructed by the City Engineer, jack hammering shall be substituted for blasting.
- j. Developer shall notify affected property owners included in the survey of filing and acceptance of the blasting plan.
- k. Contractor is liable for Department of Public Works inspection fees. For information on those fees, please contact the Excavation Inspector at 802.863.9094.

## BLAST PLAN

The blasting for this project will be done in a safe and efficient manner. The contractor shall employ personnel who are highly trained and very competent in controlled blasting techniques. They shall have access to equipment and technology ranging from the most basic to the most advanced in the industry and, will choose from this stock, that which will meet the needs of this project.

The equipment used will be a sequential timing system (blasting machine, sequential board, galvanometer, multimeter, etc.) to monitor the blasting, a DS-377 or a DS-477 InstanTel or Blastmate II seismograph will be used. This will monitor ground vibration, airblast and wave frequencies.

All explosives, blasting agents, and initiation devices will be stored during the day in truck magazines. Magazines will be kept locked at all times, except when materials are removed for use at the blast site. Detonators will be isolated from the explosives by a separate compartment designed to IME SLP No. 22 Standards. The vehicles having explosives will be equipped with warning placards and fire extinguishers.

All work will be conducted in compliance with all applicable VOSHA requirements related to blasting, N.F.P.A. No. 295

## PRE-BLAST INSPECTION PROCEDURES

The contractor shall conduct pre-blast inspections on all adjacent properties.

Inspections cover existing conditions and include cosmetic as well as structural findings. Attempts are made to gain access to the structure for a survey of the interior. If unsuccessful, an exterior survey is completed. These inspections are for the benefit of the property owners as well as the contractors.

The blast design will be the responsibility of an experienced, trained, and licensed blasting foreman. This person will select shot pattern, diameter and depth of holes, required stemming, delay pattern and amount and type of explosives to control displacement, fragmentation, vibration and airblast. Personnel on the shot will be kept to a minimum and limited to the blasting crew who work under the direction of the blaster in charge.

The blasting equipment will be of the first quality and kept in good repair in order to safely and efficiently load, cover, and detonate the explosives in the bore holes.

This normally includes:

- Blasting multimeter or blasters galvanometer
- Non-metallic measuring tapes
- Non-sparking or wooden tamping poles
- Mirrors
- Friction tape
- Connecting wire
- Lead line
- Power source (REO 175 ST BM, pegboard)
- Blasting mats

All shots will be fired as soon as possible after loading is completed. Blasts will be scheduled so that exposure time of a loaded shot is kept to a minimum. A standard procedure to clear the blast area of all personnel and equipment, block roads, and post guards to access ways into the blast area, will be enforced. A blast-warning signal audible within  $\frac{1}{4}$  mile will be used. Normally three warning signals at 5 minutes prior to the blast, two signals at 1 minute prior, and one signal immediately following the shot for an all clear. Roads leading to the site will be marked with warning signs showing that blasting operations are being conducted.

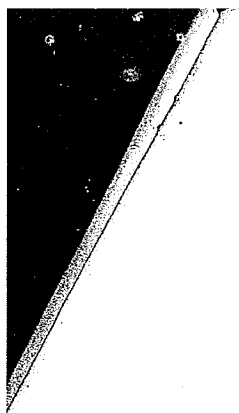
### Drilling Procedures:

Hole diameter, spacing, burden, delay, pattern, explosives to be used, and distribution in a typical hole, shall be determined upon completion of test blast operations.

### Blasting Personnel:

All blasting operations shall be conducted by experienced, trained, and competent persons who understand the hazards involved. Persons working with explosive materials shall:

1. Have demonstrated a knowledge of, and a willingness to comply with, safety and security requirements.
2. Be capable of using sound judgment in all situations.

- 
3. Be in good physical condition and not addicted to or under the influence of intoxicants, narcotics, or other similar types of drugs. Any of the previously mentioned substances are banned from any blasting site.
  4. Possess current knowledge of the Local, State, and Federal laws and regulations applicable to this work.
  5. Have obtained a certificate of completion of training and qualification as required by State law.

### Blasting Procedures:

1. All blasting shall be conducted only during the daytime hours, Monday thru Friday, 8 am - 4:30 pm.
2. Blasting may not be conducted at times different from those announced in the blasting schedule except in emergency situations where rain, lightning, other atmospheric conditions, or public safety requires unscheduled detonation. Any deviations from the approved blasting plan with regards to time of blasts shall be approved by the City Engineer or their designee prior to blasting.
3. Warning and all clear signals of different character that are audible within a range of  $\frac{1}{4}$  mile from the point of the blast shall be given. All persons within the permit area shall be notified of the meaning of the signals through appropriate instructions and signs posted. All persons on the site shall utilize the appropriate safety equipment, including but not limited to hard hats and ear plugs.
4. Access to the blasting area shall be regulated to protect the public from the effects of blasting. Access to the blasting area shall be controlled to prevent unauthorized entry at least 10 minutes before each blast and until the permittee's authorized representative has determined that travel in or through the area can safely resume.
5. Areas in which charged holes are awaiting firing shall be guarded, barricaded, and posted, or flagged against unauthorized entry.
6. All blasts shall be made in the direction of the stress relieved face previously marked out or previously blasted.
7. All stemming shall be  $\frac{3}{8}$ " clean, dry crushed stone.

8. Blasting mats will be used when there is not sufficient overburden to hold down the blast.

### Blasting Record:

A record of each blast, including seismograph reports, shall be retained for at least 3 years and shall be available for inspection by the public on request. The record shall contain the following data:

1. Name of permittee, operator, or other person conducting the blast.
2. Location, date, and time of blast.
3. Name, signature, and license number of blaster in charge.
4. Direction and distance, in feet, to nearest dwelling, school, church, commercial, or institutional building (either) owned or leased by the permittee.
5. Weather conditions.
6. Type of material blasted.
7. Number of holes, burden, spacing, and stemming.
8. Diameter and depth of holes.
9. Types of explosives used.
10. Total weight of explosives used.
11. Maximum weight of explosives detonated within any 8-millisecond period.
12. Methods of firing and type of circuit.
13. If mats or other protections were used.
14. Type of delay detonator used, and delay periods used.
15. Seismograph records including:

- a. Seismograph reading, including exact location of seismograph, and its distance from the blast.
- b. Name, Address, & Telephone number of the person taking the seismograph reading.

THE CONTRACTOR SHALL USE THE STATE CODE FOR DETERMINING THE MAXIMUM WEIGHT OF EXPLOSIVES, IN POUNDS, THAT CAN BE DETONATED IN ANY 8 MILLISECOND PERIOD, UNLESS OTHERWISE DIRECTED.

ALL BLASTING SHALL BE MONITORED USING TWO APPROVED SEISMOGRAPHS TO INSURE A MAXIMUM PARTICLE VELOCITY OF 2.0 INCHES PER SECOND MEASURED AT THE NEAREST ADJACENT STRUCTURE.

THE CONTRACTOR'S DULY DELEGATED OFFICER SHALL INSURE COMPLIANCE WITH THE REQUIREMENTS OF THIS REPORT.



## **Proposed Amendment to DRB Bylaws:**

Development Review Board December 18, 2018

Proposed additional language underlined.

---

### **Section XIII: Administrative Review.**

The DRB hereby authorizes administrative review in addition to that which is already provided for in the Comprehensive Development Ordinance per Sec. 3.2.7 (b) *Further Delegation by the Development Review Board* for the following application types:

1. De minimus telecommunications facilities
2. Landscaping projects and regular turf maintenance including cutting, filling, re-grading, and reseeded that do not involve the construction of new buildings.
3. New single family homes under a PUD approval that conform to design templates reviewed and approved by the DRB, including those subject to design review.
4. New single family homes proposed as replacements for existing manufactured homes within the North Avenue Cooperative 1106 North Avenue (formerly Farrington's Trailer Park) consistent with the requirements of Section 5.4.12 Mobile Home Parks.
5. Any Level II zoning permit application within the NAC-Cambrian Rise (NAC-CR) zoning district that is not subject to Major Impact or Conditional Use review (Article 3, Part 5), Article 10 (Subdivision review), Article 11 (Planned Unit Development) or include any parking waiver.

If an application is submitted for such application type that results in substantial adverse impact under any of the standards set forth in the CDO, it shall not be eligible for administrative review under this section. Further, no amendment issued as an administrative review shall have the effect of substantively altering any DRB decision and related conditions of approval.

## Department of Planning and Zoning

149 Church Street  
Burlington, VT 05401  
Telephone: (802) 865-7188  
(802) 865-7195 (FAX)  
(802) 865-7142 (TTY)

David White, FAICP, Director  
Meagan Tuttle, AICP, Comprehensive Planner  
Jay Appleton, GIS Manager  
Scott Gustin, AICP, CFM, Principal Planner  
Mary O'Neil, AICP, Principal Planner  
Ryan Morrison, Associate Planner  
Layne Darfler, Planning Technician  
Shaleigh Draper, Zoning Clerk



**TO:** Development Review Board  
**FROM:** Scott Gustin  
**DATE:** December 18, 2018  
**RE:** 19-0395CA/CU; 65 Oakledge

=====

**Note: These are staff comments only; decisions on projects are made by the Development Review Board, which may approve, deny, table or modify any project. THE APPLICANT OR REPRESENTATIVE MUST ATTEND THE MEETING.**

Zone: WRL Ward: 5S

Owner/Applicant: 65 Oakledge Trust / Birdseye (Brian Mac)

**Request:** Construct new single family home, associated site improvements included.

### **Applicable Regulations:**

Article 3 (Applications, Permits, and Project Reviews), Article 4 (Maps & Districts), Article 5 (Citywide General Regulations), Article 6 (Development Criteria & Guidelines), Article 8 (Parking)

### **Background Information:**

The applicant is seeking approval to construct a new single family home on a presently vacant waterfront lot. The prior home was demolished this past summer under separate permit. The existing boathouse will be added onto, and the driveway will be reworked. An accessory dwelling unit (AKA "nanny suite") is also included. The ADU, as new construction, is subject to conditional use review. The parcel is largely affected by the lakeshore's Riparian & Littoral Conservation Zone, and it has a small unmapped wetland onsite.

The Design Advisory Board reviewed this application November 13, 2018. The Board unanimously recommended approval of the project subject to the following conditions:

1. Correct the application to include accessory apartment (i.e. the nanny suite) and related conditional use review.
2. The "guest" parking spaces must be relocated in compliance with the front yard parking standards of Sec. 8.1.12 (c).
3. No exterior signage, or related lighting, is included in this approval.
4. All exterior mechanical equipment, if proposed, must be included on the plans and screened. Utility meters also must be noted and screened.
5. With respect to the garage, the DAB feels that the spirit of Sec. 6.2.2 (h) is satisfied. The garage doors do not face the street, and the requirement for street facing elements such as windows and other elements has been satisfied in addition to the living space above.

The application has been revised to expressly include the accessory dwelling unit. The applicant has clarified that no signage is included in the application. Only a street address is proposed. Revised plans depict utility meter location and generator location with screening. The applicant prefers to retain the parking configuration as originally proposed, and (with the DAB's concurrence) wishes to keep the garage as originally proposed as well.

The Conservation Board reviewed this application December 5, 2018. Substantial discussion focused on the proposed blasting for the new building foundation and basement area. Ultimately, the Board unanimously recommended approval of the project with the following conditions:

1. Conduct a phase 1 environmental site assessment for pollutants in and under the soil.
2. Conduct a radon survey in neighboring dwellings pre- and post-blasting.
3. Assess potential blast influence on terrestrial and aquatic wildlife.

The Conservation Board noted that if there's a "red flag" as to any of these conditions, the project is to return to the Conservation Board for additional review.

Items have been submitted to address each of the Conservation Board's conditions.

Previous zoning actions for this property are noted below:

- 5/4/18, Approval to demolish existing home
- 12/5/17, Approval of lot line adjustment
- 7/9/09, Approval to replace boathouse roof with flat deck and railing
- 5/10/90, Approval to construct a duplex and related site improvements

**Recommendation:** Certificate of appropriateness and conditional use approval as per, and subject to, the following findings and conditions.

## **I. Findings**

### **Article 3: Applications, Permits, and Project Reviews:**

#### ***Sec. 3.3.2, Applicability***

The proposed home is subject to this criterion per the provisions of *Part 3: Impact Fees* of Article 3. As the new home is larger than the prior home, impact fees due will be based on the net increase in square footage. **(Affirmative finding as conditioned)**

#### ***Part 5, Conditional Use & Major Impact Review:***

##### **Section 3.5.6 (a) Conditional Use Review Standards**

*Approval shall be granted only if the DRB, after public notice and public hearing, determines that the proposed conditional use and associated development shall not result in an undue adverse effect on each of the following general standards:*

1. *Existing or planned public utilities, facilities or services are capable of supporting the proposed use in addition to the existing uses in the area;*

The property is served by municipal utilities. Sufficient water and sewer service are available. A State of Vermont wastewater permit will be required. A capacity letter issued by the Dept. of Public Works will be required prior to issuance. **(Affirmative finding as conditioned)**

2. *The character of the area affected as defined by the purpose or purposes of the zoning district(s) within which the project is located, and specifically stated policies and standards of the municipal development plan;*

The property is located within an established residential neighborhood in the waterfront low density residential zoning (W-RL) district. The W-RL zoning district is intended primarily for low-density residential development in the form of single detached dwellings and duplexes with consideration given to design review. The proposed accessory dwelling unit is consistent with this intent. The MDP provides the following support:

- Support the development of additional housing opportunities within the city... (MDP, Housing Plan, Page IX-1.
- Support the creation of new rental and owner-occupied housing on every parcel of land in Burlington that is zoned for residential development at the number of units allowed by zoning. (MDP, Housing Plan, Page IX-12.) **(Affirmative finding)**

3. *The proposed use will not have nuisance impacts from noise, odor, dust, heat, and vibrations greater than typically generated by other permitted uses in the same zoning district;*

The proposed apartment is not expected to generate nuisance impacts from noise, odor, dust, and the like that may be more typically associated with industrial uses. **(Affirmative finding)**

4. *The transportation system is capable of supporting the proposed use in addition to the existing uses in the area. Evaluation factors include street designations and capacity; level of service and other performance measures; access to arterial roadways; connectivity; transit availability; parking and access; impacts on pedestrian, bicycle and transit circulation; safety for all modes; and adequate transportation demand management strategies;*

No traffic analysis has been provided or is required for this application. The proposed accessory apartment is expected to generate minimal additional traffic. **(Affirmative finding)**

*and,*

5. *The utilization of renewable energy resources;*

The proposed home and apartment will utilize geothermal heating and cooling. Solar energy has also been considered but has not yet been included. **(Affirmative finding)**

*and,*

6. *Any standards or factors set forth in existing City bylaws and city and state ordinances;*

City building and energy efficiency codes will apply as conditioned.

(b) Major Impact Review Standards  
Not applicable.

(c) Conditions of Approval:

*In addition to imposing conditions of approval necessary to satisfy the General Standards specified in (a) or (b) above, the DRB may also impose additional conditions of approval relative to any of the following:*

*1. Mitigation measures, including but not limited to screening, landscaping, where necessary to reduce noise and glare and to maintain the property in a character in keeping with the surrounding area.*

The proposed apartment is not expected to produce offsite noise or glare substantial enough to require mitigation. **(Affirmative finding)**

*2. Time limits for construction.*

No construction timeline or phasing are included in the project plans. The standard 2-year timeframe for zoning permits will apply. **(Affirmative finding)**

*3. Hours of operation and/or construction to reduce the impacts on surrounding properties.*

Hours of operation are not applicable to this residential use.

Construction hours are not noted in the application. Typical construction hours are Monday – Friday from 7:00 AM – 5:00 PM. Saturday construction may be allowed upon request. No work on Sunday. **(Affirmative finding as conditioned)**

*4. That any future enlargement or alteration of the use return for review to the DRB to permit the specifying of new conditions; and,*

Any future enlargement or alteration will be reviewed under the zoning regulations in effect at that time.

*5. Such additional reasonable performance standards, conditions and safeguards, as it may deem necessary to implement the purposes of this chapter and the zoning regulations.*

See the recommended conditions.

#### **Article 4: Maps & Districts**

##### **Sec. 4.4.5, Residential Districts:**

###### **(a) Purpose**

###### **(2) Waterfront Residential Low Density (W-RL)**

The subject property is located in the W-RL zone. This zone is intended primarily for low density residential development in the form of single detached dwellings and duplexes with consideration given to design review. The proposed single family home with ADU is consistent with this purpose. **(Affirmative finding)**

###### **(b) Dimensional Standards & Density**

The 1 residential unit on the 1.7 acre lot is acceptable and far below the 7 units/acre density limit. The ADU does not count towards residential density.

Lot coverage will increase to 24% but will remain below the 35% limit.

The lot is irregularly shaped. It has a front yard setback facing Oakledge Drive and a waterfront setback along the lake. The rest of the property lines are sides for the purposes of setbacks. The home is set back 75' from the front property line. The front yard setback/build-to line is ~ 130' +/-

5'. The prior home; however, was set back just 55' from the front property line. As a result, the proposed 75' setback is acceptable as a lessened degree of nonconformity. The site plan notes a 200' front yard setback but scales correctly to 75.' This item is in need of correction. The minimum required side yard setback of 10% of the lot width (up to 20') varies with the irregular parcel boundaries. The site plan depicts a uniform 20' side yard setback which is sometimes more than the minimum required but is compliant in any event. The standard lakeshore setback is 75;' however, there is provision for allowing encroachment up to the average of neighboring homes (see subsection d, 1, B below). The proposed home is set well beyond 75.' The addition to the boathouse and some site improvements utilize the average lakeshore setback of 27.'

The proposed home is between 30' and 31' as measured to the midpoint of the roof rise. This height is below the 35' height limit. **(Affirmative finding as conditioned)**

### ***(c) Permitted & Conditional Uses***

The proposed single family home is a permitted use in the W-RL zone. The ADU is subject to conditional use review. **(Affirmative finding)**

### ***(d) District Specific Regulations***

#### ***1. Setbacks***

*B. Encroachment into the Waterfront Setback.*

#### ***(ii) Averaging of Setbacks of Existing Structures***

This provision allows new construction to encroach into the standard waterfront setback based on the average setbacks of neighboring homes within 150.' In this case, onsite survey data result in an average setback of 27.' As noted above, the boathouse addition and some site improvements observe this lessened setback requirement. **(Affirmative finding)**

#### ***2. Height***

No height bonuses are being sought. **(Not applicable)**

#### ***3. Lot Coverage***

No lot coverage bonuses are being sought. **(Not applicable)**

#### ***4. Accessory Residential Structures and Uses***

*C. Private garages shall be limited to as many stalls as there are bedrooms in the dwelling to which it is accessory, provided that the ground floor area is less than 75% of the ground floor area of the principle structure.*

The attached garage contains room for three parking spaces. The proposed home appears to have 7 bedrooms, including the ADU, guest quarters, and the primary dwelling. **(Affirmative finding)**

#### ***5. Residential Density***

The home shall be occupied by a "family" as defined in the Comprehensive Development Ordinance. **(Affirmative finding)**

#### ***6. Uses***

No neighborhood commercial use is included in this proposal. **(Not applicable)**

#### ***7. Residential Development Bonuses***

No development bonuses are being sought. **(Not applicable)**



**Sec. 4.5.4, Natural Resource Protection Overlay (NR) District**

**(c) District Specific Regulations: Riparian and Littoral Conservation Zone**

The subject property is largely affected by the Riparian and Littoral Conservation Zone (250' width from the 100' lakeshore elevation). This overlay zone limits the clearing of trees over 6" caliper and new stormwater outfalls. Of 69 trees over 6" caliper within the overlay zone, 16 will be removed. This extent is within the permissible 25% limit. No new stormwater outfalls are proposed; however, new onsite stormwater management is proposed. A series of catch basins and a new rain garden are proposed for the collection and attenuation of stormwater runoff. The Conservation Board reviewed the proposal and expressed no concerns. Final review and approval by city stormwater program staff is required. **(Affirmative finding as conditioned)**

**(f) District Specific Regulations: Special Flood Hazard Area**

This lakeshore property is partially affected by the special flood hazard area (SFHA). All areas along the lakeshore under the 102' elevation are within the SFHA. No part of the proposed construction is located within the SFHA. **(Affirmative finding)**

**Article 5: Citywide General Regulations**

**Sec. 5.2.3, Lot Coverage Requirements**

See Sec. 4.4.5 (b) above.

**Sec. 5.2.4, Buildable Area Calculation  
(Not applicable)**

**Sec. 5.2.5, Setbacks**

See Sec. 4.4.5 (b) above.

**Sec. 5.2.6, Building Height Limits**

See Sec. 4.4.5 (b) above.

**Sec. 5.2.7, Density and Intensity of Development Calculations**

See Sec. 4.4.5 (b) above.

**Sec. 5.4.5, Accessory Dwelling Units**

**(a) Accessory Units, General Standards/Permitted Uses**

*Where there is a primary structure on a lot which exists as an owner-occupied single family residence, one accessory dwelling unit, that is located within or appurtenant to such single family dwelling, shall be allowed as a permitted use if the provisions of this subsection are met. An accessory dwelling unit means an efficiency or one bedroom apartment that is clearly subordinate to the primary dwelling, and has facilities and provisions for independent living, including sleeping, food preparation, and sanitation. No accessory unit shall be inhabited by more than 2 adult occupants. An accessory unit shall not be counted as a dwelling unit for the purposes of density calculation.*

The proposed apartment is accessory to the primary single family dwelling and is laid out as a single bedroom unit. **(Affirmative finding)**

*Additionally, there must be compliance with all the following:*

1. *The property has sufficient wastewater capacity as certified by the Department of Public Works;*

The applicant shall obtain a letter of adequate capacity from DPW for wastewater.

**(Affirmative finding as conditioned)**

2. *The unit does not consist of more than 30 percent of the total habitable floor area of the building, inclusive of the accessory dwelling unit;*

The accessory dwelling unit will be 662 sf. An exact total area of the primary residence is not provided, but it is on the order of 10,000 sf. The apartment is ~ 6.5% of the total area.

**(Affirmative finding)**

3. *Applicable setback and coverage requirements are met;*

See Article 4.

4. *One additional parking space which may be legally allocated to the necessary unit must be provided for the accessory unit;*

One onsite parking space will be provided for the accessory apartment. **(Affirmative finding)**  
and

5. *A deed or instrument for the property shall be entered into the land records by the owner containing a reference to the permit granting the accessory unit prior to the issuance of the certificate of occupancy for the unit. Such reference shall identify the permit number and note that the property is subject to the permit and its terms and conditions including owner occupancy. No certificate of occupancy shall be issued for the unit unless the owner has recorded such a notice.*

This provision will be included as a condition of approval. **(Affirmative finding)**

### **(c) Discontinuance of Accessory Units**

*Approval of an accessory dwelling unit is contingent on owner occupancy of the single-family dwelling unit as a primary residence. For purposes of this section, owner occupancy means that, after the creation of the accessory unit all individuals listed on the deed for the property must reside in the primary unit or in the accessory unit. If either the primary unit or the accessory unit is no longer owner occupied as a primary residence, the approval for the accessory dwelling unit is void and the kitchen of the accessory dwelling unit must be removed within 90 days with the entirety of the property being occupied as a single unit. When an accessory unit that is the result of additional square footage and/or a new accessory structure is proposed to be removed, revised floor plans and a revised site plan shall be required to be submitted for review and approval. Furthermore, where additional square footage is added to a single family home for purposes of creating an accessory unit and the accessory unit is at any point discontinued, none of the additional square footage shall be eligible for the purposes of increasing the number of unrelated adults that may be allowed to inhabit the property.*

As with A. 5 above, this provision will be included as a condition of approval. **(Affirmative finding)**

### **Sec. 5.5.1, Nuisance Regulations**

Nothing in the proposal appears to result in creating a nuisance under this criterion. **(Affirmative finding)**

#### ***Sec. 5.5.2, Outdoor Lighting***

New outdoor lighting is included in the project design. Building entries, walkways, and circulation areas will be illuminated. Two landscaping accent lights will be installed within two trees. The noted “sign” light at the top of the driveway is to illuminate the address numbers on the accent wall. This illumination is acceptable; however, it must be adjusted to be down-lit rather than up. Acceptable LED lantern fixtures will be used in all cases. **(Affirmative finding as conditioned)**

#### ***Sec. 5.5.3, Stormwater and Erosion Control***

A stormwater management plan and an erosion prevention and sediment control plan have been submitted as required. Both are subject to final review and approval by city stormwater program staff. **(Affirmative finding as conditioned)**

### **Article 6: Development Review Standards**

#### ***Part 1, Land Division Design Standards***

Not applicable.

#### ***Part 2, Site Plan Design Standards***

##### ***Sec. 6.2.2, Review Standards***

###### ***(a) Protection of important natural features***

The property contains a mix of open and wooded areas. Mature trees are concentrated along the lakeshore. Shrubs and additional trees help to define the side property lines. Almost the entire property is affected by the riparian and littoral conservation zone. This overlay restricts tree clearing and also requires stormwater management. Limited tree clearing is planned, and substantial new plantings are proposed. The stormwater management plan has been provided to the city’s stormwater program staff.

An assessment of blasting effects on aquatic and terrestrial wildlife has been performed. Not surprisingly, most of the available literature focuses on large scale blasting activities such as that related to mining. The proposed blasting is small in scale by comparison. While blasting procedures are addressed under Department of Public Works’ standards, it bears noting that the applicant proposes to limit vibration, noise, and debris with limited charges and use of blast mats. According to the assessment provided, the proposed measures will limit effects on nearby terrestrial and aquatic wildlife. **(Affirmative finding)**

###### ***(b) Topographical alterations***

The property slopes gently towards the lake. No significant topographic alterations are proposed. The new home will be situated approximately where the prior home had been.

While site topography will remain largely as is, blasting is proposed in order to make room for a proposed basement. Since review by the Conservation Board, the size of the basement has been substantially reduced, thereby reducing the amount of blasting necessary. As noted above, the Department of Public Works’ drilling and blasting standards will apply. As recommended by the Conservation Board, pre- and post-blasting surveys of neighboring homes should include radon assessment. **(Affirmative finding as conditioned)**

*(c) Protection of important public views*

The subject property is not affected by any identified public view corridor. The proposed home is relatively large; however, it is set far back from the nearest public road. Mature lakeshore vegetation will remain in place and will lessen the home's visibility from the lake. **(Affirmative finding)**

*(d) Protection of important cultural resources*

The property is within an archaeologically sensitive area; however, there are no specifically identified archaeological sites on the property. This archaeological sensitivity stems from the property's lakeshore location. If, during construction, artifacts are unearthed, it is the applicant's responsibility to stop earthwork and to contact the Vermont Division for Historic Preservation for further guidance. **(Affirmative finding as conditioned)**

*(e) Supporting the use of alternative energy*

Geothermal heating and cooling is incorporated into the project design. The proposed home will not adversely impact the actual or potential use of alternative energies by neighboring properties. **(Affirmative finding)**

*(f) Brownfield sites*

The subject property is not an identified brownfield. Given the proposed blasting and its potential impact on the hydrology of the site, the Conservation Board recommended that a phase 1 environmental site assessment be conducted. Such assessment has been completed and submitted for review. There is no evidence indicating the presence of any recognized environmental condition (i.e. contaminants). **(Affirmative finding)**

*(g) Provide for nature's events*

As total lot coverage will exceed 2,500 sf, a residential stormwater plan has been provided. All of the impervious surface associated with this project is disconnected from the municipal stormwater system. Onsite management measures include new catch basins with related piping to direct runoff into a new rain garden. A small portion of green roof is also proposed. As noted above, the city's stormwater program will review the proposed stormwater management.

The front entrance into the home is sheltered, and ample room is available onsite for seasonal snow storage. **(Affirmative finding as conditioned)**

*(h) Building location and orientation*

As noted above, the new home, although substantially larger than the home it replaces, is set in approximately the same location as the prior home. The primary façade faces the private Oakledge Drive with a clearly identifiable front entrance.

The garage is set back more than the minimum required 25' from the road; however, it is not set behind the front plane of the home as required. Although the DAB felt that the layout is acceptable, the wording of this standard is mandatory rather than optional: "A parking structure – either attached or detached – shall be setback from the longest street-facing wall of the principal structure and be deferential yet consistent in character and design." Adjustment is necessary; however, the applicant wishes to retain the present layout. The garage doors do not face the street. Therefore, limitations as to width do not apply. **(Adverse finding if unchanged. Affirmative finding as conditioned if revised per the standard.)**

*(i) Vehicular access*

A private driveway will continue to provide adequate access to the home. It will access the attached garage and surface parking to the side. Note that two “guest parking” spaces are located within the front yard setback and cannot be approved. They must be provided at least behind the front plane of the home or further back from the front property line. The applicant wishes to retain the present layout. **(Adverse finding if unchanged. Affirmative finding as conditioned if revised per the standard.)**

*(j) Pedestrian access*

This criterion requires provision of a walkway connecting the front entry to the public sidewalk. In this case, there is no public sidewalk or public road to connect to. Given that Oaklege Drive basically ends as the driveway to the new home, provision of a walkway in any event may prove unwarranted. **(Affirmative finding)**

*(k) Accessibility for the handicapped*

No handicap accessibility is evident or required with this proposal. **(Affirmative finding)**

*(l) Parking and circulation*

The attached garage contains sufficient space for the two parking spaces required for the single family home. The “nanny suite” requires its own parking space and may be accommodated within the proposed parking configuration. Two additional surface parking spaces for guests are proposed. As noted above, they are located within the front yard setback. **(Adverse finding if unchanged. Affirmative finding as conditioned if revised per the standard.)**

*(m) Landscaping, fences, and retaining walls*

Clearing limits are depicted, and a tally of existing trees and those to be removed has been provided (69 and 16, respectively). Most mature vegetation will be retained. Extensive new plantings are proposed and include a variety of new trees and shrubs along with perimeter gardens and a new rain garden. The proposed landscaping helps to define spaces within the property and to enhance the visual appeal of the proposed home.

An existing seawall will be retained and refinished. Two new retaining walls along the northern and southern property lines will be installed and enhanced with associated plantings. Several “boardform” concrete accent walls are also proposed. **(Affirmative finding)**

*(n) Public plazas and open space*

No public plaza or open space is included or required in this proposal. **(Not applicable)**

*(o) Outdoor lighting*

See Sec. 5.5.2.

*(p) Integrate infrastructure into the design*

New utility lines must be buried. The site plan notes an exterior generator set to the side of the home and within a landscaped area. Two buried propane tanks will fuel the generator. No ground-mounted mechanical equipment such as AC condensers are proposed. Utility meters are noted and are appropriately located back from the front faced of the building. **(Affirmative finding)**

### ***Part 3, Architectural Design Standards***

#### ***Sec. 6.3.2, Review Standards***

##### ***(a) Relate development to its environment***

###### ***1. Massing, Height, and Scale***

The proposed home is significantly larger than the home it replaces. Compared to its neighbors, the prior home was relatively small. The surrounding built environment consists of fairly large single family homes on large lots. The new home will be one of the larger homes in the neighborhood. Overall massing of the structure is broken into several distinct sections, thereby diminishing the perceived mass of the building. Fenestration and differing exterior finishes add further dimension to the building's otherwise sleek, uniform design. Building height is compliant at ~ 30 - 31'.

Note that the existing boathouse will be expanded with a small rear addition. Its scale remains clearly subordinate to the primary residence and massing remains simple and rectangular.

**(Affirmative finding)**

###### ***2. Roofs and Rooflines***

Roof forms are generally gable. Several minor roof sections are flat. The gable roof form is common among residential structures, including the homes within this neighborhood.

**(Affirmative finding)**

###### ***3. Building Openings***

The fenestration is clean and simple. Style is consistent throughout the building. Some variation is achieved with installation of wooden "screens" in front of some windows. Not surprisingly, glazing is most concentrated along the home's lakeshore elevation. **(Affirmative finding)**

##### ***(b) Protection of important architectural resources***

The new home is to be constructed on a vacant lot. It will not adversely impact Burlington's wealth of historic buildings. **(Affirmative finding)**

##### ***(c) Protection of important public views***

See 6.2.2 (c) above.

##### ***(d) Provide an active and inviting street edge***

As noted previously, the front entry to the proposed home is clearly articulated. The building design is intentionally uncluttered. Fenestration and variation in cladding preclude large blank walls or expanses of roof. While there is little in the way of street frontage for this property, the south-facing façade successfully presents an active and inviting primary elevation. **(Affirmative finding)**

##### ***(e) Quality of materials***

The proposed home will be clad entirely in wooden board siding. Variation in finish, orientation, and configuration are proposed. Metal-framed windows will be installed throughout.

**(Affirmative finding)**

##### ***(f) Reduce energy utilization***



The proposed building must comply with the current energy efficiency standards of Burlington and the State of Vermont. **(Affirmative finding as conditioned)**

*(g) Make advertising features complimentary to the site*

No advertising is included in this proposal.

*(h) Integrate infrastructure into the building design*

Utility meters are noted. Mechanical equipment will be located within the building interior.

**(Affirmative finding)**

*(i) Make spaces safe and secure*

The proposed building must comply with the city's current egress requirements. Building entries will be illuminated. **(Affirmative finding as conditioned)**

## **Article 8: Parking**

### **Sec. 8.1.8, Minimum Off-Street Parking Requirements**

The property is located in the Neighborhood Parking District. As such, two parking spaces are required (2 spaces per dwelling unit) for the primary dwelling unit. The accessory dwelling unit requires 1 more space for a total of 3 spaces. As noted previously, the garage and driveway contain sufficient space for the required parking spots. **(Affirmative finding)**

## **II. Conditions of Approval**

1. **Prior to release of the zoning permit**, revised plans shall be submitted, subject to staff review and approval. Revised plans shall address the following:
  - a. A wastewater capacity letter must be obtained from the Department of Public Works;
  - b. The garage must be set behind the front plane of the home's southern façade;
  - c. The "guest" parking spaces must be relocated in compliance with the front yard parking standards of Sec. 8.1.12 (c);
  - d. The front yard setback notation shall be corrected; and,
  - e. Illumination of the street address on the accent wall at the top of the driveway shall be revised so as to be from above rather than from below.
2. At least **seven (7) days prior to issuance of a certificate of occupancy**, impact fees based on the net new residential square footage shall be paid to the Department of Planning & Zoning.
3. Permitted days and hours of construction are Monday – Friday from 7:00 AM – 5:00 PM. Saturday construction may be allowed upon request. No work on Sunday.
4. The accessory dwelling unit shall be occupied by no more than 2 adults.
5. A deed or instrument for the property shall be entered into the land records by the owner containing a reference to the permit granting the accessory unit **prior to the issuance of the certificate of occupancy** for the unit. Such reference shall identify the permit number and note that the property is subject to the permit and its terms and conditions including owner occupancy. No certificate of occupancy shall be issued for the unit unless the owner has recorded such a notice.
6. Approval of an accessory dwelling unit is contingent on owner occupancy of the single-family dwelling unit as a primary residence. For purposes of this section, owner occupancy means that, after the creation of the accessory unit all individuals listed on the

deed for the property must reside in the primary unit or in the accessory unit. If either the primary unit or the accessory unit is no longer owner occupied as a primary residence, the approval for the accessory dwelling unit is void and the kitchen of the accessory dwelling unit must be removed within 90 days with the entirety of the property being occupied as a single unit. When an accessory unit that is the result of additional square footage and/or a new accessory structure is proposed to be removed, revised floor plans and a revised site plan shall be required to be submitted for review and approval. Furthermore, where additional square footage is added to a single family home for purposes of creating an accessory unit and the accessory unit is at any point discontinued, none of the additional square footage shall be eligible for the purposes of increasing the number of unrelated adults that may be allowed to inhabit the property.

7. Pre- and post-blasting surveys of neighboring homes shall include radon assessment.
8. Any and all blasting activities shall adhere to the standards in the Department of Public Works' drilling and blasting procedures manual dated March 21, 2000.
9. If, during construction, artifacts are unearthed, it is the applicant's responsibility to stop earthwork and to contact the Vermont Division for Historic Preservation for further guidance.
10. Final approval of the EPSC and post construction stormwater management plans from the city's stormwater program staff is required.
11. No exterior signage is included in this approval.
12. A State of Vermont wastewater permit shall be obtained.
13. The Applicant/Property Owner is responsible for obtaining all necessary Zoning Permits and Building Permits through the Department of Public Works as well as other permit(s) as may be required, and shall meet all energy efficiency codes of the city and state as required.
14. Standard permit conditions 1-15.

