Permit # PP-____-



TOWN OF COLCHESTER APPLICATION FOR PRELIMINARY PLAT REVIEW

All information requested on this application must be completed in full. Failure to provide the requested information either on this application form or on the plat plan will result in your application being rejected and a delay in the review before the Development Review Board.

1) OWNER OF RECORD (Name as shown on deed, mailing address, phone and email) Hazelett Strip-Casting Corporation; 135 W Lakeshore Drive, Colchester, VT 05446

802-863-6376; davedi@hazelett.com

2) APPLICANT (Name, mailing address, phone and email) Same

3) CONTACT PERSON (Name, mailing address, phone and email) Benjamin Avery Greenfield Growth, LLC; 802-316-0004; ben@greenfieldgrowthllc.com

4) CONSULTANT INFORMATION (Name, mailing address, phone and email) Scott Homsted Krebs & Lansing Consulting Engineers, Inc.; 802-878-0375; scott.homsted@krebsandlansing.com

5) PROJECT STREET ADDRESS: 166 & 180 West Lakeshore Drive

6) TAX MAP & PARCEL #(can be obtained at Assessor's Office) 65-019002-0000000; 65-020002-0000000

7) PROJECT DESCRIPTION

a) Please note if new lots are being created and whether or not the request is for a regular subdivision, planned residential development, or planned unit development: See attached narrative.

b) Existing Uses on Property (including description and size of each separate use)______Current use is marina and recreational for Hazelett employees. Historical use included a hotel.

c) Proposed Uses on property (include description and size of each new use and existing uses to remain) Proposed use is for a 20 room Inn with a supporting restaurant and event space. The existing marina and recreational use will remain. See attached narrative.

d) Total building square footage on property (proposed buildings and existing buildings to remain) Proposed: 4,982 total sq.ft. in 1 Main Building, 4 cottages, 1 future Phase 2 cottage. e) Height of building & number of floors (proposed buildings and existing buildings to remain, specify if basement and mezzanine) Each building will have 2 stories and a basement level; Height will be 40' or less.

f) Number of residential units (if applicable, new units and existing units to remain)
 0 new, 0 proposed

g) Number of employees & company vehicles (existing and proposed, note office versus non-office employees): 0 existing employees/vehicles; 12 proposed employees, 0 company vehicles

h) Other (list any other information pertinent to this application not specifically requested above, please note previous approvals and if the Overlay Districts are applicable):_____

Allowed use in the Shoreland Protection Zone. No increase in "usable area" is proposed.

8) LOT INFORMATION

a) Existing Lot Size: 2.0

b) Number of Lots Being Created (please also note lot size): 0; Existing two lots will be merged into one

c) Acreage to be Disturbed: 1.3

d) Overall Coverage (building, parking, outside storage, etc) Existing 5.5 % Proposed %

e) Front Yard Coverage (along each street) Existing 26.1 % Proposed %

f) Building Setbacks: Front 25 Rear 65 Side 104 Side ¹⁵

g) Parking Lot Setbacks: Front_¹⁸ Rear_17__ Side_19__ Side_108___

h) Distance From Shoreline (95.5' elevation): 100

9) ESTIMATED PROJECT COMPLETION DATE 2026

10) TYPE OF EXISTING OR PROPOSED ENCUMBRANCES ON PROPERTY (easements, covenants, leases, rights of way, etc.) Easment to the Town of Colchester for existing stormwater pipe

11) PROPOSED EXTENSION, RELOCATION, OR MODIFICATION OF MUNICIPAL FACILITIES (sanitary sewer, water supply, streets, storm drainage, etc.)______

New water and sewer services lines are proposed to serve the new buildings.

12) PUBLIC IMPROVEMENT, ROAD, & UTILITY INFORMATION

a) Will municipal sewer be used? Yes If yes, has an allocation been requested? No

b) For on site wastewater disposal describe: NA
c) Has the Wastewater Official been contacted to review soil test pits? NA
d) Will municipal water be used? Yes If no describe water supply:NA
e) Linear footage & width of each road/driveway proposed: Reconfigured existing driveway
f) Corner sight distance for each road/driveway: East Entrance: 800' east; 425' west;
g) Do proposed roads include sidewalks? NA West Entrance: 500' east, 300' west
 13) COST ESTIMATES a) Building (including interior renovations): b) Landscaping: c) Describe Landscaping & Other Site Improvements: 5 a Plans and Nation 1999.
14) ESTIMATED TRAFFIC
a) Average daily traffic for entire property (in and out): See attached Traffic Impact Assessment
b) A.M. Peak hour for entire property (in and out): See attached Traffic Impact Assessment
c) P.M. Peak hour for entire property (In and out): See attached Traffic Impact Assessment
15) PEAK HOURS OF OPERATION: $4-6$
16) PEAK DAYS OF OPERATION: $F_{ri} - 5_{ri}$

17) PRELIMINARY PLAT PLAN AND FEE

A preliminary plat plan shall be submitted which shows the information listed on Exhibit B attached. A preliminary plat plan application fee shall be paid to the Town at the time of submittal (see Exhibit B). In accordance with Colchester's Fee Ordinance Chapter 6 $\frac{1}{2}$ - 4 (9) applicants for all permits are responsible for costs of reviews conducted by third-party consultants/experts requested by the Town.

Please submit one paper copy and a digital copy of the application in pdf (file not exceeding 20mb) via email to pzinfo@colchestervt.gov. If online submittal is not feasible, submissions will be accepted via CD/DVD. Application forms, plans, and supporting documents shall each be separate pdfs and plans shall be submitted as a set whenever feasible. Files shall be named the address of the property and the type of document followed by the year (i.e. 205RooseveltHgwyApp15). Each file name shall be unique with no spaces and characters shall be numbers or letters (no characters such as hyphens, #, &, or *). All pdfs shall be at least at 300dpi, color, and to scale if a plan, elevation, or similar document.

18) PRELIMINARY PLAT REVIEW CRITERIA NARRATIVE

A narrative description of how the proposed project meets the criteria of Article Nine of the Development Regulations shall be submitted with this application.

See Attached.

F

I

I hereby certify that all the information requested as part of this application has been submitted and is accurate to the best of my knowledge.

SIGNATURE OF APPLICANT

1,

SIGNATURE OF PROPERTY OWNER

By the land owner signature, the land owner is authorizing the applicant to act on their behalf.

Deck this box if the consultant listed is authorized to act on behalf of the applicant and land owner.

Check this box if the contact person listed is authorized to act on behalf of the applicant and land owner.

Do not write below this line	
DATE OF SUBMISSION:	
FEE PAID:	
I have reviewed this preliminary plat application and find it to be: Complete	Incomplete

4

EXHIBIT A ADJOINING PROPERTY OWNER INFORMATION

(please use the interactive map at Colchestervt.gov for info & try to include direct abutters as well as adjacent properties along the shoreline within the area of affect as well as across the street)

Example: Tax Map 7, Parcel 57 John and Jane Doe P.O. Box 55, 835 Blakely Road Colchester, VT 05446	

EXHIBIT B

PRELIMINARY PLAT

The following information must be shown on the plat plans meeting Article Nine of the Development Regulations. Failure to provide the following information will result in your application being rejected and a delay in the review before the Development Review Board.

- o Complete survey of property by a licensed land surveyor drawn to scale (20 ft. is preferred).
- Name, license number, seal, and contact number of licensed land surveyor & date prepared.
- o Survey data (acreage, property lines, zoning boundaries, watercourse, base flood elevation, etc.)
- o Location of easements, public lands, r.o.w.s, sidewalks, and public or private street (w/names)
- Contours at two (2) foot elevation intervals (existing and finished)
- o Boundaries and area of all abutting properties
- Building elevations & building level floor plans
- Proposed landscaping schedule (number, variety and size)
- Location of streets, abutting properties, fire hydrants, existing buildings, existing landscaping
- o Location of proposed hydrants and/or building sprinkler hook-ups and fire lanes.
- Zoning boundaries
- Number and location of parking spaces (including handicapped spaces)
- o Location of septic tanks, fields, & lines and/or septic test pit, and percolation information
- Lot coverage information: Building footprint, total lot, and front yard
- Numerical and graphical scale, date last revised, and north arrow.
- Exterior lighting details (cut sheets). All lights should be down casting and shielded.
- Dumpster or trash area locations
- o Bicycle rack
- If restaurant is proposed, provide number seats and square footage of floor area provided for patron use but not containing fixed seats
- o Area for accumulating snow
- Details of all proposed bridges or culverts.
- Location of temporary markers.
- Water line location (existing & proposed), fire flows, and pressures
- o Details of drainage systems & stormwater facilities
- Physical features (streams, wetlands, vegetative cover, etc.)
- o Existing highway geometries including access points near project
- o Existing & proposed entrances and curb cuts (dimensions, widths, & turning radii)
- o Sight distance in both direction of all driveway intersections
- Traffic level of service/capacity analysis for existing/future conditions
- Loading areas & truck circulation patterns
- o Existing & proposed sidewalks, recreation paths, and pedestrian walkways
- A list of waivers desired (if any).
- Development timetable (including number of phases and start and completion dates).
- Location & size of open spaces reserved for recreation or conservation
- Location & type of restricted land (i.e. rights-of-way, easements, open space covenants, etc.)

APPLICATION FEE

 \Box Base fee \$1223 plus:

 \Box Tiered cost per unit: Units 1-10: \$153/unit, Units 11-20: \$102/unit, Units 21+: \$72/unit; and \Box \$51/acre



Subject Properties:

Parcel Number:	06-023002-0000000	Mailing Address:	HAZELETT STRIP-CASTING CORP
CAMA Number:	06-023002-0000000		PO BOX 600
Property Address:	135 WEST LAKESHORE DR		COLCHESTER, VT 05446
Parcel Number:	65-019002-0000000	Mailing Address:	HAZELETT STRIP-CASTING CORP
CAMA Number:	65-019002-0000000		PO BOX 600
Property Address:	180 WEST LAKESHORE DR		COLCHESTER, VT 05446
Parcel Number:	65-020002-0000000	Mailing Address:	HAZELETT STRIP CASTING CORP
CAMA Number:	65-020002-0000000		PO BOX 600
Property Address:	166 WEST LAKESHORE DR		COLCHESTER, VT 05446
Abutters:			
Parcel Number:	06-013002-0000000	Mailing Address:	SISON BROADCASTING COMPANY INC
CAMA Number:	06-013002-0000000		118 MALLETTS BAY AVE
Property Address:	118 MALLETTS BAY AVE		COLCHESTER, VT 05446
Parcel Number:	06-013002-0000000	Mailing Address:	SISON BROADCASTING COMPANY INC
CAMA Number:	06-013002-0000000		124 MIDNIGHT PASS
Property Address:	118 MALLETTS BAY AVE		COLCHESTER, VT 05446
Parcel Number:	06-013002-0000000	Mailing Address:	SISON BROADCASTING COMPANY INC
CAMA Number:	06-013002-0000000		PO BOX 136
Property Address:	118 MALLETTS BAY AVE		COLCHESTER, VT 05446
Parcel Number:	06-013002-0000000	Mailing Address:	SISON BROADCASTING COMPANY INC
CAMA Number:	06-013002-0000000		118 MALLETTS BAY AVE
Property Address:	118 MALLETTS BAY AVE		COLCHESTER, VT 05446
Parcel Number:	06-013002-0000000	Mailing Address:	SISON BROADCASTING COMPANY INC
CAMA Number:	06-013002-0000000		124 MIDNIGHT PASS
Property Address:	118 MALLETTS BAY AVE		COLCHESTER, VT 05446
Parcel Number:	06-013002-0000000	Mailing Address:	SISON BROADCASTING COMPANY INC
CAMA Number:	06-013002-0000000		PO BOX 136
Property Address:	118 MALLETTS BAY AVE		COLCHESTER, VT 05446
Parcel Number:	06-013002-0000000	Mailing Address:	SISON BROADCASTING COMPANY INC
CAMA Number:	06-013002-0000000		118 MALLETTS BAY AVE
Property Address:	118 MALLETTS BAY AVE		COLCHESTER, VT 05446



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3/3/2025



Parcel Number:	06-013002-0000000	Mailing Address:	SISON BROADCASTING COMPANY INC
CAMA Number:	06-013002-0000000		124 MIDNIGHT PASS
Property Address:	118 MALLETTS BAY AVE		COLCHESTER, VT 05446
Parcel Number:	06-013002-0000000	Mailing Address:	SISON BROADCASTING COMPANY INC
CAMA Number:	06-013002-0000000		PO BOX 136
Property Address:	118 MALLETTS BAY AVE		COLCHESTER, VT 05446
Parcel Number:	06-014002-0000000	Mailing Address:	COLCHESTER TOWN SCHOOL DIST
CAMA Number:	06-014002-0000000		PO BOX 27
Property Address:	0 MALLETTS BAY AVE		COLCHESTER, VT 05446
Parcel Number:	06-022002-0000000	Mailing Address:	COLCHESTER TOWN OF
CAMA Number:	06-022002-0000000		781 BLAKLEY RD
Property Address:	34 BLAKELY RD		COLCHESTER, VT 05446
Parcel Number:	06-026072-0000000	Mailing Address:	WINOOSKI VALLEY PARK DIST
CAMA Number:	06-026072-0000000		1 ETHAN ALLEN HOMESTEAD
Property Address:	0 MACRAE RD		BURLINGTON, VT 05408
Parcel Number:	63-025002-0000000	Mailing Address:	BAUMANN WALTER E
CAMA Number:	63-025002-0000000		373 SHORE ACRES DR
Property Address:	373 SHORE ACRES DR		COLCHESTER, VT 05446
Parcel Number:	63-026002-0000000	Mailing Address:	PLACE DENIS H
CAMA Number:	63-026002-0000000		411 SHORE ACRES DR
Property Address:	411 SHORE ACRES DR		COLCHESTER, VT 05446
Parcel Number:	63-027002-0000000	Mailing Address:	SPENGLER JEFFREY E
CAMA Number:	63-027002-0000000		463 SHORE ACRES DR
Property Address:	463 SHORE ACRES DR		COLCHESTER, VT 05446
Parcel Number:	63-030002-0000000	Mailing Address:	COGLEY JOSEPH M
CAMA Number:	63-030002-0000000		581 SHORE ACRES DR
Property Address:	581 SHORE ACRES DR		COLCHESTER, VT 05446
Parcel Number:	63-033002-0000000	Mailing Address:	BOUDREAU THERESA A LIFE ESTATE
CAMA Number:	63-033002-0000000		663 SHORE ACRES DR
Property Address:	663 SHORE ACRES DR		COLCHESTER, VT 05446
Parcel Number:	64-001002-0000000	Mailing Address:	NAULT MATTHEW R
CAMA Number:	64-001002-0000000		683 SHORE ACRES DR
Property Address:	683 SHORE ACRES DR		COLCHESTER, VT 05446
Parcel Number:	64-002002-0000000	Mailing Address:	HAMMOND JAMES F
CAMA Number:	64-002002-0000000		717 SHORE ACRES DR
Property Address:	717 SHORE ACRES DR		COLCHESTER, VT 05446

CAI Technologies

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Parcel Number: CAMA Number: 64-004002-0000000 Property Address: 827 SHORE ACRES DRMailing Address: National Address: FRANCIS AND SUSAN CONNORS REV TRUST 849 SHORE ACRES DR COLCHESTER, VT 05446Parcel Number: Property Address: 849 SHORE ACRES DRMailing Address: 849 SHORE ACRES DR COLCHESTER, VT 05446Parcel Number: CAMA Number: 64-013002-000000 Property Address: 921 SHORE ACRES DRMailing Address: 849 SHORE ACRES DR COLCHESTER, VT 05446Parcel Number: Property Address: 921 SHORE ACRES DRMailing Address: COLCHESTER, VT 05446Parcel Number: Property Address: CAMA Number: 65-001002-0000000 Property Address: CAMA Number: 65-001002-0000000 Property Address: CAMPGROUNDMailing Address: Mailing Address: National	Parcel Number: CAMA Number: Property Address:	64-003002-000000 64-003002-0000000 751 SHORE ACRES DR	Mailing Address:	MYERS TODD A 751 SHORE ACRES DR COLCHESTER, VT 05446
Parcel Number: CAMA Number: 64-005002-0000000 64-005002-0000000 Property Address: 849 SHORE ACRES DRMailing Address: 849 SHORE ACRES DRFRANCIS AND SUSAN CONNORS REV RUST 849 SHORE ACRES DR COLCHESTER, VT 05446Parcel Number: CAMA Number: 64-013002-0000000 Property Address: 921 SHORE ACRES DRMailing Address: 921 SHORE ACRES DR COLCHESTER, VT 05446BAILLETTS BAY CAMPGROUND LLC 750 WINOOSKI AVE BURLINGTON, VT 05401Parcel Number: 	Parcel Number: CAMA Number: Property Address:	64-004002-0000000 64-004002-0000000 827 SHORE ACRES DR	Mailing Address:	KATZ JON 827 SHORE ACRES DR COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:64-013002-000000 64-013002-0000000 921 SHORE ACRES DRMailing Address: S21 SHORE ACRES DR COLCHESTER, VT 05446Parcel Number: Property Address: Property Address:65-001002-0000000 CAMA Number: 65-001002-0000000 CAMA Number: 65-001002-0000000Mailing Address: Mailing Address: 88 MALLETTS BAY CAMPGROUND88 MALLETTS BAY CAMPGROUND LLC 75 SO WINOOSKI AVE BURLINGTON, VT 05401Parcel Number: Property Address:65-001002-0000000 	Parcel Number: CAMA Number: Property Address:	64-005002-0000000 64-005002-0000000 849 SHORE ACRES DR	Mailing Address:	FRANCIS AND SUSAN CONNORS REV TRUST 849 SHORE ACRES DR COLCHESTER, VT 05446
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Parcel Number: CAMA Number: Property Address:65-001002-0000000 1 MALLETTS BAY CAMPGROUNDMailing Address: Mailing Address:NEWTON THOMAS 1 MALLETTS BAY CAMPGROUNDParcel Number: Property Address:65-001002-0000000 1 MALLETTS BAY CAMPGROUNDMailing Address: MARSHALL TINA 40 TYRONE RD MORGANTOWN, WV 26508Parcel Number: Property Address:65-001002-0010100 1 MALLETTS BAY CAMPGROUNDMailing Address: MORGANTOWN, WV 26508Parcel Number: CAMA Number: 65-001002-002001065-001002-0000000 CAMA Number: 65-001002-0020010Mailing Address: 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0000000 88 MALLETTS BAY CAMPGROUND	Mailing Address:	88 MALLETTS BAY CAMPGROUND LLC 75 SO WINOOSKI AVE BURLINGTON, VT 05401
Parcel Number: CAMA Number: Origination65-001002-000000 65-001002-0010100Mailing Address: 40 TYRONE RD MORGANTOWN, WV 26508Parcel Number: CAMPGROUND65-001002-000000 65-001002-0020010Mailing Address: BUSHEY JOHN B10 MALLETTS BAY COLCHESTER, VT 05446BUSHEY JOHN B10 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-0000000 B10 MALLETTS BAY CAMPGROUNDMailing Address: B10 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Parcel Number: Property Address: Property Address: B5 MALLETTS BAY CAMPGROUNDMailing Address: 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0010000 1 MALLETTS BAY CAMPGROUND	Mailing Address:	NEWTON THOMAS 1 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number:65-001002-0020010 65-001002-0020010Mailing Address:BUSHEY JOHN B10 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Property Address:65-001002-0020500 CAMPGROUNDMailing Address:LIBERTY HEATHER 16 ELIZABETH ST SO BURLINGTON, VT 05403Property Address:B5 MALLETTS BAY CAMPGROUNDMailing Address:KING SHAWN PO BOX 604 COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-0020600 65-001002-0020600Mailing Address:KING SHAWN PO BOX 604 COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-0020600 B6 MALLETTS BAY CAMPGROUNDMailing Address:KING SHAWN PO BOX 604 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0010100 1A MALLETTS BAY CAMPGROUND	Mailing Address:	MARSHALL TINA 40 TYRONE RD MORGANTOWN, WV 26508
Parcel Number: CAMA Number: Property Address:65-001002-000000 65-001002-0020500 B5 MALLETTS BAY CAMPGROUNDMailing Address: SO BURLINGTON, VT 05403Parcel Number: CAMA Number: CAMA Number: Property Address:65-001002-000000 65-001002-0020600 B6 MALLETTS BAY CAMPGROUNDMailing Address: Mailing Address:KING SHAWN PO BOX 604 COLCHESTER, VT 05446Parcel Number: CAMA Number: Property Address: B6 MALLETTS BAY CAMPGROUNDMailing Address: Mailing Address:KING SHAWN PO BOX 604 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0020010 B10 MALLETTS BAY CAMPGROUND	Mailing Address:	BUSHEY JOHN B10 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
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Parcel Number:65-001002-000000Mailing Address:MCDOWELL DOUGCAMA Number:65-001002-0020800B8 MALLETTS BAYCAMPGROUNDProperty Address:B8 MALLETTS BAYCOLCHESTER, VT 05446Parcel Number:65-001002-0000000Mailing Address:MCDOWELL DOUGParcel Number:65-001002-0020800Mailing Address:MCDOWELL DOUGProperty Address:88 MALLETTS BAYPO BOX 404COLCHESTER, VT 05446Property Address:B8 MALLETTS BAYCOLCHESTER, VT 05446	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0020600 B6 MALLETTS BAY CAMPGROUND	Mailing Address:	KING SHAWN PO BOX 604 COLCHESTER, VT 05446
Parcel Number:65-001002-0000000Mailing Address:MCDOWELL DOUGCAMA Number:65-001002-0020800PO BOX 404Property Address:B8 MALLETTS BAYCOLCHESTER, VT 05446CAMPGROUNDCAMPGROUNDCOLCHESTER, VT 05446	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0020800 B8 MALLETTS BAY CAMPGROUND	Mailing Address:	MCDOWELL DOUG B8 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0020800 B8 MALLETTS BAY CAMPGROUND	Mailing Address:	MCDOWELL DOUG PO BOX 404 COLCHESTER, VT 05446



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Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0020800 B8 MALLETTS BAY CAMPGROUND	Mailing Address:	MCDOWELL DOUG B8 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0020800 B8 MALLETTS BAY CAMPGROUND	Mailing Address:	MCDOWELL DOUG PO BOX 404 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0020900 B9 MALLETTS BAY CAMPGROUND	Mailing Address:	DUFRESNE KEVIN 99 LORI LN BURLINGTON, VT 05408
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0021000 B1 MALLETTS BAY CAMPGROUND	Mailing Address:	WALL LESLIE B1 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0030100 3A MALLETTS BAY CAMPGROUND	Mailing Address:	DEVARAJAN ASHLEY 12726 NW NAOMI LN PORTLAND, OR 97229
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0040000 4 MALLETTS BAY CAMPGROUND	Mailing Address:	VOIGT DENNIS 21 LOUBIER DR ESSEX JCT, VT 05452
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0040100 4A MALLETTS BAY CAMPGROUND	Mailing Address:	ANGIER JOHN 4A MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0050100 5A MALLETTS BAY CAMPGROUND	Mailing Address:	BRADLEY ALLEN 9 CAPTAIN HALL RD MIDDLEBORO, MA 02346
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0060000 6 MALLETTS BAY CAMPGROUND	Mailing Address:	STANLEY LEVI PO BOX 256 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0060100 6A MALLETTS BAY CAMPGROUND	Mailing Address:	MAIN GEORGE 8041 MEADOW LARK LANE PORT ST. LUCIE, FL 34952
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0070000 7 MALLETTS BAY CAMPGROUND	Mailing Address:	CASWELL ANNE G 7 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0070000 7 MALLETTS BAY CAMPGROUND	Mailing Address:	CASWELL ANNE G PO BOX 65084 BURLINGTON, VT 05406





Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0070000 7 MALLETTS BAY CAMPGROUND	Mailing Address:	CASWELL ANNE G 7 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0070000 7 MALLETTS BAY CAMPGROUND	Mailing Address:	CASWELL ANNE G PO BOX 65084 BURLINGTON, VT 05406
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080000 8 MALLETTS BAY CAMPGROUND	Mailing Address:	HARRINGTON STEVE PO BOX 372 JONESVILLE, VT 05466
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE 22646 CLIFFSIDE WAY LAND O LAKES, FL 34639
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE 5015 ABIGAIL LN CHATTANOOGA, TN 37416
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE PO BOX 602 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE PO BOX 90 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE 22646 CLIFFSIDE WAY LAND O LAKES, FL 34639
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE 5015 ABIGAIL LN CHATTANOOGA, TN 37416
Parcel Number: CAMA Number: Property Address:	65-001002-000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE PO BOX 602 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE PO BOX 90 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE 22646 CLIFFSIDE WAY LAND O LAKES, FL 34639





Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE 5015 ABIGAIL LN CHATTANOOGA, TN 37416
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE PO BOX 602 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE PO BOX 90 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE 22646 CLIFFSIDE WAY LAND O LAKES, FL 34639
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE 5015 ABIGAIL LN CHATTANOOGA, TN 37416
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE PO BOX 602 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0080100 8A MALLETTS BAY CAMPGROUND	Mailing Address:	GRIFFITH MAURICE PO BOX 90 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0090000 9 MALLETTS BAY CAMPGROUND	Mailing Address:	DICKINSON JESSICA 143 PARK ST BURLINGTON, VT 05401
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0110000 11 MALLETTS BAY CAMPGROUND	Mailing Address:	CARDINAL RON 11 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0110100 11A MALLETTS BAY CAMPGROUND	Mailing Address:	BRIGHAM SABRINA 11A MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0120000 12 MALLETTS BAY CAMPGROUND	Mailing Address:	PARIZO RAY III 12 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0120000 12 MALLETTS BAY CAMPGROUND	Mailing Address:	PARIZO RAY III 193 BROWNS RIVER RD ESSEX JCT, VT 05452





Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0120000 12 MALLETTS BAY CAMPGROUND	Mailing Address:	PARIZO RAY III 12 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0120000 12 MALLETTS BAY CAMPGROUND	Mailing Address:	PARIZO RAY III 193 BROWNS RIVER RD ESSEX JCT, VT 05452
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0120100 12A MALLETTS BAY CAMPGROUND	Mailing Address:	PAAP LARRY 132 NO CHAMPLAIN ST BURLINGTON, VT 05401
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0120100 12A MALLETTS BAY CAMPGROUND	Mailing Address:	PAAP LARRY PO BOX 371 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0120100 12A MALLETTS BAY CAMPGROUND	Mailing Address:	PAAP LARRY 132 NO CHAMPLAIN ST BURLINGTON, VT 05401
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0120100 12A MALLETTS BAY CAMPGROUND	Mailing Address:	PAAP LARRY PO BOX 371 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0140000 14 MALLETTS BAY CAMPGROUND	Mailing Address:	AMOUR SUE 778 SAND HILL RD #24 ESSEX JCT, VT 054452
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0150000 15 MALLETTS BAY CAMPGROUND	Mailing Address:	ALDERMAN KAREN 15 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0160000 16 MALLETTS BAY CAMPGROUND	Mailing Address:	LEMIEUX PIERRE 1416 HINESBURG RD SO BURLINGTON, VT 05403
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0170000 17 MALLETTS BAY CAMPGROUND	Mailing Address:	RAFFERTY THOMAS PO BOX 265 WILLISTON, VT 05495
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0190000 19 MALLETTS BAY CAMPGROUND	Mailing Address:	DAMPIERRE RUTH 19 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-000000 65-001002-0200000 20 MALLETTS BAY CAMPGROUND	Mailing Address:	VANASSE RAYMOND 37 ST NICHOLAS ST SOREL TRACY PQ, J3P 4X7





Parcel Number: CAMP GROUND65-001002-002000 22 MALLETTS BAY CAMPGROUNDMailing Address: 22 MALLETTS BAY COLCHESTER, VT 05446Parcel Number: CAMP GROUND65-001002-0020000 Property Address: 22 MALLETTS BAY CAMPGROUNDMailing Address: PO BOX 341Parcel Number: Property Address: 22 MALLETTS BAY CAMPGROUND65-001002-0020000 PO BOX 341Mailing Address: PO BOX 341Parcel Number: CAMA ROMDER: CAMPGROUND65-001002-0020000 CAMPGROUNDMailing Address: PO BOX 341BARTLETT CHRIS CAMPGROUND CAMPGROUND CAMPGROUNDParcel Number: CAMPGROUND65-001002-0020000 CAMPGROUNDMailing Address: PO BOX 341BARTLETT CHRIS CAMPGROUND PO BOX 341Parcel Number: CAMPGROUND65-001002-0020000 CAMPGROUNDMailing Address: PO BOX 341BARTLETT CHRIS PO BOX 341Parcel Number: Property Address: 26 MALLETTS BAY CAMPGROUND65-001002-0020000 COLCHESTER, VT 05670Mailing Address: PO BOX 341Parcel Number: Property Address: 26 MALLETTS BAY CAMPGROUND65-001002-0020000 PO PO P	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0210000 21 MALLETTS BAY CAMPGROUND	Mailing Address:	BUTLER DANIELLE 21 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number:65-001002-000000 CAMPGROUNDMailing Address:BARTLETT CHRIS POX 341 SO BARRE, VT 05670Parcel Number:65-001002-020000 CAMPGROUNDMailing Address:BARTLETT CHRIS SO BARRE, VT 05670Parcel Number:65-001002-020000 CAMPGROUNDMailing Address:BARTLETT CHRIS 22 MALLETTS BAY COLCHESTER, VT 05446Parcel Number:65-001002-0000000 CAMPGROUNDMailing Address:BARTLETT CHRIS 20 MALLETTS BAY SO BARRE, VT 05446Parcel Number:65-001002-0000000 CAMPGROUNDMailing Address:BARTLETT CHRIS POX 341Parcel Number:65-001002-0000000 CAMPGROUNDMailing Address:BARTLETT CHRIS POX 341Parcel Number:65-001002-0000000 CAMPGROUNDMailing Address:BARTLETT SERV COLCHESTER, VT 05670Parcel Number:65-001002-0000000 CAMPGROUNDMailing Address:COLBERT VIRGINIA ZE MALLETTS BAY COLCHESTER, VT 05446Parcel Number:65-001002-0000000 CAMPGROUNDMailing Address:COLBERT VIRGINIA 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0220000 22 MALLETTS BAY CAMPGROUND	Mailing Address:	BARTLETT CHRIS 22 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMP Address:65-001002-0020000 22 MALLETTS BAY CAMPGROUNDMailing Address: 22 MALLETT CHRIS COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-0020000 CAMA Number: 65-001002-0220000Mailing Address: PO BOX 341 SO BARRE, VT 05670Parcel Number: CAMPGROUND65-001002-0020000 CAMA Number: 65-001002-0220000Mailing Address: PO BOX 341 SO BARRE, VT 05670Parcel Number: CAMPGROUND65-001002-02000000 CAMPGROUNDMailing Address: Mailing Address: CAMPGROUNDParcel Number: Property Address: CAMPGROUND65-001002-02000000 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0220000 22 MALLETTS BAY CAMPGROUND	Mailing Address:	BARTLETT CHRIS PO BOX 341 SO BARRE, VT 05670
Parcel Number: CAMA Number: Property Address: 22 MALLETTS BAY CAMPGROUNDMailing Address: SO BARRE, VT 05670Parcel Number: CAMPGROUND65-001002-0020000 CAMPGROUNDMailing Address: Mailing Address: 26 MALLETTS BAY CAMPGROUNDParcel Number: CAMPGROUND65-001002-0020000 26 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Property Address: CAMPGROUND65-001002-0020000 COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-0020000 27 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-0020000 27 MALLETTS BAY CAMPGROUNDParcel Number: CAMPGROUND65-001002-00270100 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0220000 22 MALLETTS BAY CAMPGROUND	Mailing Address:	BARTLETT CHRIS 22 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:65-001002-0260000 CAMPGROUNDMailing Address: COLCHESTER, VT 05446Property Address: Property Address:65-001002-0270000 CAMPGROUNDMailing Address: COLCHESTER, VT 05446Parcel Number: Property Address: CAMPGROUND65-001002-0270000 CAMPGROUNDMailing Address: COLCHESTER, VT 05446Parcel Number: Property Address: CAMPGROUND65-001002-0270000 CAMPGROUNDMailing Address: COLCHESTER, VT 05446Parcel Number: Property Address: CAMPGROUND65-001002-0270100 CAMPGROUNDMailing Address: COLCHESTER, VT 05446Parcel Number: Property Address: CAMPGROUND65-001002-0270100 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0220000 22 MALLETTS BAY CAMPGROUND	Mailing Address:	BARTLETT CHRIS PO BOX 341 SO BARRE, VT 05670
Parcel Number: CAMA Number: Property Address:65-001002-000000 CAMPGROUNDMailing Address: COLCHESTER, VT 05446COLBERT VIRGINIA 27 MALLETTS BAY COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-000000 65-001002-0270100Mailing Address: 27A MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-0270100 27A MALLETTS BAY CAMPGROUNDMailing Address: 27A MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-0000000 CAMA Number: 65-001002-0280100 Property Address:Mailing Address: 28 MALLETTS BAY CAMPGROUNDParcel Number: 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0260000 26 MALLETTS BAY CAMPGROUND	Mailing Address:	HEINRICH WILLIAM 26 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number:65-001002-000000 65-001002-0270100 27A MALLETTS BAY CAMPGROUNDMailing Address: CAMPGROUNDGILBERSON GARY 27A MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Parcel Number: CAMP GROUND65-001002-0000000 65-001002-0280100 Property Address:Mailing Address: 28 MALLETTS BAY CAMPGROUNDREPOSA DAVID 218 MALLETTS BAY AVE 473 COLCHESTER, VT 05446Parcel Number: CAMP GROUND65-001002-0000000 CAMA Number: 65-001002-0280100 Property Address:Mailing Address: 28 MALLETTS BAY COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-0280100 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0270000 27 MALLETTS BAY CAMPGROUND	Mailing Address:	COLBERT VIRGINIA 27 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:65-001002-000000 65-001002-0280100 28 MALLETTS BAY CAMPGROUNDMailing Address: Nailing Address:REPOSA DAVID 218 MALLETTS BAY AVE 473 COLCHESTER, VT 05446Parcel Number: CAMA Number: Property Address:65-001002-0000000 65-001002-0280100 Property Address:Mailing Address: REPOSA DAVID 28 MALLETTS BAY CAMPGROUNDParcel Number: Property Address:65-001002-0280100 28 MALLETTS BAY CAMPGROUNDMailing Address: REPOSA DAVID 218 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Parcel Number: CAMA Number: 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0270100 27A MALLETTS BAY CAMPGROUND	Mailing Address:	GILBERSON GARY 27A MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number:65-001002-000000 65-001002-0280100 28 MALLETTS BAY CAMPGROUNDMailing Address:REPOSA DAVID 28 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Parcel Number:65-001002-0000000 65-001002-0280100 Property Address:Mailing Address:REPOSA DAVID 218 MALLETTS BAY AVE 473 COLCHESTER, VT 05446Parcel Number:65-001002-0280100 28 MALLETTS BAY CAMPGROUNDMailing Address:REPOSA DAVID 218 MALLETTS BAY AVE 473 COLCHESTER, VT 05446Parcel Number:65-001002-0000000 28 MALLETTS BAY CAMPGROUNDMailing Address:REPOSA DAVID 218 MALLETTS BAY AVE 473 COLCHESTER, VT 05446Parcel Number:65-001002-0280100 28 MALLETTS BAY CAMPGROUNDMailing Address:REPOSA DAVID 28 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0280100 28 MALLETTS BAY CAMPGROUND	Mailing Address:	REPOSA DAVID 218 MALLETTS BAY AVE 473 COLCHESTER, VT 05446
Parcel Number:65-001002-000000Mailing Address:REPOSA DAVID 218 MALLETTS BAY AVE 473 COLCHESTER, VT 05446Property Address:28 MALLETTS BAY CAMPGROUNDCOLCHESTER, VT 05446Parcel Number:65-001002-0000000 65-001002-0280100Mailing Address:REPOSA DAVID 28 MALLETTS BAY CAMPGROUNDParcel Number:65-001002-0280100 28 MALLETTS BAY CAMPGROUNDMailing Address:REPOSA DAVID 28 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0280100 28 MALLETTS BAY CAMPGROUND	Mailing Address:	REPOSA DAVID 28 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number:65-001002-0000000Mailing Address:REPOSA DAVIDCAMA Number:65-001002-028010028 MALLETTS BAY CAMPGROUNDProperty Address:28 MALLETTS BAYCOLCHESTER, VT 05446CAMPGROUNDCAMPGROUNDCOLCHESTER, VT 05446	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0280100 28 MALLETTS BAY CAMPGROUND	Mailing Address:	REPOSA DAVID 218 MALLETTS BAY AVE 473 COLCHESTER, VT 05446
	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0280100 28 MALLETTS BAY CAMPGROUND	Mailing Address:	REPOSA DAVID 28 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446