**Scott Gustin**

---

**From:** Debra Lopez <[REDACTED]>  
**Sent:** Monday, November 19, 2018 11:32 AM  
**To:** Scott Gustin  
**Subject:** Conservation Board Questions

Hello Scott,  
I just left you a voicemail re: the following:

I'm a Burlington resident with concerns about plans for substantial blasting at 65 Oakledge Drive in Burlington. I'm the co-owner of 49 Oakledge Drive (under the name Ferlev), which adjoins 65 Oakledge Drive.

Our main questions are:

1. We assume these plan at 65 Oakledge Drive will be reviewed by the Conservation Board at the next meeting. Is this correct?
2. Should concerned neighbors attend the upcoming Conservation Board Meeting to register/discuss concerns with the Board?
3. Date & time of next Board Meeting.

thank you,  
Debra L. Gottesman  
PH: [REDACTED]

To: Burlington Development Review Board  
FR: Scott and Fran Rathke  
DT: December 12, 2018  
RE: 65 Oakledge Drive – December 18, 2018 meeting

**RECEIVED**  
DEC 12 2018

**DEPARTMENT OF  
PLANNING & ZONING**

Dear Members of Development Review Board,

We are neighbors of 65 Oakledge Drive and live at 33 Oakledge Drive. We have followed the permit process by which 65 Oakledge Drive has presented draft plans to the Design Advisory Board and the Conservation Board (CB). We have had good communication and cooperation with the owners/developers of 65 Oakledge Drive (65 Oakledge Trust) and have entered into an agreement whereby if they blast the pre-blast and post-blast geo-technical survey will include the scoping of our sewage pipes located at 33 Oakledge Drive. Please see attached executed agreement. For this 12/18 meeting, we request your support in including the steps outlined in this agreement as part of the blasting procedure.

We attended the 12/3/18 CB Meeting. As part of this meeting, we heard that there will 250 truckloads of excavated rock. This will:

- ☐ Be loud- both from the blasting noise itself, noise of rocks being loaded in the metal truck beds and the rock crushing equipment.
- ☐ These heavy trucks will impact our private road, Oakledge Drive and the newly resurfaced local public roads.

To mitigate the volume of excavated rock we suggest 65 Oakledge Trust consider a slab foundation like the adjacent properties.

To minimize the amount of excavated rock that leaves the site in dump trucks we ask that 65 Oakledge Trust to use the excavated rock in the landscaping. Proposed landscaping shown at the Design Advisory Board and CB meetings indicates free standing concrete walls, concrete retaining walls, monolithic bluestone steps and bluestone pavers. Adjacent properties use the onsite rock to create these landscaping features.

We also ask that 65 Oakledge Trust agree to repair any damage to Oakledge Drive due the trucks removing the excavated rock and construction process in general.

We have discussed the possibility of eliminating the basement and using the excavated rock in the landscaping with 65 Oakledge Trust and they indicated they are reviewing these changes. 65 Oakledge Trust also seem agreeable to repairing Oakledge Drive.

We have given a copy of this memo to 65 Oakledge Trust to continue our good communication and cooperation.

Thanks for your review and consideration,  
Scott and Fran Rathke

AGREEMENT BETWEEN SCOTT AND FRANCES RATHKE AND 65 OAKLEDGE TRUST

WHEREAS, 65 Oakledge Trust owns the property located at 65 Oakledge Drive, Burlington, VT 05401 and are referred to as the Developer ("Developer"). Scott and Frances Rathke own the property located at 33 Oakledge Drive, Burlington, VT 05401.

The parties agree that if the Developer will be blasting at 65 Oakledge Drive, Burlington, VT then the following will occur:

As per the City of Burlington, Department of Public Works, Drilling and Blasting Procedures Manual dated March 21, 2000 in Section 1. Blasting Procedure, paragraph b., the parties agree that the pre-blast and post-blast geo-technical survey will include the scoping of sewage pipes located at 33 Oakledge Drive where the blasting consultant will put a camera in the sewage pipes where the pipes drain to a sewage pump on the west side of the house and then run underneath the house and to where the pipes connect to the city line on the east side of Oakledge Drive. The parties agree that all costs incurred to perform these services will be paid by the Developer.

The Developer will provide Scott and Frances Rathke a copy of the pre and post sewage line scoping videos on a timely basis to allow inspection prior to blasting and after blasting.

All persons and Parties signing this Agreement have read the Agreement, and have signed this Agreement voluntarily and freely with the full understanding of its terms.

DATED at Burlington, VT this 5<sup>th</sup> day of December, 2018.

RECEIVED

DEC 12 2018

DEPARTMENT OF  
PLANNING & ZONING

65 OAKLEDGE TRUST

L. Stiller  
Trustee/Representative Signature

Laura Stiller  
Printed Name

DATED at Burlington, VT this 6<sup>th</sup> day of December, 2018.

[Signature]  
Scott Rathke

[Signature]  
Frances Rathke



BIRDSEYE 10/18/18



65 OAKLEDGE RESIDENCE  
BURLINGTON, VT

EXTERIOR VIEW FROM SOUTHEAST

| SHEET # | TITLE | 10.18.18 |
|---------|-------|----------|
|---------|-------|----------|

|             |             |   |
|-------------|-------------|---|
| 00. GENERAL |             |   |
| G000        | TITLE SHEET | X |
| G002        | ZONING      | X |

|           |                                              |   |
|-----------|----------------------------------------------|---|
| 01. CIVIL |                                              |   |
| C1.0      | EXISTING CONDITIONS SITE PLAN                | X |
| C1.1      | PROPOSED CONDITIONS SITE PLAN                | X |
| C1.2      | CONSTRUCTION AND OPERATIONAL STORMWATER PLAN | X |
| C2.0      | DETAILS                                      | X |
| C2.1      | DETAILS                                      | X |

|               |                                          |   |
|---------------|------------------------------------------|---|
| 02. LANDSCAPE |                                          |   |
| L000          | LANDSCAPE PLAN                           | X |
| L001          | ILLUSTRATIVE LANDSCAPE PLAN              | X |
| L100          | LANDSCAPE LAYOUT, MATERIALS, AND GRADING | X |
| L200          | PLANTING                                 | X |
| L300          | LANDSCAPE DETAILS                        | X |
| L301          | PLANTING DETAILS                         | X |

|                   |                              |   |
|-------------------|------------------------------|---|
| 04. ARCHITECTURAL |                              |   |
| A100              | LOWER FLOOR PLAN             | X |
| A101              | MAIN FLOOR PLAN              | X |
| A102              | UPPER FLOOR PLAN             | X |
| A103              | ROOF PLAN                    | X |
| A110              | BOATHOUSE PLANS              | X |
| A200              | EXTERIOR ELEVATION           | X |
| A201              | EXTERIOR ELEVATION           | X |
| A202              | EXTERIOR ELEVATION           | X |
| A210              | BOATHOUSE EXTERIOR ELEVATION | X |

| SHEET # | TITLE | 10.18.18 |
|---------|-------|----------|
|---------|-------|----------|

|      |                            |   |
|------|----------------------------|---|
| A300 | BUILDING SECTIONS          | X |
| A320 | WALL SECTION               | X |
| A800 | EXISTING CONDITIONS PHOTOS | X |
| A900 | ENTRY RENDERING            | X |
| A901 | REAR FACADE RENDERING      | X |
| A902 | LAKEFRONT RENDERING        | X |

OWNER  
**65 OAKLEDGE RESIDENCE**  
65 OAKLEDGE DRIVE  
BURLINGTON, VT 05401

ARCHITECT  
**BIRDSEYE**  
3104 HUNTINGTON ROAD  
RICHMOND, VT 05477  
(o) 802.434.3100

LANDSCAPE ARCHITECT  
**WAGNER HODGSON LANDSCAPE ARCHITECTS**  
7 MARBLE STREET  
BURLINGTON, VT 05401  
(o) 802.865.0010

STRUCTURAL ENGINEER  
**ENGINEERING VENTURES**  
208 FLYNN AVENUE  
BURLINGTON, VT 05401  
(o) 802.863.6225

CIVIL ENGINEERINGS  
**CIVIL ENGINEERING ASSOCIATES, INC.**  
10 MANSFIELD VIEW LANE  
SOUTH BURLINGTON, VT 05403  
(o) 802.864.2323

OWNER'S REPRESENTATIVE  
**RICHARD EASTMAN**  
1163 THOMPSON'S POINT ROAD  
CHARLOTTE, VT 05455  
(p) 802.355.4932

OWNER'S REPRESENTATIVE  
**BARDEN INSPECTION & CONSULTING SERVICES, INC.**  
196 BALDWIN ROAD  
HINESBURG, VT 05461  
(p) 802.482.6607

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE LOANED, REPRODUCED, COPIED, OR IN ANY MANNER USED FOR ANY OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTY, OTHER THAN THOSE EXPRESSLY AUTHORIZED BY CONTRACT. NOT FOR USE WITHOUT THE SPECIFIC WRITTEN AUTHORIZATION OF BIRDSEYE.

Issue / Revision Log  
10.18.2018 FOR PERMIT

FOR PERMIT

TIN  
TITLE SHEET

Sheet Number  
**G000**

SHEET LIST

CONSULTANT LIST



65 OAKLEDGE RESIDENCE  
BURLINGTON, VT

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTIES, OTHER THAN THOSE PROPERLY AUTHORIZED BY CONTRACT. NOT FOR USE WITHOUT THE SPECIFIC WRITTEN AUTHORIZATION OF BRIDSEYE.

Issue / Revision Log

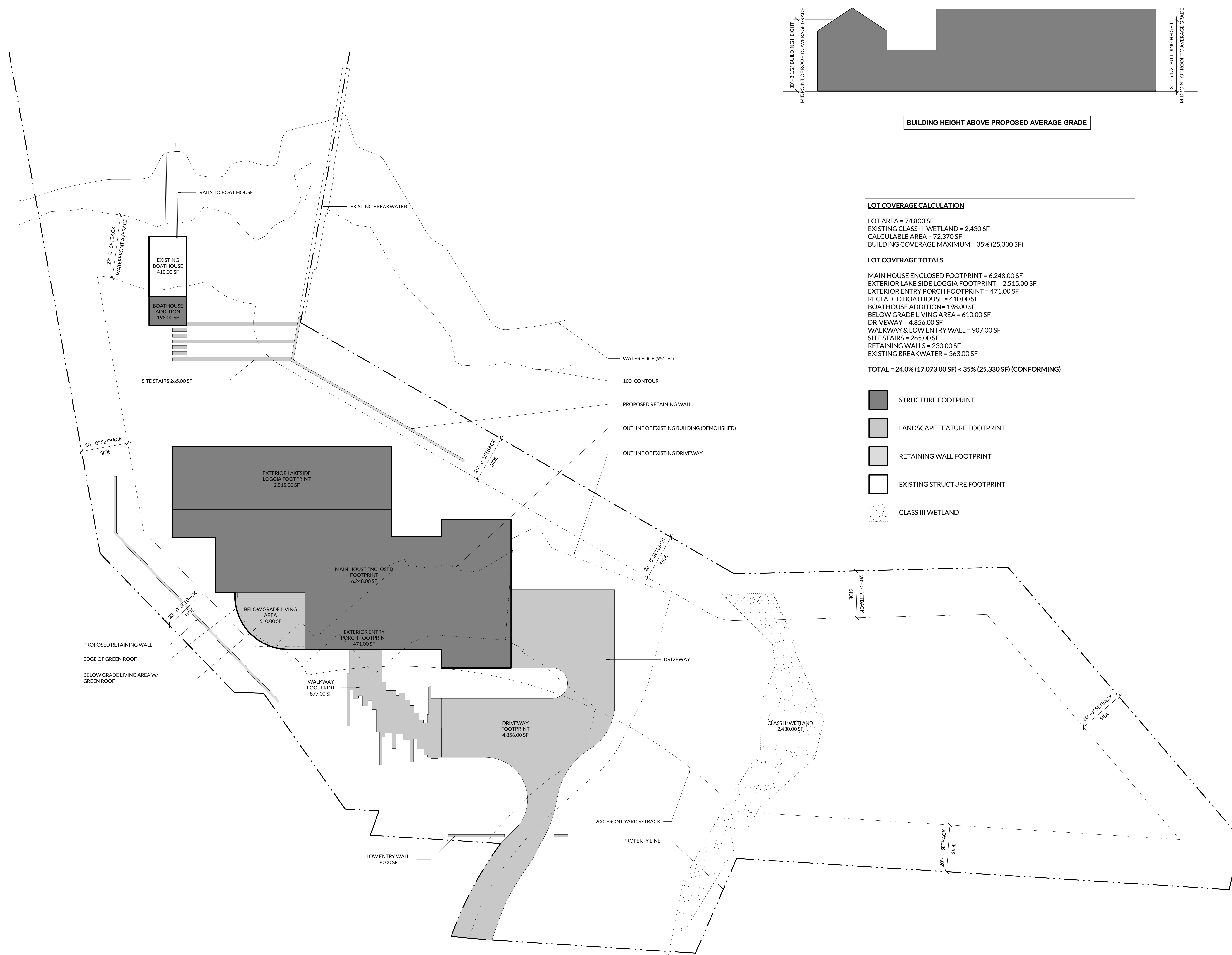
10.18.2018 FOR PERMIT

FOR PERMIT

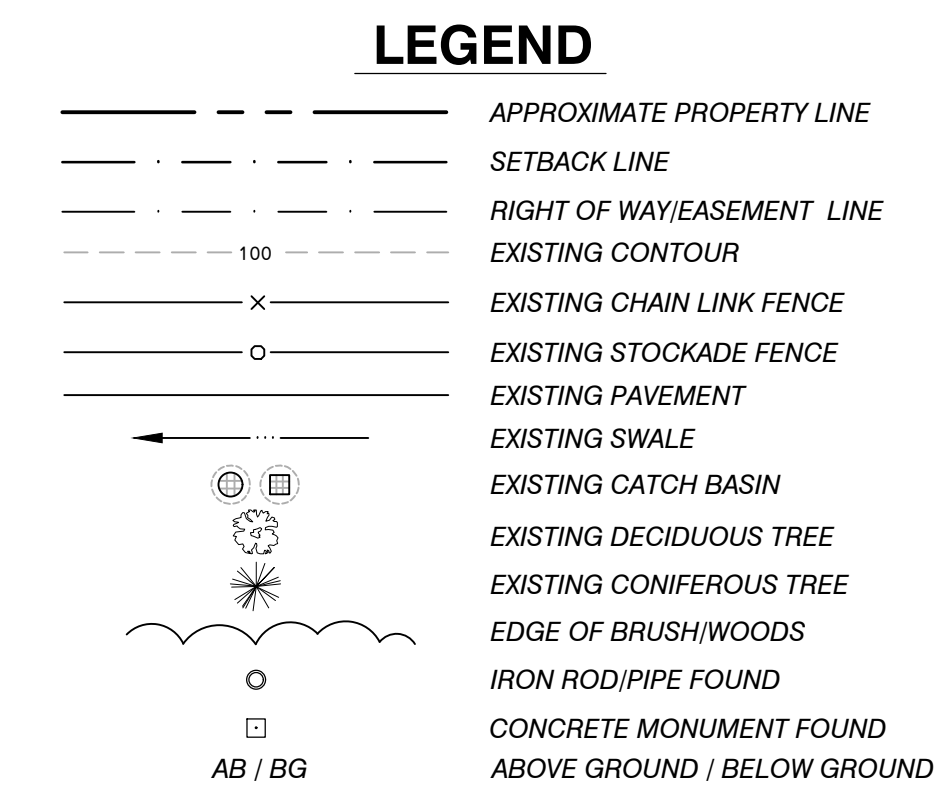
Title  
ZONING

Sheet Number

G002





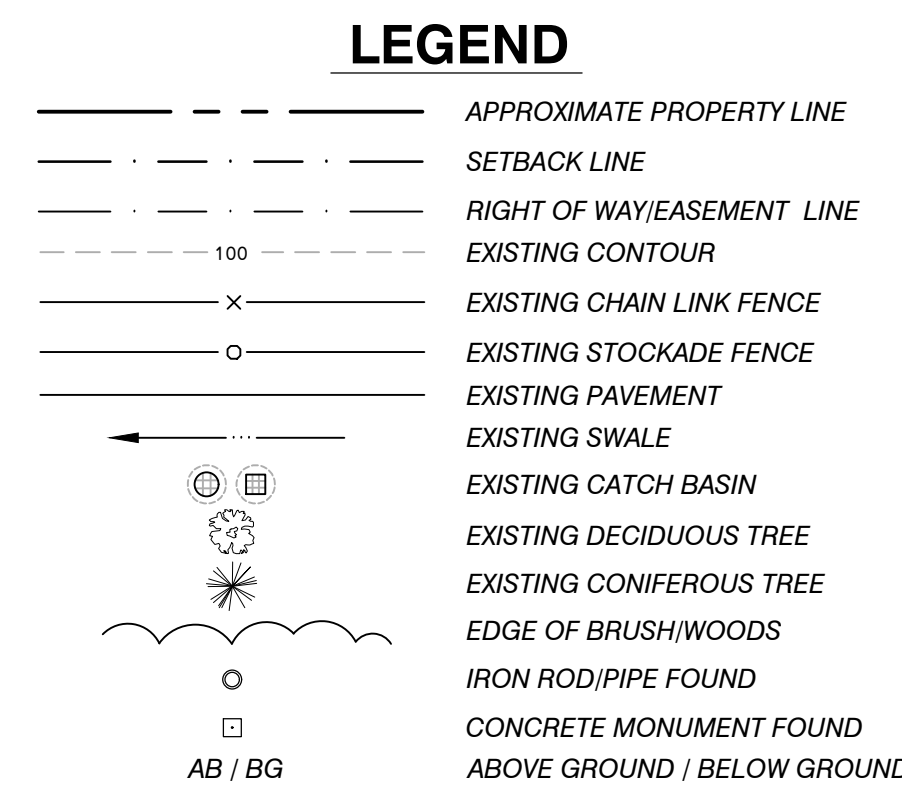


- UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED ON OR ADJACENT TO THE SURVEYED PREMISES. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL UTILITIES PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL CONTACT DIG SAFE 888-488-4882 PRIOR TO ANY EXCAVATION.
2. PROPERTY LINE INFORMATION IS BASED ON PLAT 17, INSURANCE A, & PL. CARRITY, PROPERTY LINE ADJUSTMENT, 1976, BY C. W. INSURANCE A, & PL. CARRITY, PREPARED BY CIVIL ENGINEERING ASSOCIATES, INC. DATED NOVEMBER 27, 2017. THIS PLAN HAS BEEN VERIFIED BY SURVEYING AND THE INFORMATION CONTAINED HEREIN IS BASED ON THE MONUMENTATION RECOVERED IS CONSISTENT WITH RECORDED DOCUMENTS. AREA CALCULATIONS DETERMINED UTILIZED THE 95.5 COUNTRY (NGVD 29).
3. SITE INFORMATION IS BASED ON A FIELD SURVEY PERFORMED BY CIVIL ENGINEERING ASSOCIATES, INC. JULY 2017 AND JULY 2018. CIVIL ENGINEERING ASSOCIATES, INC. SURVEYING STATION GAUGING STATION 62490400 ESTABLISHED IN BURLINGTON, VERMONT (DATUM NGVD 29).
4. PARCEL LINES IN THE WATERPROOF RESIDENTIAL LOW DENSITY ZONING DISTRICT AND NATURAL RESOURCES PROTECTION OVERLAY DISTRICT.
5. THE EXISTING WATERPROOF SETBACKS AT 04 OAKLEIGH DRIVE (71) AND 55 OAKLEIGH DRIVE (32) WERE FIELD MEASURED APRIL 20, 2018 AND THEIR ALIGNMENT AVERAGED TO REDUCE THE WATERPROOF SETBACK REQUIREMENT TO 30 FEET.

PROJ. NO.  
13130

PERMIT SET  
11/26/2018





## SITE ENGINEER:



**CIVIL ENGINEERING ASSOCIATES, INC.**  
10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403  
P: 802-884-2323 FAX: 802-884-2271 web: [www cea-vt.com](http://www cea-vt.com)

COPYRIGHT © 2018 - ALL RIGHTS RESERVED

DRAWN

MAB

DSM

APPROVED

CLIENT:

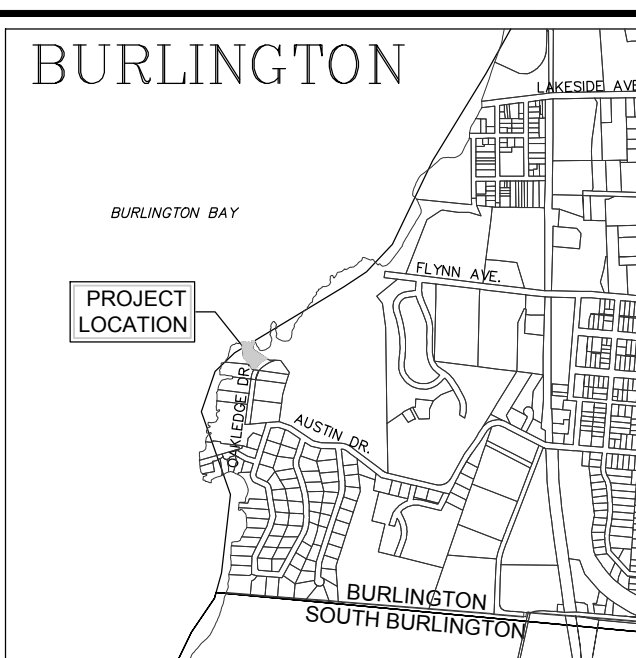
*BIRDSEYE*

3104 HUNTINGTON ROAD  
RICHMOND, VERMONT 05477

PROJECT:

65 OAKLEDGE

65 OAKLEDGE DRIVE  
BURLINGTON VT 05401



### LOCATION MAP

 $t^* = 2000$ 

| DATE     | CHECKED | REVISION                                                              |
|----------|---------|-----------------------------------------------------------------------|
| 12/13/18 | JLM     | REVISED FRONT YARD SETBACK PER CITY OF BURLINGTON PLANNING AND ZONING |
|          |         |                                                                       |
|          |         |                                                                       |
|          |         |                                                                       |
|          |         |                                                                       |
|          |         |                                                                       |

*PROPOSED  
CONDITIONS SITE  
PLAN*

DATE  
10/18/2018

SCALE  
1" = 20'

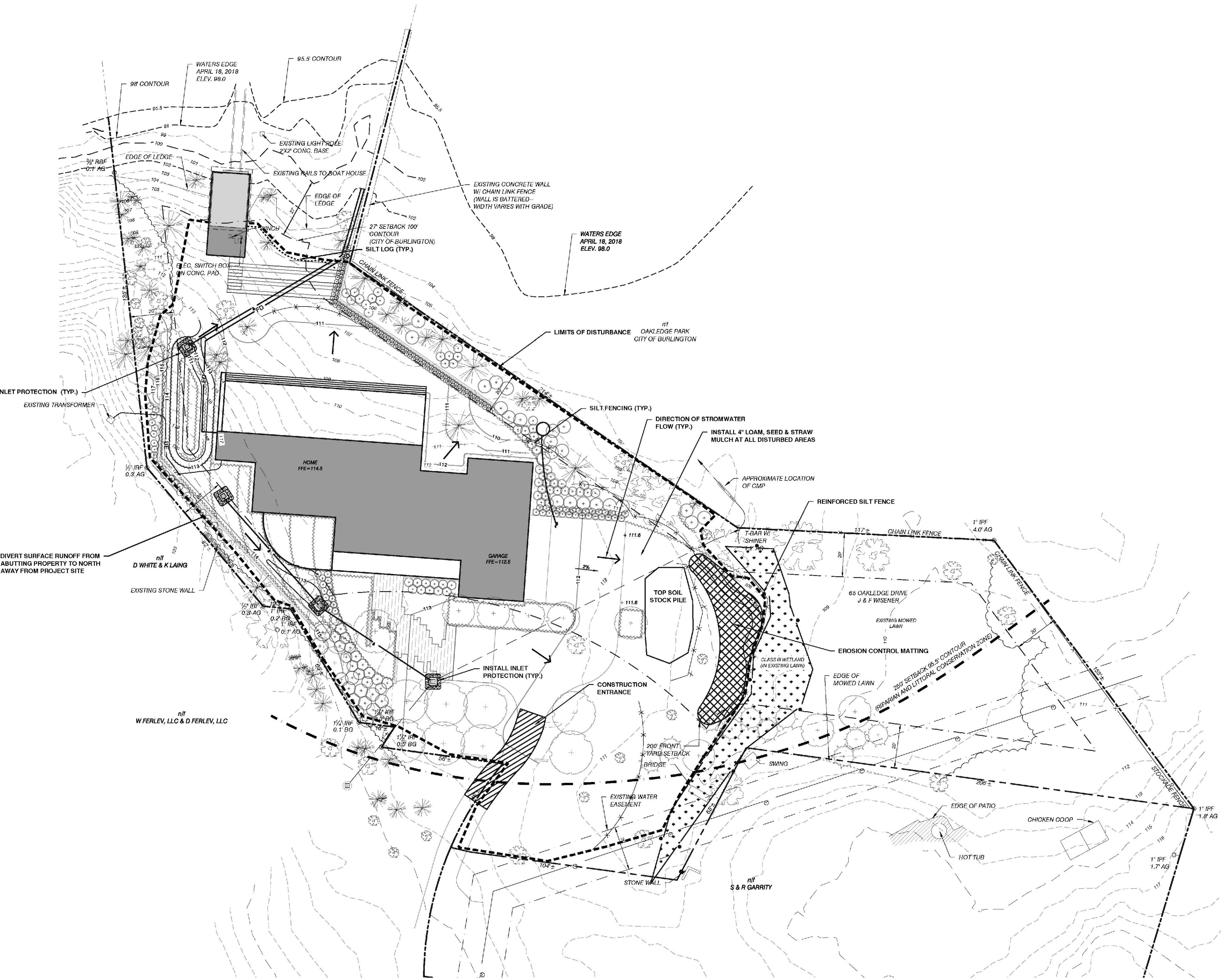
PROJ. NO.  
17173

DRAWING NUMBER

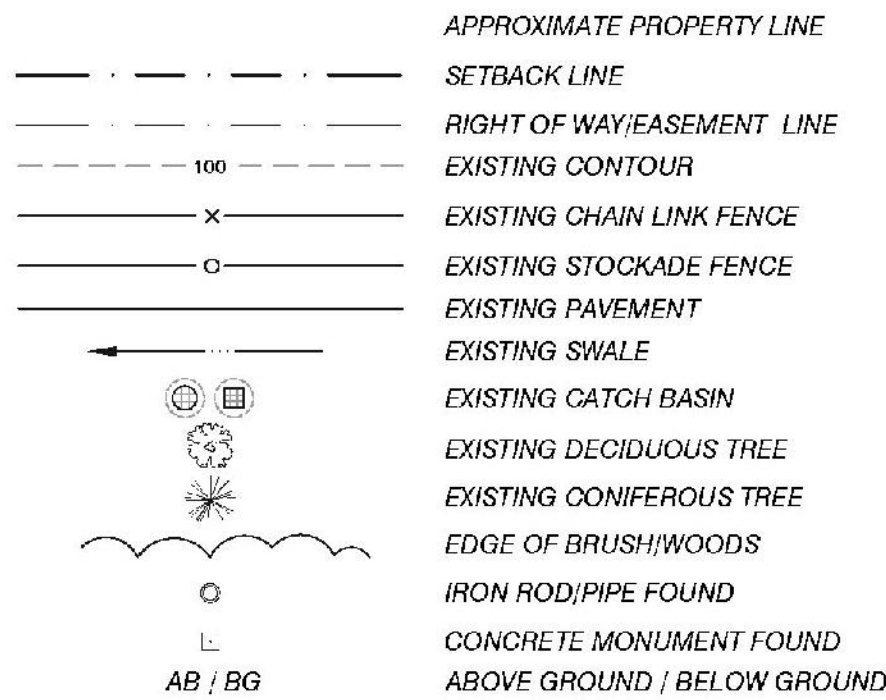
### C1.1

100





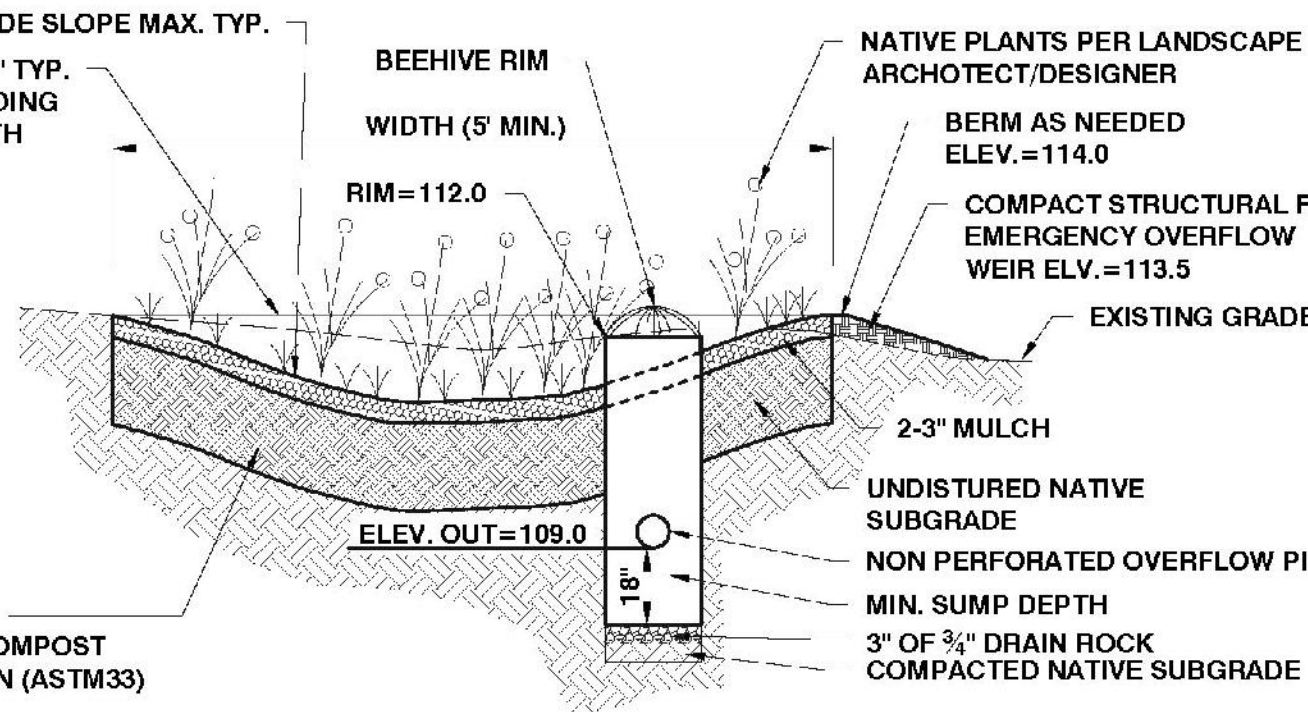
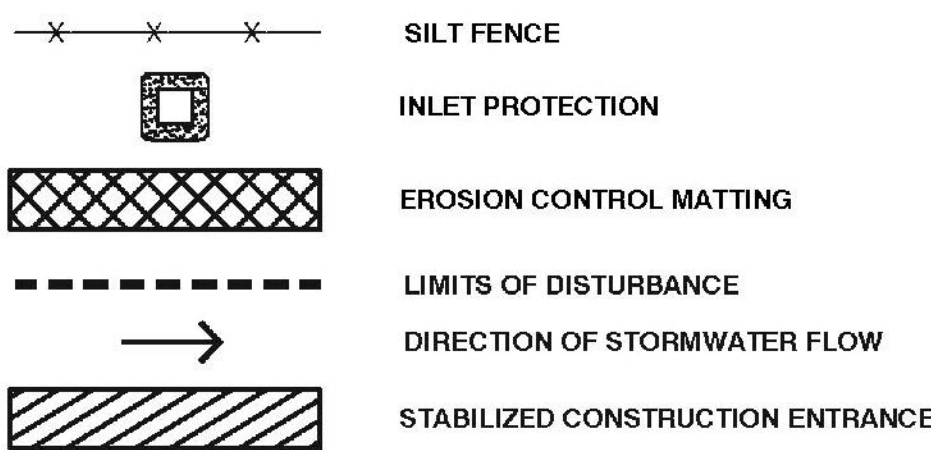
LEGEND



EROSION CONTROL NOTES

1. SILT FENCE TO BE INSTALLED WHERE SHOWN PRIOR TO SOIL DISTURBANCE IN UPHILL AREAS.
2. EROSION CONTROL MEASURES SHOWN ON PLANS ARE CONCEPTUAL. ADDITIONAL MEASURES MAY BE NECESSARY BASED ON SITE/WEATHER CONDITIONS DURING CONSTRUCTION.

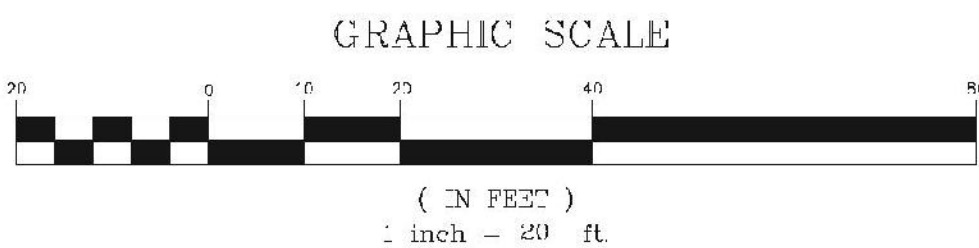
EROSION CONTROL LEGEND



- Infiltration Rain Garden Notes
- Design Notes:
1. Plant with plants per landscape architect drawings. Native plants are preferred, because non-native and invasive species can reproduce downstream to damage habitat and change hydrology. If non-natives are chosen, be sure that they will not damage downstream waterways.
- Construction Notes:
2. Build and vegetate rain garden as early as possible to establish plantings before directing stormwater runoff to it or divert stormwater around facility. Preferably, this period would last a minimum of 3 months or per landscape architect/designer guidelines.
  3. Infiltration areas (the area of the rain garden as defined by the top elevation of the facility) shall be fenced off from the first day of earth moving until project completion to prevent compaction of the subgrade, dirt tracking onto any layer of the facility, and stockpiling of construction materials that may clog the surface.
  4. During excavation of native soils to the bottom of the facility, rainfall may cause fines to clog the surface of the facility. If this occurs during construction, hand rake the surface to a depth of 3\"/>

RAIN GARDEN

N.T.S.



OPERATIONAL STORMWATER MANAGEMENT PLAN

Stormwater runoff from the building will be collected and conveyed to the rain garden/infiltration area on the west side of the structure. The rain garden will be comprised of the materials outlined in the attached details.

The proposed rain garden has surface area of 1,170 SF at elevation 113.0 which will provide a storage capacity in the rain garden of approximately 1,460 CF. The house and garage roof area and patios on the west side of the building have a total surface area of 8,467 SF. The rain garden will provide 2.32 inches of storage/infiltration from the contributory impervious surfaces or roughly the equivalent of a 2-year storm event.

When large stormwater events exceed the infiltrative capacity of the facility and water ponds to a depth of elevation 112.0, water will be collected at CBF#1 and conveyed via a 6\"/>

For storm events or circumstances that cause runoff to exceed the collection capacity of CBF#1, an emergency overflow weir will be provided on the north side of the rain garden at elevation 112.5 to discharge overland across to the lawn and down to the lake.

SITE ENGINEER:



CIVIL ENGINEERING ASSOCIATES, INC.  
10 MANSELD VIEW LANE, SOUTH BURLINGTON, VT 05403  
P: 802.864.2323 FAX: 802.864.2371 WWW.CIVIL-CA.VERMONT.COM

COPYRIGHT © 2018 - ALL RIGHTS RESERVED

DRAWN:

MAB

CHECKED:

DSM

APPROVED:

DSM

CLIENT:

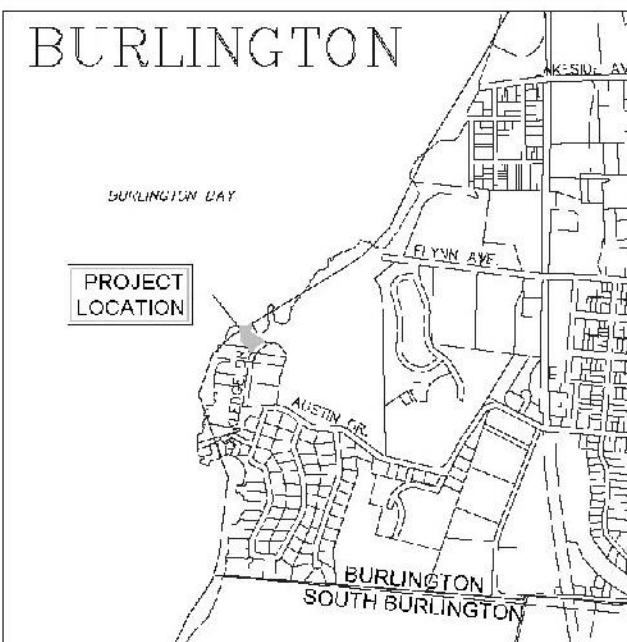
BIRDSEYE

3104 HUNTINGTON ROAD  
RICHMOND, VERMONT 05477

PROJECT:

65 OAKLEDGE

65 OAKLEDGE DRIVE  
BURLINGTON VT 05401



LOCATION MAP

1" = 200'

| DATE | REVISION | REVISION |
|------|----------|----------|
|      |          |          |
|      |          |          |
|      |          |          |
|      |          |          |
|      |          |          |

CONSTRUCTION  
AND OPERATIONAL  
STORMWATER  
PLAN

DATE  
10/18/2018

SCALE  
1" = 20'  
PROJ. NO.  
17173

DRAWING NUMBER

C1.2

PERMIT SET  
11/26/2018



P:\AutoCADDD Projects\2017\171731-CADD Files-Dwg\171731-Sub.dwg, 10/25/2018 9:11:37 AM, mbr/ckc

E-001 EC Sheet

#### Introduction

This project is subject to the terms and conditions of the authorization from the State of Vermont to discharge construction related storm water runoff.

Coverage under the State Construction General Permit 3-9020 is required for any construction activity that disturbs 1 or more acres of land, or is part of a larger development plan that will disturb 1 or more acres.

This project has been deemed to qualify as a Low Risk Site which is subject to the erosion prevention and sediment control (EPSC) standards set for in the State of Vermont's **Low Risk Site Handbook for Erosion Prevention and Sediment Control**.

The following narrative and implementation requirements represent the minimum standard for which this site is required to be maintained as regulated by the State of Vermont.

Any best management practices (BMPs) depicted on the project's EPSC Site plan which go beyond the Handbook requirements are considered to be integral to the management of the site and represent components of the municipal EPSC approval for the project, which shall be implemented.

The EPSC plan depicts one snap shot in time of the site. All construction sites are fluid in their day to day exposures and risks as it relates to minimizing sediment loss from the site. **It is the responsibility of the Contractor to implement the necessary BMPs to comply with the Low Risk Handbook standards outlined on this sheet based on the interim site disturbance conditions which may or may not be shown on the EPSC Site Plan.**

Specific BMPs which are critical to allowing the project to be considered a Low risk site include the items checked below:

- Limit the amount of disturbed earth to two acres or less at any one time.
- There shall be a maximum of 7 consecutive days of disturbed earth exposure in any location before temporary or final stabilization is implemented.

#### 1. Mark Site Boundaries

**Purpose:** Mark the site boundaries to identify the limits of construction. Delineating your site will help to limit the area of disturbance, preserve existing vegetation and limit erosion potential on the site.

**How to comply:** Before beginning construction, walk the site boundaries and flag trees, post signs, or install orange safety fence. Fence is required on any boundary within 50 feet of a stream, lake, pond or wetland, unless the area is already developed (existing roads, buildings, etc.)

#### 2. Limit Disturbance Area

**Purpose:** Limit the amount of soil exposed at one time to reduce the potential erosion on site.

**Requirements:** The permitted disturbance area is specified on the site's written authorization to discharge. Only the acreage listed on the authorization form may be exposed at any given time.

**How to comply:** Plan ahead and phase the construction activities to ensure that no more than the permitted acreage is disturbed at one time. Be sure to properly stabilize exposed soil with seed and mulch or erosion control matting before beginning work in a new section of the site.

#### 3. Stabilize Construction Entrance

**Purpose:** A stabilized construction entrance helps remove mud from vehicle wheels to prevent tracking onto streets.

**Requirements:** If there will be any vehicle traffic off of the construction site, you must install a stabilized construction entrance before construction begins.

**How to install:**  
**Rock Size:** Use a mix of 1 to 4 inch stone  
**Depth:** 8 inches minimum  
**Width:** 12 feet minimum  
**Length:** 40 feet minimum (or length of driveway, if shorter)  
**Geotextile:** Place filter cloth under entire gravel bed

**Maintenance:** Redress with clean stone as required to keep sediment from tracking onto the street.

#### 4. Install Silt Fence

**Purpose:** Silt fences intercept runoff and allow suspended sediment to settle out.

**Requirements:** Silt fence must be installed:

- on the downhill side of the construction activities
- between any ditch, swale, storm sewer inlet, or waters of the State and the disturbed soil
- \* *Hay bales must not be used as sediment barriers due to their tendency to degrade and fall apart.*

#### Where to place:

- Place silt fence on the downhill edge of bare soil. At the bottom of slopes, place fence 10 feet downhill from the end of the slope (if space is available).
- Ensure the silt fence catches all runoff from bare soil.
- Maximum drainage area is 1/2 acre for 100 feet of silt fence.
- Install silt fence across the slope (not up and down hills)
- Install multiple rows of silt fence on long hills to break up flow.
- Do not install silt fence across ditches, channels, or streams or in stream buffers.

#### How to install silt fence:

- Dig a trench 6 inches deep across the slope
- Unroll silt fence along the trench
- Ensure stakes are on the downhill side of the fence
- Join fencing by rolling the end stakes together
- Drive stakes in against downhill side of trench
- Drive stakes until 16 inches of fabric is in trench
- Push fabric into trench; spread along bottom
- Fill trench with soil and pack down

#### Maintenance:

- Remove accumulated sediment before it is halfway up the fence.
- Ensure that silt fence is trenched in ground and there are no gaps.

#### 5. Divert Upland Runoff

**Purpose:** Diversion berms intercept runoff from above the construction site and direct it around the disturbed area. This prevents clean water from becoming muddied with soil from the construction site.

**Requirements:** If storm water runs onto your site from upslope areas and your site meets the following two conditions, you must install a diversion berm before disturbing any soil.

- You plan to have one or more acres of soil exposed at any one time (excluding roads).
- Average slope of the disturbed area is 20% or steeper.

**How to install:**

1. Compact the berm with a shovel or earth-moving equipment.
2. Seed and mulch berm or cover with erosion control matting immediately after installation.
3. Stabilize the flow channel with seed and straw mulch or erosion control matting. Line the channel with 4 inch stone if the channel slope is greater than 20%.
4. Ensure the berm drains to an outlet stabilized with riprap. Ensure that there is no erosion at the outlet.
5. The diversion berm shall remain in place until the disturbed areas are completely stabilized.

**6. Slow Down Channelized Runoff**

**Purpose:** Stone check dams reduce erosion in drainage channels by slowing down the storm water flow.

**Requirements:** If there is a concentrated flow (e.g. in a ditch or channel) of storm water on your site, then you must install stone check dams. Hay bales must not be used as check dams.

**How to install:**  
**Height:** No greater than 2 feet. Center of dam should be 9 inches lower than the side elevation.  
**Side slopes:** 2:1 or flatter

**Stone size:** Use a mixture of 2 to 9 inch stone  
**Width:** Dams should span the width of the channel and extend up the sides of the banks

**Spacing:** Space the dams so that the bottom (toe) of the upstream dam is at the elevation of the top (crest) of the downstream dam. The spacing is equal to the height of the check dam divided by the channel slope.  
**Spacing (in feet) = Height of check dam (in feet)/Slope in channel (ft/ft)**

**Maintenance:** Remove sediment accumulated behind the dam as needed to allow channel to drain through the stone check dam and prevent large flows from carrying sediment over the dam. If significant erosion occurs between check dams, a liner of stone should be installed.

**7. Construct Permanent Controls**

**Purpose:** Permanent storm water treatment practices are constructed to maintain water quality, ensure groundwater flows, and prevent downstream flooding. Practices include detention ponds and wetlands, infiltration basins, and storm water filters.

**Requirements:** If the total impervious\* area on your site, or within the common plan of development, will be 1 or more acres, you must apply for a State Storm water Discharge Permit and construct permanent storm water treatment practices on your site. These practices must be installed before the construction of any impervious surfaces.

**How to comply:** Contact the Vermont Storm Water Program and follow the requirements in the Vermont Storm Water Management Manual. The Storm water Management Manual is available at: [www.vtwaterquality.org/stormwater.htm](http://www.vtwaterquality.org/stormwater.htm)

\*An impervious surface is a manmade surface, including, but not limited to, paved and unpaved roads, parking areas, roofs, driveways, and walkways, from which precipitation runs off rather than infiltrates.

**8. Stabilize Exposed Soil**

**Purpose:** Seeding and mulching, applying erosion control matting, and hydroseeding are all methods to stabilize exposed soil. Mulches and matting protect the soil surface while grass is establishing.

**Requirements:** All areas of disturbance must have temporary or permanent stabilization within 7, 14, or 21 days of initial disturbance, as stated in the project authorization. After this time, any disturbance in the area must be stabilized at the end of each work day.

The following exceptions apply:

- Stabilization is not required if earthwork is to continue in the area within the next 24 hours and there is no precipitation forecast for the next 24 hours.
- Stabilization is not required if the work is occurring in a self-contained excavation (i.e. no outlet) with a depth of 2 feet or greater (e.g. house foundation excavation, utility trenches).

All areas of disturbance must have permanent stabilization within 48 hours of reaching final grade.

**How to comply:** Prepare bare soil for seeding by grading the top 3 to 6 inches of soil and removing any large rocks or debris.

**Seeding Rates for Temporary Stabilization**  
April 15 - Sept. 15 -- Ryegrass (annual or perennial): 20 lbs/acre  
Sept. 15 - April 15 -- Winter rye: 120 lbs/acre

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

**Seeding Rates for Final Stabilization:**

#### Mulching Rates

April 15 - Sept. 15 -- Hay or Straw: 1 inch deep (1-2 bales/1000 s.f.)  
Sept. 15 - April 15 -- Hay or Straw: 2 in. deep (2-4 bales/1000 s.f.)

#### Erosion Control Matting

As per manufacturer's instructions

#### Hydroseed

As per manufacturer's instructions

#### 9. Winter Stabilization

**Purpose:** Managing construction sites to minimize erosion and prevent sediment loading of waters is a year-round challenge. In Vermont, this challenge becomes even greater during the late fall, winter, and early spring months.

**Winter construction** as discussed here, describes the period between October 15 and April 15, when erosion prevention and sediment control is significantly more difficult.

Rains in late fall, thaws throughout the winter, and spring melt and rains can produce significant flows over frozen and saturated ground, greatly increasing the potential for erosion.

**Requirements for Winter Shutdown:** For those projects that will complete earth disturbance activities prior to the winter period (October 15), the following requirements must be adhered to:

1. For areas to be stabilized by vegetation, seeding shall be completed no later than September 15 to ensure adequate growth and cover.

2. If seeding is not completed by September 15, additional non-vegetative protection must be used to stabilize the site for the winter period. This includes use of Erosion Control Matting or netting of a heavy mulch layer. Seeding with winter rye is recommended to allow for early germination during wet spring conditions.

3. Where mulch is specified, apply roughly 2 inches with an 80-90% cover. Mulch should be tracked in or stabilized with netting in open areas vulnerable to wind.

**Requirements for Winter Construction** If construction activities involving earth disturbance continue past October 15 or begin before April 15, the following requirements must be adhered to:

1. Enlarged access points, stabilized to provide for snow stockpiling.

2. Limits of disturbance moved or replaced to reflect boundary of winter work.

3. A snow management plan prepared with adequate storage and control of meltwater, requiring cleared snow to be stored down slope of all areas of disturbance and out of storm water treatment structures.

4. A minimum 25 foot buffer shall be maintained from perimeter controls such as silt fence.

5. In areas of disturbance that drain to a water body within 100 feet, two rows of silt fence must be installed along the contour.

6. Drainage structures must be kept open and free of snow and ice dams.

7. Silt fence and other practices requiring earth disturbance must be installed ahead of frozen ground.

8. Mulch used for temporary stabilization must be applied at double the standard rate, or a minimum of 5 inches with an 80-90% cover.

9. To ensure cover of disturbed soil in advance of a melt event, areas of disturbed soil must be stabilized at the end of each work day, with the following exceptions:

- If no precipitation within 24 hours is forecast and work will resume in the same disturbed area within 24 hours, daily stabilization is not necessary.
- Disturbed areas that collect and retain runoff, such as house foundations or open utility trenches.
- Prior to stabilization, snow or ice must be removed to less than 1 inch thickness.

10. Use stone to stabilize areas such as the perimeter of buildings under construction or where construction vehicle traffic is anticipated. Stone paths should be 10 to 20 feet wide to accommodate vehicular traffic.

11. Stabilize Soil at Final Grade

**Purpose:** Stabilizing the site with seed and mulch or erosion control matting when it reaches final grade is the best way to prevent erosion while construction continues.

**Requirements:** Within 48 hours of final grading, the exposed soil must be seeded and mulched or covered with erosion control matting.

**How to comply:** Bring the site or sections of the site to final grade as soon as possible after construction is completed. This will reduce the need for additional sediment and erosion control measures and will reduce the total disturbed area.

For seeding and mulching rates, follow the specifications under Rule 6, Stabilizing Exposed Soil.

11. Dewatering Activities

**Purpose:** Treat water pumped from dewatering activities so that it is clear when leaving the construction site.

**Requirements:** Water from dewatering activities that flows off of the construction site must be clear. Water must not be pumped into storm sewers, lakes, or wetlands unless the water is clear.

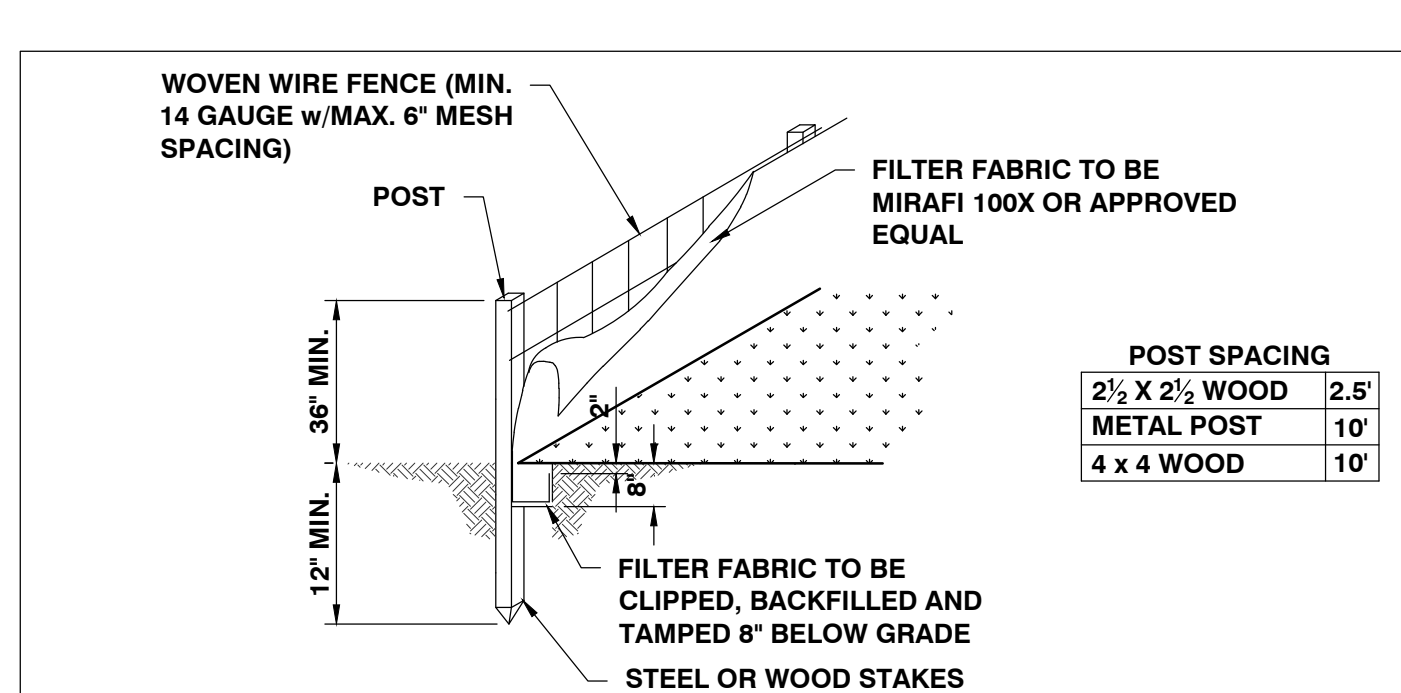
**How to comply:** Using sock filters or sediment filter bags on dewatering discharge hoses or pipes, discharge water into silt fence enclosures installed in vegetated areas away from waterways. Remove accumulated sediment after the water has dispersed and stabilize the area with seed and mulch.

12. Inspect Your Site

**Purpose:** Perform site inspections to ensure that all sediment and erosion control practices are functioning properly. Regular inspections and maintenance of practices will help to reduce costs and protect water quality.

**Requirements:** Inspect the site at least once every 7 days and after every rainfall or snow melt that results in a discharge from the site. Perform maintenance to ensure that practices are functioning according to the specifications outlined in this handbook.

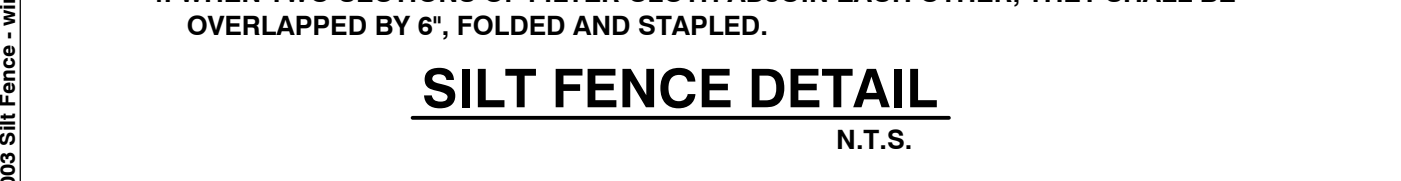
In the event of a noticeable sediment discharge from the construction site, you must take immediate action to inspect and maintain existing erosion prevention and sediment control practices. Any visibly discolored storm water runoff to waters of the State must be reported. Forms for reporting discharges are available at: [www.vtwaterquality.org/stormwater.htm](http://www.vtwaterquality.org/stormwater.htm)



**NOTES:**  
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. WIRE FENCE REINFORCEMENT REQUIRED WITHIN 100 FT UPSLOPE OF RECEIVING WATERS.  
2. INSTALL MIRAFI ENVIROFENCE, OR APPROVED EQUAL OR AS DETAILED HEREIN.  
3. INSTALL SILT FENCES AT TOES OF ALL UNPROTECTED SLOPES AND AS PARALLEL TO CONTOURS AS POSSIBLE. THIS INCLUDES ALL FILLED OR UNPROTECTED SLOPES CREATED DURING CONSTRUCTION. NOT NECESSARILY REFLECTED ON THE FINAL PLANS. CURVE THE ENDS OF THE FENCE UP INTO THE SLOPE. REMOVE SEDIMENT WHEN ACCUMULATED TO HALF THE HEIGHT OF THE FENCE. SILT FENCES ARE TO BE MAINTAINED UNTIL SLOPES ARE STABILIZED.  
4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" FOLDED AND STAPLED.

#### TEMPORARY STOCKPILE DETAIL

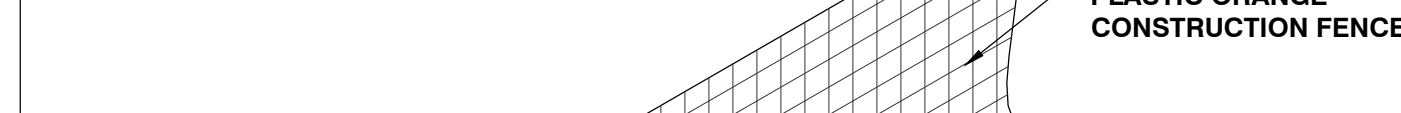
**TEMPORARY STOCKPILE DETAIL**  
N.T.S.  
REVISED 08/01/2014



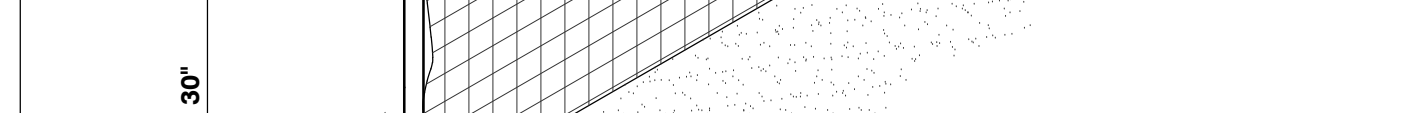
**TEMPORARY STOCKPILE DETAIL**  
N.T.S.  
REVISED 08/01/2014



**CONSTRUCTION FENCE DETAIL**  
N.T.S.  
REVISED 08/01/2014



**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



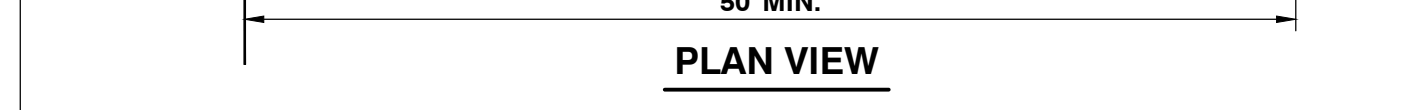
**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



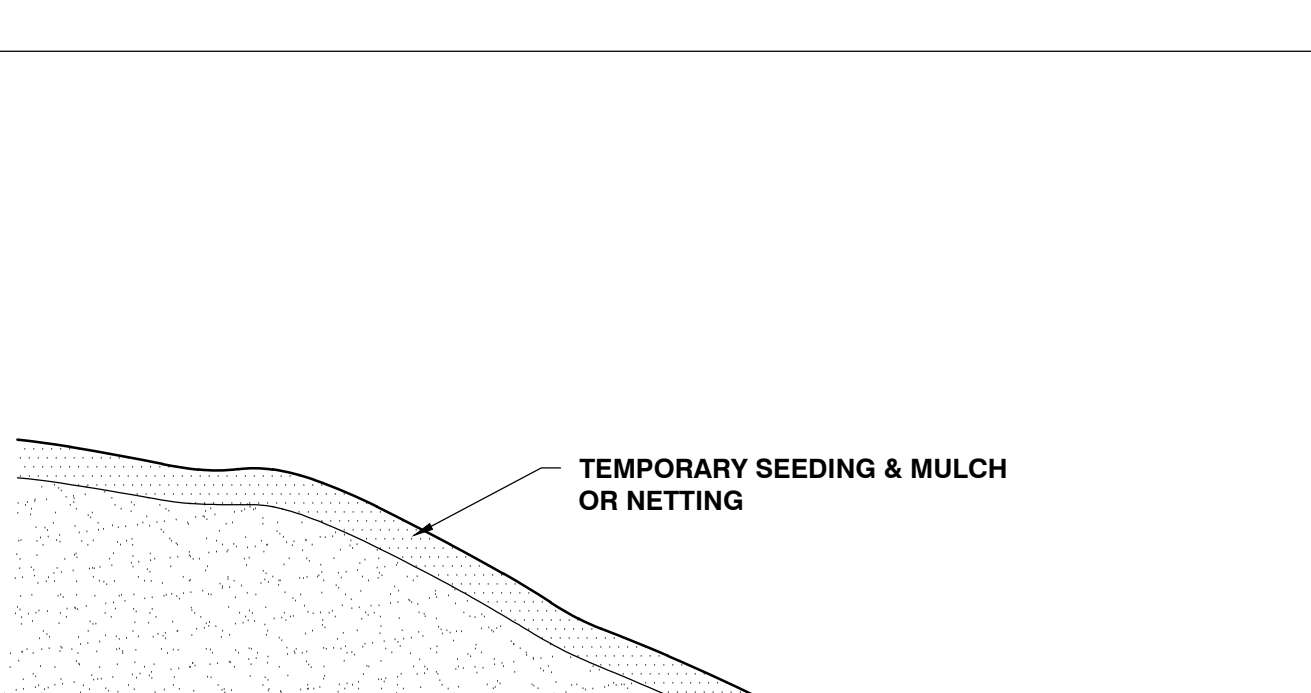
**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



**SILT FENCE CONSTRUCTION DETAIL**  
N.T.S.  
REVISED 08/01/2014



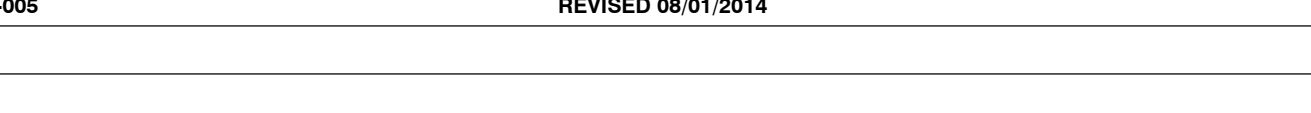
**TEMPORARY SEEDING & MULCH OR NETTING**  
N.T.S.  
REVISED 08/01/2014



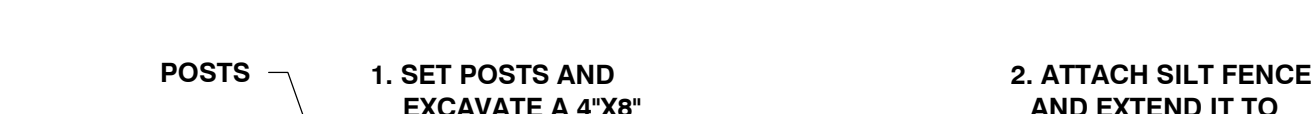
**TEMPORARY SEEDING & MULCH OR NETTING**  
N.T.S.  
REVISED 08/01/2014



**TEMPORARY SEEDING & MULCH OR NETTING**  
N.T.S.  
REVISED 08/01/2014



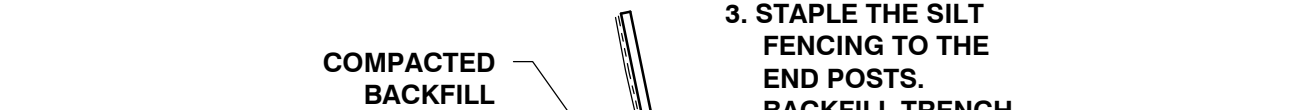
**TEMPORARY SEEDING & MULCH OR NETTING**  
N.T.S.  
REVISED 08/01/2014



**TEMPORARY SEEDING & MULCH OR NETTING**  
N.T.S.  
REVISED 08/01/2014



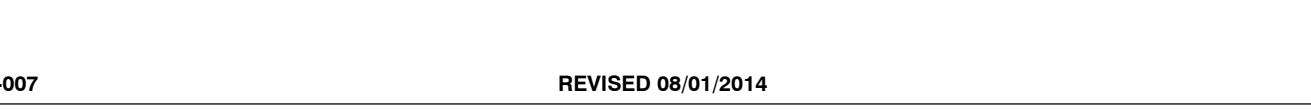
**TEMPORARY SEEDING & MULCH OR NETTING**  
N.T.S.  
REVISED 08/01/2014



**TEMPORARY SEEDING & MULCH OR NETTING**  
N.T.S.  
REVISED 08/01/2014



**TEMPORARY SEEDING & MULCH OR NETTING**  
N.T.S.  
REVISED 08/01/2014



**TEMPORARY SEEDING & MULCH OR NETTING**  
N.T.S.  
REVISED 08/01/2014



**TEMPORARY SEEDING & MULCH OR NETTING**  
N.T.S.  
REVISED 08/01/2014



**TEMPORARY SEEDING & MULCH OR NETTING**  
N.T.S.  
REVISED 08/0



DRAWN  
MAD

MAB

CHECKED  
DSM

APPROVED:

CLIENT:

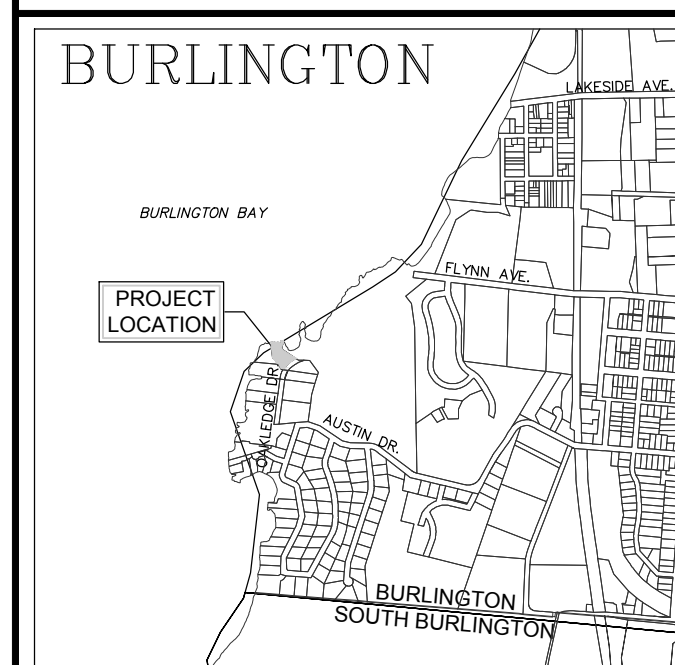
*BIRDSEYE*

3104 HUNTINGTON ROAD  
RICHMOND, VERMONT 05477

PROJECT:

65 OAKLEDGE

65 OAKLEDGE DRIVE  
BURLINGTON VT 05401

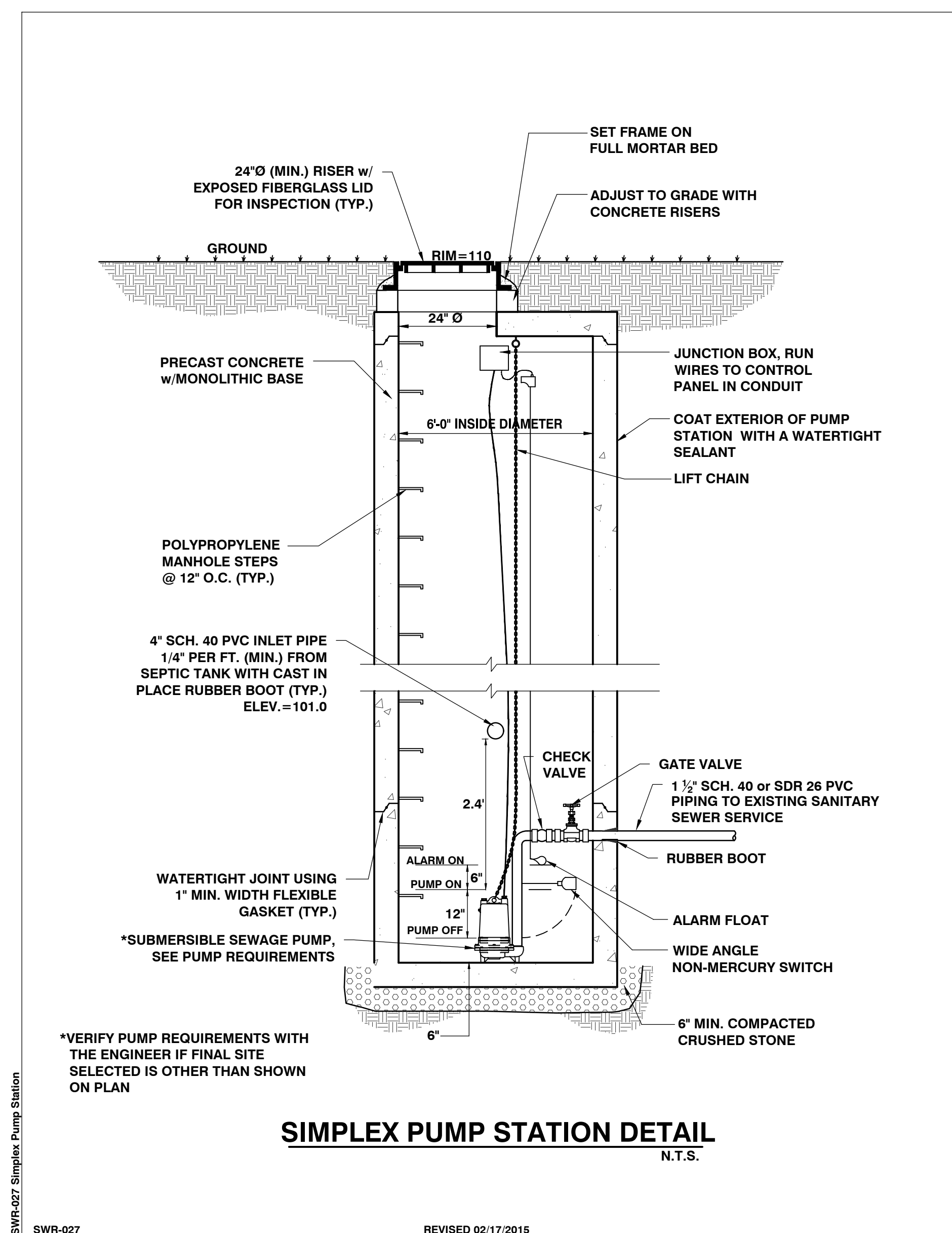
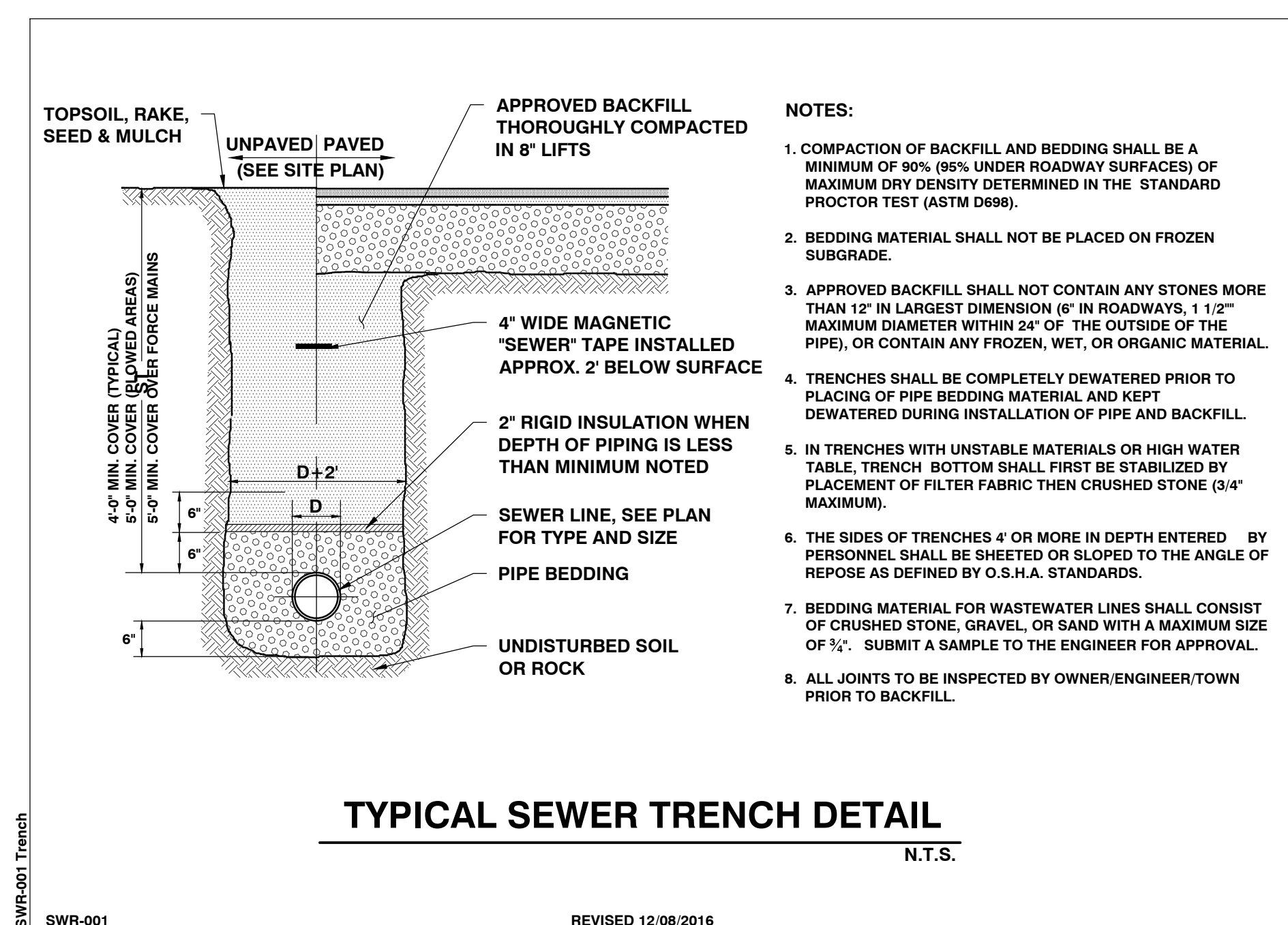
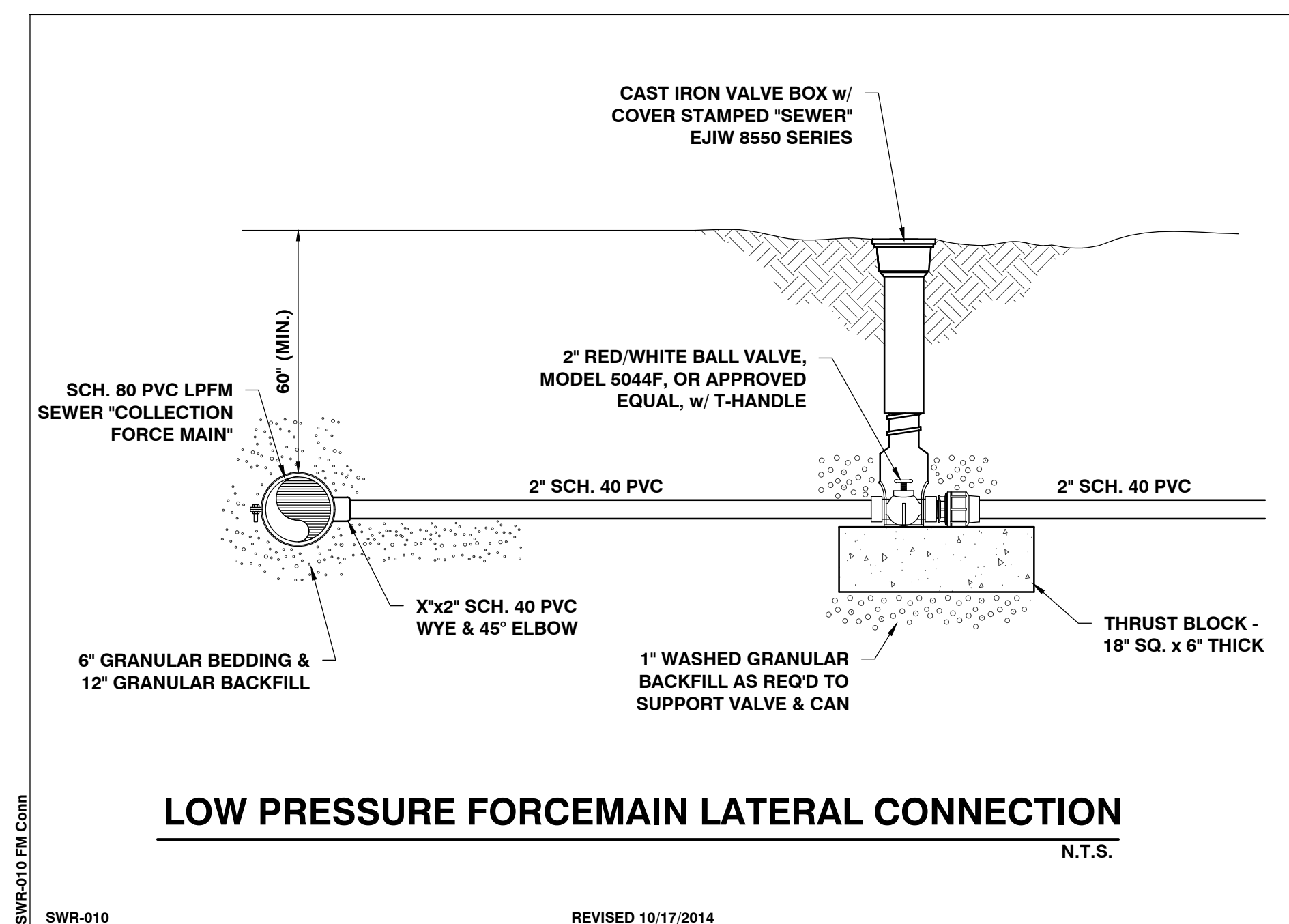