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Parcel Number: CAMA Rumber: 65-001002-000000 Property Address: 30 MALLETTS BAY CAMPGROUNDMailing Address: S0 MALLETTS BAY COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-000000 S0 MALLETTS BAY CAMPGROUNDMailing Address: B4 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Parcel Number: CAMA Number: Froperty Address: S0 MALLETTS BAY CAMPGROUNDMailing Address: B4 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-0301000 CAMPGROUNDMailing Address: BURLINGTON, VT 05401Parcel Number: CAMPGROUND65-001002-0301000 CAMPGROUNDMailing Address: BURLINGTON, VT 05401Parcel Number: CAMPGROUND65-001002-0310000 CAMPGROUNDMailing Address: GUERIN SHELBY CAMPGROUNDParcel Number: Property Address: 31 MALLETTS BAY CAMPGROUNDGUERIN SHELBY CAMPGROUNDParcel Number: Property Address: 31 MALLETTS BAY CAMPGROUNDMailing Address: GUERIN SHELBY GAMA Number: 65-001002-0310000 CAMPGROUNDParcel Number: Property Address: 31 MALLETTS BAY CAMPGROUNDMailing Address: GUERIN SHELBY GAMA Number: 65-001002-0310000 CAMPGROUNDParcel Number: CAMPGROUND65-001002-0310000 CAMPGROUNDParcel Number: CAMPGROUND65-001002-0310000 CAMPGROUNDParcel Number: CAMPGROUND65-001002-0310000 CAMPGROUNDParcel Number: CAMA Number: CAMPGROUND65-001002-0310000 CAMPGROUNDParcel Number: CAMA Number: CAMPGROUND65-001002-0310000 CAMPGROUNDParcel Number: CAMA Number: CAMPGROUND65-001002	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0290000 29 MALLETTS BAY CAMPGROUND	Mailing Address:	REPOSA DAVID 218 MALLETTS BAY AVE 473 COLCHESTER, VT 05446
Parcel Number:65-00102-000000 CAMPGROUNDMailing Address:BURKE BILL MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Property Address:84 MALLETTS BAY CAMPGROUNDCOLCHESTER, VT 05446Parcel Number:65-00102-0310000 CAMPGROUNDMailing Address:GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05401 CAMPGROUNDParcel Number:65-00102-0000000 CAMA Number:Mailing Address:GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05401 CAMPGROUNDParcel Number:65-00102-0000000 CAMA Number:Mailing Address:GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05491 CAMPGROUNDParcel Number:65-00102-0310000 CAMPGROUNDMailing Address:GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05491Parcel Number:65-00102-0000000 CAMPGROUNDMailing Address:GUERIN SHELBY 476 NORTH AVE 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0300000 30 MALLETTS BAY CAMPGROUND	Mailing Address:	BEVINS RICHARD 30 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number:65-00102-0000000 65-001002-0010000 CAMPGROUNDMailing Address:GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05401Parcel Number:65-001002-0010000 65-001002-0010000 CAMPGROUNDMailing Address:GUERIN SHELBY 6FIDLEHEAD RD VERGENNES, VT 05491Parcel Number:65-001002-0010000 CAMPGROUNDMailing Address:GUERIN SHELBY 6FIDLEHEAD RD VERGENNES, VT 05491Parcel Number:65-00102-00100000 CAMPGROUNDMailing Address:GUERIN SHELBY 6FIDLEHEAD RD VERGENNES, VT 05491Parcel Number:65-00102-0010000 CAMPGROUNDMailing Address:GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05401Parcel Number:65-001002-0000000 CAMPGROUNDMailing Address:GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05401Parcel Number:65-001002-0010000 CAMPGROUNDMailing Address:GUERIN SHELBY 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0301000 B4 MALLETTS BAY CAMPGROUND	Mailing Address:	BURKE BILL B4 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:65-001002-0310000 65-001002-0310000 CAMPGROUNDMailing Address: 65-001002-0000000 476 NORTH AVE BURLINGTON, VT 05401Parcel Number: CAMPGROUND65-001002-0000000 CAMPGROUNDMailing Address: Mailing Address: GUERIN SHELBY GUERIN SHELBY BURLINGTON, VT 05401Parcel Number: CAMPGROUND65-001002-0000000 CAMPGROUNDMailing Address: BURLINGTON, VT 05401Parcel Number: CAMPGROUND65-001002-0000000 CAMPGROUNDMailing Address: GUERIN SHELBY CAMPGROUNDParcel Number: CAMPGROUND65-001002-0000000 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0310000 31 MALLETTS BAY CAMPGROUND	Mailing Address:	GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05401
Parcel Number: CAMA Number: Property Address:65-001002-0310000 5-001002-0310000Mailing Address: 476 NORTH AVE BURLINGTON, VT 05401Property Address: CAMPGROUND65-001002-0000000 CAMPGROUNDMailing Address: BURLINGTON, VT 05401Parcel Number: Property Address: Address:65-001002-0310000 CAMPGROUNDMailing Address: WERGENNES, VT 05491Parcel Number: CAMPGROUND65-001002-0310000 CAMPGROUNDMailing Address: WERGENNES, VT 05491Parcel Number: CAMPGROUND65-001002-0310000 CAMPGROUNDMailing Address: BURLINGTON, VT 05401 CAMPGROUNDParcel Number: Property Address: CAMPGROUND65-001002-0310000 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0310000 31 MALLETTS BAY CAMPGROUND	Mailing Address:	GUERIN SHELBY 6 FIDDLEHEAD RD VERGENNES, VT 05491
Parcel Number: CAMA Number: Property Address:65-001002-000000 GAMPGROUNDMailing Address: G FIDDLEHEAD RD VERGENNES, VT 05491Parcel Number: CAMPGROUND65-001002-000000 G5-001002-001000Mailing Address: 476 NORTH AVE BURLINGTON, VT 05401Parcel Number: CAMPGROUND65-001002-001000 CAMPGROUNDMailing Address: 476 NORTH AVE BURLINGTON, VT 05401Parcel Number: CAMPGROUND65-001002-001000 CAMPGROUNDMailing Address: Mailing Address:GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05401Parcel Number: CAMPGROUND65-001002-0000000 CAMA Number: 65-001002-0310000Mailing Address: 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0310000 31 MALLETTS BAY CAMPGROUND	Mailing Address:	GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05401
Parcel Number: CAMA Number:65-001002-0000000 65-001002-0310000 31 MALLETTS BAY CAMPGROUNDMailing Address: 476 NORTH AVE BURLINGTON, VT 05401Parcel Number: CAMA Number:65-001002-0000000 65-001002-0310000 Property Address:Mailing Address: GUERIN SHELBY 6 FIDDLEHEAD RD VERGENNES, VT 05491Parcel Number: Property Address:65-001002-0000000 31 MALLETTS BAY CAMPGROUNDMailing Address: GUERIN SHELBY 6 FIDDLEHEAD RD VERGENNES, VT 05491Parcel Number: CAMA Number: Property Address:65-001002-0000000 65-001002-0030000 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0310000 31 MALLETTS BAY CAMPGROUND	Mailing Address:	GUERIN SHELBY 6 FIDDLEHEAD RD VERGENNES, VT 05491
Parcel Number: CAMA Number: Property Address:65-001002-000000 65-001002-0310000 31 MALLETTS BAY CAMPGROUNDMailing Address: 6 FIDDLEHEAD RD VERGENNES, VT 05491Parcel Number: CAMA Number: CAMA Number: Property Address:65-001002-0000000 65-001002-0330000 65-001002-0330000Mailing Address: PO BOX 163 COLCHESTER, VT 05446Parcel Number: CAMPGROUND65-001002-0000000 65-001002-0330000Mailing Address: PO BOX 163 COLCHESTER, VT 05446Parcel Number: CAMA Number: Property Address:65-001002-0000000 65-001002-0340000 	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0310000 31 MALLETTS BAY CAMPGROUND	Mailing Address:	GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05401
Parcel Number:65-001002-000000 65-001002-0330000Mailing Address:CORREIA RICHARD PO BOX 163 COLCHESTER, VT 05446Property Address:33 MALLETTS BAY CAMPGROUNDMailing Address:COLCHESTER, VT 05446Parcel Number:65-001002-0000000 65-001002-0340000Mailing Address:MERCIER DENNIS 34 MALLETTS BAY CAMPGROUNDProperty Address:65-001002-0340000 34 MALLETTS BAY CAMPGROUNDMailing Address:MERCIER DENNIS 34 MALLETTS BAY CAMPGROUNDParcel Number: CAMA Number:65-001002-0000000 65-001002-0350000Mailing Address:SWEENEY LARRY 35 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446Property Address:35 MALLETTS BAY CAMPGROUNDMailing Address:SWEENEY LARRY 35 MALLETTS BAY CAMPGROUND	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0310000 31 MALLETTS BAY CAMPGROUND	Mailing Address:	GUERIN SHELBY 6 FIDDLEHEAD RD VERGENNES, VT 05491
Parcel Number: CAMA Number:65-001002-0000000 65-001002-0340000Mailing Address:MERCIER DENNIS 34 MALLETTS BAY CAMPGROUNDProperty Address:34 MALLETTS BAY CAMPGROUNDCOLCHESTER, VT 05446Parcel Number: CAMA Number:65-001002-0000000 65-001002-0350000Mailing Address:SWEENEY LARRY 35 MALLETTS BAY CAMPGROUNDProperty Address:35 MALLETTS BAY CAMPGROUNDCOLCHESTER, VT 05446	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0330000 33 MALLETTS BAY CAMPGROUND	Mailing Address:	CORREIA RICHARD PO BOX 163 COLCHESTER, VT 05446
Parcel Number:65-001002-0000000Mailing Address:SWEENEY LARRYCAMA Number:65-001002-035000035 MALLETTS BAY CAMPGROUNDProperty Address:35 MALLETTS BAYCOLCHESTER, VT 05446CAMPGROUNDCOLCHESTER, VT 05446	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0340000 34 MALLETTS BAY CAMPGROUND	Mailing Address:	MERCIER DENNIS 34 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
	Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0350000 35 MALLETTS BAY CAMPGROUND	Mailing Address:	SWEENEY LARRY 35 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446



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Parcel Number: CAMA Number: Property Address:	65-001002-000000 65-001002-0360000 36 MALLETTS BAY CAMPGROUND	Mailing Address:	SMITH DENNIS L 128 INDIAN CIR 1 COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0370000 37 MALLETTS BAY CAMPGROUND	Mailing Address:	MANNING TOM 37 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0380000 38 MALLETTS BAY CAMPGROUND	Mailing Address:	LAMAR MAX 38 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0390000 39 MALLETTS BAY CAMPGROUND	Mailing Address:	LYNDES CRAIG 70 SOUTH WINOOSKI AVE # 121 BURLINGTON, VT 05401
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0410000 41 MALLETTS BAY CAMPGROUND	Mailing Address:	COMBS MARILYN 27110 JONSTOP 3306 PUNTA GORDA, FL 33982
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0420000 42 MALLETTS BAY CAMPGROUND	Mailing Address:	GALIETTA STEPHEN 260 RAND HILL RD MORRISONVILLE, NY 12962
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0430000 43 MALLETTS BAY CAMPGROUND	Mailing Address:	LUNDERVILLE FRANCIS 403 TIMBER PASSAGE TRAIL WILLIAMSBURG, VA 23185
Parcel Number: CAMA Number: Property Address:	65-001002-000000 65-001002-0430000 43 MALLETTS BAY CAMPGROUND	Mailing Address:	LUNDERVILLE FRANCIS 6498 POPLAR POND DR GLOUCESTER, VA 23061
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0430000 43 MALLETTS BAY CAMPGROUND	Mailing Address:	LUNDERVILLE FRANCIS 403 TIMBER PASSAGE TRAIL WILLIAMSBURG, VA 23185
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0430000 43 MALLETTS BAY CAMPGROUND	Mailing Address:	LUNDERVILLE FRANCIS 6498 POPLAR POND DR GLOUCESTER, VA 23061
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0440000 44 MALLETTS BAY CAMPGROUND	Mailing Address:	MCLEOD SANDRA 18545 NW 45TH AVE RD CITRA, FL 32113
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0450000 45 MALLETTS BAY CAMPGROUND	Mailing Address:	LANDON MARK 675 LUZERNE RD QUEENSBURY, NY 12804



3/3/2025



Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0460000 46 MALLETTS BAY CAMPGROUND	Mailing Address:	FERGUSON GEORGE JR 104 FERGUSON RD FAIRFAX, VT 05454
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0460000 46 MALLETTS BAY CAMPGROUND	Mailing Address:	FERGUSON GEORGE JR 88 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0460000 46 MALLETTS BAY CAMPGROUND	Mailing Address:	FERGUSON GEORGE JR 104 FERGUSON RD FAIRFAX, VT 05454
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0460000 46 MALLETTS BAY CAMPGROUND	Mailing Address:	FERGUSON GEORGE JR 88 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0470000 47 MALLETTS BAY CAMPGROUND	Mailing Address:	BUSHEY MICHAEL 2631 N CAMBRIDGE RD JEFFERSONVILLE, VT 05464
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0480000 48 MALLETTS BAY CAMPGROUND	Mailing Address:	BENNETT JAMES 48 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0490000 49 MALLETTS BAY CAMPGROUND	Mailing Address:	AURELLI MIKE 49 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0500000 50 MALLETTS BAY CAMPGROUND	Mailing Address:	HARVEY ROBERT P 1 WILSON ST BARRE, VT 05661
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0550000 55 MALLETTS BAY CAMPGROUND	Mailing Address:	COOK THEODORE 55 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0590000 59 MALLETTS BAY CAMPGROUND	Mailing Address:	CLEVELAND TOM 59 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0610000 61 MALLETTS BAY CAMPGROUND	Mailing Address:	DAIGLE CAROLYN 261 JOURDAN ST HINESBURG, VT 05461
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0740000 74 MALLETTS BAY CAMPGROUND	Mailing Address:	HOWE GARY 74 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446