### LOCATION MAP

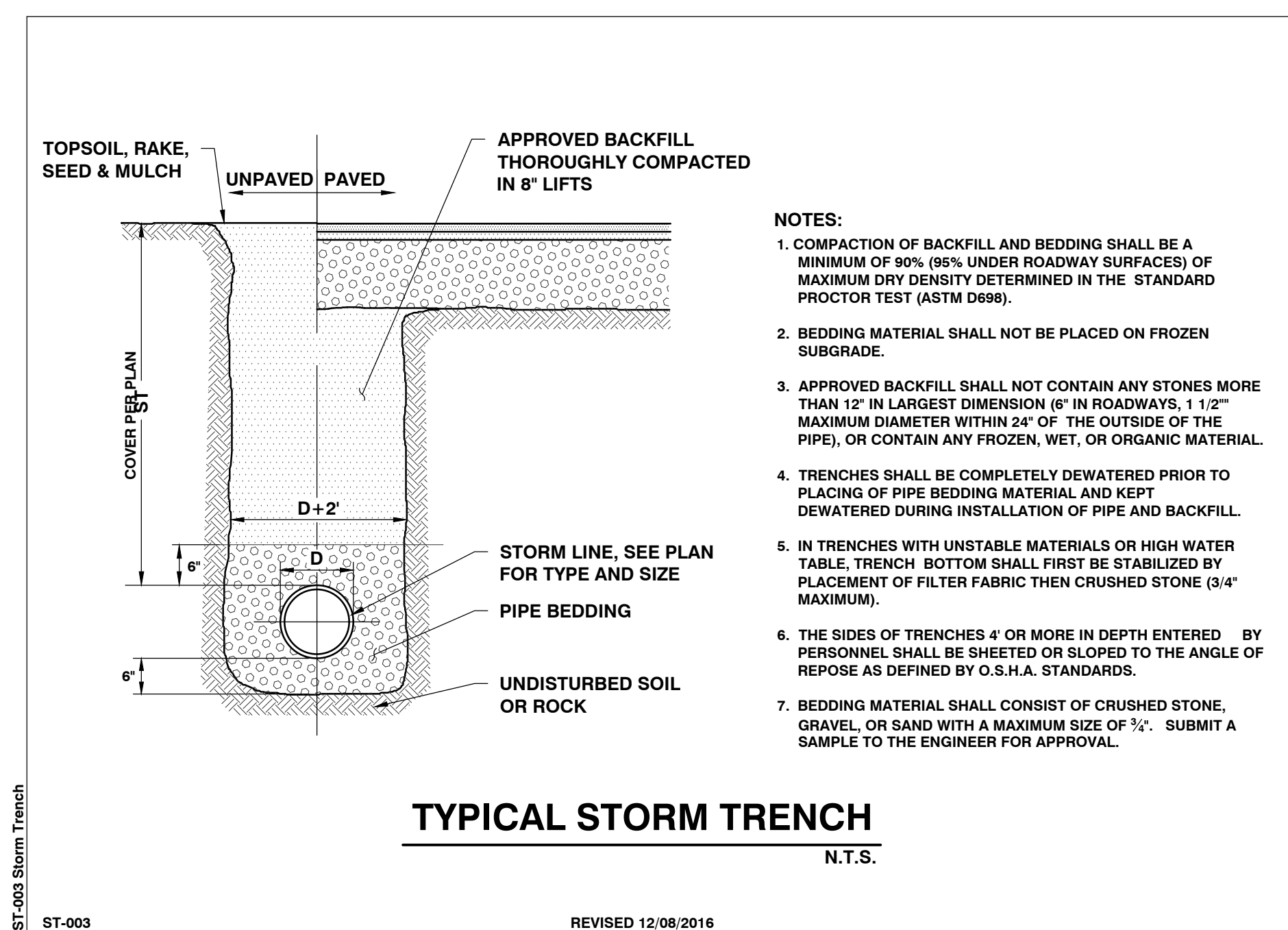
$$I^* = 200$$
[illegible]

## DETAILS

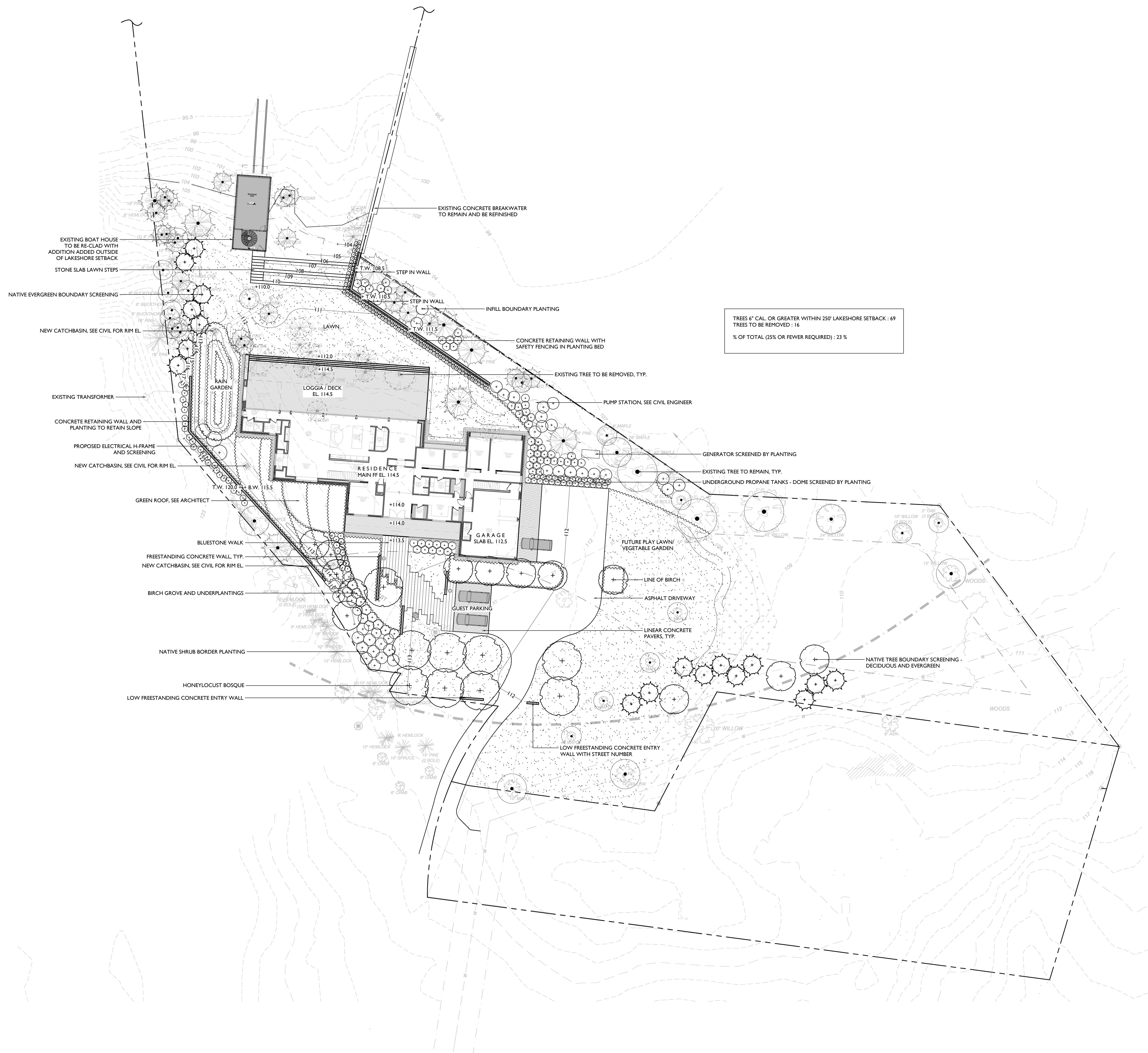
|                    |                            |
|--------------------|----------------------------|
| DATE<br>10/18/2018 | DRAWING NUMBER<br><br>C2.1 |
| SCALE<br>1" = 20'  |                            |
| PROJ. NO.<br>17173 |                            |



| 65 Oakledge Drive<br>Burlington, Vermont |         |         |
|------------------------------------------|---------|---------|
| Pump Station Basis of Design             |         |         |
| Design Flow                              | 490 GPD | GPD     |
| Infiltration                             | 0       | GPD     |
| 20% Municipal Credit                     | 0       | GPD     |
| Total Design Flow                        | 490     | GPD     |
| Average Daily Flow                       | 5.51    | GPM     |
| Peaking Factor                           | 5.00    |         |
| Peak Flow                                | 2.55    | GPM     |
| Required Storage                         | 490     | gallons |
| Storage Provided                         | 500     | gallons |
| Force Main Dia                           | 150     | inches  |
| Min. Cleaning Velocity                   | 2.0     | FPS     |
| Min. Pumping Rate                        | 11.01   | GPM     |
| Chosen Pumping rate                      | 15.00   | GPM     |
| Length of FM to Septic Tank              | 120.0   | feet    |
| Friction Losses at Septic Tank           | 2.47    | feet    |
| High Point of FM at SMH                  | 112.60  | feet    |
| Low Elevation in P/S                     | 105.00  | feet    |
| Elevation Change                         | 12.60   | feet    |
| Normal headlosses                        | 3.00    | feet    |
| Residual                                 | 0.00    | feet    |
| TCH                                      | 18.67   | feet    |
| Pump Cycle Storage                       | 100     | Gallons |
| Run Cycle                                | 9.95    | Minutes |
| System Curve                             | GPM     | TDH     |
|                                          | 10.0    | 16.80   |
|                                          | 20.0    | 18.80   |
|                                          | 30.0    | 24.50   |
|                                          | 40.0    | 30.80   |
|                                          | 50.0    | 38.00   |
|                                          | 60.0    | 37.50   |
|                                          | 70.0    | 27.50   |
| Pump Selection                           |         |         |





65 OAKLEDGE RESIDENCE  
BURLINGTON, VT

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTIES OTHER THAN THOSE PROPERLY AUTHORIZED BY CONTRACT. NOT FOR USE WITHOUT THE SPECIFIC WRITTEN AUTHORIZATION OF BIRDSEYE.

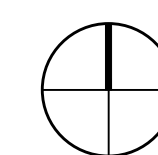
Issue / Revision Log  
03.08.2018 FOR PERMIT

FOR PERMIT

Title  
LANDSCAPE PLAN

Sheet Number

L000



20 0 20 40  
SCALE OF FEET



65 OAKLEDGE RESIDENCE  
BURLINGTON, VT

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT OR PURPOSES OR BY ANY OTHER PARTY. OTHER THAN THOSE EXPRESSLY AUTHORIZED BY CONTRACT. NOT FOR USE WITHOUT THE WRITTEN AUTHORIZATION OF BIRDSEYE.

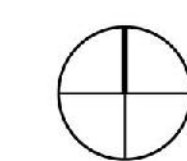
Drawn / Revision Log  
03/16/2019 - 100 PERMIT

FOR PERMIT

THIS  
ILLUSTRATIVE LANDSCAPE  
PLAN

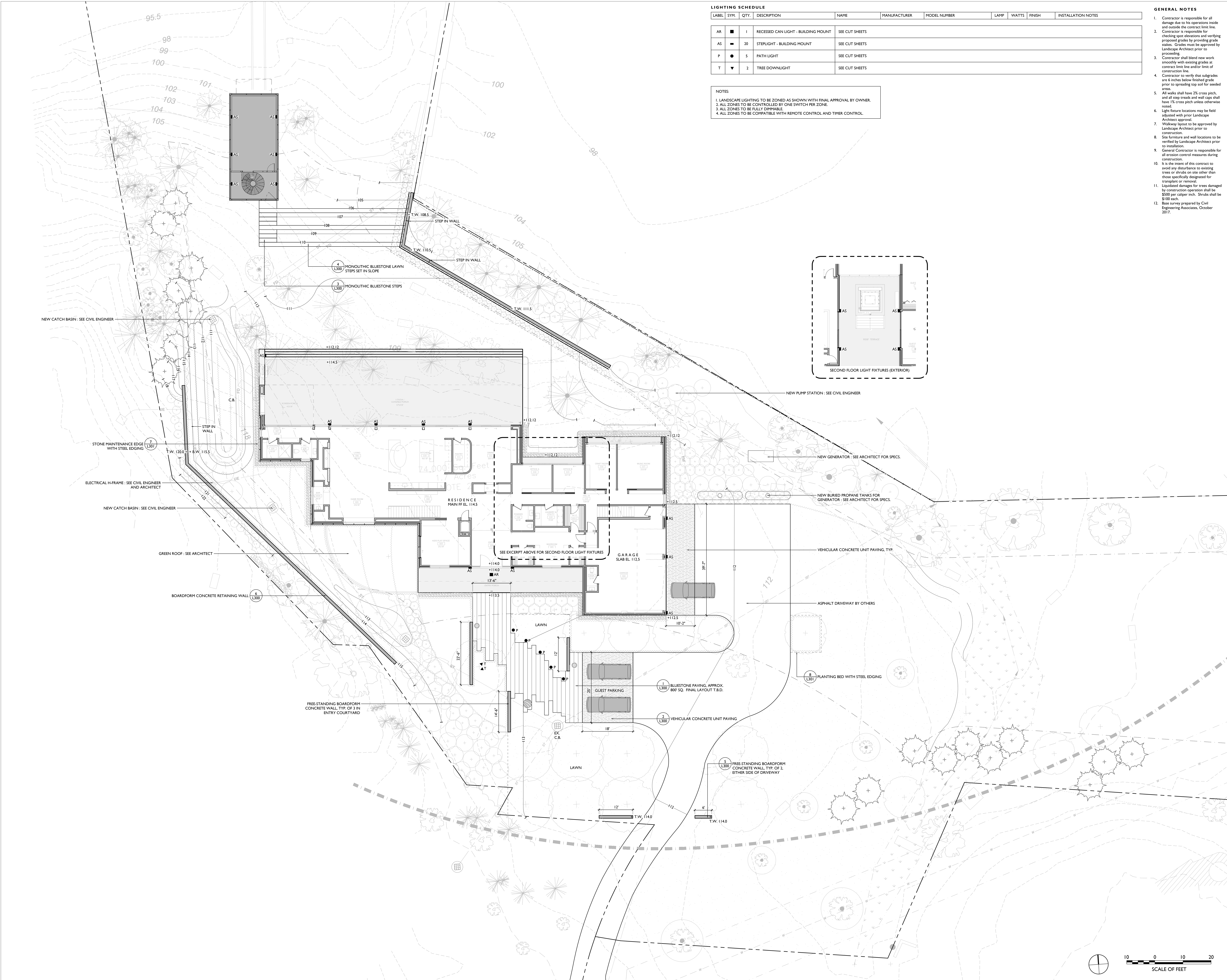
Sheet Number

L001



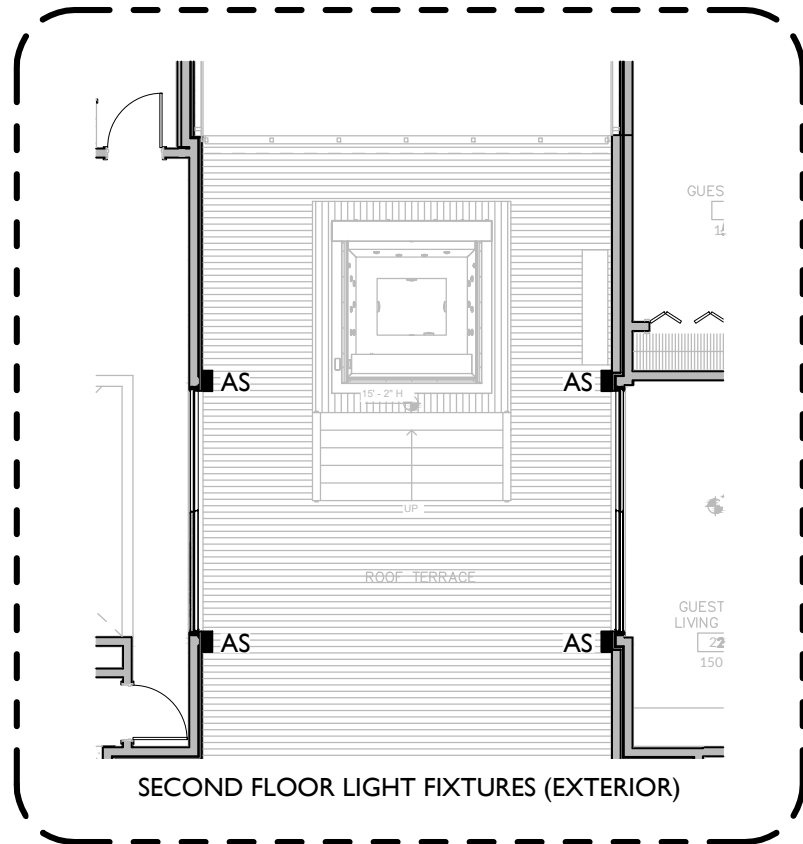
20 0 20 40  
SCALE OF FEET





| LIGHTING SCHEDULE |      |      |                                     |                |              |              |      |       |        |
|-------------------|------|------|-------------------------------------|----------------|--------------|--------------|------|-------|--------|
| LABEL             | SYM. | QTY. | DESCRIPTION                         | NAME           | MANUFACTURER | MODEL NUMBER | LAMP | WATTS | FINISH |
| AR                | ■    | 1    | RECESSED CAN LIGHT - BUILDING MOUNT | SEE CUT SHEETS |              |              |      |       |        |
| AS                | ■    | 20   | STEPLIGHT - BUILDING MOUNT          | SEE CUT SHEETS |              |              |      |       |        |
| P                 | ●    | 5    | PATH LIGHT                          | SEE CUT SHEETS |              |              |      |       |        |
| T                 | ▼    | 2    | TREE DOWNLIGHT                      | SEE CUT SHEETS |              |              |      |       |        |

NOTES:  
1. LANDSCAPE LIGHTING TO BE ZONED AS SHOWN WITH FINAL APPROVAL BY OWNER.  
2. ALL ZONES TO BE CONTROLLED BY ONE SWITCH PER ZONE.  
3. ALL ZONES TO BE FULLY DIMMABLE.  
4. ALL ZONES TO BE COMPATIBLE WITH REMOTE CONTROL AND TIMER CONTROL.



- GENERAL NOTES**
- Contractor is responsible for all damage due to his operations inside and outside the contract limit line. Contractor is responsible for checking spot elevations and verifying proposed grades by providing grade stakes. Grades must be approved by Landscape Architect prior to proceeding.
  - Contractor shall blend new work smoothly with existing grades at contract limit line and/or limit of construction line.
  - Contractor to verify that subgrades are 6 inches below finished grade prior to spreading top soil for seeded areas.
  - All walks shall have 2% cross pitch, and all step treads and wall caps shall have 1% cross pitch unless otherwise noted.
  - Light fixture locations may be field adjusted with prior Landscape Architect approval.
  - Walkway layout to be approved by Landscape Architect prior to construction.
  - Site furniture and wall locations to be verified by Landscape Architect prior to installation.
  - General Contractor is responsible for all erosion control measures during construction.
  - It is the intent of this contract to avoid any disturbance to existing trees or shrubs on site other than those specifically designated for transplant or removal.
  - Liquidated damages for trees damaged by construction operation shall be \$500 per caliper inch. Shrubs shall be \$100 each.
  - Base survey prepared by Civil Engineering Associates, October 2017.



| KEY                       | QTY | SCIENTIFIC NAME                              | COMMON NAME                    | SIZE         | SHADING  |
|---------------------------|-----|----------------------------------------------|--------------------------------|--------------|----------|
| <b>TREES</b>              |     |                                              |                                |              |          |
| AR                        | 3   | Acer rubrum 'Red Sunset'                     | RED MAPLE                      | 45'-5" CAL.  | AS SHOWN |
| AS                        | 1   | Acer saccharum 'Green Mousetail'             | GREEN THROAT/SLUGAR MAPLE      | 45'-5" SHOWN | AS SHOWN |
| CB                        | 4   | Carpinus betulus 'Fastigiata'                | EUROPEAN HORNBEAM              | 23'-3" CAL.  | AS SHOWN |
| BRS                       | 10  | Betula nigra 'Heritage' (single stem)        | HERITAGE RIVER BIRCH           | 7'-3.5" CAL. | AS SHOWN |
| GT                        | 8   | Gleditsia inaequalis var. 'Nutsu' (or equal) | HAWAII MONET/LOCUST (OR EQUAL) | 45'-5" CAL.  | AS SHOWN |
| PA                        | 8   | Picea abies                                  | NORWAY SPRUCE                  | 12'-14" HT.  | AS SHOWN |
| PS                        | 9   | Picea strobus                                | WHITE FINE                     | 12'-14" HT.  | AS SHOWN |
| <b>SHRUBS</b>             |     |                                              |                                |              |          |
| CS                        | 46  | Camellia sasanqua 'Nurell' (or equal)        | SANTI RED TWIG DOGWOOD         | 45           | AS SHOWN |
| PH                        | 11  | Photinia major 'Blue Shadow'                 | BLUE SHADOW/PHOTINILLA         | 45           | AS SHOWN |
| IV                        | 14  | Ilex verticillata 'Red Spirit'               | RED SPIRIT WINTERBERRY         | 45           | AS SHOWN |
| PO                        | 13  | Physocarpus opulifolius 'Coppertina'         | COPPERTINA WINEBARK            | 45           | AS SHOWN |
| SA                        | 54  | Rhus aromatica 'Glow-Low'                    | LOW GLOW SPICE                 | 45           | AS SHOWN |
| VA                        | 17  | Viburnum acerifolium                         | MAILEDAR VIBURNUM              | 45           | AS SHOWN |
| <b>ORNAMENTAL GRASSES</b> |     |                                              |                                |              |          |
| CP                        | 360 | Carex pennsylvanica                          | OAK SEDGE                      | #1           | 12" C.   |
| C32                       | 244 | Carex stricta                                | TUSsock SEDGE                  | #1           | 18" C.   |
| D3                        | 340 | Deschampsia cespitosa 'Goldbrau'             | TUFFED HAIR GRASS              | #3           | 18" C.   |
| PR                        | 165 | Panicum virgatum 'Ruby Ribbon'               | SHENANDOAH SWITCH GRASS        | 23           | 24" C.   |
| JE                        | 30  | Juncus effusus                               | COMMON RUSH                    | 23           | 34" C.   |
| <b>PERENNIALS</b>         |     |                                              |                                |              |          |
| ED                        | 200 | Diemansia pauciflora                         | HAY-SCENTED FERN               | #1           | 24" C.   |
| ED                        | 48  | Euruchorda dubaut 'Leda Joe'                 | LITTLE JOE PINEWED             | #1           | 18" C.   |
| SE                        | 50  | Stemodia strictiflora                        | OSTRICH FERN                   | #1           | 30" C.   |
| PAC                       | 140 | Polystichum arachnoides                      | CENTURY FERN                   | #1           | 18" C.   |
| TC                        | 132 | Taxella cordata                              | FOAM FLOWER                    | #1           | 18" C.   |

[illegible]

**WAGNERHODGSON**  
LANDSCAPE ARCHITECTURE  
WY002.064.0010 MYS18.567.1791 wagnerhodgson.com

65 OAKLEDGE RESIDENCE  
BURLINGTON, VT

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTIES, OTHER THAN THOSE PROPERLY AUTHORIZED BY CONTRACT. NOT FOR USE WITHOUT THE SPECIFIC WRITTEN AUTHORIZATION OF BERGDEYE.

### Issue / Revision Log

FOR PERMIT

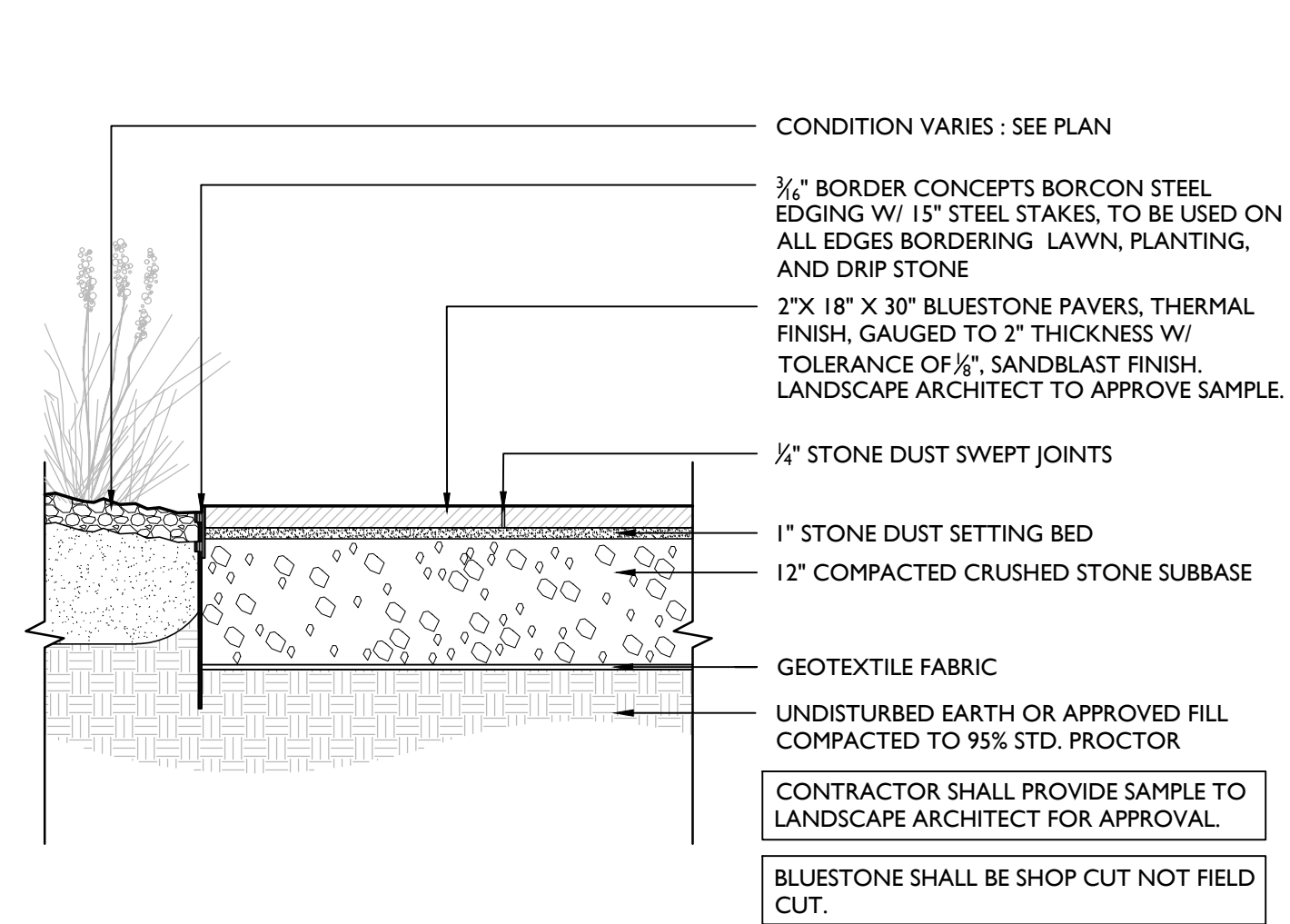
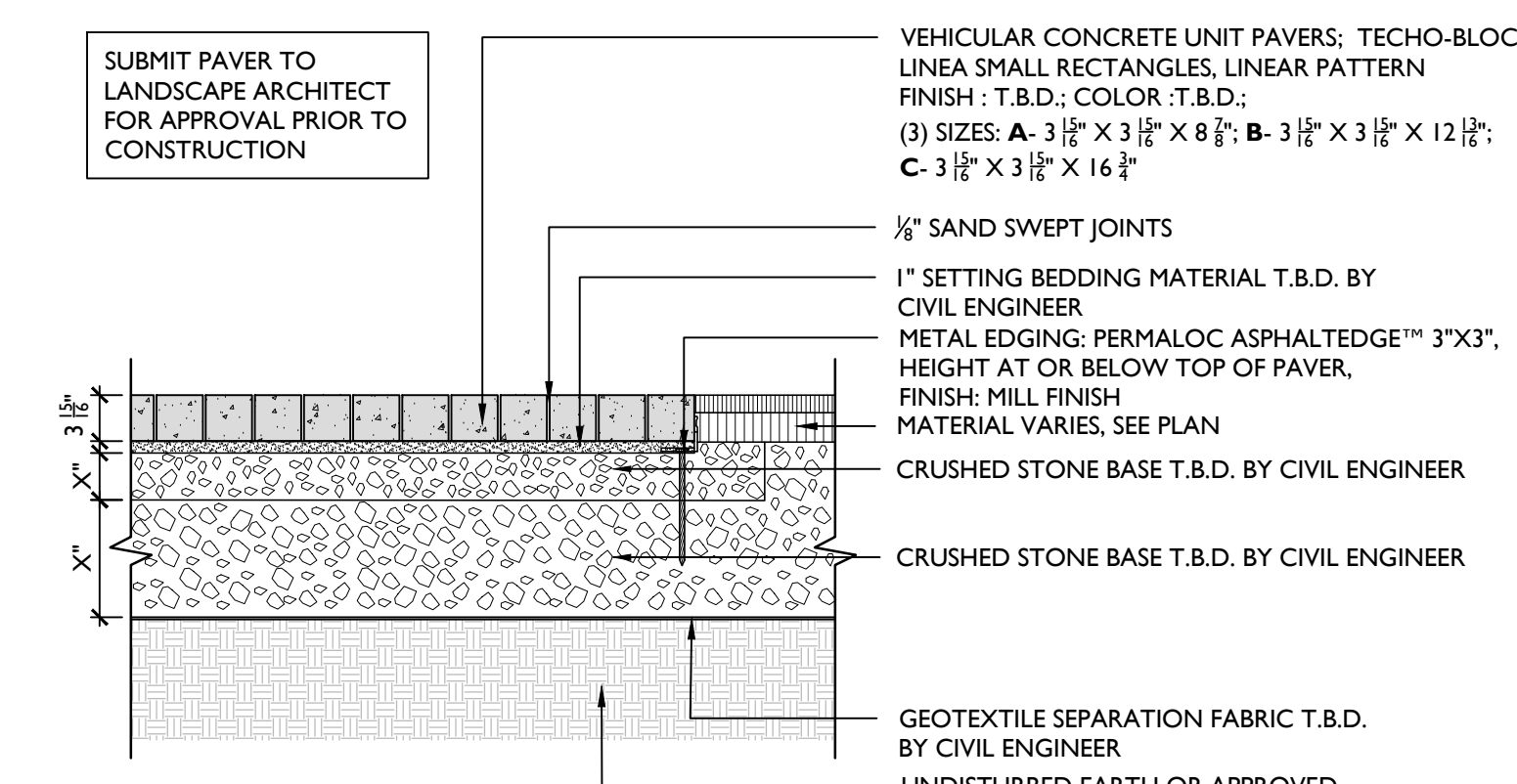
Title  
**PLANTING**

Shane Murphy

# L200





**1** BLUESTONE PAVING  
3/4" = 1'-0"

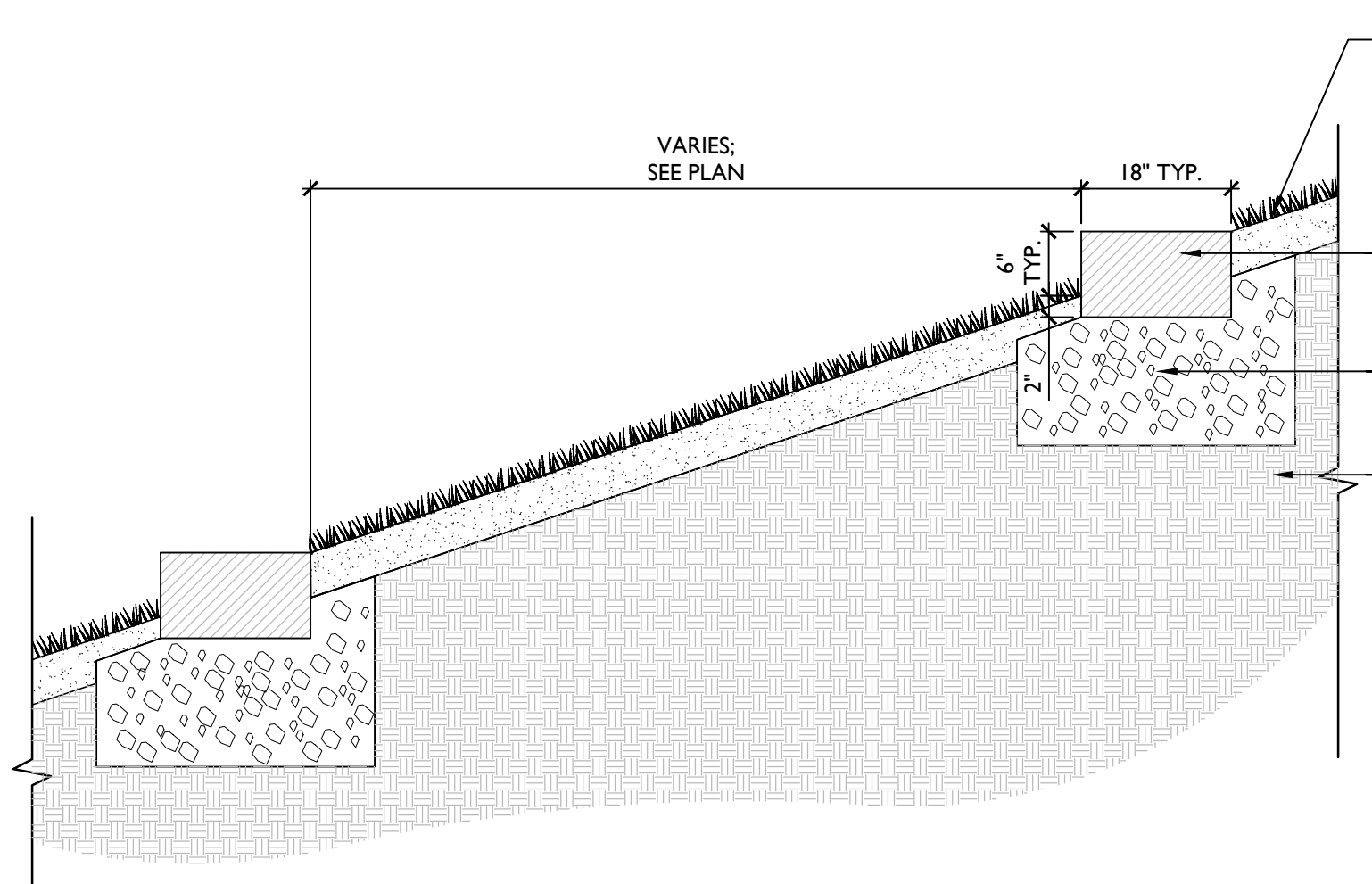
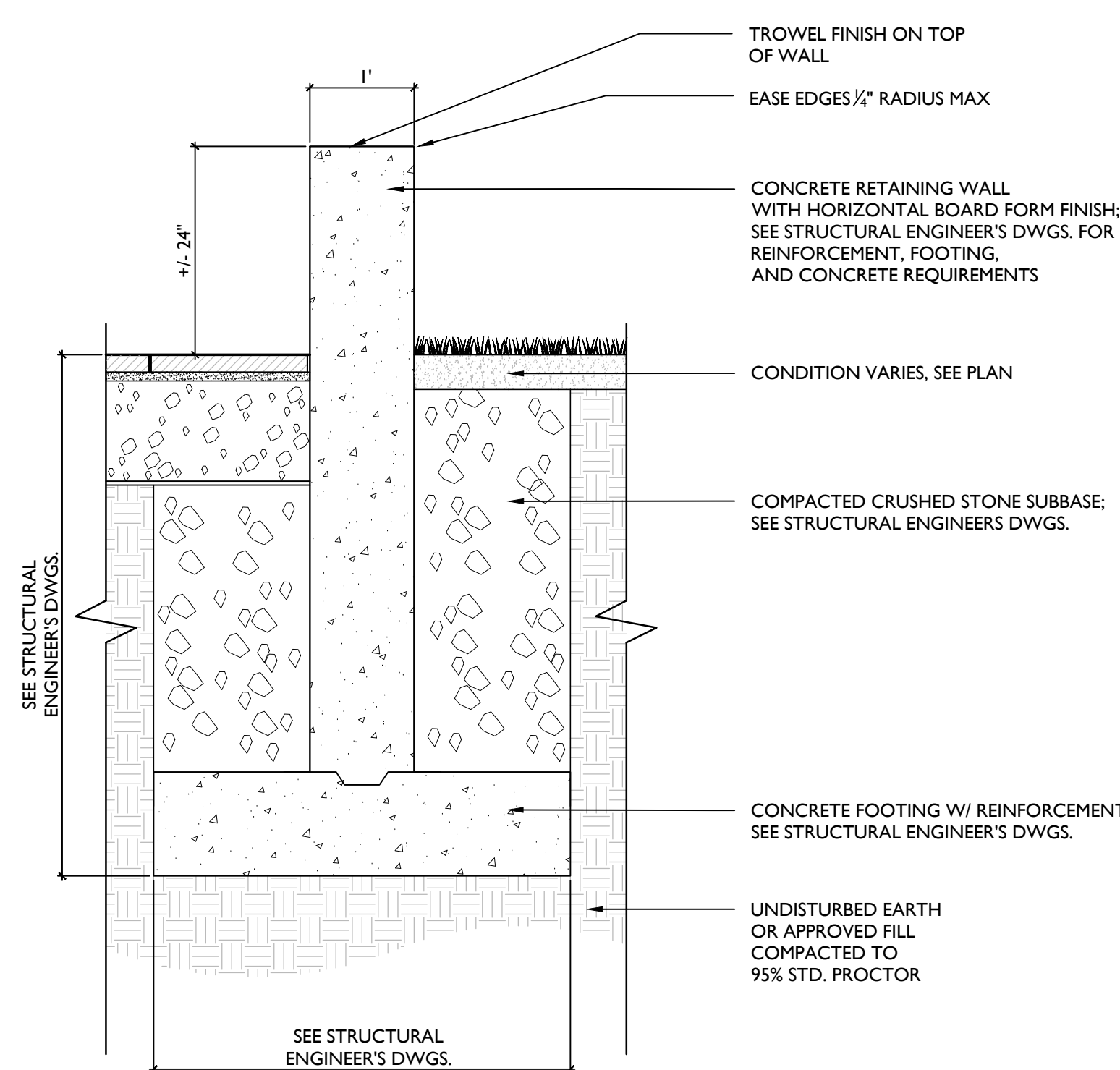
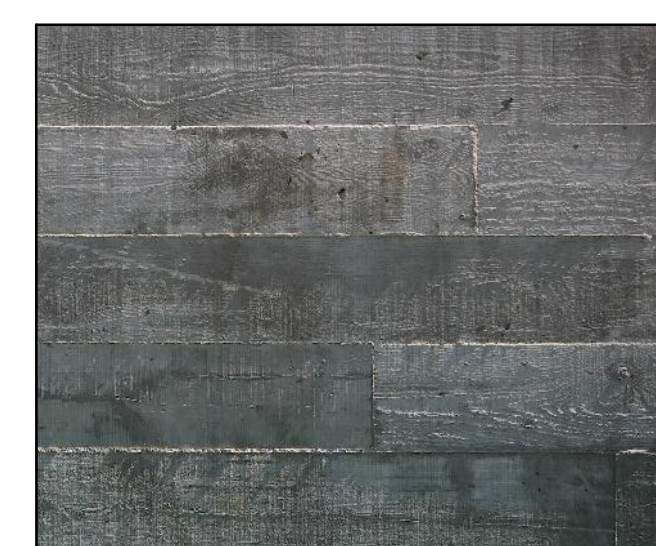
NOTES:

REFERENCE: INTERLOCKING CONCRETE PAVEMENT INSTITUTE, TECHNICAL SPECIFICATION #9 (GUIDE SPECIFICATION FOR THE CONSTRUCTION OF INTERLOCKING CONCRETE PAVEMENT).

2. INSTALL PER MANUFACTURER'S REQUIREMENTS.

3. THE FINE AGGREGATE TO BE USED IN THE SETTING BED SHALL BE CLEAN, HARD SAND WITH DURABLE PARTICLES AND FREE FROM ADHERENT COATINGS, LUMPS OF CLAY, ALKALI SALTS AND ORGANIC MATTERS. IT SHALL BE UNIFORMLY GRADED FROM "COARSE" TO "FINE" AND ALL PASSING THE NO. 4 SEIVE AND MEET WITH GRADATION REQUIREMENTS WHEN TESTED IN ACCORDANCE WITH THE STANDARD METHOD OF TEST FOR SIEVE AND SCREEN ANALYSIS FOR FINE AND COARSE AGGREGATES ASTM DESIGNATION C-136-67.

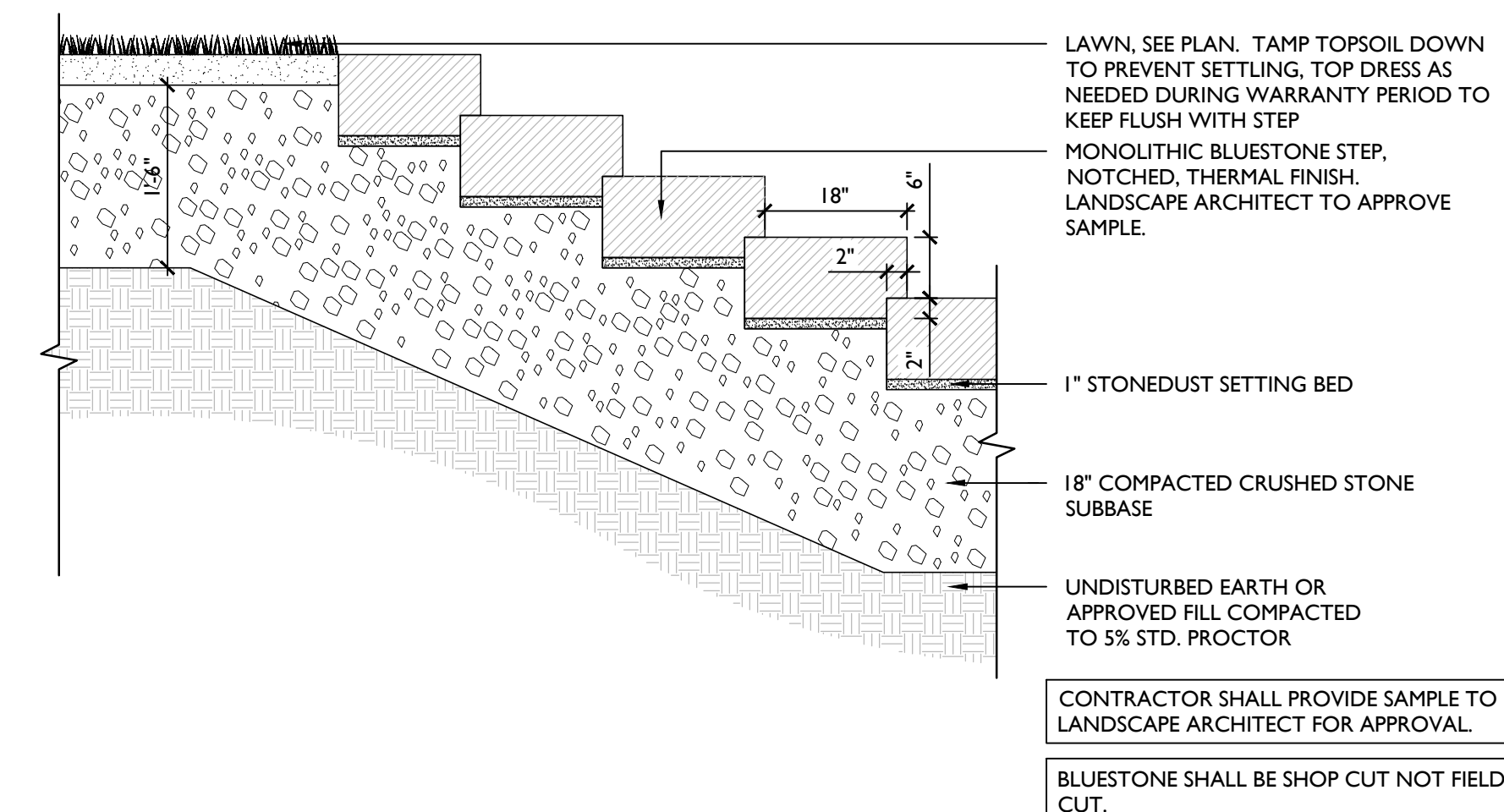
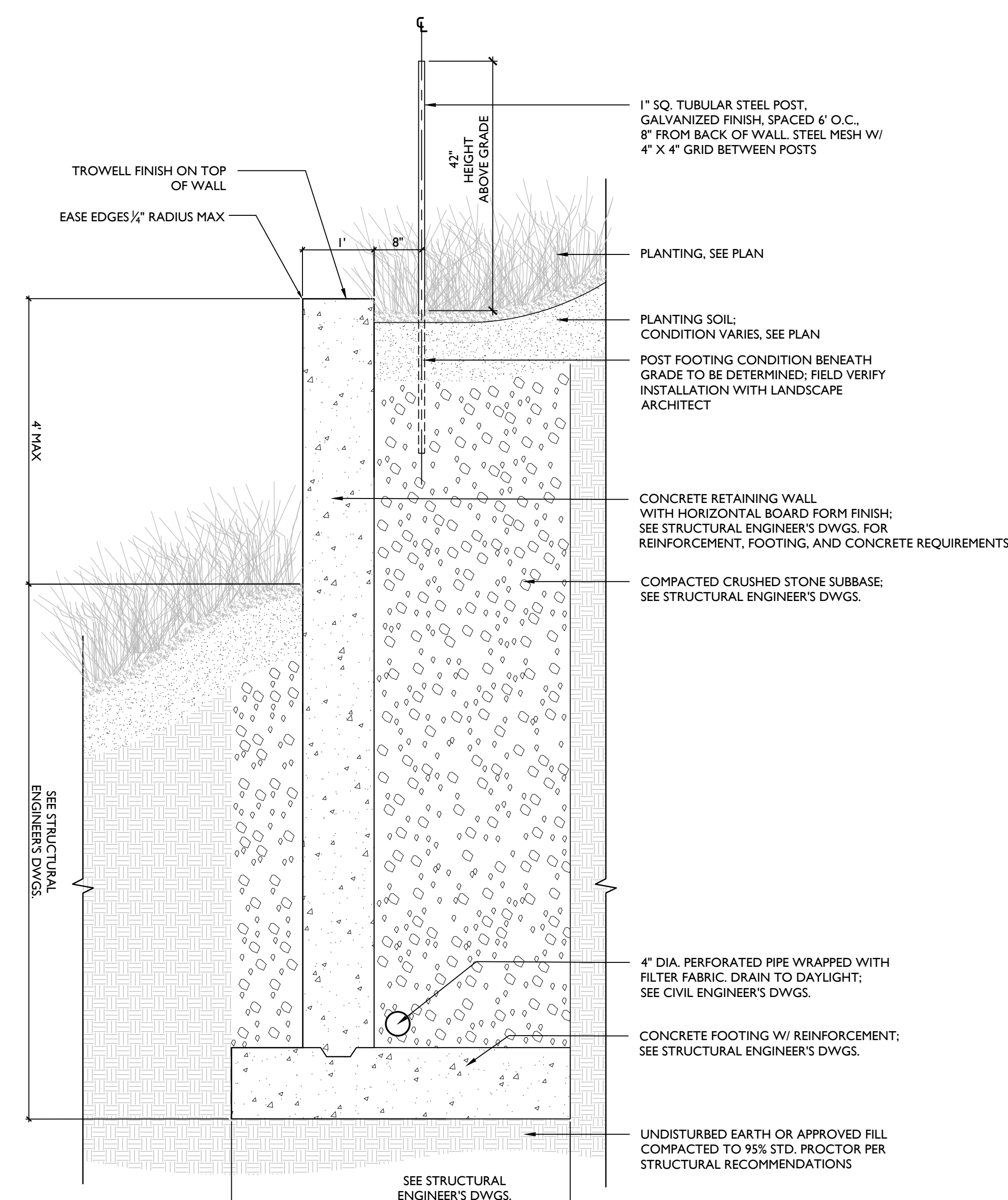
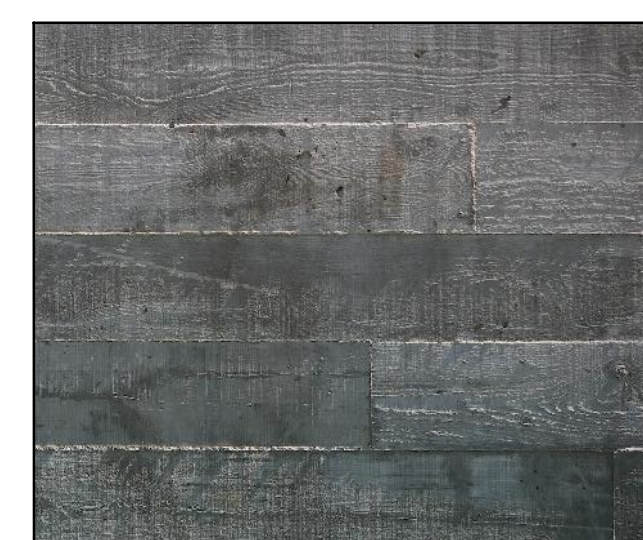
4. CONCRETE UNIT PAVERS SHOULD BE LAID WITH A MINIMUM JOINT WIDTH OF 1/8" TO A MAXIMUM OF 1/4". CARE SHOULD ALWAYS BE TAKEN TO MAINTAIN THIS MINIMUM JOINT SPACING TO MINIMIZE PAVES TO PAVES CONTACT. THE JOINTS SHOULD THEN BE SWEEPED WITH DRY SAND. ANY SURPLUS SAND SHOULD BE REMOVED FROM THE COMPLETED PAVING.

**2** VEHICULAR CONCRETE UNIT PAVING  
3/4" = 1'-0"**4** MONOLITHIC BLUESTONE LAWN STEPS  
1" = 1'-0"**5** FREESTANDING BOARDFORM CONCRETE WALL  
3/4" = 1'-0"

HORIZONTAL BOARDFORM NOTES:  
1. HORIZONTAL BOARD FORM FINISH ALL EXPOSED VERTICAL SURFACES, APPLY AT LEAST 6" BELOW GRADE, CONSTRUCT 4'X4' MOCK-UP FOR APPROVAL BY LANDSCAPE ARCHITECT, FOR WALL AND MOCK UP, USE REAL ROUGH SAWN 6" BOARDS.

MOCKUP OF CONCRETE WALL REQUIRED TO BE CONSTRUCTED BY CONTRACTOR FOR APPROVAL PRIOR TO CONSTRUCTION

REFER TO STRUCTURAL ENGINEER'S DRAWINGS FOR ALL CONCRETE WALL FOOTINGS, REINFORCEMENT REQUIREMENTS, AND CONCRETE MIX DESIGN, NOTIFY LANDSCAPE ARCHITECT OF ANY CHANGES TO WALL DESIGN PRIOR TO INSTALLATION.

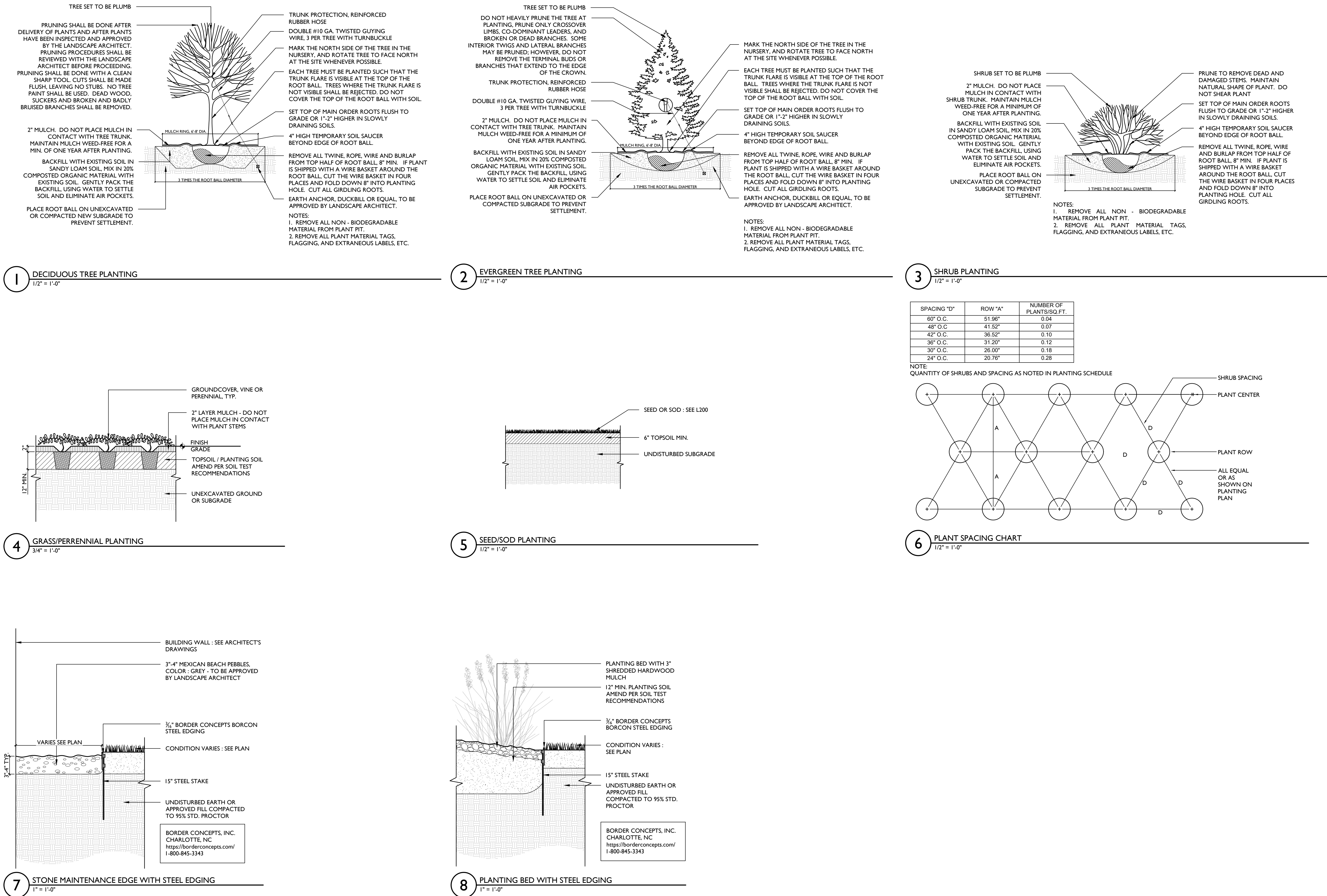
**3** MONOLITHIC BLUESTONE STEPS  
1" = 1'-0"**6** BOARDFORM CONCRETE RETAINING WALL W/ SAFETY FENCE AT BACK OF WALL  
3/4" = 1'-0"

HORIZONTAL BOARDFORM NOTES:  
1. HORIZONTAL BOARD FORM FINISH ALL EXPOSED VERTICAL SURFACES, APPLY AT LEAST 6" BELOW GRADE, CONSTRUCT 4'X4' MOCK-UP FOR APPROVAL BY LANDSCAPE ARCHITECT, FOR WALL AND MOCK UP, USE REAL ROUGH SAWN 6" BOARDS.

MOCKUP OF CONCRETE WALL REQUIRED TO BE CONSTRUCTED BY CONTRACTOR FOR APPROVAL PRIOR TO CONSTRUCTION

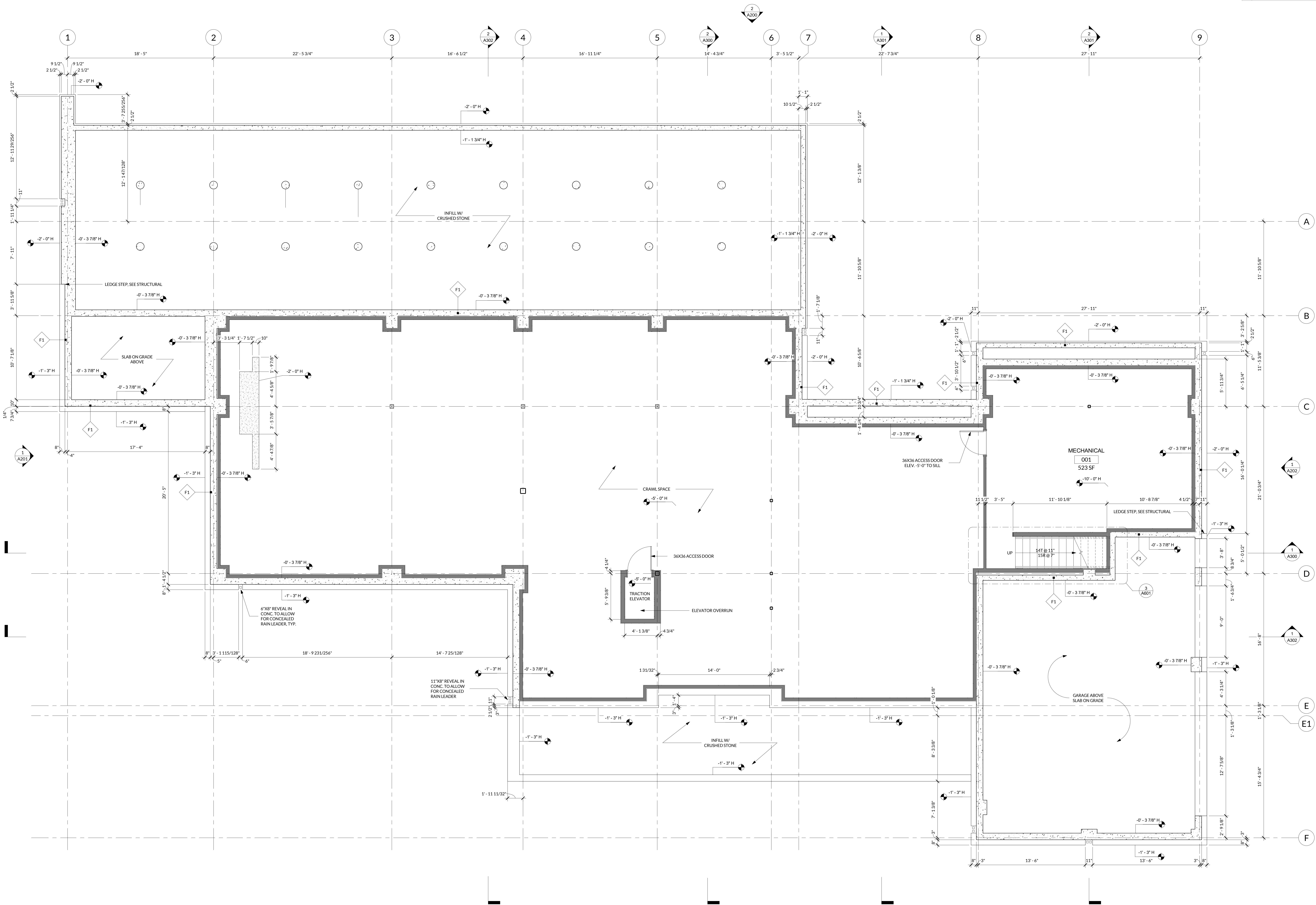
REFER TO STRUCTURAL ENGINEER'S DRAWINGS FOR ALL CONCRETE WALL FOOTINGS, REINFORCEMENT REQUIREMENTS, AND CONCRETE MIX DESIGN, NOTIFY LANDSCAPE ARCHITECT OF ANY CHANGES TO WALL DESIGN PRIOR TO INSTALLATION.







| PLAN KEY                  |     |              |    | FINISH KEY                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|-----|--------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EXTERIOR INFORMATION      | W1  | SEE W3/A4.00 | F1 | SEE F1/A4.00                                                                                                                                                                                               | <b>WALL FINISHES</b><br><b>TL</b> 5/8" MOISTURE RESISTANT SHEETROCK<br>1/4" OF TILE; TOTAL 3/8" ASSEMBLY<br><b>WB</b> 3/4" WHITE OAK W/WHITE OIL FINISH ON<br>1/2" PLYWOOD; TOTAL 1/4" ASSEMBLY<br><b>FC</b> BOARD-FORM CONCRETE W/ SATIN OIL<br>BASE SEALER                                                                                                                          |
|                           | W1A | SEE W2/A4.00 | R1 | SEE R1/A4.02                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                       |
|                           | W2  | SEE W3/A4.00 | R2 | SEE R2/A4.02                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                       |
|                           |     |              | R3 | SEE R3/A4.02                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                       |
| INTERIOR INFORMATION      | P1  | 2X6 FRAMING  | P3 | 2X8 FRAMING                                                                                                                                                                                                | <b>NOTES</b><br>1 ALL INTERIOR FRAMING SHALL BE 2X6'S.<br>INTERIOR FINISH TO BE 5/8" PLASTERBOARD WITH<br>TWO COATS PLASTER, TOTAL 3/4" U.N.O.<br>2 PROVIDE THE BACKER/SHEETROCK RESISTANT<br>SHEETROCK IN ALL BATHROOMS; POWDER<br>SHED, OR IN LOCATIONS NOTED W/ TILE OR<br>STONE.<br>3 ALL LOCATIONS W/ SHEAR WALL, WALL<br>BUILDUP OR TOP OF 1/2" PLYWOOD+TYP. - SEE<br>STRUCTURE |
|                           | P2  | 2X4 FRAMING  | P4 | 2X10 FRAMING                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                       |
|                           | L1  | SEE L1/A4.01 | L2 | SEE L2/A4.01                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                       |
|                           |     |              |    |                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>FLOOR FINISH NOTES</b> |     |              |    | 1 ALL FLOOR FINISHES SHALL BE WHITE OAK W/<br>WHITE OIL FINISH<br>2 ALL BATHROOM FLOOR FINISHES SHALL BE TILE.<br>3 TRANSITIONS OF FINISHED FLOOR TO BE<br>ALIGNED TO CENTER OF ROOM IN CLOSED<br>POSITION |                                                                                                                                                                                                                                                                                                                                                                                       |



DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTIES, OTHER THAN THOSE PROPERLY AUTHORIZED BY CONTRACT. NOT FOR USE WITHOUT THE SPECIFIC WRITTEN AUTHORIZATION OF BRDSEYE.

12.12.2018 UPDATED BASEMENT  
(8 AM)

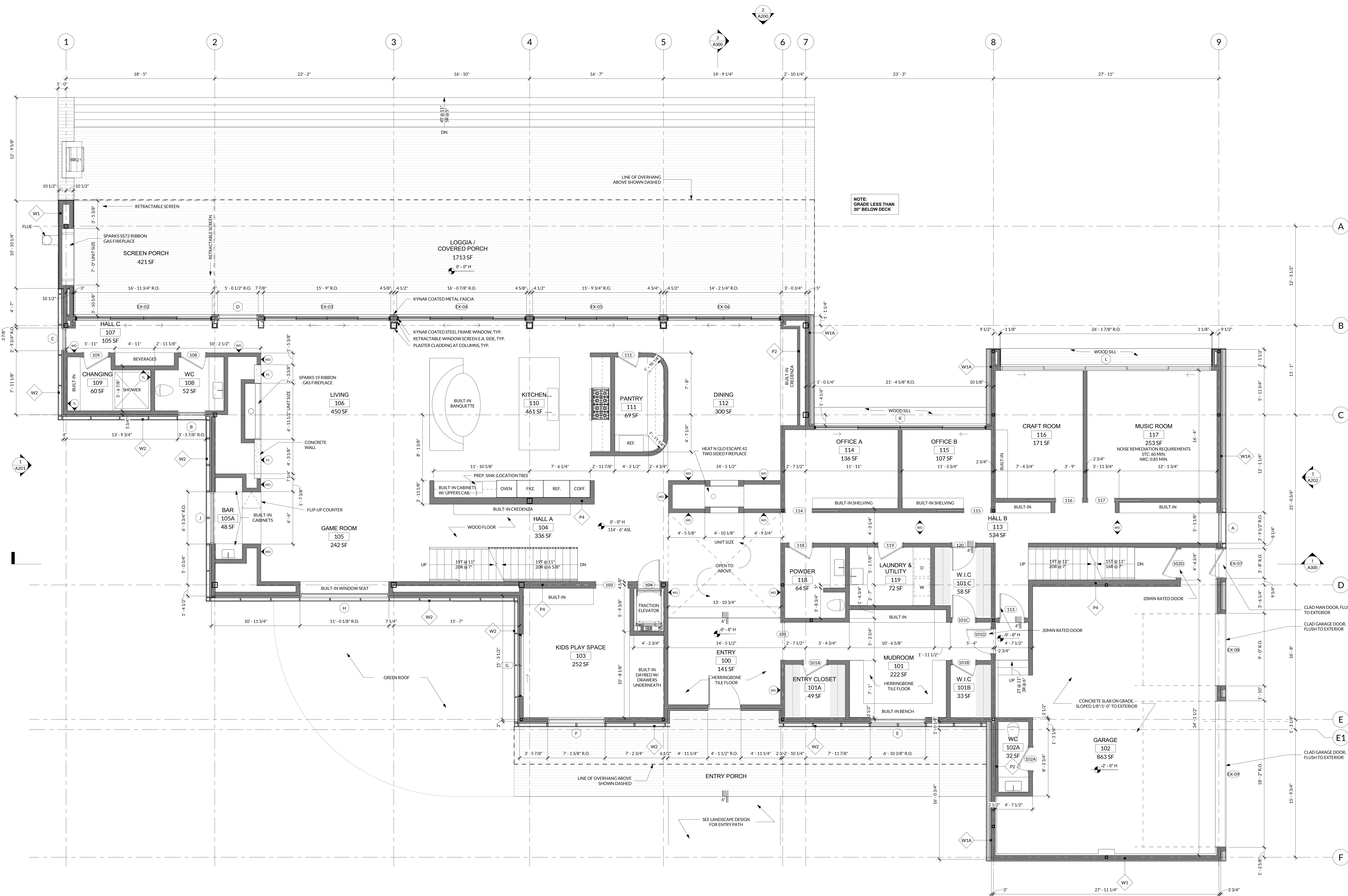
**FOR PERMIT**

Title  
**LOWER FLOOR PLAN**

Sheet Number

# A100





| PLAN KEY             |                    |                   |
|----------------------|--------------------|-------------------|
| EXTERIOR INFORMATION | W1 — SEE W1/A4.00  | F1 — SEE F1/A4.00 |
|                      | W1A — SEE W2/A4.00 | R1 — SEE R1/A4.02 |
|                      | W2 — SEE W3/A4.00  | R2 — SEE R2/A4.02 |
|                      |                    | R3 — SEE R3/A4.02 |
| INTERIOR INFORMATION | P1 — 2X6 FRAMING   | P3 — 2X8 FRAMING  |
|                      | P2 — 2X4 FRAMING   | P4 — 2X10 FRAMING |
|                      | L1 — SEE L1/A4.01  | L2 — SEE L2/A4.01 |
|                      |                    |                   |

| FINISH KEY         |                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WALL FINISHES      | <p>1. 5/8" MOISTURE RESISTANT SHEETROCK &amp; 5/8" TILE; TOTAL 1-3/8" ASSEMBLY</p> <p>2. 3/4" WHITE OAK W/ WHITE OIL FINISH ON 1/2" PLYWOOD; TOTAL 1-1/4" ASSEMBLY</p> <p>3. BOARD-FORM CONCRETE W/ SATIN OIL BASED SEALER</p>                                                                                                                                                   |
| NOTES              | <p>1. ALL INTERIOR FRAMING SHALL BE 2X6'S.</p> <p>2. INTERIOR FINISH TO BE 5/8" PLASTERBOARD WITH TWO COATS OF PLASTER, TOTAL 3/4" UNO.</p> <p>3. PROVIDE TILE BACKER/MOISTURE RESISTANT SHEETROCK IN ALL BATHROOMS, POWDER ROOMS, OR IN LOCATIONS NOTED W/ FILE OR STONE.</p> <p>4. AT LOCATIONS W/ SHEAR WALL, FINISH BUILDUP ON TOP OF 1/2" PLYWOOD TYP. - SEE STRUCTURE.</p> |
| FLOOR FINISH NOTES | <p>1. ALL FLOOR FINISHES SHALL BE WHITE OAK W/ WHITE OIL FINISH UNO.</p> <p>2. ALL BATHROOM FLOOR FINISHES SHALL BE TILE.</p> <p>3. TRANSITIONS OF FINISHED FLOOR TO BE ALIGNED TO CENTER OF DOOR IN CLOSED POSITION.</p>                                                                                                                                                        |



# 65 OAKLEDGE RESIDENCE BURLINGTON, VT

DRAWINGS AND SPECIFICATIONS AS NOTED. MATERIALS AND FINISHES ARE TO BE DETERMINED BY THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE USED FOR ANY OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTY. OTHER THAN THOSE EXPRESSLY AUTHORIZED BY CONTRACT. NOT FOR USE WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF BIRDSEYE.