3/3/2025



Parcel Number: CAMA Number: Property Address:	65-001002-000000 65-001002-0800000 80 MALLETTS BAY CAMPGROUND	Mailing Address:	ASKEW TOBY 3524 MARILYN RD PORTSMOUTH, VA 23703
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0800000 80 MALLETTS BAY CAMPGROUND	Mailing Address:	ASKEW TOBY 80 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0800000 80 MALLETTS BAY CAMPGROUND	Mailing Address:	ASKEW TOBY 3524 MARILYN RD PORTSMOUTH, VA 23703
Parcel Number: CAMA Number: Property Address:	65-001002-0000000 65-001002-0800000 80 MALLETTS BAY CAMPGROUND	Mailing Address:	ASKEW TOBY 80 MALLETTS BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: CAMA Number: Property Address:	65-003002-0000000 65-003002-0000000 105 WEST LAKESHORE DR	Mailing Address:	HAZELETT STRIP CASTING CORPORATION 135 WEST LAKESHORE DR COLCHESTER, VT 05446
Parcel Number:	65-004002-0000000	Mailing Address:	LURVEY RAYA J
CAMA Number:	65-004002-0000000		42 KYLIES WAY
Property Address:	215 WEST LAKESHORE DR		COLCHESTER, VT 05446
Parcel Number:	65-004002-0000000	Mailing Address:	LURVEY RAYA J
CAMA Number:	65-004002-0000000		4001 ETHAN ALLEN HWY APT D
Property Address:	215 WEST LAKESHORE DR		GEORGIA, VT 05478
Parcel Number:	65-004002-0000000	Mailing Address:	LURVEY RAYA J
CAMA Number:	65-004002-0000000		22 FERN CT #1
Property Address:	215 WEST LAKESHORE DR		COLCHESTER, VT 05446
Parcel Number:	65-004002-0000000	Mailing Address:	LURVEY RAYA J
CAMA Number:	65-004002-0000000		42 KYLIES WAY
Property Address:	215 WEST LAKESHORE DR		COLCHESTER, VT 05446
Parcel Number:	65-004002-0000000	Mailing Address:	LURVEY RAYA J
CAMA Number:	65-004002-0000000		4001 ETHAN ALLEN HWY APT D
Property Address:	215 WEST LAKESHORE DR		GEORGIA, VT 05478
Parcel Number:	65-004002-0000000	Mailing Address:	LURVEY RAYA J
CAMA Number:	65-004002-0000000		22 FERN CT #1
Property Address:	215 WEST LAKESHORE DR		COLCHESTER, VT 05446
Parcel Number:	65-004002-0000000	Mailing Address:	LURVEY RAYA J
CAMA Number:	65-004002-0000000		42 KYLIES WAY
Property Address:	215 WEST LAKESHORE DR		COLCHESTER, VT 05446





Parcel Number:	65-004002-0000000	Mailing Address:	LURVEY RAYA J
CAMA Number:	65-004002-0000000		4001 ETHAN ALLEN HWY APT D
Property Address:	215 WEST LAKESHORE DR		GEORGIA, VT 05478
Parcel Number:	65-004002-0000000	Mailing Address:	LURVEY RAYA J
CAMA Number:	65-004002-0000000		22 FERN CT #1
Property Address:	215 WEST LAKESHORE DR		COLCHESTER, VT 05446
Parcel Number:	65-005002-0000000	Mailing Address:	DEFORGE GERALD B
CAMA Number:	65-005002-0000000		PO BOX 69
Property Address:	61 JAKES PLACE		COLCHESTER, VT 05446
Parcel Number:	65-006002-0000000	Mailing Address:	332 WEST LAKESHORE DRIVE, LLC
CAMA Number:	65-006002-0000000		218 OVERLAKE DR
Property Address:	0 WEST LAKESHORE DR		COLCHESTER, VT 05446
Parcel Number:	65-017002-0000000	Mailing Address:	SP COVE LLC
CAMA Number:	65-017002-0000000		171 CRESCENT RD
Property Address:	278 WEST LAKESHORE DR		BURLINGTON, VT 05401
Parcel Number:	65-021002-0000000	Mailing Address:	GARDNER NEIL
CAMA Number:	65-021002-0000000		319 MARBLE ISLAND RD
Property Address:	76 WEST LAKESHORE DR		COLCHESTER, VT 05446





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THE H AT MALLETTS BAY

CONCEPTUAL PERSPECTIVES

	WOOD-LOOK BOARD SIDING ON MAIN BUILDING & COTTAGES	WOOD SHAKES ON MAIN BUILDING & COTTAGES	STON BUILD
NELS			









THE H AT MALLETTS BAY

CONCEPTUAL PERSPECTIVES 03/03/25





A2



MAIN BUILDING 03/03/25

THE H AT MALLETTS BAY

MAX 30% ALLOWED PER CBES, BUT 40% ALLOWED IF DAYLIGHT ZONE AND CONTROLS REQUIREMENTS ARE MET

TOTAL FENESTRATION AREA = 2,615 SF / 33%

FENESTRATION AREAS: NORTH = 1,722 SF EAST = 245 SF SOUTH = 532 SF WEST = 116 SF

ABOVE-GRADE WALL AREAS: NORTH = 3,192 SF EAST = 1,444 SF SOUTH = 1,842 SF WEST = 1,380 SF TOTAL ABOVE-GRADE WALL AREA = 7,858 SF

4 SOUTH ELEVATION (STREET SIDE) 1/8" = 1'-0"

				- STONE CHIMNEY
THE				- STRUCTURAL "SAIL" CANOPY SUPPORTS
	BAY			FOOD LIFT
- METAL PANEL SIDING AT THE 'H'	WOOD-LOOK PLANK SIDING	DECORATIVE ALUMINUM PANELS	OPERABLE GLASS WALL	

6 NORTH ELEVATION (LAKE SIDE) 1/8" = 1'-0"















ROOF ABOVE

TYPICAL COTTAGE (1, 2 & 4)03/03/25THREE BUILDINGS, EACH CONTAINING (4) STUDIOS
& (1) 2-BEDROOM SUITE

THE H AT MALLETTS BAY

MAX 30% ALLOWED PER CBES, BUT 40% ALLOWED IF DAYLIGHT ZONE AND CONTROLS REQUIREMENTS ARE MET

FENESTRATION AREAS: NORTH = 1,196 SF EAST = 332 SF SOUTH = 219 SF WEST = 332 SF TOTAL FENESTRATION AREA = 2,079 SF / 39%

ABOVE-GRADE WALL AREAS: NORTH = 1,819 SF EAST = 1,266 SF SOUTH = 1,027 SF WEST = 1,266 SF TOTAL ABOVE-GRADE WALL AREA = 5,378 SF

6 SOUTH 1/8" = 1'-0"



- ALUMINUM-CLAD WINDOW WOOD SHAKE SIDING WOOD-LOOK PLANK SIDING STRUCTURAL CABLE SYSTEM METAL TRIM AT CANOPY ALUMINUM STOREFRONT SYSTEM - METAL PANEL SIDING AT 'H' STONE VENEER

4 NORTH 1/8" = 1'-0"

5 WEST 1/8" = 1'-0"

7 EAST 1/8" = 1'-0"

		& FASCIA TRIM
		WOOD SHAKE SIDING
	-	GLASS GUARDRAIL
		PRIVACY SCREENS BEYOND
		ALUMINUM-CLAD DOOR W/ TRANSOM GLASS
		ALUMINUM-CLAD FIXED GLAZING W/ TRANSOM
		STONE VENEER





8 CROSS SECTION 1/8" = 1' 0" 1/8" = 1'-0"

AVERAGE EXISTING GRADES: COTTAGE 1 = 115.4' COTTAGE 2 = 124.3' COTTAGE 4 = 115.9'

MAX PERMITTED HEIGHTS (AVE+40') COTTAGE 1 = 155.4' COTTAGE 2 = 164.3' COTTAGE 4 = 155.9'

MEASURED HEIGHTS TO TALLEST RIDGE: COTTAGE 1 = 155.4' COTTAGE 2 = 156.4' COTTAGE 4 = 155.4'

ACTUAL HEIGHTS: (MEASURED HEIGHT - AVG GRADE) COTTAGE 1 = **40'** COTTAGE 2 = 32.1' COTTAGE 4 = **40'**



METAL EAVE, RAKE & FASCIA TRIM

WOOD SHAKE SIDING

SLIDING DOOR W/ TRANSOM GLASS

GLASS GUARDRAIL SYSTEM

ACCENT METAL PANEL SIDING

METAL PANEL SIDING

PERFORATED PRIVACY SCREENS OVER WINDOWS

STONE VENEER



SCALE (CM)

LOWER LEVEL ELEVATIONS PER CIVIL PLANS: COTTAGE 1 = 114' COTTAGE 2 = 115' COTTAGE 4 = 114'



(1) 2-BEDROOM SUITE 3 UPPER LEVEL 1/8" = 1'-0"



(2) STUDIO UNITS

(1) GROUND FLOOR 1/8" = 1'-0"



 $\left\{ \right\}$

SCALE: 1/8" = 1'-0" FT / 30.48 CM







(2) STUDIO UNITS

2 LOWER LEVEL 1/8" = 1'-0"

COTTAGE 3 ONE BUILDING, EACH CONTAINING (3) STUDIOS, (1) 2-BEDROOM SUITE & MANAGER'S APARTMENT

THE H AT MALLETTS BAY

MAX 30% ALLOWED PER CBES, BUT 40% ALLOWED IF DAYLIGHT ZONE AND CONTROLS REQUIREMENTS ARE MET

FENESTRATION AREAS: NORTH = 1,196 SF EAST = 332 SF SOUTH = 219 SF WEST = 332 SF TOTAL FENESTRATION AREA = 2,079 SF / 39%

ABOVE-GRADE WALL AREAS: NORTH = 1,819 SF EAST = 1,266 SF SOUTH = 1,027 SF WEST = 1,266 SF TOTAL ABOVE-GRADE WALL AREA = 5,378 SF

6 SOUTH 1/8" = 1'-0"



4 NORTH 1/8" = 1'-0"









BATH HOUSE 03/03/25

THE H AT MALLETTS BAY

 \bigcirc

1) FLOOR PLAN 1/8" = 1'-0"







2 WEST ELEVATION 1/8" = 1'-0"





4 NORTH ELEVATION 1/8" = 1'-0"



3 SOUTH ELEVATION 1/8" = 1'-0"





5 EAST ELEVATION 1/8" = 1'-0"

ANNEX BUILDING

03/03/25

THE H AT MALLETTS BAY



6 PERSPECTIVE





5 WEST ELEVATION 1/8" = 1'-0"



2 EAST ELEVATION 1/8" = 1'-0"





(4) SOUTH ELEVATION 1/8" = 1'-0"

3 NORTH ELEVATION 1/8" = 1'-0"

1	
	— OVERHEAD DOORS









T.J. BOYLE ASSOCIATES LANDSCAPE ARCHITECTURE & PLANNING

REVISIONS

DATE



40'

THE 'H' AT MALLETTS BAY L1.0

AM(4)	July -	W &	, = =	-BP (2)	
TI ST	1 Jos	A C	CSAF (2) CCO		1
DL (4)			PV ¹⁰⁴ CSAF		
	TA (2) BP	(5) AP~	PV (3)	ASGM (2)	FROM ERN
10	AR		AM (6		CCG
SHORTGRASS SAVANNAH			AM (2)		
SEED MIX (2,600 SF)	HC.) H		AGE 1	ADE INNIAL FRIX P.M)
	SNOT			CM (6)	CM (5)
LEGEND EXISTING DECIDUOUS TREES	T	PF (3)	FGE(5) AMT(11) PF (3)	
EXISTING CONIFER TREES DECIDUOUS TREES/SHRUBS		JS (5) 1	ASGM-	AF	AF
CONIFER TREES/SHRUBS	8			128	
red maple, sugar maple, gray birch, black willow, chokecherry, black chokeberry, hazelnut, sandbar willow, white cedar, elderberry, lowbush blueberry, native erosion control mix from Ernst		— — — — — —			w
Conservation Seed UPLAND SLOPE RESTORATION PLANTING freeman maple, red maple, sugar maple,				129	129 121
tupelo, american hophornbeam, red oak, basswood, white pine, red cedar, striped maple, redosier dogwood, bush honeysuckle, snowberry, maple leaf viburnum, native erosion control mix from Ernst Conservation Seed			A A A A A A A A A A A A A A A A A A A	WE	
GROVE PLANTING WITH SEEDED UNDERSTORY gray birch, basswood, white cedar, Shortgrass Savannah/Woods Edge Seed			A A A A A A A A A A A A A A A A A A A	SE REF. SCHEDU SEE CIVIL PLAN	ED MIX (6,000 S JLE FOR APPLIC S FOR APPLICA
Mix from Prairie Moon Nursery RELEASED FOR DEDMITTINIC				130	
PERIVITTING 03/03/2025 Planting Schedule: Shrubs and Perennials Shrubs and Woody Groundcovers	0	L . L		131	
Quantity Code Scientific Name Common Name Inside Lake Setback Outside Lake Setback Code Scientific Name Common Name 15 AU ARCTYSTAPHYLOS uva-ursi Bearberry 61 14 AM ARONIA melanocarpa Black Chokeberry 21 4 CA CORYLUS americana American Hazelnut 27 SS SALIX exigure sp. "Interior" Sandbar Willow	Size Total Cal. 6"#1 #10 36"#5 6'B&B	- Independent of the second se	rees		
18 SC SAMBUCUS canadensis Black Elderberry 92 VAN VACCINIUM angustifolium 'Brunswick' Low Sweet Blueberry 29 14 DL DIERVILLA Ionicera Bush Honeysuckle 17 11 SA SYMPHORICARPOS albus Snowberry 2 1 HV HAMAMELIS virginiana Witch-hazel 5 15 HA HYDRANGEA arborescens Smooth Hydrangea 10 7 FG FOTHERGILLA gardenii Dwarf Witch-Adder	#3 #2 #5 \$-6'B&B #5 4-5'B&B	Inside Lake C Setback 1 10 2	Utside Lake Setback Code Scientific Name AR ACER rubrum A 1 BP BETULA populifolia 'Whitespire' SN SALIX nigra 3 NS 5 OV	Common Name Red Maple Gray Birch Black Willow Tupelo American Hophornbeam	Size Total C 3" cal 3 3" cal 3 10" 4 2" cal 0 2" cal 0
16 5 VA WBURNUM accritolium Maple-leaved Vibumum 7 2 ST STAPHYLEA trifolia Bladdernut 1 SV SYRINGA wlgaris 'Monge' Dark Purple Common Lilac 19 STO SPIREA tomentosa Steeplebush 19 PF POTENTILLA fruticosa 'Pink Beauty' Shrubby Cinquefoil 6 PO PHYSOCARPUS opulifolius Common Ninebark 16 27 CSAF CORNUS sericea 'Arctic Fire' Arctic Fire Dogwood	#3 #5 6'B&B 2 Gal #5 24"#5 #7		1 QR QUERCUS rubra 5 TA TILIA americana 7 GT GLEDITSIA tricanthos var. inermis 'S 4 BN BETULA nigra 'Cully 4 AF ACER xfreemanii 'Autumn Blaze' 2 CeO CELTIS occidentalis 7 ASGM ACER saccharum 'Green Mountain'	Red Oak Basswood Shademaster Shademaster Thomless Honeyloo Cully River Birch Autumn Blaze Hybrid Maple Hackberry Green Mountain Sugar Maple	3" 0 3" 3 cust 3" cal 0 3" cal 0 3" cal 0 3" cal 0 3" cal 0 3" cal 6
Shade Perennial Matrix (S.P.M.) Quantity Inside Lake Outside Lake Setback Code Scientific Name Common Name 52 259 A CAREX pensylvanica 20 174 B ATUVDI IM 6Fin 6 miles	Size Total Cal.	Total qty: 36	AP ACER pensylvanicum PV PRUNUS virginiana 4 CCG CRATAEGUS crus-galli inermis 'Cru 47 nd shrubs	Striped Maple Chokecherry izam' Crusader Thornless Cockspur Ha	2" cal 2 4" Cal 24 wthom 2" 24
20 1/4 D AIT TRUM fellx/termina Lady Fern 26 144 C DRYOPTERIS marginalis Marginal Wood Fern 24 149 D CAREX platyphyla Broad-leaved sedge 6 70 E CAREX platyphyla Seersucker sedge 6 70 E CAREX platyphyla Blue Cohosh M HELENIUM autumnale Sneezeweed	2 qt 2 Qt 2 Qt 2 Qt 2 Qt	Inside Lake Setback	utside Lake Setback Code Scientific Name 10 AB ABIES balsamea 2 PS PINUS strobus 1 JV JUNIPERUS virginiana TO THUJA occidentalis 'Niora'	Common Name Bals am Fir White Pine Eastern Red Cedar White Cedar Dark American Arborvitae	Size Total (6' 6' 6' 1 10' 1: 8'
Other Perennials Code Scientific Name Common Name Qty. Code Scientific Name Common Name 26 OC OSMUNDA cinnamomea Cinnamon Fern 34 AC ASARUM canadense Canada Wild Ginger 28 AMT ACHILLEA millefolium 'Salmon Beauty' Salmon Beauty Yarrow 19 CV COREOPSIS verticillata 'Moonbeam' Moonbeam Tickseed 43 FGE FESTUCA glauca 'Elijah Blue' Blue Fescue 118 NWL NEPETA xfaasenii 'Walker's Low' Walker's Low Catmint	Size 1 gal 4" Pot #2 #2 #1 #2 #1	6 Total qty: 13	8 TxH TAXUS x 'Hicksii' 16 PJM RHODODENDRON 'PJM Elite' 3 IG ILEX glabra 'Shamrock' 4 TOS THUJA occidentalis 'Smaragd' 5 JS JUNIPERUS 'Sea Green' 2 TCP TSUGA canadensis 'Pendula'	Hick's Yew PJM Rhododendron Inkberry Holly Emerald Green Arborvitae Sea Green Juniper Dwarf Weeping Hemlock	30" 36" #7 8' 30" 5-6'B&B
Total qty: 0 275 CB CALAMAGROSTIS brachytricha Korean Feather Reed Grass Seed Mixes Qty. Code Scientific Name Application Rate 3 Vermont Wetland Hummock Mix 20lbs per acre 3 Shortgrass Woods Edge or Savanna Seed Max 10 lbs occoore	#1 Unit Size Pound 1000 sf coverage	Summary of Existing Total Stems >1" Existing: Total Stems >1" DBH to Rel Total Stems >1" DBH to Be Total Stems >1" DBH to Be	and Proposed Vegetation Within 100' L 124 nain: 70 Removed: 54 (17 of which excent loved: 359" (251" are from t	ake Setback ed 8" DBH) he 17 referenced immediately abc	ove, or 70%)
14 VT Native Custom Steep Slope Erosion Control Mix (10,000 sf) 60 lbs/ acre	Pound	Total Number of Trees >1" Total Cal. Inches of Propos Total Number of Woody Shi	Lai. to be Planted: 49 ed Trees: 85 ubs to be Planted: 321	D 500 10	00

LANDSCAPE ARCHITECTURE & PLANNING





Classification	Ave. Luminance			Ave. Uniformity Ratio	Max. Uniformity Ratio
			Illuminance	e ¹	
Area	Avg.	Max.	Min.	Ave./Min.	Max./Min.
Parking Lot	1.0				20:1
Walkway	0.5				
Canopy	3.0				

Area	Avg.	Max.	Min.	Ave./Min.	Max./Min.
Drives and Parking North of W. Lakeshore Dr.	1.0				19.8 : 1
Drives and Parking South of W. Lakeshore Dr.	0.8				17.3 : 1
Sidewalks North of W. Lakeshore Dr. ^{2,4}	0.5				
Sidewalks South of W. Lakeshore Dr. ^{2,4}	0.5				
Sidewalk at Mid-Block Crossing	1.5 (2.0 @ +5' 4)				
Canopies North of W. Lakeshore Dr. ³	1.9				
Canopy South of W. Lakeshore Dr. ³	2.1				1

Label	Qty.	Manufacturer/Fixture	Fixture Ordering Number	Туре	Lamp	Color Temp	Voltage ²	CRI	Watt	Fii
UR2	4	Kim, Ouro Site Fixture	UR20-24L-25-3K8-2-UNV-XXXX-BLS-WSP-40F-1-XXXXX-SCH-R	2	LED	3000K	UNV	80	55	BL
UR3	4	Kim, Ouro Site Fixture	UR20-24L-25-3K8-3-UNV-XXXX-BLS-WSP-40F-1-XXXXX-SCH-R	3	LED	3000K	UNV	85	25	AG
UR4	5	Kim, Ouro Site Fixture	UR20-24L-25-3K8-4-UNV-XXXX-BLS-WSP-40F-1-XXXXX-SCH-R	4	LED	3000K	UNV	90	11	B⊧
UR4W	1	Kim, Ouro Site Fixture	UR20-24L-25-3K8-4W-UNV-XXXX-BLS-WSP-40F-1-XXXXX-SCH-R	4w	LED	3000K	UNV	90	6.1	W
UR5	1	Kim, Ouro Site Fixture	UR20-24L-25-3K8-5-UNV-XXXX-BLS-WSP-40F-1-XXXXX-SCH-R	5	LED	3000K	UNV	90	55	BL
C1	15	Juno Slimform Canopy	JSFTRIM 5IN 07LM SWW5 MVOLT DIMMABLE	N/A	LED	3500K	UNV	90	9	BF
C2	2	Juno Slimform Canopy	JSFTRIM 5IN 07LM SVWV5 MVOLT DIMMABLE	N/A	LED	3500K	UNV	90	9	BF
WP1	2	Lithonia, Wedge Wall Sconce	WDGE1 LED P0 30K 80CRI VW MVOLT SRM PE DDBXD	w	LED	3000K	UNV	80	4	BF
P1	19*	Coastal Source, Small Mushroom Path	N/A	N/A	LED	3000K	UNV	90	6.1	W





T.J. BOYLE ASSOCIATES LANDSCAPE ARCHITECTURE & PLANNING







DATE

TREE PRUNING NOTES:

- REFER TO ANSI A300 (Part 1, MOST UPDATED VERSION) PRUNING SPECIFICATIONS FOR
- ADDITIONAL INFORMATION.
- WORK SHOULD BE PREFORMED BY A <u>CERTIFIED ARBORIST</u> OR <u>PROFESSIONAL TREE COMPANY</u>.
- AVOID DAMAGING BARK AND OTHER LIVING TISSUE THROUGHOUT THE PRUNING PROCESS.
- MAKE SURE PRUNING TOOLS ARE SHARP.
- MAKE CLEAN CUT AS CLOSE TO THE BRANCH COLLAR AS POSSIBLE. DO NOT LEAVE A STUB.
- REDUCE THE SIZE OF THE BRANCH FOR A BETTER CUT.
- THE FIRST AND SECOND CUTS SHOULD BISECT THE ANGLE BETWEEN ITS BRANCH BARK RIDGE AND AN IMAGINARY LINE PERPENDICULAR TO THE BRANCH OR STEM.
- NOT MORE THAN 25% OF GROWTH SHOULD BE REMOVED FROM A CANOPY DURING A GROWING SEASON.

TREE PROTECTION NOTES

- PRIOR TO ANY CONSTRUCTION ACTIVITY, ALL TREE PRESERVATION MEASURES MUST BE IMPLEMENTED.
- CONTRACTOR CHOSEN FOR THIS WORK WILL BE AN EXPERIENCED TREE SERVICE FIRM THAT HAS SUCCESSFULLY COMPLETED TREE PROTECTION, ROOT PRUNING, AND TRIMMING WORK, SIMILAR TO THAT REQUIRED FOR THIS PROJECT.
- PRIOR TO CONSTRUCTION SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK. CONTACT DIG SAFE TWO FULL BUSINESS DAYS BEFORE PLANTING. (48 HOUR MIN.)
- PRIOR TO THE SITE VISIT ALL TREE PRESERVATION AREAS SHALL BE STAKED OUT ON SITE BY SURVEY.
- TREE PROTECTION FENCING SHALL REMAIN INTACT THROUGHOUT ALL CONSTRUCTION ACTIVITY.
- THERE WILL BE NO EXCAVATION FOR PROPOSED SITE WORK WITHIN FENCED AREA.
- NO MATERIALS OR EQUIPMENT SHALL BE STORED, STOCKPILED OR OPERATED WITHIN TREE PROTECTION AREAS.
- TREE PROTECTED AREAS WILL BE LEFT AS NATURAL AS POSSIBLE.
- IN AREAS OF EXCAVATION NEAR TREE, IDENTIFY AND CUT ROOTS IN CONSULTATION WITH OWNER.
- REMOVE POORLY ATTACHED AND RUBBING LIMBS. CLEAN THE CROWN OF DEAD, DISEASED AND WEAK LIMBS. THINNING OF HEALTHY LIMBS IS NOT RECOMMENDED AT THIS TIME.
- ANY NECESSARY TRENCHING SHALL BE IMMEDIATELY BACKFILLED WITH REMOVED SOIL OR OTHER SOIL MIX AS DESCRIBED IN CONTRACT SPECIFICATIONS.
- AN AIR SPADE/AIR KNIFE IS TO BE USED TO EXCAVATE DOWN TO MINIMUM OF 2'. SEE DETAILS

FENCE DETAIL:

L2.0 /NTS

- THIS FENCE SERVES AS A TREE PROTECTION DEVICE ONLY.
- ROOT DAMAGE SHALL BE AVOIDED WITHIN FENCED AREA
- FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION FENCE

REVISIONS

DATE

SIGN DETAIL

- ATTACHMENTS OF SIGNS TO TREES IS PROHIBITED.
- SIGNS SHOULD BE MADE OF VINYL OR PLASTIC.
- SIGNS SHOULD BE PROPERLY MAINTAINED, PENALTIES WILL BE ENFORCED FOR REMOVAL OF SIGNS.
- AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
- SIGNS SHOULD BE POSTED 50' O.C. AND WITHIN 20' OF THE BEGINNING AND END OF EACH FENCE TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL
- SIGNS TO BE SECURELY FASTENED TO THE FENCE OR FENCE POSTS.
- SIGNS TO HAVE A WHITE BACKGROUND AND ORANGE OR RED TEXT.

SECOND CUT

- FIRST CUT

- CUT AT ANGLE TO THE BRANCH COLLAR -BRANCH COLLAR

- 8" WIRE "U" TO SECURE BOTTOM OF

- ANCHOR POST MUST BE INSTALLED TO A DEPTH OF NO LESS THAN 1/3 OF THE TOTAL HEIGHT OF THE POST.

GENERAL PLANTING NOTES:

- 1. THE LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK. CONTACT DIG SAFE TWO FULL BUSINESS DAYS BEFORE PLANTING. (48 HOUR MIN.)
- 2. THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS. THE PLAN QUANTITIES SHALL ALWAYS SUPERCEDE THE PLANT LIST.
- 3. ALL PLANT MATERIAL SHALL CONFORM AND BE INSTALLED TO THE GUIDELINES ESTABLISHED BY THE CURRENT ANSI Z60.1.
- 4. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
- 5. THE LANDSCAPE CONTRACTOR SHALL PROVIDE AMENDED PLANTING SOIL AS PER THE CONTRACT SPECIFICATIONS.
- 6. SOIL DEPTH SHOULD BE AS LISTED BELOW. EXISTING SOIL ON SITE WHICH MEETS THE CONTRACT SPECIFICATIONS MAY BE USED. REMOVE SUB GRADE AND OTHER GRAVEL FILL IN PLANTING AREAS ON SITE
- 6.1. GROUND COVER BEDS: 12" DEPTH. 6.2. LAWN AREAS: 6" DEPTH
- SHRUB/PLANT BEDS: 18" DEPTH 6.3.
- 7. PLANTS SHALL BE INSTALLED SUCH THAT THE ROOT FLARE IS AT OR SLIGHTLY ABOVE FINAL GRADE (DUE TO NURSERY PRACTICES THIS MAY REQUIRE REMOVING SOIL FROM THE TOP OF THE ROOT BALL TO LOCATE THE ROOT FLARE).
- 8. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING.
- 9. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
- 10. THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND SHRUBS SHALL BE FLAGGED FOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
- 11. LANDSCAPE ARCHITECT MAY REQUIRE ALL PLANTS BE SPRAYED WITH AN ANTIDESSICANT WITHIN 24 HOURS AFTER PLANTING. IN TEMPERATE ZONES, ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT AT THE BEGINNING OF THEIR FIRST WINTER.
- 12. STAKING PLANTS IS AT THE DISCRETION OF THE LANDSCAPE CONTRACTOR. ONLY STAKE PLANTS IN THE MANNER SPECIFIED IN THE PLANTING DETAILS.
- 13. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY, IF NECESSARY, DURING THE FIRST GROWING SEASON.
- 14. THE LANDSCAPE CONTRACTOR SHALL REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 15. THE LANDSCAPE CONTRACTOR SHALL REFER TO THE PLANT LIST FOR SEASONAL REQUIREMENTS RELATED TO THE TIME OF PLANTING.

PLANT SPACING CHART

O.C. = ON CENTER

L2.0 /NTS

6

PLANT SPACING CHART DETAIL

LAWN

— 3" MAX.

Spacing 'D'	Row 'A'	Number of Plants	Area Unit
6" O.C.	5.2"	4.61	1 SQ. FT.
8" O.C.	6.93"	2.6	
10" O.C.	8.66"	1.66	
12" O.C.	10.4"	1.15	
15" O.C.	13.0"	7.38	10.SO FT
18" O.C.	15.6"	5.12	10 00.11.
24" O.C.	20.8"	2.91	
30" O.C.	26.0"	1.55	
36" O.C.	30.0"	1.25	
4' O.C.	3.46'	7.25	100 SO FT
5' O.C.	4.38'	4.61	100 0 0 0.1 11
6' O.C.	5.2'	3.2	
8' O.C.	6.93'	1.8	
10' O.C.	8.66'	1.16	
12' O.C.	10.4'	8	1000 SO FT
15' O.C.	13.0'	5	1000 00.111
20' O.C.	17.3'	2.88	
25' O.C.	21.65'	1.85	
30' O.C.	26.0'	1.29	
40' O.C.	34.6'	7.22	10,000 SQ. FT.

FOR USE WHEN PLANTS ARE SHOWN EQUIDISTANT FROM EACH OTHER (AS SHOWN) PLANT SPACING CHART

LOOSEN SUB GARDE BY DRAGGING TEETH OF THE BUCKET

— UNDISTURBED OR COMPACTED SOIL

THE 'H' AT MALLETTS BAY L2.0

03/03/2025

THE 'H' AT MALLETTS BAY L3.0

REVISIONS

DATE

Pitched Green Roof with Floraset® FS 75

WOOD LOWER RAILS: -1/2" x 1" RECTANGULAR TUBE OR STANDARD BAR STOCK VERTICAL RAILS — 1" x 1.5" RECTANGULAR TUBE STEEL (OR ONE TREAD -LENGTH) — VARIES, SEE PLAN —

6 STONE STEPS AND HANDRAIL - 48" WIDE L4.0 NTS

2 WASHED RIVER STONE L4.0

L4.0/

5 STONE SEAT WALL L4.0/

THE 'H' AT MALLETTS BAY L4.0

- 5. The boundary line locations shown are also subject to accuracy and legality or lack of authority of any grantor or grantee who professed the right or ability to convey, receive or condemn property or rights in the surveyed property.
- The location and depiction of boundary lines other than those of Hazelett Strip-Casting Corporation are not warranted and all boundary lines depicted are subject to the

- Vermont State Plane Grid North was determined from survey grade GPS readings taken at the time of the survey.
- 2. A closed traverse was completed in August 2024 using a Sokkia CX-103 total station
- 7. Sheets 4 and 5 of A Right-of-Way Plan set entitled "Town of Colchester, County of Chittenden, Proporsed Improvements, Bayside Roundabout, Project Number #58530" prepared by VHB and dated August 2022.

Notes:

1. This plan is not a boundary survey. Refer to Boundary Survey prepared by Krebs and Lansing Consulting Engineers, "Lands of Hazellet Strip—Casting Corporation, dated March 3, 2025.

2. The underground utilities shown on this plan are based on visible utilities located during a topographic survey performed by Krebs & Lansing in June 2017 and January 2025. Underground utilities are approximate and not warranted to be exact or complete. Dig Safe shall be contacted prior to any excavation.

3. The location of the Malletts Bay sanitary sewer and force main are taken from design plans prepared by Aldrich & Elliot Water Resource Engineers, entitled "West Lakeshore Drive Mainline Sewers Contract No.1A", dated Dec. 2023.

4. Elevations are based on the NAVD 88 (Geoid 12A) vertical datum. 5. Project Horizontal Coordinates derived from GPS observation using reference frame NAD83 (2011) 2010.00 epoch.

5. Aerial photography is based on information provided by the Vermont Center for Geographical Information, 2023 flight.

<u>Legend</u>

•	Iron pipe or rebar found
$-\frac{12}{12}$	Survey Control Point
<u>o</u>	Existing Sign
¢	Existing Light Pole
	Existing Deciduous Tree
	Existing Evergreen Tree
314.7 x	Existing Spot Grade Elevation
150	Existing 1ft Contour Interval
95.5	Existing 1ft Contour Interval
g	Existing Gas Line/Valve
	Existing Sewer Line/Manhole
fm	Existing Sewer Forcemain
	Existing Storm Line/Manhole/Basin
- ohp	Existing Overhead Electric Line/Power Pole
ohu	Existing Overhead Utility
comm	Existing Communications Line
ue&t	Existing Underground Electric & Telephone Line
lite	Existing Site Lite Line
000	Existing Guardrail
	Existing Tree Line
O	Existing Chain Link Fence
X	Existing Barbed Wire Fence
	- Existing Stockade Fence
ugp · · · -	Existing Underground Power
w	Existing Water Line/Hydrant/Valve/Shutoff
	Approximate Property Line
	Existing Setback
	Existing Easement
000000	Existing Rock Retaining Wall
GG	— New Gas Line/Valve
-s	- New Sewer Line/Manhole
FM	- New Sewer Forcemain
-st— — — — — — — — — — — — — — — — — — —	→ New Storm Line/Manhole/Basin
w	– New Water Line/Hydrant/Valve/Shutoff
UGP	— New Underground Power