Issue / Revision Log  
10/10/2018 FOR PERMIT

FOR PERMIT

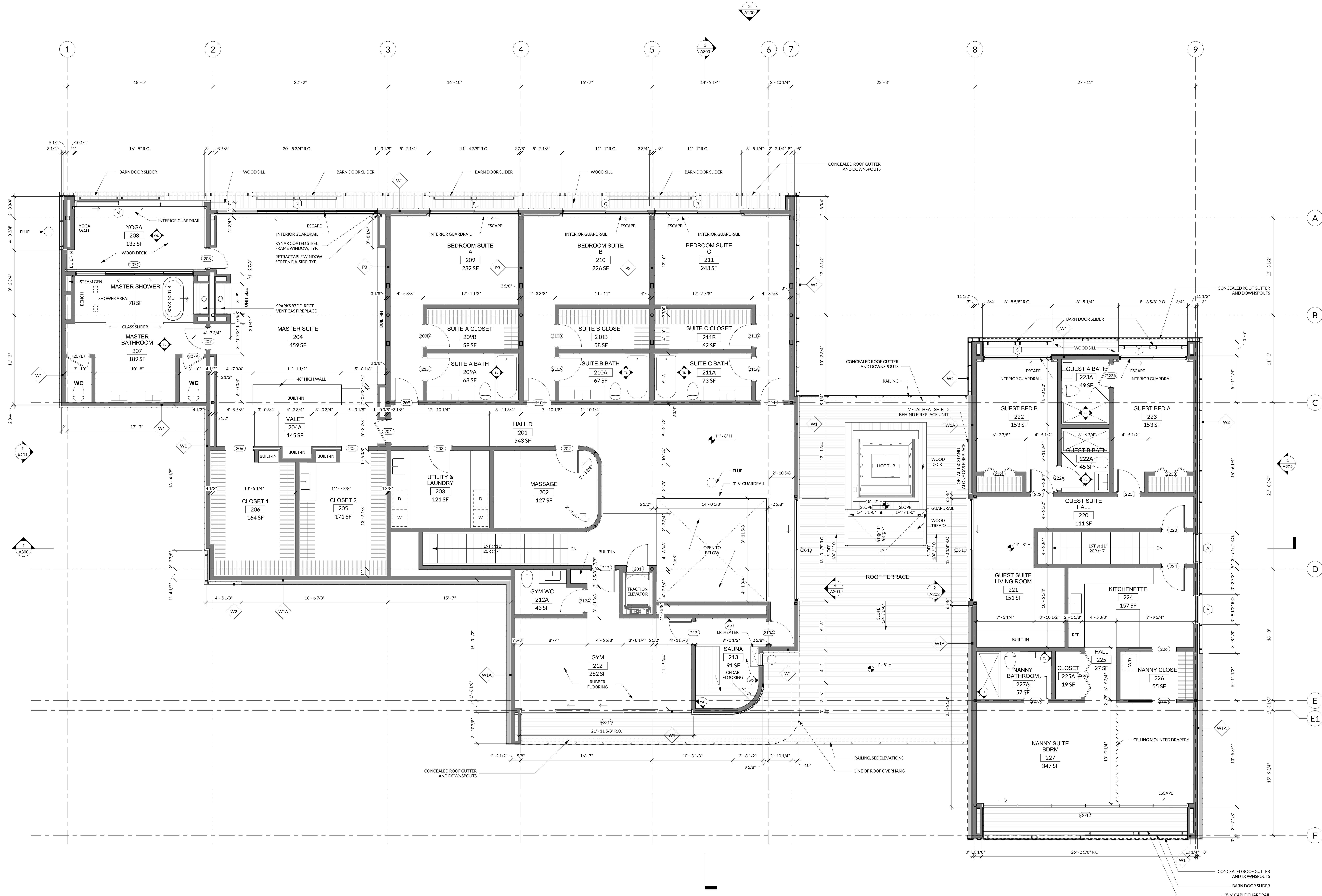
TIN  
UPPER FLOOR PLAN

Sheet Number

**A102**

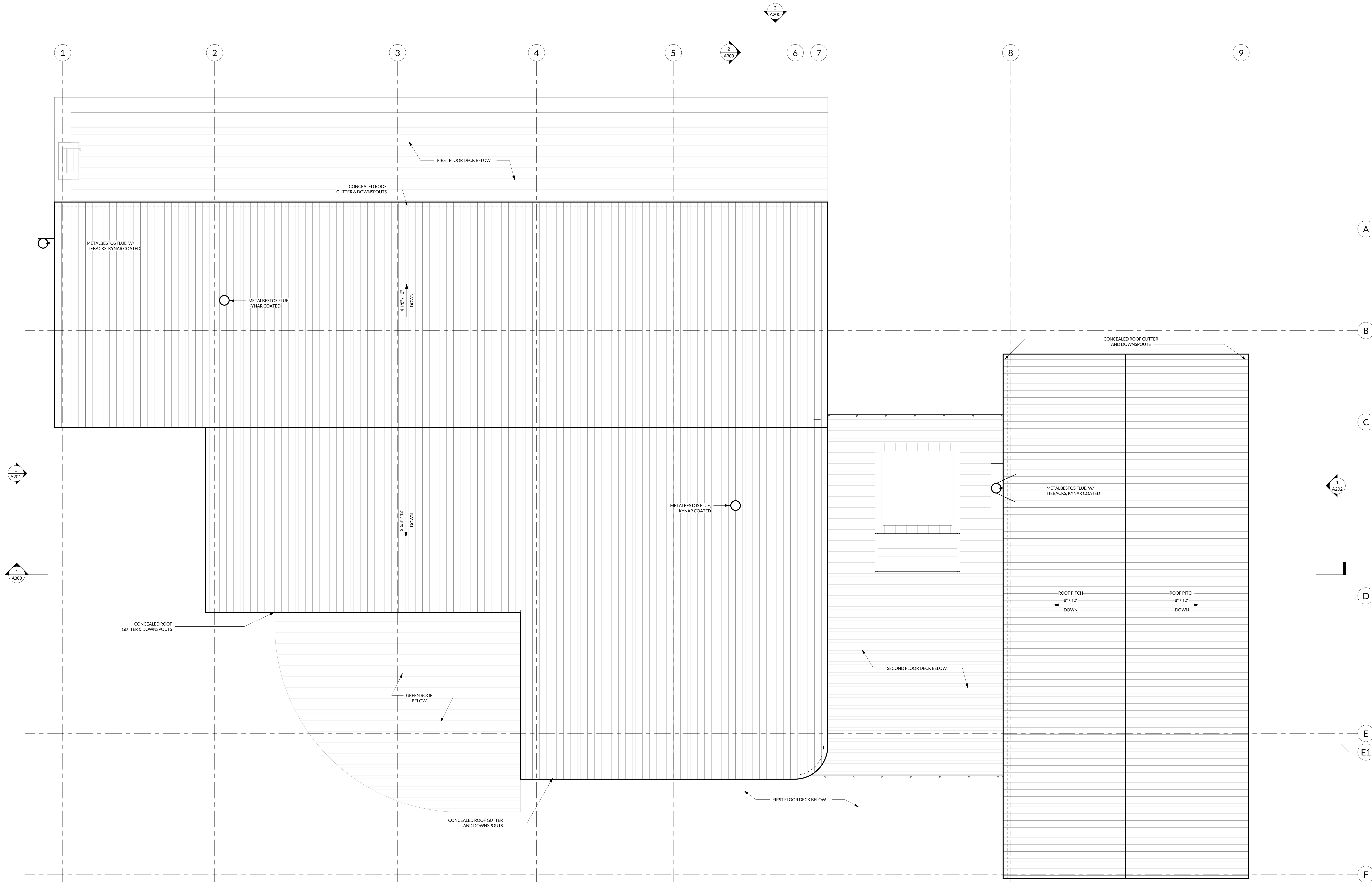
| PLAN KEY             |     |              |    |              |
|----------------------|-----|--------------|----|--------------|
| EXTERIOR INFORMATION | W1  | SEE W1/A4.00 | F1 | SEE F1/A4.00 |
|                      | W1A | SEE W2/A4.00 | R1 | SEE R1/A4.02 |
|                      | W2  | SEE W3/A4.00 | R2 | SEE R2/A4.02 |
|                      |     |              | R3 | SEE R3/A4.02 |
| INTERIOR INFORMATION | P1  | 2X6 FRAMING  | P3 | 2X8 FRAMING  |
|                      | P2  | 2X4 FRAMING  | P4 | 2X10 FRAMING |
|                      | L1  | SEE L1/A4.01 | L2 | SEE L2/A4.01 |
|                      |     |              |    |              |

| FINISH KEY         |                                                                                                                             |                                                                          |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| WALL FINISHES      | W1                                                                                                                          | 5/8" MOISTURE RESISTANT SHEETROCK & 3/8" TYP. TOTAL 1-1/8" ASSEMBLY      |
|                    | W2                                                                                                                          | 3/4" WHITE OAK W/ WHITE OIL FINISH ON 1/2" PLYWOOD TOTAL 1-1/4" ASSEMBLY |
|                    | W3                                                                                                                          | BOARD-FORM CONCRETE W/ SATIN OIL BASED SEALER                            |
| NOTES              | 1. ALL INTERIOR FRAMING SHALL BE 2X6'S. INTERIOR FINISH TO BE 5/8" PLASTERBOARD WITH TWO COATS PLASTER, TOTAL 3/4" UN.O.    |                                                                          |
|                    | 2. PROVIDE TILE BACKER/MOISTURE-RESISTANT SHEETROCK IN ALL BATHROOMS, POWDER ROOMS, OR IN LOCATIONS NOTED W/ TILE OR STONE. |                                                                          |
|                    | 3. AT LOCATIONS W/ SHEAR WALL, FINISH BUILDUP ON TOP OF 1/2" PLYWOOD TYP. - SEE STRUCTURE                                   |                                                                          |
| FLOOR FINISH NOTES | 1. ALL FLOOR FINISHES SHALL BE WHITE OAK W/ WHITE OIL FINISH, UN.O.                                                         |                                                                          |
|                    | 2. ALL BATHROOM/FLOOR FINISHES SHALL BE TILE.                                                                               |                                                                          |
|                    | 3. TRANSITIONS OF FINISHED FLOOR TO BE ALIGNED TO CENTER OF DOOR IN CLOSED POSITION                                         |                                                                          |





| PLAN KEY             |                                                                                     |              |                                                                                     |              |
|----------------------|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------|
| EXTERIOR INFORMATION |    | SEE W1/A4.00 |    | SEE F1/A4.00 |
|                      |  | SEE W2/A4.00 |  | SEE R1/A4.02 |
|                      |  | SEE W3/A4.00 |  | SEE R2/A4.02 |
|                      |                                                                                     |              |  | SEE R3/A4.02 |
| INTERIOR INFORMATION |  | 2X6 FRAMING  |  | 2X8 FRAMING  |
|                      |  | 2X4 FRAMING  |  | 2X10 FRAMING |
|                      |  | SEE L1/A4.01 |  | SEE L2/A4.01 |
|                      |                                                                                     |              |                                                                                     |              |



65 OAKLEDGE RESIDENCE  
BURLINGTON, VT

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE REPRODUCED, COPIED, OR PART FOR ANY OTHER PROJECTS OR PARODES OR BY ANY OTHER PARTIES, OTHER THAN THOSE SPECIFICALLY AUTHORIZED BY CONTRACT. NOT FOR USE WITHOUT THE ARCHITECT'S WRITTEN AUTHORIZATION OF BIRDSEYE.

Issue / Revision Log  
10/25/2018 FOR PERMIT

FOR PERMIT

TIN  
ROOF PLAN

Sheet Number

A103



65 OAKLEDGE RESIDENCE  
BURLINGTON, VT

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECTS OR PARODES OR BY ANY OTHER PARTY, OTHER THAN THOSE EXPRESSLY AUTHORIZED BY CONTRACT. NOT FOR USE WITHOUT THE SPECIFIC WRITTEN AUTHORIZATION OF BIRDSEYE.

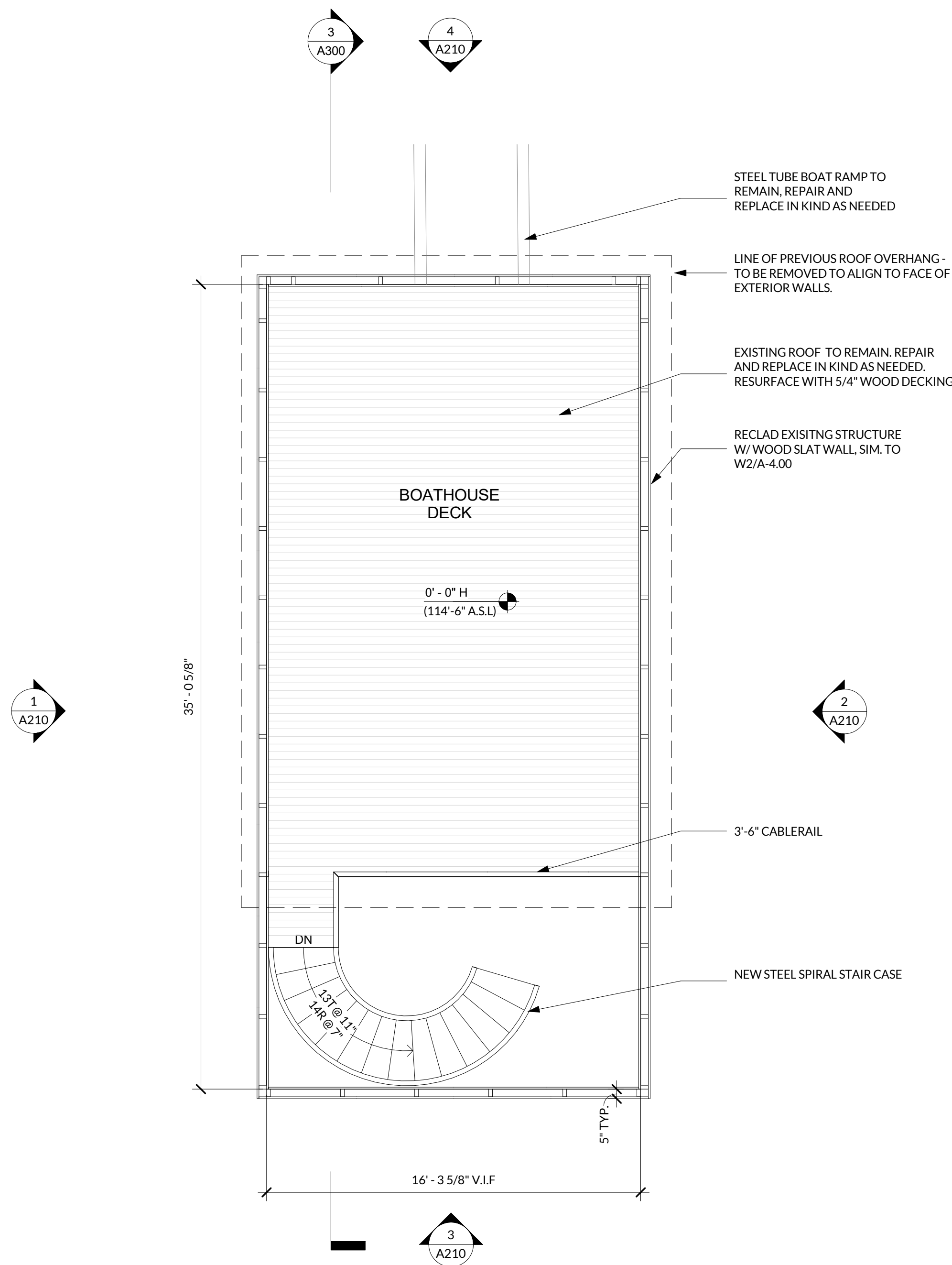
Issue / Revision Log  
10.05.2018 FOR PERMIT

FOR PERMIT

TIN  
BOATHOUSE PLANS

Sheet Number

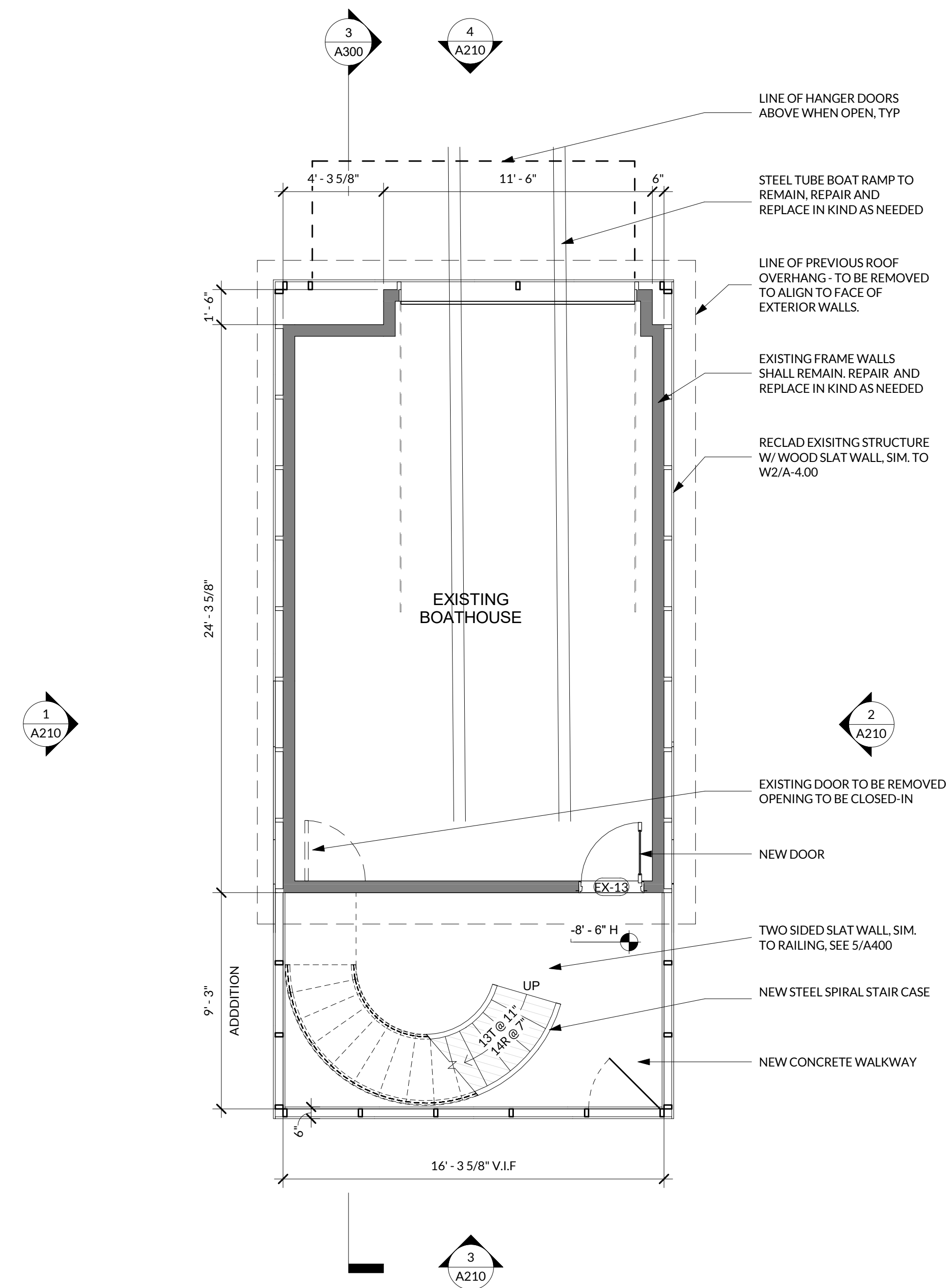
A110



BOATHOUSE DECK

1/4" = 1'-0"

2  
A300 A110

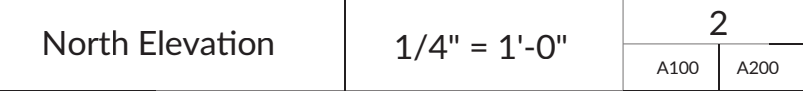


BOATHOUSE PLAN

1/4" = 1'-0"

1  
A110



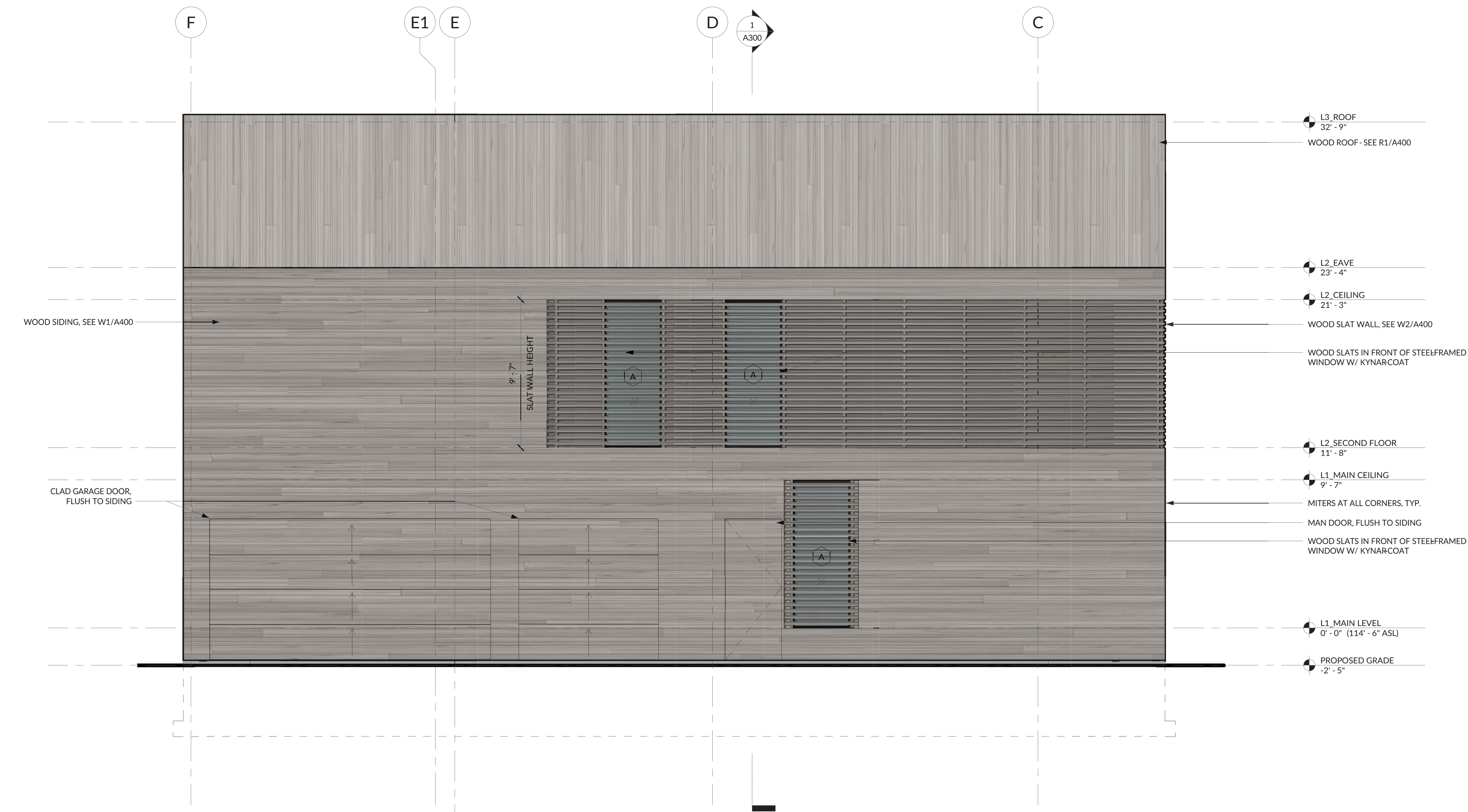
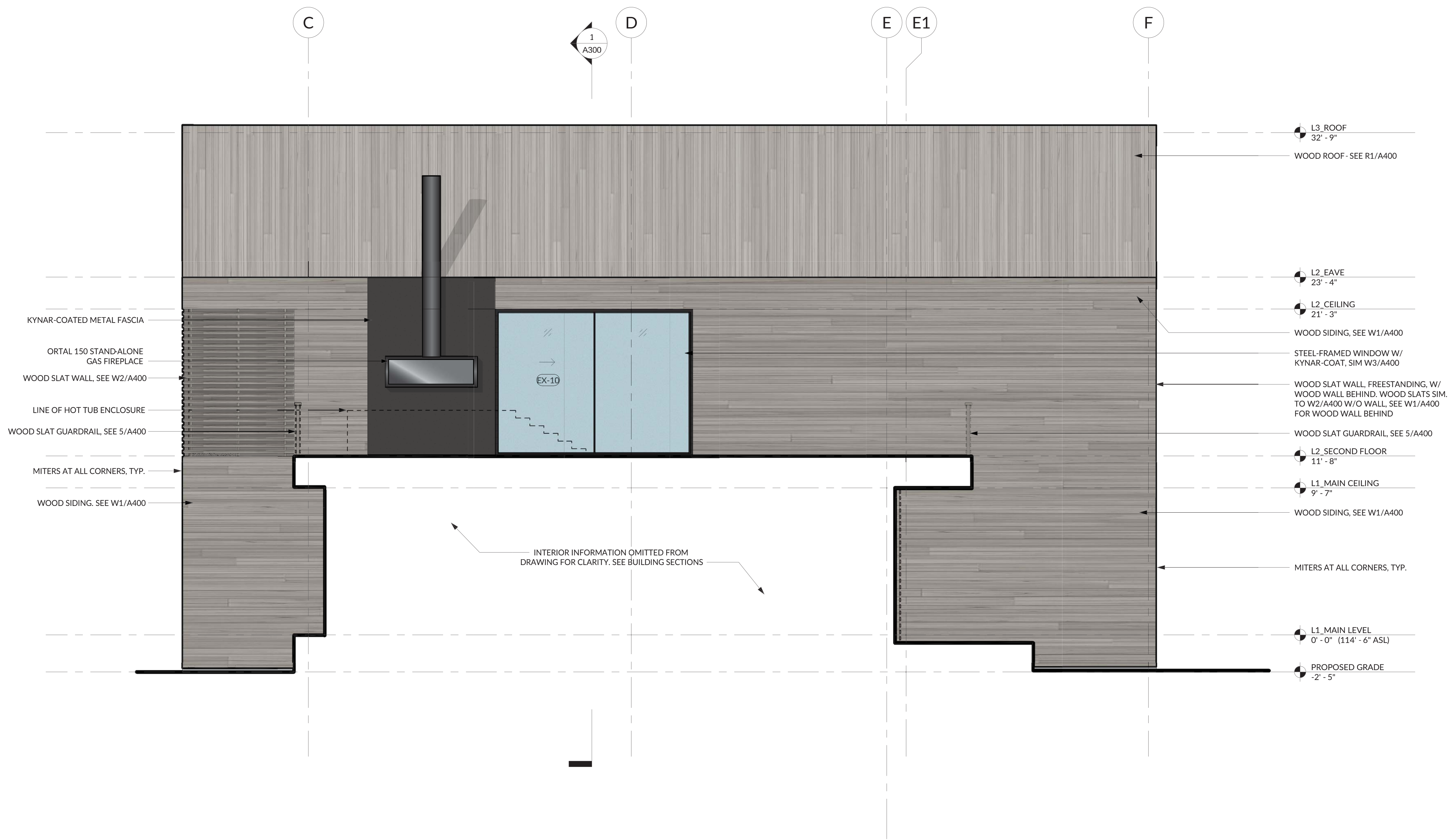








8022031113400-A4



65 OAKLEDGE RESIDENCE  
BURLINGTON, VT

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE LOANED, REPRODUCED, COPIED, OR IN ANY MANNER USED FOR ANY OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTY, OTHER THAN THOSE SPECIFICALLY AUTHORIZED BY CONTRACT. NOT FOR USE WITHOUT THE ARCHITECT'S WRITTEN AUTHORIZATION OF BIRDSEYE.

Issue / Revision Log  
10.18.2019 FOR PERMIT

FOR PERMIT

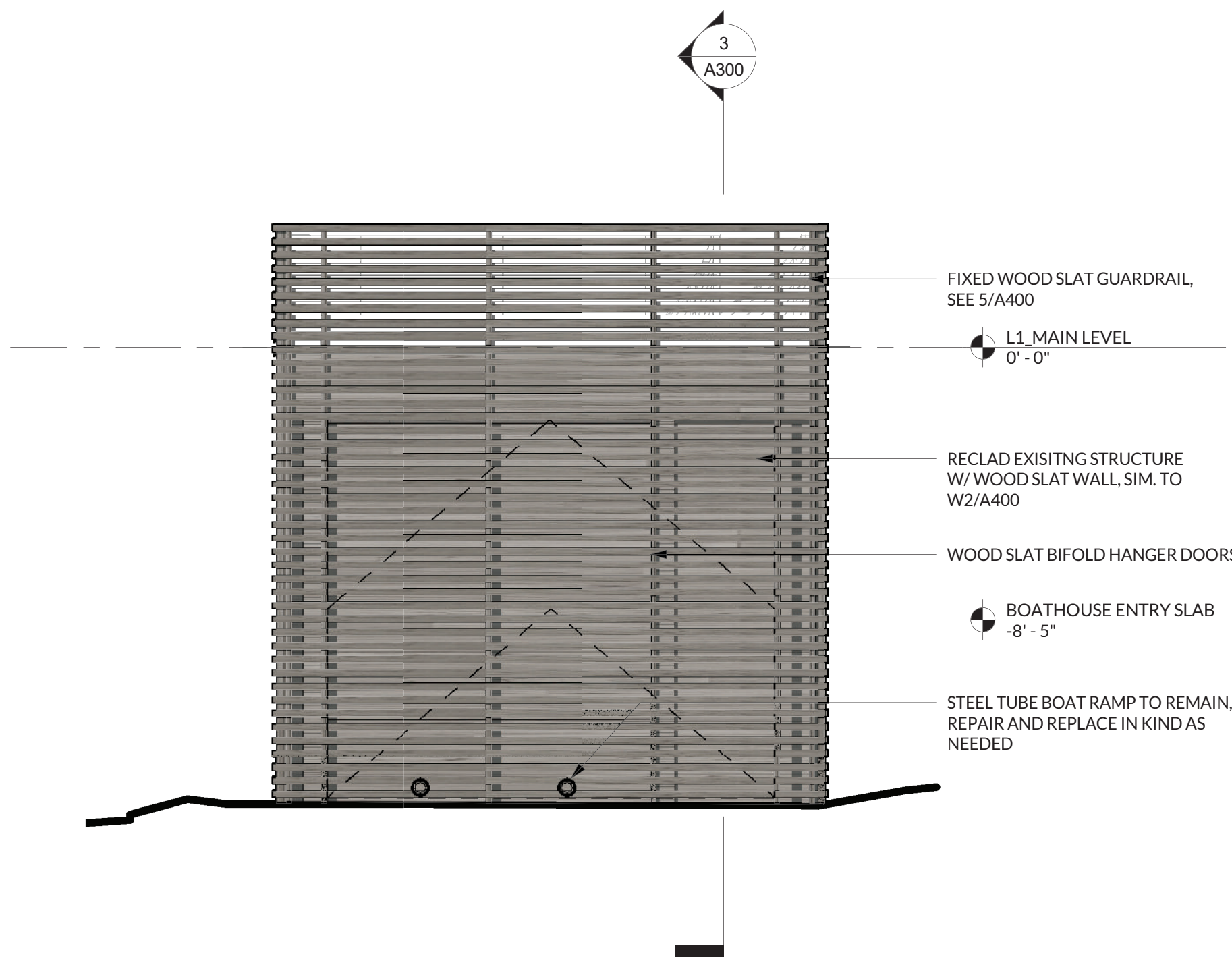
TIN  
EXTERIOR ELEVATION

Sheet Number

A202



8022904113382944

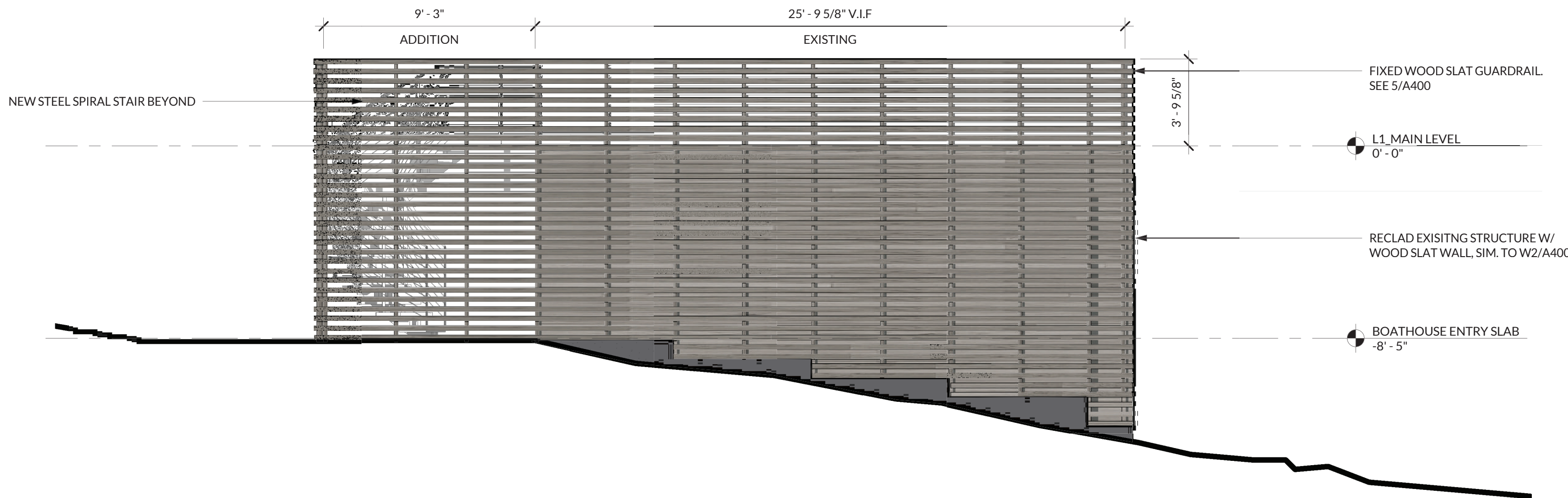


North Elevation - Boathouse

1/4" = 1'-0"