GENERAL CONSTRUCTION NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DISTURBED AREAS BACK TO ORIGINAL CONDITION, INCLUDING BUT NOT LIMITED TO CURBING, SIDEWALKS, ROAD, PARKING AREAS, LANDSCAPING, SITE LIGHTING, ELECTRICAL, AND ETC. ALL ASPHALT SHALL BE SAW-CUT PRIOR TO PAVING.
- 2. THE METHODS AND MATERIALS OF CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS OF THE STATE OF VERMONT AND TOWN OF BOLTON, ALL WORK SHALL BE IN CONFORMANCE WITH ALL PERMITS AND APPROVALS ISSUED FOR THE PROJECT. IN CASE OF CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY AS DIRECTED BY ENGINEER. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER AND COMPLETED IN THE TIME SPECIFIED BY OWNER.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS SHOWN AND REQUIRED TO MAKE THE JOB COMPLETE. THESE DRAWINGS DO NOT SHOW EVERY FITTING OR APPURTENANCE. MATERIALS SHALL BE AS SPECIFIED ON THE DRAWINGS. MANUFACTURER'S PRODUCT SPECIFICATIONS SHALL BE SUBMITTED FOR ALL MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 4. THE LOCATION AND SIZE OF EXISTING UNDERGROUND UTILITIES IS NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES AND SHALL CONTACT THE AFFECTED UTILITY COMPANY, THE ENGINEER AND THE MUNICIPALITY PRIOR TO MAKING ANY HOOK UPS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXISTING UTILITIES AND THEIR UNINTERRUPTED SERVICES. ALL OFF-SITE BACKFILL, SHEETING, SHORING, DEWATERING, CLEARING AND GRUBBING, EROSION CONTROL, DUST CONTROL, TRAFFIC CONTROL, GRADING, AND ALL INCIDENTALS SHALL BE INCLUDED AS PART OF THE REQUIRED WORK.
- 5. THE CONTRACTOR SHALL VERIFY ALL TEMPORARY BENCH MARKS BEFORE USE.
- 6. THE WORKMEN AND PUBLIC SHALL BE PROTECTED BY THE CONTRACTOR FROM ANY AND ALL HAZARDS CONNECTED WITH THE CONSTRUCTION WORK. OPEN TRENCHES, MATERIALS, OR EQUIPMENT WITHIN THE WORKING LIMITS ARE TO BE GUARDED BY THE USE OF ADEQUATE BARRICADES OR FLAGMEN. ALL BARRICADES LEFT IN POSITION OVERNIGHT ARE TO BE PROPERLY LIGHTED. KEROSENE POTS ARE NOT ACCEPTABLE, WHEN WORK NARROWS THE USABLE PAVEMENT, FLAGMEN SHALL BE EMPLOYED TO AID THE FLOW OF TRAFFIC SO THAT THERE WILL BE NO UNDUE DELAYS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE SAFETY OF ALL WORKMEN, THE GENERAL PUBLIC AND ALL DAMAGES TO PROPERTY OCCURRING FROM OR UPON THE WORK OCCASIONED BY NEGLIGENCE OR OTHERWISE GROWING OUT OF A FAILURE ON THE PART OF THE CONTRACTOR TO PROTECT PERSONS OR PROPERTY FROM HAZARDS OF OPEN TRENCHES, MATERIALS, OR EQUIPMENT AT ANY TIME OF THE DAY OR NIGHT WITHIN THE WORKING AREA. ALL WORK SHALL BE IN CONFORMANCE TO OSHA REGULATIONS, TITLE 19, PARTS 1926.651 AND 1926.652, AND APPLICABLE TO VOSHA REGULATIONS.
- 7. THE CONTRACTOR SHALL VERIFY ALL UTILITY INTERSECTIONS AND CONTACT ENGINEER AND OWNER WITH CONFLICTS.
- 8. THE CONTRACTOR SHALL CALL, DIG SAFE PRIOR TO ANY EXCAVATION.
- 9. THE CONTRACTOR SHALL COORDINATE FINAL LOCATION AND INVERTS FOR WATER, SEWER, AND STORM BUILDING CONNECTIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, AND MECHANICAL ENGINEER.
- 10. ALL STUMPS, ROCK, AND OTHER NON-APPROVED TRENCH BACKFILL MATERIAL DISCOVERED DURING CONSTRUCTION IS THE EXCLUSIVE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF IN A STATE APPROVED DISPOSAL LOCATION. ALL EXISTING SOILS REUSED FOR FILL SHALL CONFORM TO ALL APPLICABLE SECTIONS OF VTRANS SPECIFICATIONS SECTION 203-EXCAVATION & EMBANKMENTS OR ENGINEER APPROVED EQUAL. CONTRACTOR SHALL REVIEW SOIL INVESTIGATION REPORT AND SOILS LOGS PRIOR TO BID. ANY SOIL REUSED AS FILL UNDER ROADS AND APPLICABLE CONCRETE SIDEWALKS SHALL PASS A SUBGRADE PROOF ROLL WITH A LOADED TANDEM. FILL SOILS THAT DO NOT PASS A SUBGRADE PROOF ROLL SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- 11. THE ABOVE NOTE (NOTE #10) DOES NOT INCLUDE TOPSOIL. CONTRACTOR SHALL REUSE THE TOPSOIL AS NEEDED FOR THE PROJECT'S CONSTRUCTION. ANY ADDITIONAL TOPSOIL IS THE PROPERTY OF THE PROJECT OWNER. IF NOT USED DURING CONSTRUCTION, THE CONTRACTOR SHALL DISCUSS ANY REMAINING TOPSOIL WITH THE PROPERTY OWNER. CONTRACTOR SHALL PLACE REMAINING TOPSOIL IN A LOCATION DETERMINED BY THE PROPERTY OWNER OR REMOVE IT FROM THE PROPERTY.
- 12. ALL PASSING SIEVE, PROCTOR, AND COMPACTION TESTING EXPENSES SHALL BE PAID BY THE CONTRACTOR. TESTING COORDINATION, ALL OTHER REQUIRED TESTING, AND EXPENSES FOR FAILED TESTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 13. THE CONTRACTOR SHALL CONTACT THE GREEN MOUNTAIN POWER (GMP) AND OR VERMONT ELECTRIC COOPPRIOR TO ANY WORK IN THE VICINITY OF THE EXISTING ELECTRIC CONDUITS.
- 14. THIS PROJECT WILL REQUIRE COVERAGE UNDER AN STATE OF VERMONT GENERAL CONSTRUCTION STORMWATER DISCHARGE PERMIT. THE CONTRACTOR WILL FOLLOW THE PERMIT AS WELL AS THE RULES, REGULATIONS, AND DIRECTION OUTLINED IN THE STATE OF VERMONT "LOW RISK HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL" FROM FEBRUARY 2020. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING, MAINTAINING AND REMOVING ALL EROSION AND SEDIMENT CONTROL DEVICES SHOWN ON THE PLANS OR DETAILS AND, TO THE MAXIMUM EXTENT PRACTICAL, TO MINIMIZE POTENTIAL CONTAMINATION OF STORMWATER RUNOFF FROM THE CONSTRUCTION ACTIVITIES.
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL "AS-BUILT" MEASUREMENT AND DRAFTING REQUIREMENTS AS OUTLINED ON THE DETAIL SHEETS. ALL TRENCH EXCAVATIONS SHALL REMAIN OPEN UNTIL ALL AS-BUILT SURVEY SHOTS HAVE BEEN TAKEN. PROGRESS RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AS INDICATED IN THE RECORD DRAWING SPECIFICATIONS.
- 16. SEE EROSION PREVENTION AND SEDIMENT CONTROL AND LOGISTICS PLANS FOR LOCATIONS OF STAGING / STORAGE AREAS.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SIGNAGE AND CONSTRUCTION BARRIER/SAFETY FENCING NECESSARY FOR PROVIDING SAFE VEHICULAR AND PEDESTRIAN ACCESS THROUGH OR AROUND THE SITE DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE THIS WITH THE TOWN OF BOLTON AND THE TOWN'S DEPARTMENT OF PUBLIC WORKS.
- 18. DEFINITION OF "PRECONSTRUCTION EXCAVATION" FOR THESE CONTRACT DOCUMENTS SHALL BE: THE SITE CONTRACTOR SHALL EXPOSE UTILITIES AND OBTAIN ALL NECESSARY INFORMATION, INCLUDING BUT NOT LIMITED TO, INVERT ELEVATION, SIZE, DEPTH, PIPE TYPE, JOINT LOCATION, ETC. CONTRACTOR SHALL TRANSIT SURVEY THE LOCATION AND ELEVATIONS OF THE UTILITY. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SKETCHES INDICATING HORIZONTAL AND VERTICAL INFORMATION OF PIPE OR CONDUIT TYPE AND SIZE. CROSS-SECTION INFORMATION, CONCRETE ENCASEMENT INFORMATION (TOP AND BOTTOM ELEVATIONS, WIDTH, ETC.), JOINT LOCATION, ETC. OF EACH REQUIRED EXISTING UNDERGROUND UTILITY. ACCURACY OF HORIZONTAL LOCATION IS WITHIN 1 FOOT, AND ACCURACY OF VERTICAL ELEVATION IS WITHIN 0.02 FT. (1/4"). COORDINATE ALL EXCAVATION WITH CITY, OWNER, AND ENGINEER. PRECONSTRUCTION EXCAVATIONS SHALL OCCUR PRIOR TO ORDERING STRUCTURES AND PRIOR TO UTILITY CONSTRUCTION TO FACILITATE REDESIGN AND/OR DESIGN CONFIRMATION.
- 19. THE LOCATION OF THE PRECONSTRUCTION EXCAVATION SYMBOLS DOES NOT NECESSARILY INDICATE THE LOCATION OF THE BURIED UTILITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIND AND EXPOSE THE UTILITY.
- 20. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF IMPORTING AND PLACING TOPSOIL AND/OR COMPOST NECESSARY TO COMPLETE THE PROJECT. CONTRACTOR SHALL TEST TOPSOIL FOR APPROVAL BY THE OWNER AND ENGINEER.
- 10. ALL SEWER AND STORM PIPES SHALL BE PVC SDR 35 UNLESS OTHERWISE NOTED. ALL NEW SANITARY AND STORM PIPES SHALL BE LAID WITH A LASER TO ELEVATION AND SLOPE AS SHOWN ON THE PLANS.
- 11. CORE AND BOOT ALL EXISTING STRUCTURES UNLESS OTHERWISE NOTED.
- 12. ALL NEW CATCH BASINS AND SANITARY SEWER MANHOLE MUST HAVE ONE 6" PRECAST CONCRETE GRADE RING.
- 13. ALL WATERLINE PIPE SHALL BE DUCTILE IRON CLASS 52 OR C900 PVC. ALL BENDS AND FITTINGS SHALL HAVE POURED IN PLACE THRUST BLOCKS, MIXED ONSITE CONCRETE IS NOT ALLOWED.
- 14. TEMPORARY GROUNDWATER, STORMWATER, AND SEWER BY-PASS PUMPING AND/OR DIVERSION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PUMPS AND EQUIPMENT TO PERFORM THE WORK. OVERNIGHT PUMPING IS NOT ALLOWED.
- 15. ALL SIDEWALKS SHALL HAVE 2% MAXIMUM CROSS SLOPE. ALL RAMPS AND STAIRS SHALL HAVE A LANDING AT THE BOTTOM WITH A MAXIMUM SLOPE OF 2% FOR 5 FEET.
- 16. CONTRACTOR TO PIN CONCRETE SIDEWALK/SLABS TO ALL CONTACT POINTS WITH STAIRS, BUILDING, BIKE SLAB, RETAINING WALLS, ETC.
- 17. CONTRACTOR SHALL MAINTAIN FULL OCCUPANCY AND FIRE DEPARTMENT ACCESS TO ALL SURROUNDING BUILDINGS. COORDINATE ALL TEMPORARY ACCESS WITH THE MUNICIPALITY.
- 18. BURIED NATURAL GAS IS SHOWN FOR ALIGNMENT PURPOSES ONLY. CONTACT VERMONT GAS SYSTEMS FOR DESIGN AND DETAILS OF NEW GAS LINE. SEE ADDITIONAL NOTES ON C-1.01 AND C-1.02.
- 19. REMOVAL OF ALL EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 20. AT THE END OF THE PROJECT, CLEAN THE SUMPS OF ALL NEW AND EXISTING CATCH BASINS AND STORM MANHOLES WITHIN THE PROJECT LIMITS.
- 21. ELECTRICAL AND LIGHTING ARE SHOWN FOR ILLUSTRATIVE/COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR DESIGN.
- 22. SEE LANDSCAPE AND/OR STRUCTURAL PLANS FOR ALL RETAINING WALLS, UTILITY PADS, STAIRS, AND EXTERIOR CONCRETE AT DOORS.
- 23. REFER TO PLUMBING, MECHANICAL AND/OR FIRE PROTECTION PLANS FOR WATER, SEWER AND STORM DESIGN WITHIN FIVE FEET OF THE BUILDING.

EPSC GENERAL NOTES:

OPERATOR:

- 8. WHERE FEASIBLE, ALL SEDIMENT REMOVED FROM SEDIMENT CONTROL PRACTICES AS PART OF MAINTENANCE SHALL BE DISPOSED OF IN AN AREA THAT IS AT LEAST ONE OF THE FOLLOWING, WITH IMMEDIATE STABILIZATION FOLLOWING DISPOSAL OF MATERIAL:
- A. LESS THAN 5±% SLOPE B. AT LEAST 100 FEET FROM ANY DOWNSLOPE WATER BODY OR CONVEYANCE TO A WATER BODY, INCLUDING A DITCH C. VEGETATED

ALL CONNECTIONS TO MUNICIPAL WATER UTILITIES INSTALLED ON THE PROJECT TO BE OBSERVED BY THE ENGINEER AND THE AUTHORIZED REPRESENTATIVE OF THE UTILITY; TOWN OF COLCHESTER AND COLCHESTER FIRE DISTRICT PRIOR TO BACKFILLING THE UTILITY BEING INSTALLED. THE ENGINEER SHALL BE NOTIFIED 48 HOURS BEFORE THE WORK IS PLANNED TO BEGIN. ALL DETAILS ARE SUBJECT TO THE MOST RECENT **REVISIONS OF THE COLCHESTER PUBLIC WORKS SPECIFICATIONS AND DETAILS FOR THE** INSTALLATION OF WATER LINES AND APPURTENANCES. PROJECT SHALL FOLLOW ALL DETAILS IN THIS PLAN SET, COLCHESTER DPW SPECIFICATIONS, AND THE COLCHESTER FIRE DISTRICT SPECIFICATIONS. THE MOST STRINGENT DETAILS WILL APPLY.

EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PRACTICES SHALL BE IMPLEMENTED IN ALL AREAS WHERE THERE IS AN INCREASED RISK OF EROSION, AND WHERE THERE IS POTENTIAL FOR DISCHARGE OF STORMWATER RUNOFF (EITHER DIRECT OR INDIRECT) TO A WATER BODY.

EPSC MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBING ACTIVITIES WITHIN A GIVEN DRAINAGE AREA WITH THE EXCEPTION OF LAND DISTURBANCE THAT MAY RESULT FROM ACCESSING THE AREA(S) WITH EQUIPMENT IN WHICH EPSC MEASURES ARE TO BE INSTALLED. THIS EXCEPTION INCLUDES LAND DISTURBANCE THAT MAY RESULT FROM ACCESS OF EQUIPMENT THAT IS NEEDED FOR: EXPLORATION AND/OR EPSC MEASURE INSTALLATION PHASES OF THE PROJECT. TEMPORARY SEDIMENT BASINS, TEMPORARY SEDIMENT TRAPS, PERIMETER DIKES, TEMPORARY SEDIMENT BARRIERS, AND OTHER TEMPORARY MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE WITH THE EXCEPTION OF THOSE ACTIVITIES STATED ABOVE. EARTH DISTURBANCE INCLUDES STUMPING AND GRUBBING OF CLEARED AREAS.

EPSC MEASURES SHALL BE INSTALLED PURSUANT TO THE EPSC PLAN. THE 2020 STATE OF VERMONT LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL, THE 2020 VERMONT EROSION PREVENTION AND SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS. AND/OR ANY OTHER RELEVANT PROJECT PERMITS.

ALL PROPOSED CHANGES SHALL BE APPROVED BY THE ON-SITE PLAN COORDINATOR (OSPC) OR HIS/HER DESIGNEE PRIOR TO IMPLEMENTATION.

5. LOGGING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ACCEPTABLE MANAGEMENT PRACTICES FOR MAINTAINING WATER QUALITY ON LOGGING JOBS IN VERMONT (AMPS, 2006).

PERMISSION MUST BE GRANTED BY VT DEC PRIOR TO USE OF ANY SUPPORT ACTIVITIES OCCURRING OUTSIDE OF THE APPROVED PROJECT BOUNDARIES.

ALL PARTIES ASSOCIATED WITH CONSTRUCTION ACTIVITIES WHO MEET EITHER OF THE FOLLOWING TWO CRITERIA OF "PRINCIPAL OPERATOR" MUST OBTAIN COVERAGE UNDER THE CONSTRUCTION STORMWATER DISCHARGE PERMIT FOR THE PROJECT PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES BY THAT

A. THE PARTY HAS OPERATIONAL CONTROL OVER CONSTRUCTION PLANS AND SPECIFICATION. INCLUDING BUT NOT LIMITED TO THE ABILITY TO MAKE MODIFICATIONS TO THOSE PLANS AND SPECIFICATIONS: OR B. THE PARTY HAS CONTINUOUS DAY-TO-DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT THE PROJECT THAT ARE NECESSARY TO ENSURE COMPLIANCE WITH AN EPSC PLAN FOR THE SITE OR OTHER PERMIT CONDITIONS (E.G., THEY ARE AUTHORIZED TO DIRECT WORKERS AT A SITE TO CARRY OUT ACTIVITIES REQUIRED BY THE EPSC PLAN OR COMPLY WITH OTHER PERMIT CONDITIONS).

8. EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED TO THE EXTENT PRACTICABLE.

9. A VEGETATED BUFFER SHALL BE MAINTAINED FOR WATER BODIES WHERE FEASIBLE (E.G., WETLANDS AND STREAMS).

10. TO THE EXTENT PRACTICABLE, SURFACE FLOW SHALL BE DIVERTED AWAY FROM EXPOSED SOILS VIA DIVERSION BERMS, EARTH DIKES, PERIMETER DIKES/SWALES, TEMPORARY SWALES, WATER BARS, AND/OR CHECK DAMS.

11. RESOURCE AREAS (E.G., WETLANDS, STREAMS, RTE PLANT SPECIES) SHALL BE FLAGGED PRIOR TO ANY CONSTRUCTION RELATED ACTIVITIES OCCURRING WITHIN CLOSE PROXIMITY TO THOSE AREAS.

12. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT VIOLATE WATER QUALITY STANDARDS OR CONTRIBUTE TO EROSION. DEWATERING DETAILS SHALL BE REVIEWED AND APPROVED BY OSPC PRIOR TO USE.

13. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN STEEP SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL (SEE DETAILS), FLUME, OR SLOPE DRAIN STRUCTURE.

14. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME. B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES, WHERE FEASIBLE, BUT NOT IN RESOURCE AREAS.