4

A110 A210

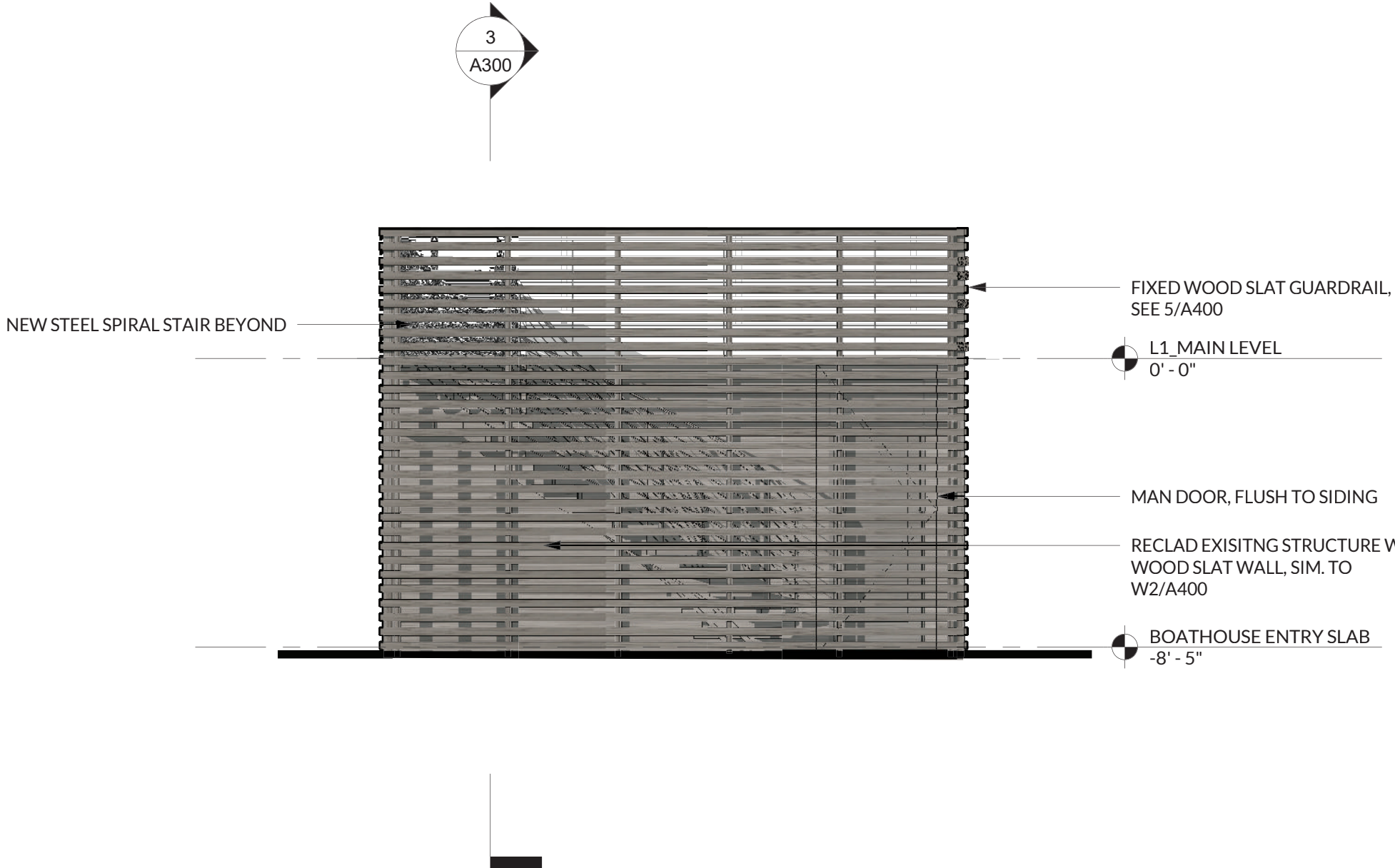


East Elevation - Boathouse

1/4" = 1'-0"

2

A110 A210

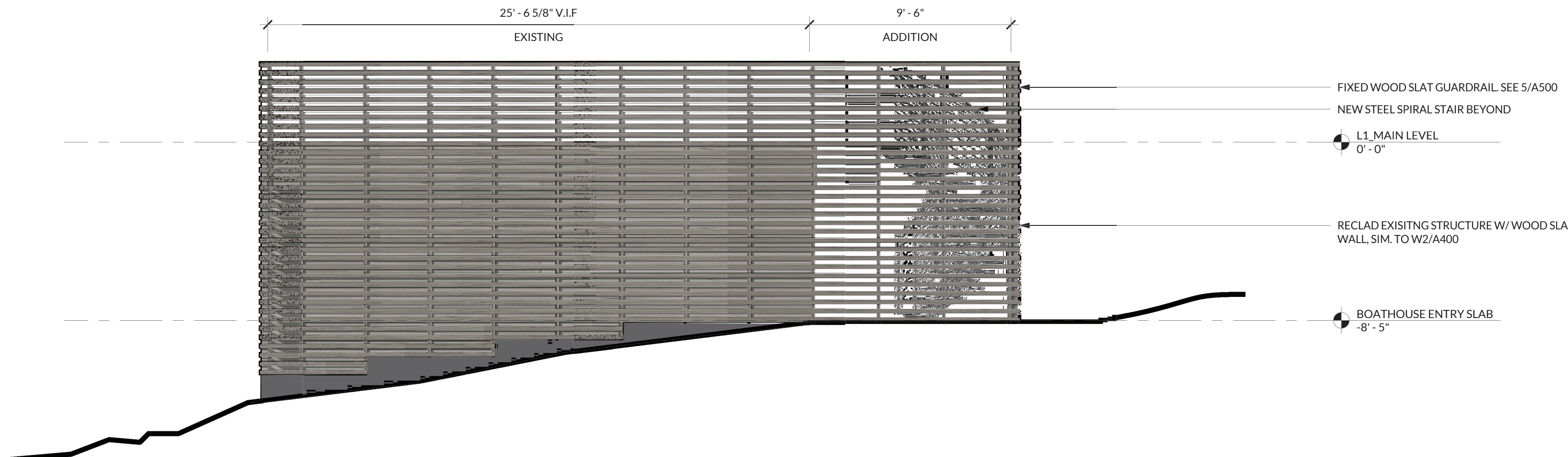


South Elevation - Boathouse

1/4" = 1'-0"

3

A110 A210



West Elevation - Boathouse

1/4" = 1'-0"

1

A110 A210

DRAWINGS AND SPECIFICATIONS AS  
NOTED. THESE DOCUMENTS ARE NOT TO  
BE USED IN WHOLE OR IN PART FOR ANY OTHER  
PROJECTS OR PURPOSES OR BY ANY OTHER  
PARTIES, OTHER THAN THOSE EXPRESSLY  
AUTHORIZED BY CONTRACT. NOT FOR USE  
WITHOUT THE SPECIFIC WRITTEN  
AUTHORIZATION OF BIRDSEYE.

Name / Revision Log  
10.10.2018 FOR PERMIT

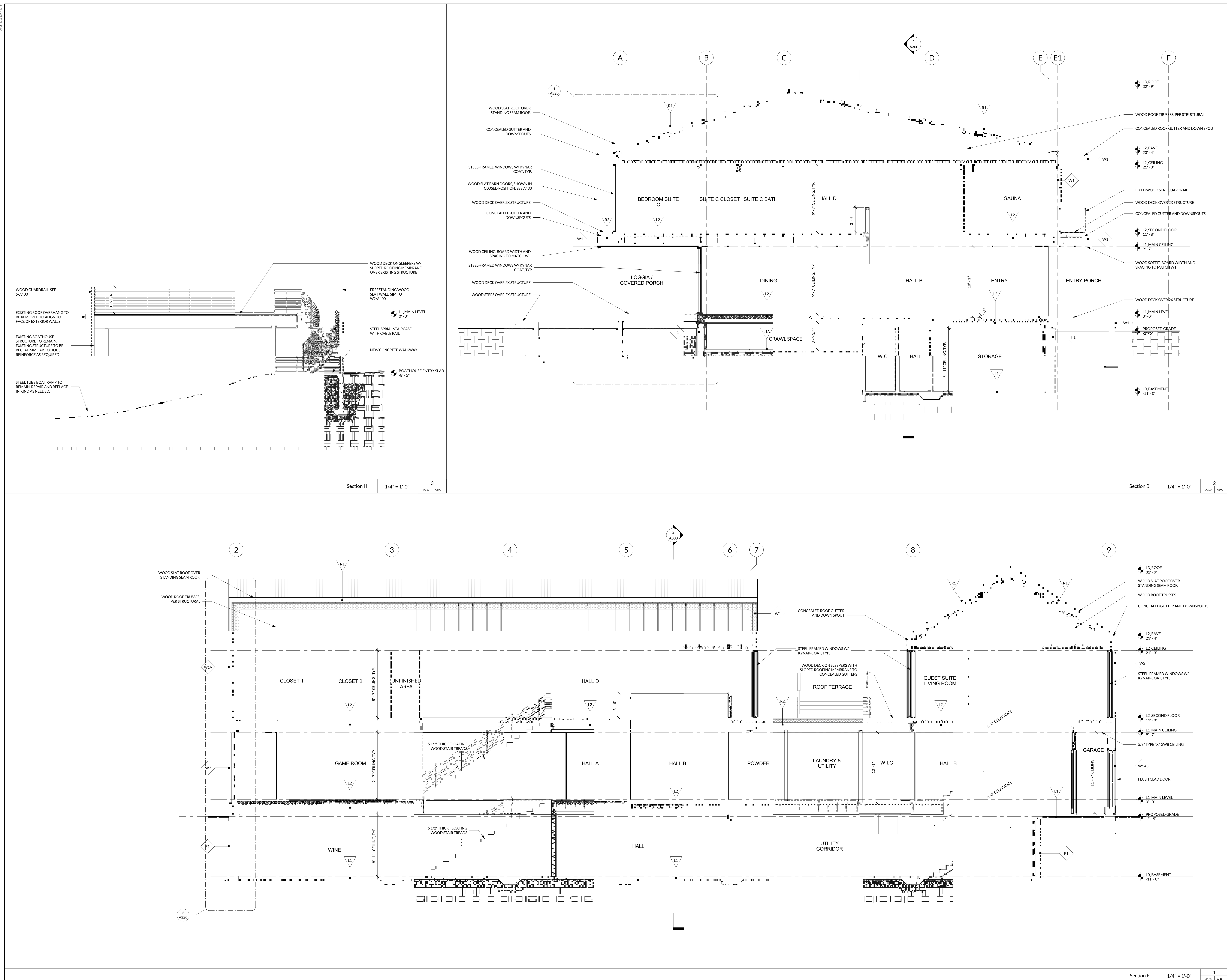
FOR PERMIT

The  
BOATHOUSE EXTERIOR  
ELEVATION

Sheet Number

A210







65 OAKLEDGE RESIDENCE  
BURLINGTON, VT

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECTS OR PARODES OR BY ANY OTHER PARTIES, OTHER THAN THOSE SPECIFICALLY AUTHORIZED BY CONTRACT. NOT FOR USE WITHOUT THE ARCHITECT'S WRITTEN AUTHORIZATION OF BIRDSEYE.

Name / Revision Log  
10.05.2018 FOR PERMIT

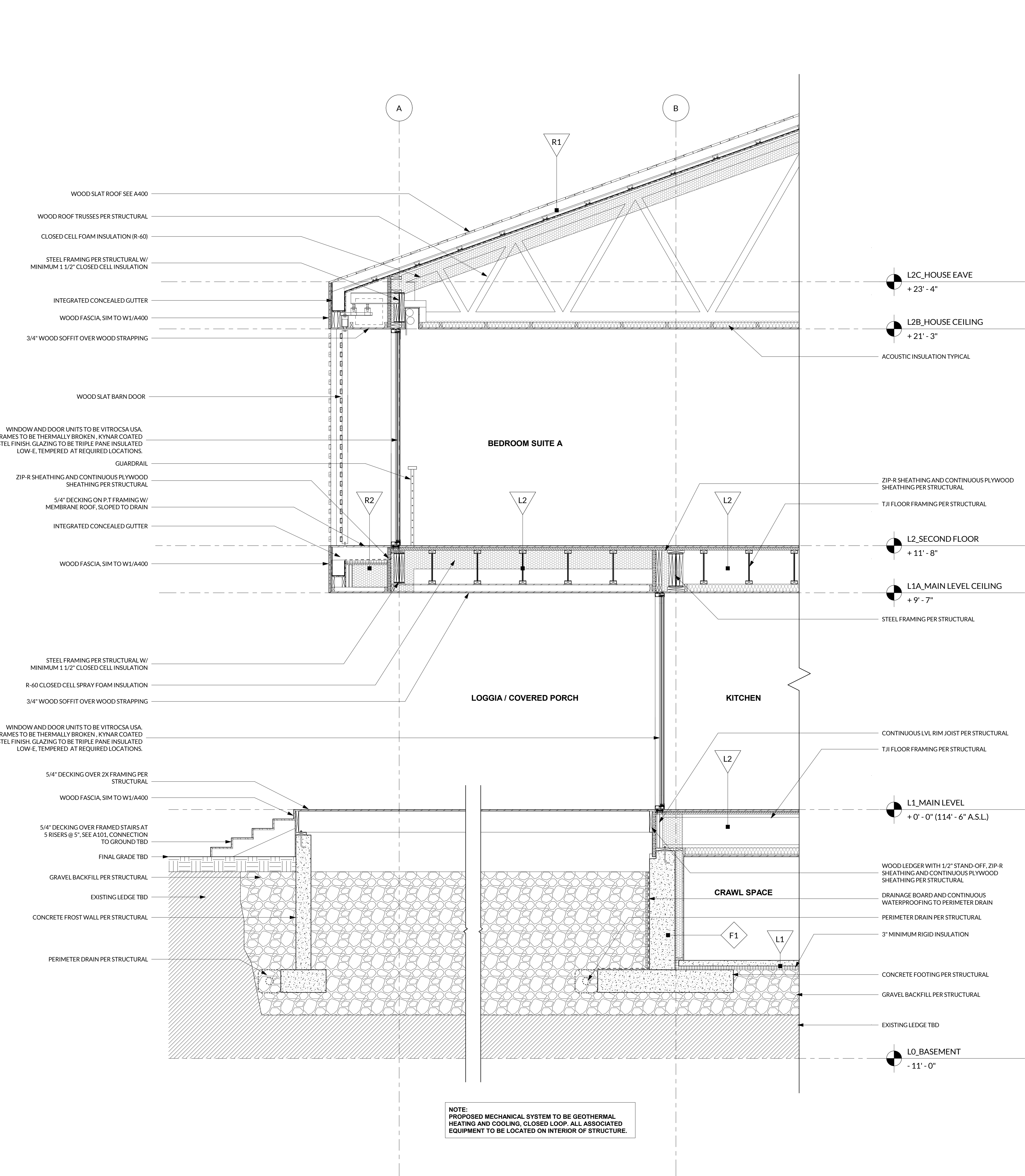
FOR PERMIT

TIN  
WALL SECTION

Sheet Number

A320

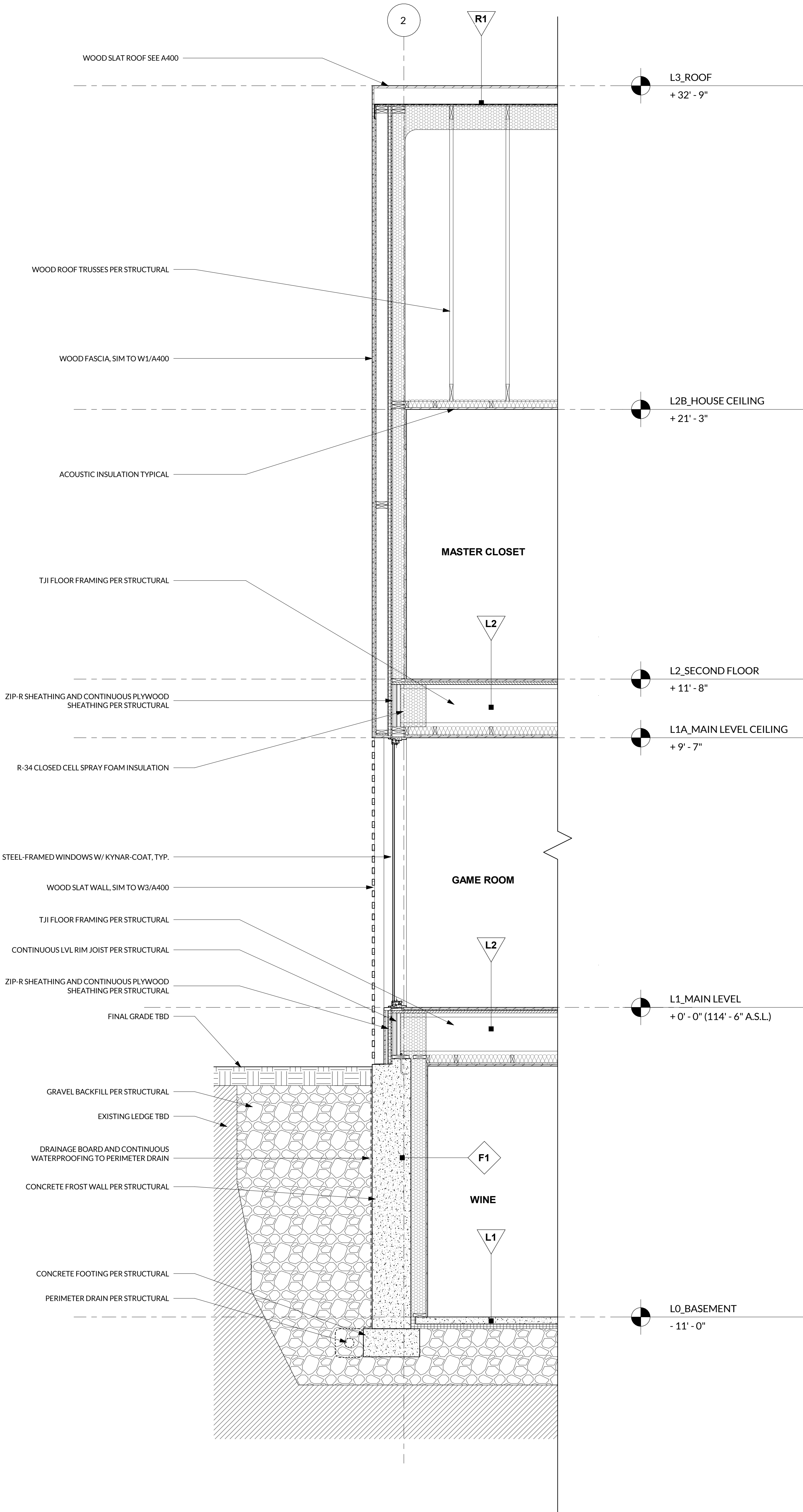
1  
A320



Typical Wall Section A

1/2" = 1'-0"

1  
A320



Typical Wall Section B

1/2" = 1'-0"

2  
A320

1/2" = 1'-0"



802296111254044



LOCATION 6 SITE VIEW EAST



LOCATION 3 DRIVEWAY ENTRY



LOCATION 5 SITE VIEW NORTHEAST



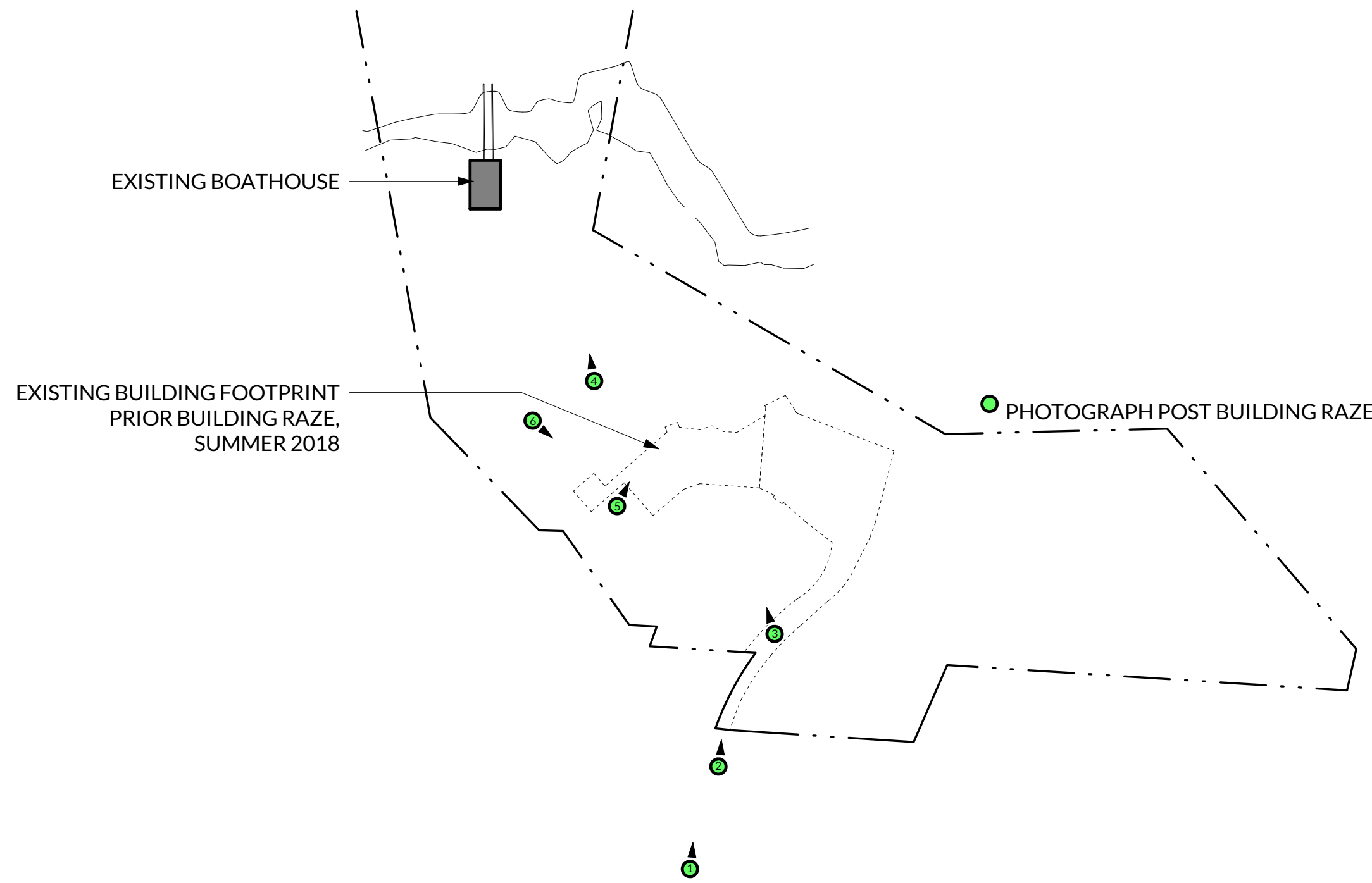
LOCATION 2 SITE ENTRY



LOCATION 4 SITE VIEW NORTH



LOCATION 1 OAKLEDGE DR. APPROACH



SITE PHOTOGRAPH KEY





65 OAKLEDGE RESIDENCE  
BURLINGTON, VT

DRAWINGS AND SPECIFICATIONS AS  
INSTRUMENTS OF PROFESSIONAL SERVICE ARE  
AND SHALL REMAIN THE PROPERTY OF THE  
ARCHITECT. THESE DOCUMENTS ARE NOT TO  
BE LOANED, REPRODUCED, COPIED, OR IN ANY OTHER  
MANNER USED FOR ANY OTHER PROJECTS OR PURPOSES OR BY ANY OTHER  
PARTIES, OTHER THAN THOSE SPECIFICALLY  
AUTHORIZED BY CONTRACT. NOT FOR USE  
WITHOUT THE EXPRESS WRITTEN  
AUTHORIZATION OF BIRDSEYE.

Name / Revision Log  
10.05.2019 FOR PERMIT

FOR PERMIT

TIN  
ENTRY RENDERING

Sheet Number  
A900



802.434.2112



65 OAKLEDGE RESIDENCE  
BURLINGTON, VT

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF BIRDSEYE.

Name / Revision Log  
01.05.2019 FOR PERMIT

FOR PERMIT

THE  
REAR FACADE RENDERING

Sheet Number  
A901

NORTH: BARN SLIDER DOORS OPEN





65 OAKLEDGE RESIDENCE  
BURLINGTON, VT

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE REPRODUCED, COPIED, OR IN ANY MANNER USED FOR ANY OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTY, OTHER THAN THOSE EXPRESSLY AUTHORIZED BY CONTRACT. NOT FOR USE WITHOUT THE SPECIFIC WRITTEN AUTHORIZATION OF BIRDSEYE.

Name / Revision Log  
10.05.2018 FOR PERMIT

FOR PERMIT

TA  
LAKEFRONT RENDERING

Sheet Number

A902

NORTH ELEVATION FROM LAKE



## Burlington Development Review Board

149 Church Street, City Hall  
Burlington, VT 05401

[www.burlingtonvt.gov/pz/DRB](http://www.burlingtonvt.gov/pz/DRB)

Telephone: (802) 865-7188

Fax (802) 865-7195

Brad Rabinowitz  
AJ LaRosa  
Austin Hart  
Springer Harris  
Geoff Hand  
Alexandra Zipparo  
Samantha Tilton  
Jim Drummond, (Alternate)  
Zoraya Hightower, (Alternate)



### BURLINGTON DEVELOPMENT REVIEW BOARD Tuesday December 18th, 2018, 5:00 PM Contois Auditorium, City Hall, 149 Church St, Burlington, VT AGENDA

#### I. Agenda

#### II. Communications

#### III. Minutes

#### IV. Other Business:

1. Permit Reform
2. DRB Bylaws: Proposed Changes

#### V. Consent

#### VI. Public Hearing

1. **19-0355CA; 441 Shelburne St (RM, Ward 5S) 441 Shelburne Road, LLC**  
Convert boarding house and duplex to 10 unit residential apartments with associated site improvements. Reapplication for expired zoning permit (Project Manager: Scott Gustin).
2. **19-0436AP; 15-17 Weston St (RL, Ward 1E) Phillip Irwin Aaron**  
Appeal of NOV 345151 relating to occupancy of a dwelling by more than 4 unrelated adults (Project Manager: Jeanne Francis).
3. **19-0395CA/CU; 65 Oakledge (RL-W, Ward 5S) 65 Oakledge Trust**  
Construct new single-family home with accessory dwelling unit, associated site improvements included (Project Manager: Scott Gustin).

#### VII. Adjournment

Plans may be viewed in the Planning and Zoning Office, (City Hall, 149 Church Street, Burlington), between the hours of 8:00 a.m. and 4:30 p.m.

Participation in the DRB proceeding is a prerequisite to the right to take any subsequent appeal. Please note that ANYTHING submitted to the Planning and Zoning office is considered public and cannot be kept confidential. This may not be the final order in which items will be heard. Please view final Agenda, at [www.burlingtonvt.gov/pz/drbb/agendas](http://www.burlingtonvt.gov/pz/drbb/agendas) or the office notice board, one week before the hearing for the order in which items will be heard.

## Scott Gustin

---

**From:** Ashley M Bond <[REDACTED]>  
**Sent:** Wednesday, December 12, 2018 3:56 PM  
**To:** Scott Gustin  
**Cc:** Bond,,,, James Bond  
**Subject:** 15-17 Weston Appeal

Hi Scott,

James and I fully support the Code Enforcement notice of violation for 15-17 Weston that was originally on the schedule for December 18. I see that they have asked for a deferral until February 5th. We appreciate your support as we all continue to manage and balance needs to maintain the diversity in our city neighborhoods.

Thank you,

James and Ashley Bond  
51 Henry Street

Sent from my iPhone

**Scott Gustin**

---

**From:** Mags Conant [REDACTED]  
**Sent:** Wednesday, December 12, 2018 10:37 PM  
**To:** Scott Gustin  
**Subject:** Appeal of NOV 345151

In regards to:

2. 19-0436AP; 15-17 Weston St (RL, Ward 8E) Phillip Irwin Aaron Appeal of NOV 345151 relating to occupancy of a dwelling by more than 4 unrelated adults (Project Manager: Jeanne Francis).

*I strongly endorse the city's enforcement action on the 15-17 Weston St property and ask that the Design Review Board uphold the Notice of Violation, thus denying the appeal.*

As a 40 year resident/property owner at 69 Mansfield Ave who lived through years of similar abuse of ordinances by the former landlord of 4 neighboring properties adjacent to ours, I know how important it is for the city to enforce its rules if we want to protect our neighborhoods. Before the Mansfield Ave landlord sold his 4 properties, the over-occupied houses' front lawns had cars parked on them all year, and frequent parties that went late into the night. Once the landlord sold the houses and young couples bought 3 of them to live in, our block became a welcoming family-friendly neighborhood, with homeowners who greatly improved their properties and children who could enjoy their shared backyards on Mansfield, Loomis and North Prospect. If we hold landlords to the standards the city has set for legal occupancy numbers, young couples will have greater access to housing options in Burlington. Our city needs young people to buy homes and settle here to keep its vibrancy.

Thank you for your service to our city.

Margaret Conant  
69 Mansfield Ave.

Sent from my iPhone



Dec. 16, 2018

To: The Burlington Development Review Board

Re: Appeal of NOV at 15-17 Weston Street

Dear Board members,

We write in support of the Notice of Violation issued by the city to the owners of 15-17 Weston Street, for housing five unrelated individuals in a single dwelling unit.

We understand the owners have appealed and urge the board to reject that appeal. We also understand that the burden of proof lies on the property owner, and urge the board to require documentation of any claims he makes.

Our home is just around the corner from 15-17 Weston, and we can attest to the dilapidated exterior condition of the property. That's relevant, we believe, because the more unrelated people crammed into a space, the great likelihood there is for damage, wear-and-tear, accumulated trash and the like. Such dilapidation is bad for the occupants, bad for the neighborhood, bad for other, law-abiding, landlords – and bad for the city.

This board is familiar with the fragile condition of the Henry-Weston street neighborhood, where only the existence of the no-more-than-four-unrelated ordinance – and its careful enforcement – protects the balance between owner-occupied and student rentals.

We understand this appeal is to be deferred until Feb. 5. We don't understand why such a deferral should be necessary, but if it is granted, we would like the opportunity to testify by telephone during the public hearing on Feb. 5, as we will not be in Burlington on that date.

Sincerely,  
Candace Page and Hamilton Davis  
26 Henry St.  
Burlington

**Scott Gustin**

---

**From:** krbygrl17 [REDACTED]  
**Sent:** Monday, December 17, 2018 12:56 PM  
**To:** Scott Gustin  
**Subject:** 15-17 Weston Street

Hi Scott,

I hope this email is not too late to submit.

I would like to you to stand along side the Longs and also support Bill Ward . This dwelling has been a problem far too long. It is up for sale and I believe is being falsely advertised. We have to put a halt to more than four to a household to prevent any more destruction of our neighborhoods.

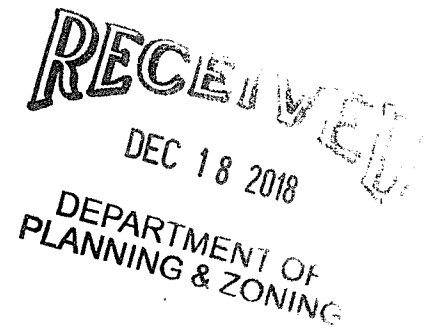
Thank you for submitting my letter. I am unable to come to the meeting.

Respectfully,

Nancy Kirby  
339 Colchester Ave.  
Burlington, Vt. 05401

Sent from Samsung tablet.

Scott Gustin  
Principal Planner for Development Review  
Department of Planning & Zoning  
City Hall  
149 Church Street  
Burlington, VT 05401



Dear Mr. Gustin,

I'm writing you in reference to **19-0355CA; 441 Shelburne St. (RM, Ward 5S) 441 Shelburne Road, LLC**. I live at 178 Lyman Avenue with my wife and family. We've been the Richardson's (as I understand it Mitchell Richardson is the current owner of 441 Shelburne Street) neighbors since my wife purchased our home at 178 Lyman in August of 1991. The reason for my letter is to officially convey my concerns regarding the attenuated construction project at 441 Shelburne to the Development Review Board. Before I list my concerns, I do want to convey that if Mitchell succeeds in completing the project at 441 Shelburne as it was last approved it would represent a dramatic improvement in the property and to that end, I am hopeful of that outcome. That said, history has proved hopes, as they relate to the property at 441 Shelburne, are not enough to realize the Richardson's desired outcome. Now to my concerns:

- **Fence Damage.** In late September or early October of this year (2018) someone working for Mitchell Richardson drove a piece of construction equipment into our recently installed, custom-designed fence. I was not informed of the extensive damage by Mitchell Richardson and when I did bring it to his attention, he acknowledged the damage and admitted it was due to his construction project and offered to pay for repairs. He however indicated that he would only pay for repairs if they were reasonable in terms of cost. I let him know that I would use Middlebury Fence Company to do the repairs as they were the ones who built the custom fence in August of this year. When the quote came in Mitchell Richardson refused to pay the invoice from Middlebury Fence. The initial quote was for over \$2,500. I was able to negotiate Middlebury Fence down to \$1,470 but even there Mitchell Richardson refused to pay. I hired a lawyer to contact Mitchell Richardson's lawyer but repeated efforts to get Mr. Richardson to engage went unanswered. This left me to (a) pay to repair damages Mr. Richardson acknowledges he or someone on his team are responsible for and (b) pursue reimbursement through small claims court.
- **Excavation onto my Property.** In the process of doing site work at 441 Shelburne Street Mr. Richardson or someone on his team excavated into my property. The extent of the excavation is minimal but noticeable and again, Mr. Richardson acknowledges the damage. While he has indicated he will repair the damage he refuses to commit to a time for the repair or to even engage in a dialog about it.
- **An Endless Project & the Chaos Surrounding It.** This project, in various forms, has been going on for at least five years, likely longer. Frankly it is hard to recollect just how long the project has been going on and my estimate of at least five years is a safe one; it's more likely been going on for seven. Aside for the distraction this has caused, we've had to endure as their next-door neighbor:
  - work primarily on weekends as it seems Mr. Richardson is pursuing this project in the hours he's not occupied with his small business,
  - a dumpster meant to contain the waist from his tenants that until last week (the week of December 10) sat a mere five feet from our front



porch and was left to overflow constantly where squirrels and gulls swarmed often eating what they found on our porch,

- o an untidy and unsecure worksite littered with construction debris where the border of that worksite is our fence (a reality once Mr. Richardson purchased the alleyway that once separated my property from the Richardson property),
- o heavy construction vehicles (trailers & equipment) partially blocking Lyman Avenue and my driveway from time to time,
- o and years and years of dust covering my house, debris littering my lawn.

- **The Costly Temporary Shut Down of my Project.** This past July I contracted with ChurchHill Landscapes to redesign our back yard. Knowing that this redesign would impact Mr. Richardson's property some, I contacted Mr. Richardson sometime in the winter of 2018 and informed him of my project. At that time I let him know the design wasn't complete but when it was close I would consult with him to give him the chance to offer input. Sometime later, in the spring of 2018, I attempted twice to contact Mr. Richardson at his business leaving messages with one of his employees. I never heard back from Mr. Richardson. I also asked ChurchHill Landscape to attempt contact with Mr. Richardson and they reported to me that their attempt was unsuccessful. For the bulk of this past summer Mr. Richardson's project at 441 Shelburne was dormant and seeing this ChurchHill Landscape used the alleyway access to the back of my property by way of Ferguson Avenue to tear down the old fence around my property and stage the new fence and landscaping material. As fate would have it, Mr. Richardson happened to appear on his premises that day and he turned away my work crew as my work crew was on the alley, a piece of land he now owns. Despite the fact that Mr. Richardson's project remained dormant all the rest of the summer while my crew came and went (my project was only two weeks, Mr. Richardson was successful in costing me at least \$2,000 in lost labor and in a very costly work around, a work around that would have been avoided had Mr. Richardson been neighborly and allowed my crew the two days they needed to demolish and stage.
- **Towing Away One of Our Cars.** For decades we occasionally parked one of our cars in the small section of alley behind my house. This alley was used by folks in the neighborhood as an illegal dumping ground and in the years before Mr. Richardson purchased it I had begun to clean it up at my expense and use it to park a car during parking bans. At some point, unknown to me, Mr. Richardson purchased the alley so that he had enough lot coverage for the project he is now pursuing. Without our knowledge of this purchase, my son's car was parked in that alley. Seeing that the car was parked the alley he now owns (again, without our knowledge) Mr. Richardson towed his car away and parked it at his business in Keeler Bay. Mr. Richardson made no attempt to contact me or anyone in my family despite the fact he knew it was one of our cars. We initially thought the car was stolen but when we called the Burlington Police they informed us of Mr. Richardson towing it away. When we finally did locate the car Mr. Richardson made no effort to explain his actions.

Mr. Gustin, I'm not sure what leverage I have in this matter if any at all. My desire is not to force Mr. Richardson to abandon his project or to cause him harm in any way. That said, as you can see, Mr. Richardson has consistently caused me harm. If he is allowed to go forward with his project, I am hopeful it is contingent on him paying me restitution for the fence damage and his commitment to a timeline we all understand along with a more tidy and better run worksite.

With Warmest Regards,

A handwritten signature in black ink, appearing to be 'JG' or 'Jeff Govoni'.

Jeff Govoni





# Permit Reform: What are the major problems to solve?

1. The public has made its dissatisfaction clear over **decades**.
  - a. Multiple locations, sometimes competing guidance, limited coordination.
2. Staff work hard in a broken system – and issues linger.
3. The City needs to speak with one voice.
4. Clear inefficiencies need to be corrected (ex. “time of sale”)
5. An independent evaluation recommended a reorganization into a “one-stop shop” with a single point of **accountability**, merging Zoning, Code, and ISD.

# **Principles Driving Reorganization**

- Better customer service
- Improved public process and resident oversight
- Accountability & consistency across the permitting process
- Collaboration among different Departments involved
- Resolving issues at lowest level possible for applicant
- Listen to public feedback gathered over prior decades

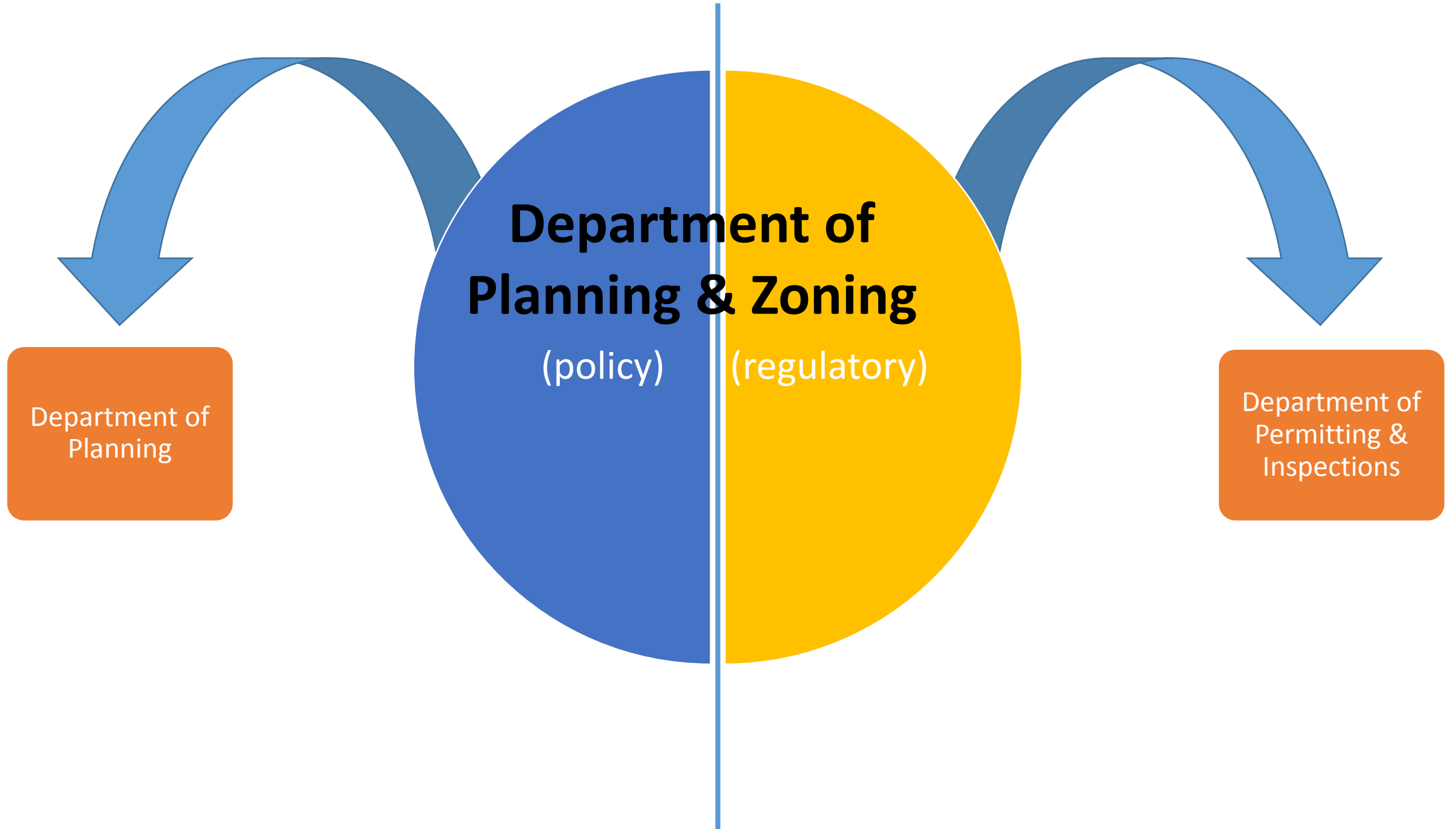
# **Where Are We in the Process**

- 2014 Council Resolution charges reform of permitting system “from soup to nuts.”
- Consultant engaged, Planning Commission reviews report (2016-2017)
- Permit Reform Advisory Committee Created
- August 2017 Council accepted Permit Reform Project Team work-plan
- Phase 1: Shared office hours, online scheduling,
- October 2018 Planning Commission discussion and initial feedback around one-stop shop and associated implications



# Charter Change (March 2019)

- Creation of new Permitting & Inspections Department
- Appointment of new Director of Permitting & Inspections by Mayor
- Appointment of Zoning Administrative Officer by Mayor
- Appointment of Planning Director by Mayor



## Discretionary Review and Appeals

**DRB**  
Zoning & Subdivision  
Decisions

**Public Works  
Commission**  
Trades Decisions

**Board of Health**  
Health Officer  
Decisions

**Housing Board of  
Review**  
Minimum Housing  
Decisions

**Commissioner of  
Public Safety**  
State buildings,  
Federal Certifications,  
Boilers and Pressure  
Vessels, and Variances

**Conservation Board**

**Design Advisory  
Board**

## Department of Permitting & Inspections

Customer Service &  
Administrative  
Support

Land Use and Design

Building Trades

Minimum Housing &  
Public Health

Zoning Review

Building Plan Review  
and Inspection

Rental Housing  
Registration &  
Inspection

Subdivision Review

Electrical Plan Review  
and Inspection

Vacant Buildings  
Registration

Design and Historic  
Review

Plumbing &  
Mechanical Plan  
Review and  
Inspection

Public Health

Compliance &  
Enforcement

Complaints &  
Enforcement

## Other City Reviews

**Right-of-Way &  
Excavation** Plan  
Review & Inspection

**Transportation** Plan  
Review & Inspection

**Stormwater** Review &  
Inspection

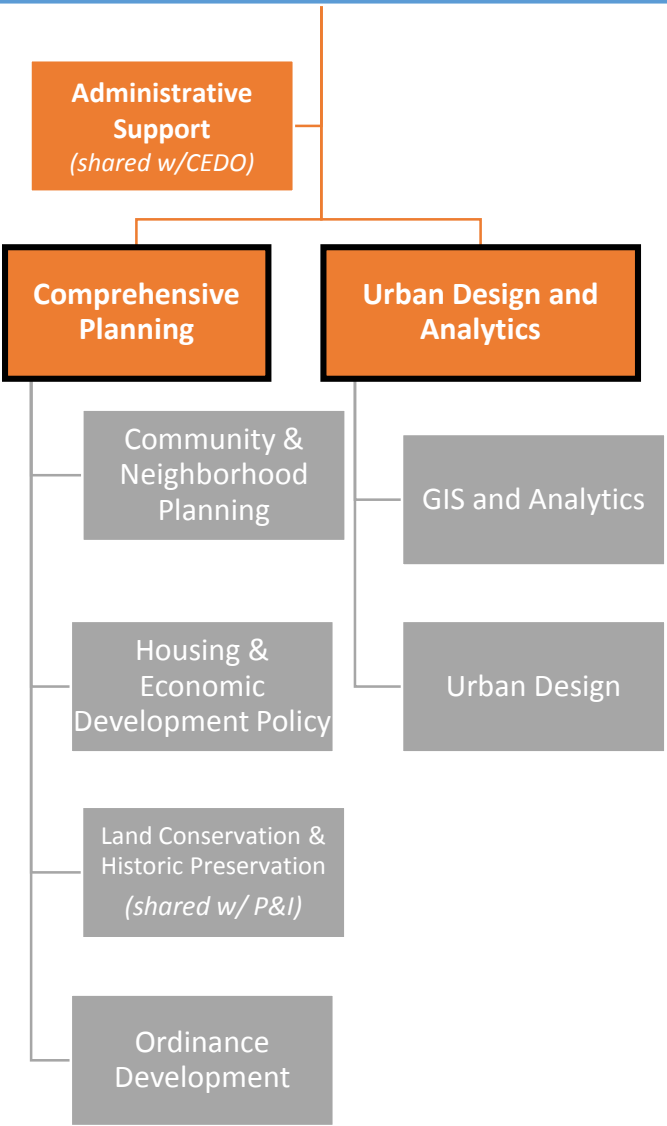
**Water/Wastewater**  
Review & Inspection

**Fire Marshal** Review &  
Inspection

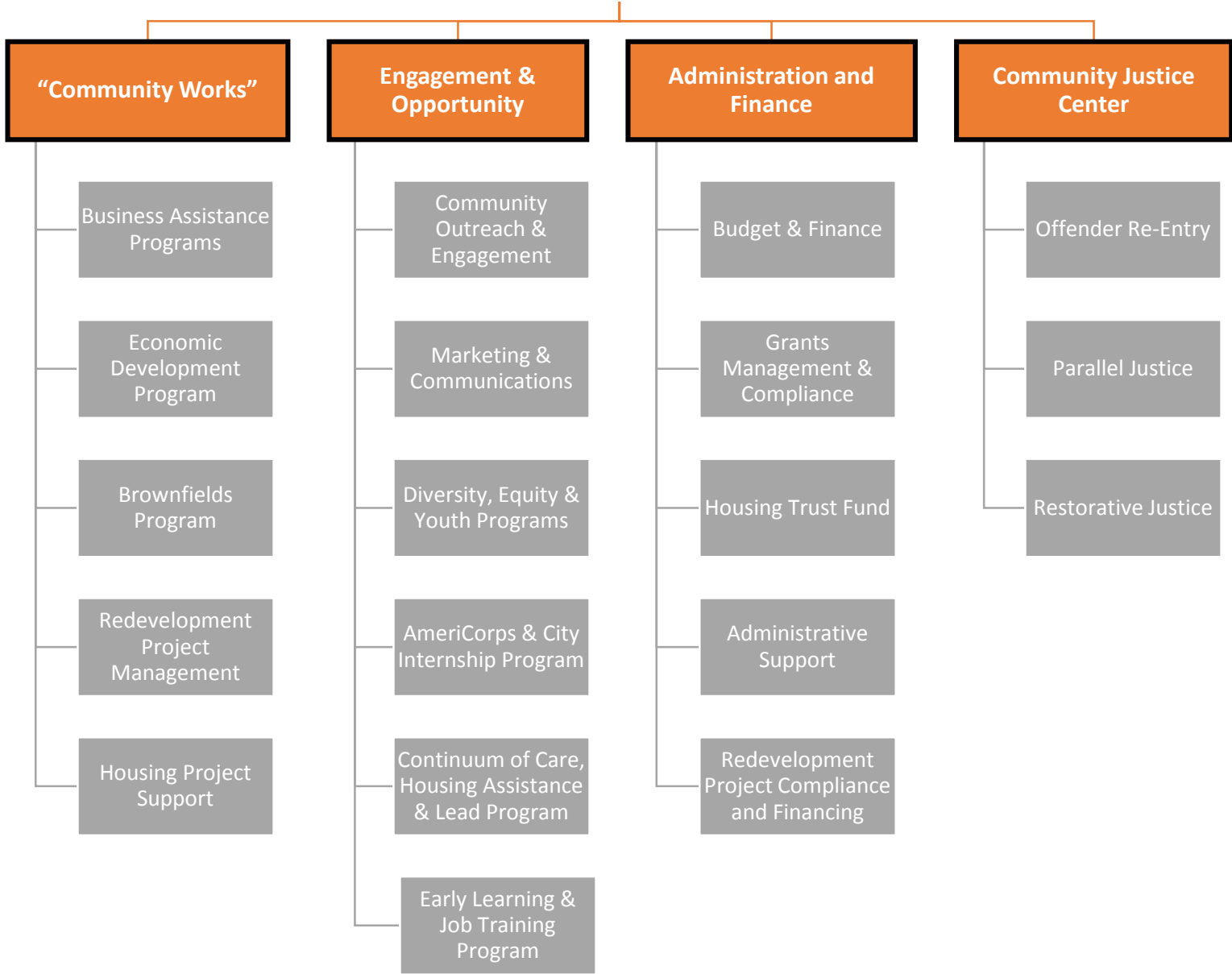
**Urban Forestry**  
Review & Inspection

**Energy** Review &  
Inspection

# Dept. of Planning



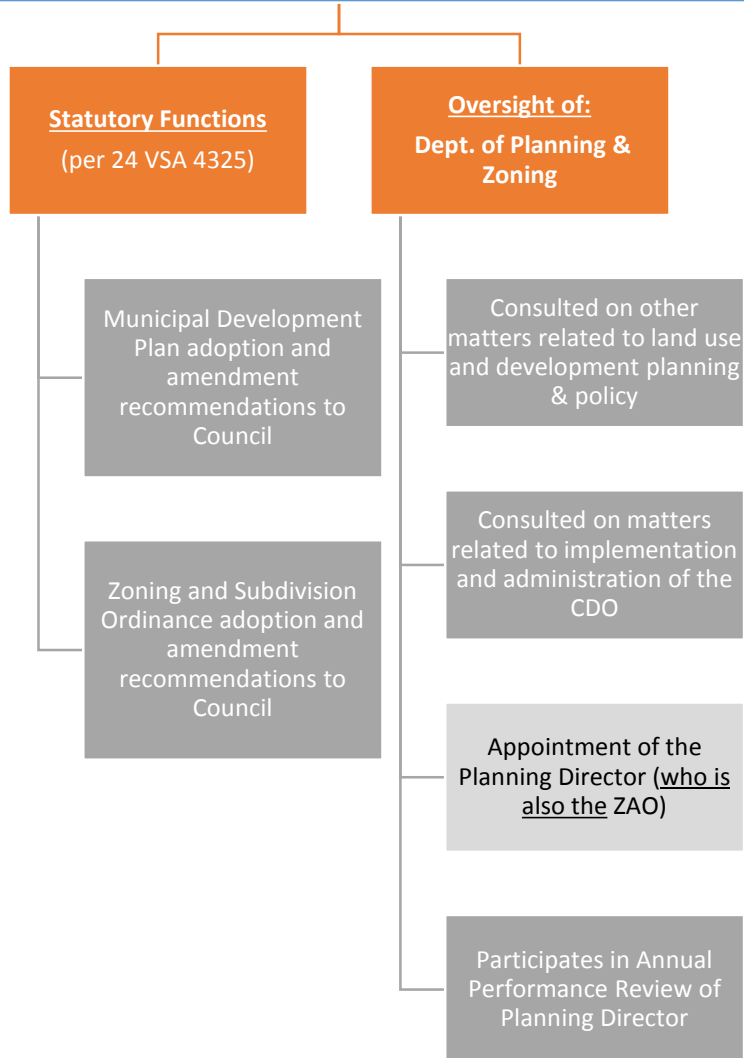
# Community & Economic Development Office





# Planning Commission Role – Before and After

## Planning Commission *(current)*

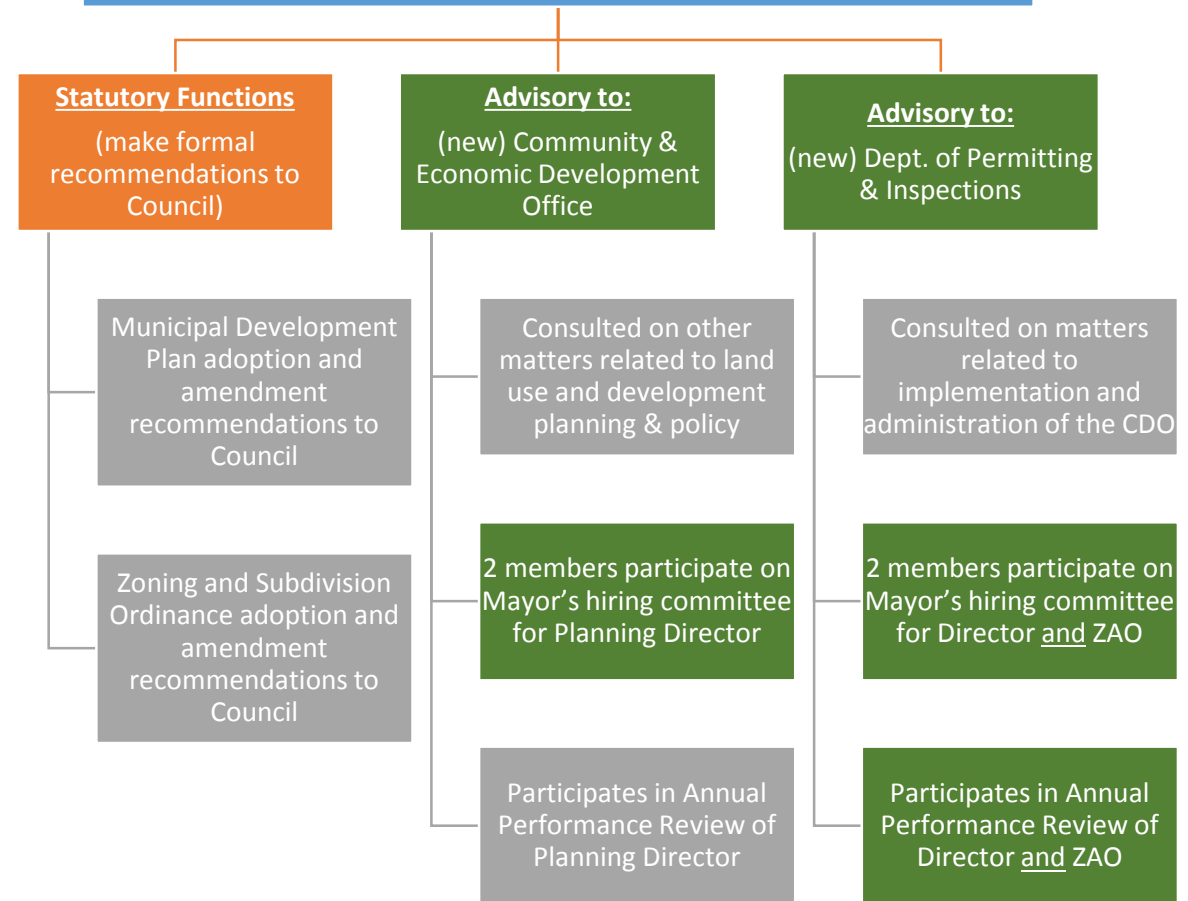


### 24 VSA 4321

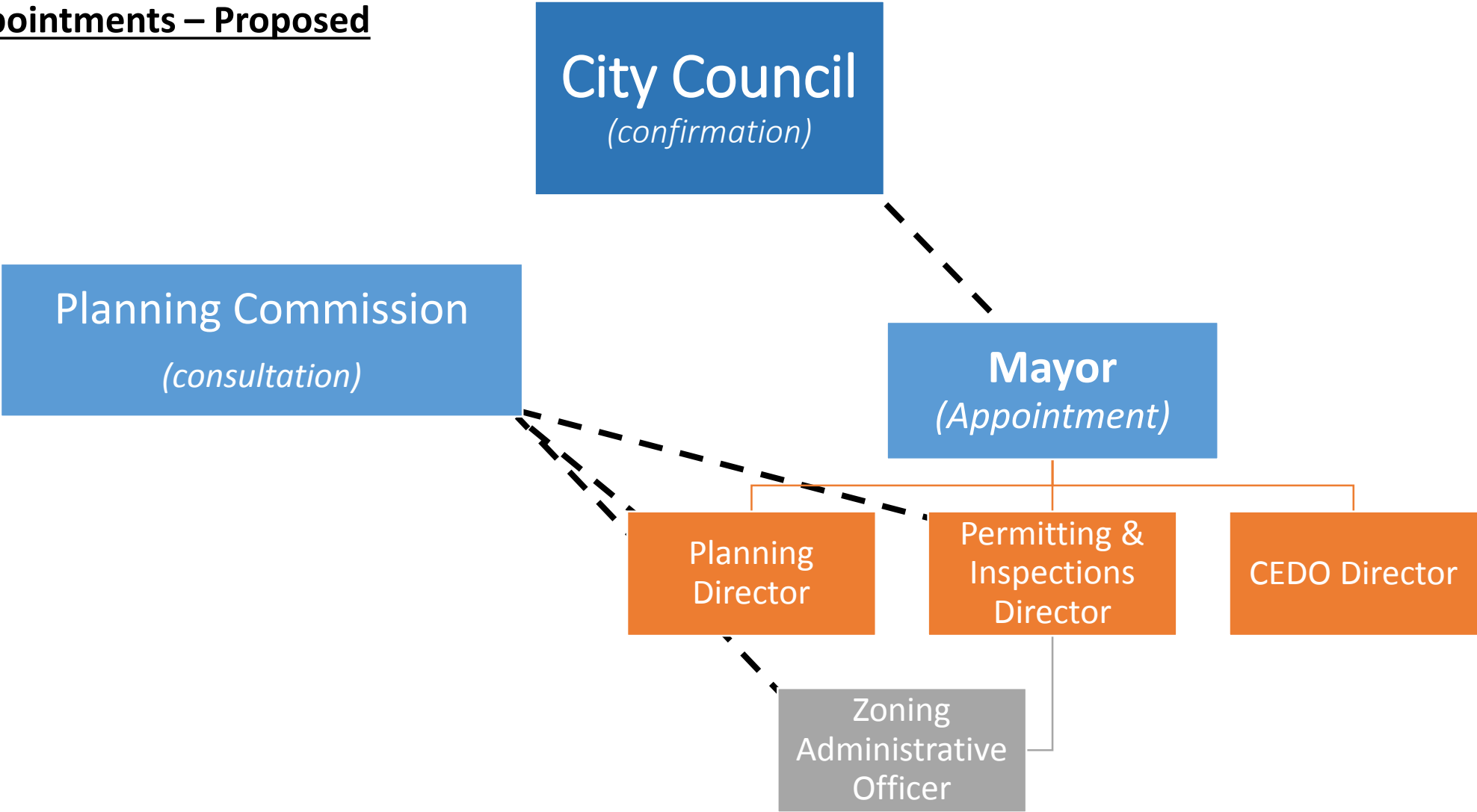
- Appointed by Council
- 3-9 members
- Majority residents
- No more than 2 elected or appointed officials who are non-voting members
- Powers and Duties per 24 VSA 4325

Former role  
New role

## Planning Commission *(proposed)*



Appointments – Proposed



## Burlington Development Review Board

149 Church Street, City Hall  
Burlington, VT 05401  
[www.burlingtonvt.gov/pz/DRB](http://www.burlingtonvt.gov/pz/DRB)  
Telephone: (802) 865-7188  
Fax: (802) 865-7195

Brad Rabinowitz  
AJ LaRosa  
Austin Hart  
Springer Harris  
Geoff Hand  
Alexandra Zipparo  
Samantha Tilton  
Jim Drummond, (Alternate)  
Zoraya Hightower, (Alternate)



### **BURLINGTON DEVELOPMENT REVIEW BOARD Tuesday December 18th, 2018, 5:00 PM Contois Auditorium, City Hall, 149 Church St, Burlington, VT Minutes**

**Board Members Present:** B. Rabinowitz, A. LaRosa, A. Hart, G. Hand, S. Tilton, Z. Hightower (alt.)

**Board Members Absent:** A. Zipparo, S. Harris, J. Drummond (alt.)

**Staff Present:** Scott Gustin, Mary O'Neil, Ryan Morrison, Layne Darfler

#### **I. Agenda**

No changes to the agenda; there is a request for deferral for 15-17 Weston St

#### **II. Communications**

Communications have been submitted and will be discussed further.

#### **III. Minutes**

Minutes from the December 4<sup>th</sup> 2018 meeting will be discussed at deliberation

#### **IV. Other Business:**

##### **1. Permit Reform**

D. White and W. Ward provided overview on permit reform process; changes will not affect the Development Review Board. The underlying foundation as to how the permit process works is being reworked and improved. Discussed current challenges within the process for homeowners and contractors, objectives focus on typical homeowner. Improved public process, accountability, etc. Goals are to come up with creation of the Department of Permitting and Inspections that would take Zoning, Building/Trades, and Code Enforcement and combine them into one department. Proposed charter change to City Council which encompasses four elements: the creation of new department, new director appointed by the mayor, appointment of zoning administrative officer to be appointed by the mayor, appointment of planning director by the mayor. Outcome is Planning and Zoning get split in half. Regulatory functions of the DRB will not be impacted the process and projects that have to come before the Board remain the same, staff remains the same. Should see little to no change. New Planning Department will co-locate with CEDO and will collaborate with new staffing. Will keep close relationship with the zoning side of the dept. will continue to need a close relationship with the zoning side for items such as amendments to the ordinance. Discussed Planning Commission function changes.

B. Rabinowitz: What is the timeline for these changes?

D. White: Charter change resolution was approved on 12/17/18, public hearing is set for mid-January, then council makes its final decision. In March, it goes to voters and if approved, as well as approved by legislature, it then goes into finer details and

*The programs and services of the City of Burlington are accessible to people with disabilities. Individuals who require special arrangements to participate are encouraged to contact the Department of Planning & Zoning at least 72 hours in advance so that proper accommodations can be arranged. For information call 865-7188 (TTY users: 865-7142).*

budgets. Cross training and process training have already started. Reconfiguration of the space at Pine Street also has to take place.

A. Hart: discussion about the appointment of the Planning Director by the Mayor

D. White: its separate but its central to the accountability issue, right now you have functions of 3 departments headed by 3 different individuals 2 appointed by mayor one not so by changing it, it makes one single individual responsible.

B. Rabinowitz: The State deleted the residential code because they don't enforce code on single family homes; code that was deleted works great but isn't used in Burlington. Problem with Code Enforcement in Burlington is the state doesn't enforce anything so contractors come here and are in shock they have to follow these rules.

W. Ward: not just co locating the point is to act on other issues and having consistency wherever possible so customers have the least challenge

G. Hand: resident oversight? How does that improve?

D. White: That is a role that the Planning Commission traditionally played in overseeing the Planning and Zoning Department, their role is more advisory but there is a role for average residents and Boards like this to get involved. The Permit Advisory Committee provides perspectives on initiative; these Boards bring residents and citizens into the process.

B. Rabinowitz: is there any public comment for this?

D. White: Public hearing is set for mid-January

## **2. DRB Bylaws: Proposed Changes**

M. O'Neil: reviewed proposed changes; this bylaw recommendation is to allow staff to review the revisions in NAC-CR district that the board sees almost monthly.

Asking the board to consider allowing admin review for anything that is not mi, cu art 10 or 11, and nothing included a parking waiver. Any of those will come to the Board.

B. Rabinowitz: what is the upper limit of changes they could make that wouldn't come here; if they eliminate buildings?

M. O'Neil: we would be looking at the major impact table for what those developments are

B. Rabinowitz: changing number of units would affect major impact

M. O'Neil: correct; last review we had was modification that added 2 units still came to you because it was over \$24,000

A. Hart: these things are eligible for admin review, does staff have ability to say this would be more appropriate to go to the DRB

S. Gustin: yes this enables admin as a requirement

A. Hart: Motion to amend the By Laws and adopt staff recommendations and comments

A. LaRosa: seconds the motion

5-0-0

## **V. Consent**

## **VI. Public Hearing**

### **1. 19-0355CA; 441 Shelburne St (RM, Ward 5S) 441 Shelburne Road, LLC**

Convert boarding house and duplex to 10 unit residential apartments with associated site improvements. Reapplication for expired zoning permit (Project Manager: Scott Gustin).

B. Rabinowitz: provide timeline, what happened with 1<sup>st</sup> application

M. Richardson: started building permit processes, lapse of 6-8 months transitioning from previous design. Need another year to wrap things up.

B. Rabinowitz: construction stopped



B. Rabinowitz: timeline needed to complete  
M. Richardson: 1 year  
B. Rabinowitz: tight site and complex building takes a fair amount of management are you acting as general contractor.  
M. Richardson: yes  
A. Hart: Have you read over the staff report? Issues noted that were left open last time we approved this, can you update us on those issues.  
A. LaRosa: what has to be done to exterior to finish?  
M. Richardson: concrete walls and siding; finishing the back part before siding so we can do siding in one shot  
Z. Hightower: condition findings was the parking waiver can you tell how you are going to implement the car share?  
M. Richardson: we would give a Car Share waiver and would incentivize the tenant by paying for the sign-up fee.  
B. Rabinowitz: condition of approval is to make that more explicit as part of the parking management plan. "Provide access to car share VT"  
A. Hart: That is what I was looking for is more detail on that. The project has had neighborhood impact; on the siding was there a specific time period on the siding? I would like to condition a specific date for that  
M. Richardson: not prepared to give that right now  
A. Hart: major objection is that neighbors have been putting up with construction site for at least 2 years we want to protect them from that continuance. Shouldn't be too tough for when the siding can go up. A date that gives you enough time but one that we can hold you to.  
M. Richardson: could get back to Scott with that date.  
G. Hand: asking about siding or completion, is siding your last step?  
M. Richardson: the ramp will be the last step. Understand and can have a date figured out.  
B. Rabinowitz: same package that was approved two years ago, it's a complicated lot. Is your intention to start right away on it or restart in spring?  
M. Richardson: currently working on it should have siding up within a couple of months.  
B. Rabinowitz: any other board comments; ask for a flushed out parking management plan as conditions of approval.  
S. Gustin: right this is technically a brand new permit; you can revisit the issues as you wish.  
G. Hand: letter submitted by neighbor, gives helpful example of issue with neighbors  
B. Rabinowitz: ask for clarification of you process on this and timeline of project.  
Close public hearing

## 2. **19-0436AP; 15-17 Weston St (RL, Ward 1E) Phillip Irwin Aaron**

Appeal of NOV 345151 relating to occupancy of a dwelling by more than 4 unrelated adults (Project Manager: Jeanne Francis).

B. Rabinowitz: request to defer to date certain of Feb 5<sup>th</sup> 2019  
S. Gustin: ok with single deferral, but would not support another deferral  
K. Aaron: property manager, property owner is requesting deferral  
B. Rabinowitz: comments from the Board?  
A. LaRosa: Motion to defer to February 5<sup>th</sup>, 2019  
S. Tilton: Seconds the motion  
B. Rabinowitz: we have no information on this in our packet so we are also unprepared to discuss this project  
6-0-0

**3. 19-0395CA/CU; 65 Oakledge (RL-W, Ward 5S) 65 Oakledge Trust**

Construct new single-family home with accessory dwelling unit, associated site improvements included (Project Manager: Scott Gustin).

Jeff McKBride/Brian Mack

J. McBride: provided overview of lot and project; single-family residence on an odd shaped lot near Oakledge Park. Small portion of class 3 wetland, which we are not proposing to touch at all. Demolition permit was issued in May and lot has sat vacant since then. Showed slides of previous and proposed buildings. There was originally a separate drive that was never incorporated into Burlington so Oakledge Drive itself is a set of easements. Project is single family with accessory unit. Displayed and reviewed floorplans. Removed significant portion of basement. Existing boathouse will remain with a small addition. The setback for the waterfront is based off two adjacent neighbors and their relation to the waterfront, our setback is around 27' which cuts through the existing boathouse. Reviewed house exterior design; proposing single material such as stained cedar, going for wood box look and pulling it farther away from the water to make it a calm quiet presence. North side of the house will have a large porch and overhang. Discussed exterior renderings. Reviewed process so far, met with staff, DAB – addressed a series of points; corrected to include accessory apartment, guest parking relocated to outside of front yard, exterior signage lighting, garage setback, screening mechanical equipment. DAB felt the spirit of the section was satisfied with the plan for the garage. Met with Conservation Board; 3 points of feedback – report of environmental assessment, conduct radon survey pre and post blasting, provided more blasting information, basement concern; gone from half occupied basement to a small one room basement primarily for mechanical uses. Had probes done on site to see where the best location was for the mechanical room. Proposing to go a bit deeper than required for frost protection.

B. Rabinowitz: guest parking as 8.1.1.2 confusion about required parking because guest parking is not required, is this relevant

S. Gustin: parking needs to be behind front yard setback, incorporating those parking spaces they are over 18' wide. The front yard setback is 130', the prior home was around 55'. The parking needs to be behind the front line of the house.

B. Rabinowitz: thinking about shape of the lot, the willingness to move that parking; how does one get into the house.

J. McBride: there are a couple of arguments we can make for the proposed location which includes design and location of the front entryway. The parking area, despite being in front yard, is one of the less visible spots on the property. The guest parking will be less visible from the neighbors' homes and roadway.

K. Wagner: discussed image displayed; several factors go into the need for the parking to be as proposed. The setback limits the location of the parking.

A. Hart: concerned about mandatory language of the ordinance

A. LaRosa: how much bigger is the proposed home vs previous home;

J. McBride: around 10,000 sqft proposed,

A. LaRosa: any changes or alteration to existing border/wall to Oakledge

J. McBride: only footing drains and overflow from rain garden that would be included along there but not affecting or touching it.

A. LaRosa: concern with change in size and reorientation will make it appear different; the old house you couldn't really tell it was there, this new design might be very loud to the area.

J. McBride: no rendering from that area currently.

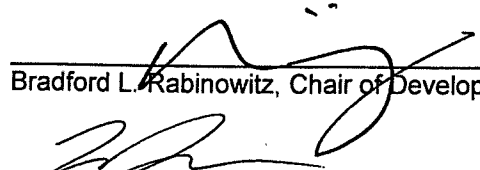
K. Wagner: there is a lot of existing vegetation there now that we will be maintaining, building retaining wall so the vegetation thrives and creates a full dense buffer from park area.

B. Rabinowitz: is the fence on the property line the city's or property owners?

J. McBride: it is right on the property line it will remain

**VII. Adjournment**

Meeting adjourned at 6:36PM

  
\_\_\_\_\_  
Bradford L. Rabinowitz, Chair of Development Review Board

2/20/19  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Layne Darfler, Planning Technician

2-20-19  
\_\_\_\_\_  
Date

Plans may be viewed in the Planning and Zoning Office, (City Hall, 149 Church Street, Burlington), between the hours of 8:00 a.m. and 4:30 p.m.

Participation in the DRB proceeding is a prerequisite to the right to take any subsequent appeal. Please note that ANYTHING submitted to the Planning and Zoning office is considered public and cannot be kept confidential. This may not be the final order in which items will be heard. Please view final Agenda, at [www.burlingtonvt.gov/pz/drb/agendas](http://www.burlingtonvt.gov/pz/drb/agendas) or the office notice board, one week before the hearing for the order in which items will be heard.