9. DISTURBED AREAS BORDERING OR DRAINING TO EXISTING ROADS SHALL HAVE AN APPROPRIATE SEDIMENT BARRIER (E.G., SILT FENCE) SPANNING THE EDGE OF THE DISTURBANCE TO PREVENT WASHING OF SEDIMENT ONTO ROADWAYS OR INTO ROAD DITCHES.

10. IN ADVANCE OF PREDICTED RAINFALL OR SNOWMELT, ALL EPSC MEASURES THAT ARE LOCATED IN ACTIVE AREAS OF EARTH DISTURBANCE SHALL BE INSPECTED AND REPAIRED, AS NEEDED. IF NECESSARY, THIS SHALL INCLUDE TEMPORARY STABILIZATION OF ALL DISTURBED SOILS ON THE SITE IN ADVANCE OF THE ANTICIPATED RUNOFF PERIOD.

11. DUST CONTROL SHALL BE HANDLED VIA WATER APPLICATION TO ROADWAYS AND OTHER AREAS WHERE DUST MAY BE GENERATED.

GENERAL GRADING AND SITE WORK NOTES

ALL AREA DISTURBED AND ALL AREAS WITHIN THE CLEARING LIMITS SHALL BE GRADED AND COVERED WITH A MINIMUM OF 4" OF LOAM TOPSOIL. THE AREAS TO BE LOAMED SHALL BE FREE AND CLEAR OF ROOTS, WASTE MATERIAL AND OTHER DELETERIOUS MATERIAL. TOPSOIL SHALL BE SPREAD AND LIGHTLY COMPACTED TO A DEPTH OF 6". TOPSOIL SHALL BE APPROVED BY THE ENGINEER. ALL SIDE SLOPES ARE TO BE LOAMED.

ALL TURF ESTABLISHMENT SHALL BE IN ACCORDANCE WITH SECTION 651 OF THE VT STANDARD SPECIFICATIONS 2018 AND THE MUNICIPALITY SPECIFICATIONS. MULCHING SHALL FOLLOW SEEDING BY NO MORE THAN 24 HOURS.

3. ALL CUT SLOPES SHALL BE NO STEEPER THAN 2.0H ON 1.0V. ALL FILL SLOPES SHALL BE NO STEEPER THAN 2.0H ON 1.0V.

4. THE CONTRACTOR SHALL NOT DISTURB ANY GROUND BETWEEN OCTOBER 15TH BETWEEN APRIL 15TH WINTER MONTHS. UNLESS APPROVED BY THE ENGINEER.

TEMPORARY SILT FENCE SHALL BE ERECTED PRIOR TO ANY CLEARING OR CONSTRUCTION. FENCING MAY BE ERECTED IN PHASES, BUT IN NO CASE SHALL GROUND DISTURBANCE PROCEED FENCING. SPECIAL AREAS MAY BE DESIGNATED BY THE OWNER FOR PRESERVATION OF EXISTING TREES. THESE AREAS SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE NO DAMAGE IS DONE TO DESIGNATED TREES.

6. EXISTING PLANTINGS ARE LOCATED IN GENERAL AREAS AS SHOWN ON THIS PLAN. CONTRACTOR SHALL PROTECT PLANTINGS SO AS NOT TO DAMAGE THESE OR THEIR ROOT SYSTEMS.

SLOPE STABILITY BASED UPON UNSATURATED SOIL CONDITIONS. IF DURING CONSTRUCTION SATURATED SOILS ARE ENCOUNTERED, CONTACT THE ENGINEER IMMEDIATELY.

WATER & SEWER CONSTRUCTION NOTES

- 1. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONSTR PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL I PROPOSED UNITS. THE CONTRACTOR SHALL BE RESPONSIE SPECIFICATIONS AND PERMITS. THE CONTRACTOR SHALL S USED.
- 2. THE CONTRACTOR SHALL COORDINATE ALL WORK ON THE WORKS, BOLTON VALLEY COMMUNITY WATER & SEWER (CW DISTRIBUTION MATERIALS MUST COMPLY WITH THE CURREN
- 3. THESE PLANS ARE NOT RESPONSIBLE FOR DESIGN OF WAT SHALL BE RESPONSIBLE FOR EXTENDING THE SERVICES TO PLUMBING ENGINEER. MECHANICAL ENGINEER AND/OR FIRE BUILDING.
- 4. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS A INCLUDES TEMPORARY FITTINGS AND GAUGES NECESSARY CONNECTIONS WITH BUILDING PLUMBING.
- 5. THE PROJECT SHALL BE CONSTRUCTED, COMPLETED, MAIN SHALL BE MADE IN THE PROJECT WITH OUT THE WRITTEN A APPROVED PLANS SHALL BE SUBMITTED TO CWD AND THE
- 6. THE TOWN AND CWD SHALL BE NOTIFIED IN ADVANCE TO IN BLOCKS, WATER LINE CROSSINGS, AND TESTING PRIOR TO
- ALL DOMESTIC SERVICES AND FIRE SPRINKLER SYSTEMS T BACKFLOW PREVENTION ASSEMBLY, AND AN APPROPRIATE APPROVED BACKFLOW PREVENTION WITH THE TOWN AND

WATER MAINS

- 1. APPLIES TO NEW DOMESTIC WATER MAINS AND SERVICES.
- 2. THE PIPE FOR WATER MAIN SHALL BE CL52 DUCTILE IRON. CONFORM TO AWWA C110, 350 POUNDS WORKING PRESSUF SPECIFICATION C509 OR C515. FOUR-INCH AND SIX-INCH PI EIGHT-INCH AND 10" PIPE SHALL HAVE NO LESS THAN 3 WED
- 3. ALL PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AWW. INSTALLATION. WHEN THE PROCESS OF PIPE LAYING HAS S OF 6'-0" COVER OVER ALL PIPE AND SERVICE LINES. ANY PI MANUFACTURER'S MAXIMUM DEFLECTION. BACKFILL MATER CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL S REGULATIONS.
- 4. THE TESTING OF THE WATER MAIN SHALL CONSIST OF THE AWWA C600. THE TESTING SHALL CONSIST OF A PRESSURE THE PRESENCE OF THE ENGINEER, REPRESENTATIVES FRO CONSISTS OF MAINTAINING A MINIMUM INTERNAL PIPE PRES AS THE MAXIMUM QUANTITY OF MAKEUP WATER THAT IS AD VALVED SECTION THEREOF. IN ORDER TO MAINTAIN PRESS BEEN FILLED WITH WATER AND THE AIR HAS BEEN EXPELLE GREATER THAN THAT DETERMINED BY THE FOLLOWING FOR

L = SD√P 148,000

L = TESTING ALLOWANCE (MAKEU S = LENGTH OF PIPE TESTED, IN F D = NOMINAL PIPE DIAMETER, IN IN P = AVERAGE TEST PRESSURE DU

- 5. CHLORINATING OF THE SYSTEM SHALL BE ACCOMPLISHED THOROUGHLY FLUSHED. DISINFECTING SHALL BE IN ACCOR ACCEPTABLE ONLY AFTER TWO CONSECUTIVE SETS OF ACC APART, SHOWS NO EVIDENCE OF BACTERIOLOGICAL CONT CONCENTRATION FOR 24 HOURS. THE CONCENTRATION MU DECHLORINATION SHALL BE REQUIRED WHILE FLUSHING TH MUNICIPALITY AND THE MUNICIPALITY PUBLIC WORKS REGA NEW WATERLINE.
- 6. THE WATER MAIN SHALL BE THOROUGHLY FLUSHED WITH A VALVES AND HYDRANTS. AT LEAST 48 HOURS PRIOR TO WA FIRE DEPARTMENT. THE DISTRICT WATER SUPPLY COMPAN

SANITARY SEWER

- ALL SEWER LINES AND MANHOLES SHALL BE THOROUGHLY PROTECTION RULES (11/06/2023).
- 2. ALL SANITARY MANHOLES SHALL BE VACUUM TESTED IN TH BACKFILL WITH THE LOWEST SEAM EXPOSED. TEST PROCE AGENCY AND THE ENGINEER. FAILURE OF ANY VACUUM TE RETEST. WATER TESTING MANHOLES IS NOT ACCEPTABLE.
- 3. ALL SANITARY MAINS SHALL BE AIR TESTED IN THE PRESEN SQUARE INCH AT THE HIGHEST POINT ALONG THE TEST FOR
- 4. UTILITY TESTING. THE CONTRACTOR SHALL BE RESPONSIBI TEST. BASED ON AVAILABILITY OF ENGINEER'S STAFF, THE CONTRACTOR REQUESTED TEST DATE/TIME.
- 5. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENG CANCELED. IF CONTRACTOR DOES NOT CONTACT ENGINEE ENGINEER'S FEES/MILEAGE FOR SITE VISIT.

ADDITIONAL NOTES AND TESTING REQUIREMENTS

- 1. IN ADDITION TO THE ABOVE REQUIREMENTS AND APPLIES T
- 2. ALL WATER LINES AND SEWER LINES SHALL BE THOROUGHI PROTECTION RULES (11/06/2023) AND THE CHAPTER 21 WAT
- 3. ALL PRIVATE OR MUNICIPAL WATERLINES SHALL BE TESTED C600 AND/OR NFPA 24.
- 4. NO WATER MAIN SHALL BE CLOSER THAN TEN (10) FEET TO A BASIN OR STORM SEWER LINE. PROVIDE MINIMUM OF 18" VI CROSSING.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUC SHALL BE RECORDED IN ACCORDANCE WITH THE OUTLINED
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTIN PORTION OF THE EXTERIOR WATER OR SANITARY SYSTEMS WATER AND SANITARY SYSTEMS.
- 7. UTILITY TESTING. THE CONTRACTOR SHALL BE RESPONSIBL MUNICIPALITY PUBLIC WORKS, AT A MINIMUM OF 24 HOURS SHALL ACCOMMODATE THE TESTING SCHEDULE WITHIN 24 I
- 8. THE CONTRACTOR SHALL PRE-TEST WATER FOR 2 HOURS.
- 9. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENG CANCELED. IF CONTRACTOR DOES NOT CONTACT ENGINEE ENGINEER'S FEES/MILEAGE FOR SITE VISIT.
- 10. THE CONTRACTOR SHALL COORDINATE WATER/SEWER CON BLOCKS AND OTHER REQUIRED SECTIONS OF NEW LINE EXE

RUCTION OF WATER MAIN, STORM AND SANITARY SEWER SYSTEMS AS SHOWN ON THE NECESSARY ADAPTERS, FITTINGS, ETC. TO MAKE CONNECTIONS TO THE EXISTING AND BLE FOR ALL WORK SHOWN OR IMPLIED ON THE PLANS AND/OR REFERENCED IN THE SUBMIT, FOR APPROVAL BY THE ENGINEER, ALL TYPES OF MATERIALS AND PRODUCTS	
WATER SUPPLY SYSTEM WITH THE OWNER, THE TOWN OF BOLTON, BOLTON PUBLIC ND), AND THE CIVIL ENGINEER. ALL WATER INSTALLATION WORK AND WATER INT BOLTON PUBLIC WORK SPECIFICATIONS.	HAZELETT
TER AND SEWER SERVICES WITHIN 5 FEET OF THE BUILDING. THE SITE CONTRACTOR O THE PLUMBING AND/OR FIRE SYSTEM CONNECTION WITHIN THE BUILDING. SEE E PROTECTION PLANS FOR SCOPE, DESIGN AND SPECIFICATIONS WITHIN 5 FT. OF THE	STRIP-CASTING CORPORATION
ND APPURTENANCES TO COMPLETE THE WATERLINE CONSTRUCTION WORK. THIS Y TO SAFELY COMPLETE THE FLUSHING ACTIVITIES REQUIRED PRIOR TO MAKING	COLCHESTER, VT
NTAINED, AND OPERATED IN ACCORDANCE WITH THE APPROVED PLANS. NO CHANGES APPROVAL OF THE TOWN, CWD, AND THE CIVIL ENGINEER. A COPY OF THE FINAL TOWN PRIOR TO CONSTRUCTION OF THE WATER SYSTEM IMPROVEMENTS.	
NSPECT ALL MECHANICAL JOINTS FITTINGS, MAIN LINE TAPS, APPURTENANCES, THRUST OCCURRENCE OR BACKFILLING.	
THAT ARE CONNECTED TO THE PUBLIC WATER SYSTEM SHALL BE PROTECTED WITH A E THERMAL EXPANSION SYSTEM. THE MECHANICAL CONTRACTOR SHALL COORDINATE CWD.	KREBS & LANSING CONSULTING ENGINEERS164 Main Street, Suite 201 Colchester, Vermont 05446P: (802) 878-0375 www.krebsandlansing.com
ALL D.I. PIPE SHALL BE POLYETHYLENE ENCASED. DUCTILE IRON FITTINGS SHALL RE. VALVES SHALL BE MANUFACTURED TO MEET ALL REQUIREMENTS OF AWWA IPE SHALL HAVE NO LESS THAN 2 BRASS WEDGES INSTALLED AT EACH JOINT. DGES INSTALLED AT EACH JOINT.	STAMP:
A C600. THE PIPE SHALL BE KEPT FREE OF FOREIGN MATTER AND DEBRIS DURING STOPPED, ANY OPEN ENDS OF PIPE SHALL BE PLUGGED. THERE SHALL BE A MINIMUM IPE DEFLECTION SHALL NOT EXCEED FIFTY (50%) PERCENT OF RECOMMENDED RIALS AND PROCEDURES SHALL BE AS DETAILED ON THE DRAWINGS. THE SHEETING AND/OR SHORING NECESSARY TO COMPLY WITH OSHA - VOSHA	
TESTING OF ALL INSTALLED PIPE, SERVICES AND HYDRANTS IN ACCORDANCE WITH E TEST AND LEAKAGE TEST. ALL TESTING SHALL BE DONE WITH POTABLE WATER AND IN OM THE MUNICIPALITY AND THE MUNICIPALITY PUBLIC WORKS. THE PRESSURE TEST ISSURE OF 200 PSI FOR TWO (2) HOURS. THE TESTING ALLOWANCE SHALL BE DEFINED DDED INTO A PIPELINE UNDERGOING HYDROSTATIC PRESSURE TESTING, OR ANY SURE WITHIN +/- 5 PSI OF THE SPECIFIED TEST PRESSURE (AFTER THE PIPELINE HAS ED). NO PIPE INSTALLATION WILL BE ACCEPTED IF THE QUANTITY OF MAKEUP WATER IS IRMULA:	
IP WATER), IN GALLONS PER HOUR EET NCHES JRING THE HYDROSTATIC TEST, IN POUNDS PER SQUARE INCH (GAUGE)	
AFTER THE WATER MAIN HAS BEEN SUCCESSFULLY PRESSURE TESTED AND RDANCE WITH AWWA C-651. THE DISINFECTING PROCESS SHALL BE DEEMED CCEPTABLE SAMPLES, TAKEN FROM THE FLUSHED AND DISINFECTED MAIN 24 HOURS AMINATION. FOR PROPER DISINFECTION USE MINIMUM 25 MG/L CHLORINE JST REMAIN ABOVE 10 MG/L. TABLET DISINFECTING IS NOT ACCEPTABLE. HE ORIGINAL CHLORINE FROM THE NEW LINE. COORDINATE WITH THE THE ARDING THE THE DISPOSAL OF THE HIGHLY CHLORINATED WATER FLUSHED FROM THE	
A MINIMUM FLOW VELOCITY OF 2.5 FT/S TO FLUSH FOREIGN MATERIALS OUT OF THE ATERLINE FLUSHING, THE CONTRACTOR SHALL CONTACT THE OWNER, MUNICIPALITY IY, AND THE ENGINEER.	
TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE ENVIRONMENTAL	Project: THE 'H'
HE PRESENCE OF THE ENGINEER. THE STRUCTURE SHALL BE TESTED PRIOR TO EDURES AND PRESSURE SHALL BE DETERMINED JOINTLY BY THE LOCAL APPROVAL EST SHALL NECESSITATE REPAIR AND/OR REPLACEMENT OF THE STRUCTURE AND	AT
NCE OF THE ENGINEER. AT A MINIMUM, THE TEST PRESSURE SHALL BE 4 POUNDS PER A MINITIES	MALLEIISBAY
BLE FOR SCHEDULING SANITARY TESTING AT A MINIMUM OF 24 HOURS PRIOR TO THE ENGINEER SHALL ACCOMMODATE THE TESTING SCHEDULE WITHIN 24 HOURS OF THE	180 & 166 W. Lakeshore Drive Colchester, Vermont
GINEER IF PRE-SCHEDULED TESTING AND/OR WATER/SEWER CONSTRUCTION IS ER AND ENGINEER VISITS THE SITE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR	Project No. 23314 Scale N.T.S. Drawn by SWH
TO WATER AND SANITARY SEWER.	Date
ILY TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE ENVIRONMENTAL FER SUPPLY RULES (03/17/2020) (THE MORE STRINGENT RULE SHALL APPLY). D BY THE CONTRACTOR IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN AWWA	Revisions No. Date Description
ANY SANITARY SEWER OR SANITARY MANHOLE AND FIVE (5) FEET TO ANY CATCH /ERTICAL SEPARATION BETWEEN WATER MAIN AND STORM/SANITARY SEWER	
CTION AS-BUILTS TO SERVICE LOCATIONS, AND ANY WATER MAIN FITTINGS. AS-BUILTS D PROCEDURES.	
ING ENGINEER AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION ON ANY S. THIS NOTIFICATION REQUIREMENT SHALL CONTINUE TO THE COMPLETION OF THE	
LE FOR SCHEDULING WATER AND SANITARY TESTING, WITH THE ENGINEER AND PRIOR TO THE TEST. BASED ON AVAILABILITY OF ENGINEER'S STAFF, THE ENGINEER HOURS OF THE CONTRACTOR REQUESTED TEST DATE/TIME.	GIVIL DETAILS
THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF PRE-TEST FAILED.	Drawing No
ER AND ENGINEER VISITS THE SITE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR	
NSTRUCTION WITH THE MUNICIPALITY. THE CONTRACTOR SHALL LEAVE THRUST POSED UNTIL MUNICIPALITY HAS INSPECTED AND APPROVED IT.	CD-1





	MATCH EXISTING ADJACENT MATERIAL (GRASS, GRAVEL, MATCH EXISTING ADJACENT MATERIAL (GRASS, GRAVEL, MATERIAL (GRASS, GRAVEL, (GRASS, GRAVEL,
RDINATION OF COMPACTION IN THE	EXTEND FULL DEPTH - BITUMINOUS CONCRETE / CO
PECIFICATIONS (2018) 703.03, TABLE E VERMONT HIGHWAY 03.04A.	OF SUBBASE 18" (MIN.) BEYOND EDGE OF PAVEMENT.
O VERMONT HIGHWAY E.	12" OF OWNER SUPPLIED PROCESSED GLASS AGGREGATE SHALL BE PLACED AND COMPACTED IN SHALL BE PLACED AND COMPACTED IN SHALL BE PLACED AND COMPACTED IN SHALL BE PLACED AND COMPACTED IN SUBBASE ARE NOT ALLOWED.
GHWAY SPECIFICATIONS (2018) 704.05, O SECTION 704.12, AGGREGATE FOR	(PGA). PER OWNER SPECIFICATIONS, THE PGA IS THE DEFENDED MATERIAL
TO VERMONT HIGHWAY COURSE SHALL BE TYPE II, AND SE COURSE PAVING TO BE PLACED	PREFERRED MATERIAL. 12" OF OWNER SUPPLIED PROCESSED IF PGA IS NOT AVAILABLE, AVAILABLE, APPROVED EQUAL. CONTRACTOR MAY OVERLAP MINIMUM OF PREFERRED MATERIAL. IF PGA IS NOT
A SIEVE SPECIFICATION AS FOLLOWS:	ALL EAGL2'. LAY FLAT AGAINSTAVAILABLE, CONTRACTOR MAY REPLACEGRADED CRUSHEDSUBGRADE. (NO FOLDSWITH DENSE GRADED CRUSHED STONESTONE SIMILAR TO THE LAYER ABOVE.OR WRINKLES)SIMILAR TO THE LAYER ABOVE.
THE SITE SOIL AND REPLACE IT WITH AN BE PLACED WITHOUT FAILING. E, THIS WILL BE PERFORMED WITHOUT	THE CONTRACTOR SHALL PREPARE THE SUBGRADE IN CONFORMANCE WITH THE DESIGN GRADES THEN, IN THE PRESENCE OF THE ENGINEER, SHALL PROOF ROLL THE SUBGRADE WITH A LOADED TANDEM DUMP TRUCK. CONDITIONS MAY REQUIRE THE REMOVAL OF UNSUITABLE MATERIAL AND PLACEMENT OF ADDITIONAL SUBBASE. THE OWNER MUST APPROVE ANY WORK INVOLVED WITH THE REMOVAL OF UNSUITABLE MATERIAL AND PLACEMENT OF ADDITIONAL SUBBASE.
WN RIGHT OF WAY (R.O.W.), ALL BE NOTIFY THE TOWN 48 E WORK IS PLANNED TO BEGIN. JBJECT TO THE MOST RECENT TOWN OF COLCHESTER DPW SPECIFICATIONS. THE MOST DETAILS WILL APPLY.	GRAVEL NOTESNOTES FOR CONCRETE CURB1. THE CONTRACTOR TO TAKE SIEVE ANALYSIS OF GRAVEL AS SOON IT ARRIVES ON SITE.1. BROOM FINISH CONCRETE, ALL JOINTS TO BE TOOL FINISHED, EXPANSION/CONTRACTION JOINTS EVERY 20' WITH 1/2" JOINT FILLER, SCORE 1/3 TOTAL DEPTH AT 10' INTERVALSCONCRETE USED IN THE CON CONCRETE SHALL BE A MADE WITH PORTLAND CEME CONCRETE SHALL BE A MADE WITH PORTLAND CEME SCORE 1/3 TOTAL DEPTH AT 10' INTERVALS3. IF GRAVEL IS CONTAMINATED AFTER PLACEMENT, THE SITE CONTRACTOR SHALL BE RESPONSIBLE REMOVAL OF ALL CONTAMINATED GRAVEL AND PAYING FOR ALL RECOMMENDED SIEVE ANALYSIS AS DETERMINED BY THE ENGINEER.2. APPLY 2 COATS OF SPECCHEM CURESHIELD CURE/SEAL COMPOUND TO ALL CONCRETE SURFACES, PER THE MANUFACTURER'S SPECIFICATIONS.CONCRETE WAS NOT BE POURED IF FROST IS PRESENT OR THAWING IN THE SUBGRADE, IF THE TEMPERATURE IS 40° F OR LESS, OR DURING UNSEASONABLE WEATHER CONDITIONS.5. JOINT FILLER SHALL BE RESIDN.4. CONCRETE CURB RADII LESS THAN 200 FT SHALL BE FORMED WITH FLEXIBLE FORMS. ALL6. THE ENGINEER SHALL BE CO 24 HOURS PRIOR TO FORMIN TO REVIEW LAYOUT.
	TYPICAL ROAD CROSS SEC WITH CONCRETE CURBS AND NT.S.
	er or OF NOTES 1. TYPICAL 2. SWALE 3. APPLY SU 4. CROSS-5. OVER-EX COMPAC 5. ALLEAR SPREAD THATTI 1. EXCAVA
	NOTES NOTES 12" (MIN.) 12"



SANITARY MAINS NOTES

- 1. THE PIPE AND FITTINGS FOR SANITARY SEWER SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATION D3034 FOR 4" - 15" SDR 35 AND F679 FOR 18" - 27". ALL PIPE SHALL BE LAID TO THE LINE AND GRADE SHOWN ON THE PLANS.
- 2. THE PIPE FOR GRAVITY SANITARY SEWER SHALL BE AS SHOWN ON THE PLANS AND DETAILED BELOW:
 - ALL PIPE SHALL BE LAID TO THE LINE AND GRADE AS SHOWN ON THE PLANS.
 - PVC SDR 35 POLYVINYL CHLORIDE PIPE PIPE SHALL CONFORM TO ASTM SPECIFICATION D-3034 OR F679, (PVC) SEWER PIPE AND FITTINGS, SDR35. PIPE WITH RECYCLED CONTENT IS NOT ACCEPTABLE.
- 3. PVC SDR 35 SANITARY AND STORM PIPES SHALL BE INSTALLED SO THAT THE INITIAL DEFLECTION SHALL BE LESS THAN 5%.
- 4. PVC SDR 35 PIPE SHALL NOT BE INSTALLED WHEN THE TEMPERATURE DROPS BELOW 32° F OR GOES ABOVE 100° F UNLESS PRIOR APPROVAL IS OBTAINED FROM THE ENGINEER. EXTRA CARE IS REQUIRED WHEN HANDLING PVC PIPE DURING COLD WEATHER. PVC PIPE SHALL NOT BE STORED OUTSIDE AND EXPOSED TO PROLONGED PERIODS OF SUNLIGHT AS PIPE DISCOLORATION AND REDUCTION IN PIPE IMPACT STRENGTH WILL OCCUR. IF PVC PIPE IS TO BE STORED ON SITE FOR 1 MONTH OR LONGER IT SHALL BE COVERED WITH CANVAS OR OTHER OPAQUE MATERIAL.
- 5. THE INSTALLED GRAVITY SANITARY SEWER PIPE SHALL BE LOW PRESSURE AIR TESTED IN THE PRESENCE OF THE ENGINEER. AFTER CLEANING THE PIPE, THE PIPE SECTION (MANHOLE TO MANHOLE) SHALL BE TESTED ACCORDING TO THE PROCEDURES OUTLINED IN THE STATE OF VERMONT WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES, EFFECTIVE APRIL 12, 2019.

FORCE MAIN PRESSURE & LEAKAGE TEST

UPON COMPLETION OF CONSTRUCTION OF A FORCE MAIN, THE LINE SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE.

PRESSURE TEST:

AFTER THE PIPE HAS BEEN LAID, ALL NEWLY LAID PIPE OR ANY VALVED SECTION THEREOF SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE OF AT LEAST 1.5 X THE HIGHEST WORKING PRESSURE IN THE SECTION. TEST PRESSURE RESTRICTIONS. TEST PRESSURE SHALL:

- 1. NOT BE LESS THAN 50 PSI AT THE HIGHEST POINT ALONG THE TEST SECTION.
- 2. NOT EXCEED PIPE OR THRUST RESTRAINT DESIGN PRESSURES.
- 3. BE AT LEAST 2 HOURS IN DURATION.
- 4. NOT VARY BY MORE THAT 5 PSI

5. NOT EXCEED TWICE THE RATED PRESSURE OF THE VALVES WHEN PRESSURE BOUNDARY OF THE TEST SECTION INCLUDES CLOSED GATE VALVES. PRESSURIZATION. EACH VALVED SECTION OF PIPE SHALL BE FILLED WITH WATER SLOWLY AND THE SPECIFIED

TEST PRESSURE, BASED ON THE ELEVATION OF THE LOWEST POINT OF THE LINE OR SECTION UNDER TEST AND CORRECTED TO THE ELEVATION OF THE TEST GAUGE, SHALL BE APPLIED BY MEANS OF A PUMP CONNECTED TO THE PIPE. AIR REMOVAL. BEFORE APPLYING THE SPECIFIED TEST PRESSURE, AIR SHALL BE EXPELLED COMPLETELY FROM

THE PIPE AND VALVES. EXAMINATION. ALL EXPOSED PIPE, FITTINGS, VALVES, AND JOINTS SHALL BE EXAMINED CAREFULLY DURING THE TEST. ANY DAMAGED OR DEFECTIVE PIPE, FITTINGS, OR VALVES, THAT ARE DISCOVERED FOLLOWING THE

PRESSURE TEST SHALL BE REPAIRED OR REPLACED WITH SOUND MATERIAL AND THE TEST SHALL BE REPEATED. LEAKAGE TEST

A LEAKAGE TEST SHALL BE CONDUCTED CONCURRENTLY WITH THE PRESSURE TEST.

LEAKAGE DEFINED. LEAKAGE SHALL BE DEFINED AS THE QUANTITY OF WATER THAT MUST BE SUPPLIED INTO THE NEWLY LAID PIPE, OR ANY VALVED SECTION THEREOF, TO MAINTAIN PRESSURE WITHIN 5 PSI OF THE SPECIFIED TEST PRESSURE AFTER THE AIR IN THE PIPELINE HAS BEEN EXPELLED AND THE PIPE HAS BEEN FILLED WITH WATER.

ALLOWABLE LEAKAGE. NO PIPE INSTALLATION WILL BE ACCEPTED IF LEAKAGE IS GREATER THAN THAT DETERMINED BY THE FOLLOWING FORMULA: $L = \frac{N^*D\sqrt{P}}{P}$

7400

L IS THE ALLOWABLE LEAKAGE, IN GALLONS PER HOUR; N IS THE NUMBER OF JOINTS IN THE LENGTH OF PIPELINE TESTED; D IS THE NOMINAL DIAMETER OF THE PIPE, IN INCHES; AND P IS THE AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST, IN POUNDS PER SQUARE INCH GAGE.

SECTIONS WHICH FAIL THE PRESSURE/LEAKAGE TEST SHALL BE REPAIRED AND RETESTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

1.	ALL SEWER LINES (MAI THE CONTRACTOR IN A
n	

2. ALL GRAVITY SANITARY MAINS SHALL BE AIR TESTED IN THE PRESENCE OF THE ENGINEER. AT A MINIMUM, THE TEST PRESSURE SHALL BE 4 POUNDS PER SQUARE INCH AT THE HIGHEST POINT ALONG THE TEST FOR 4 MINUTES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE ENGINEER AND THE LOCAL MUNICIPALITY PUBLIC WORKS DEPARTMENT AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION ON ANY PORTION OF THE PUBLIC CONNECTIONS TO WATER OR SANITARY SYSTEMS. THIS NOTIFICATION REQUIREMENT SHALL CONTINUE TO THE COMPLETION OF THE SANITARY SYSTEMS.

4. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER IF PRE-SCHEDULED TESTING AND/OR SEWER CONSTRUCTION IS CANCELED. IF CONTRACTOR DOES NOT CONTACT ENGINEER AND ENGINEER VISITS THE SITE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEER'S FEES/MILEAGE FOR SITE VISIT.

MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN WATER MAIN AND STORM/SANITARY SEWER CROSSING.

6. UTILITY TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING SANITARY TESTING AT A MINIMUM OF 24 HOURS PRIOR TO THE TEST. BASED ON AVAILABILITY OF ENGINEER'S STAFF, THE ENGINEER SHALL ACCOMMODATE THE TESTING SCHEDULE WITHIN 24 HOURS OF THE CONTRACTOR REQUESTED TEST DATE/TIME.

7. THE CONTRACTOR SHALL PRE-TEST UTILITY PRIOR TO CONTACTING THE ENGINEER. THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF PRE-TEST FAILED.

EXISTING ALLOCATION = 4,482 GALLONS/DAY (GPD) (PER WW-C0671 FOR A 166 SEAT RESTAURANT SERVING 2 MEALS/DAY))

PROPOSED PROJECT DINING

MEETING SPACE

SPA

• 8 PARTICIPANTS X 4 GPD = 32 GPD GUEST ROOMS

MAIN BUILDING

COTTAGES

		I		◄ D+2'
THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH OSHA - VOSHA REGULATIONS.	PAVING TO MATCH EXISTII PAVED OR TRAVELED UNPAVED AREA	NG MOUND SLIGHTLY	THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH OSHA - VOSHA REGULATIONS.	PAVING TO MATCH EXISTII PAVED OR TRAVELED UNPAVED AREA
BACKFILL MATERIAL SHALL CONTAIN NO STONES GREATER THAN 3" IN DIAMETER, NO ROZEN LUMPS, CLAY OR ORGANIC MATERIAL. PLACE IN 12" LIFTS AND COMPACT AS INDICATED.	95% 90% standard proctor proctor	MUM COVER FOR WATER LINES	BACKFILL MATERIAL SHALL CONTAIN NO STONES GREATER THAN 3" IN DIAMETER, NO FROZEN LUMPS, CLAY OR ORGANIC MATERIAL. PLACE IN 12" LIFTS AND COMPACT AS INDICATED.	95% 90% standard standard proctor proctor
JSE ONSITE SAND ABOVE THE CENTERLINE OF THE PIPE (USE STONE IN ANY AREAS WHERE COARSE BACKFILL MATERIAL COULD DAMAGE PIPE). FOR FORCEMAIN PIPES USE ONSITE SAND CENTERLINE OF PIPE.		PROVIDE 2" RIGID INSULATION OVER FORCE MAINS AND SERVICES WHEN	USE SAND FILL OR ¹ / ₄ " TO ³ / ₄ " CRUSHED STONE AS ORDERED BY ENGINEER ABOVE THE CENTERLINE OF THE PIPE (USE STONE IN ANY AREAS WHERE COARSE BACKFILL MATERIAL COULD DAMAGE PIPE).	
DE-BEED ALL INTERIOR FUSION WELD JOINTS		THEY ARE BURIED UNDER PAVED OR TRAVELED AREAS.	FOR STORM PIPES USE $\frac{1}{4}$ " TO $\frac{3}{4}$ " CRUSHED STONE BELOW CENTERLINE OF PIPE.	UNDISTURBED EARTH SUBBASE
FORCE MAIN		OR APPROVED EQUAL)	SANITARY TRE	ENCH DETAIL
N	I.T.S.		N.T.	.S.

SANITARY TESTING AND CONTRACTOR COORDINATION REQUIREMENTS

AIN LINES AND SERVICES) AND MANHOLES SHALL BE THOROUGHLY TESTED BY ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION RULES (09/29/07).



WASTEWATER BASIS OF DESIGN

• 48 SEATS X 27 GPD (2 MEALS/DAY) = 1296 GPD

• 60 PARTICIPANTS X 4 GPD/PARTICIPANT = 240 GPD

• 1 MASSAGE THERAPIST X 32 GPD = 32 GPD

STAFF MANAGER/OWNER BEDROOM = 140 GPD

46 TOTAL SLEEPING SPACES X 50 GPD = 2300 GPD

 FUTURE PHASE BUILDING 6 SLEEPING SPACES X 50 GPD = 300 GPD

TOTAL PROPOSED DESIGN FLOW = 4,340 GPD





TYPES AND SIZES. SEE NOTE ABOVE ABOUT REPLACEMENT PIPES







WATER MAINS AND





3. A CONTINUOUS LOG OF INSPECTIONS AND OBSERVATIONS SHALL BE KEPT. THE LOG SHALL NOTE ALL CLEANING AND OTHER REQUIRED MAINTENANCE.

ABLE	MOUNT CONTROLS ON A PANEL OF PRESSURE TREATED DECKING BOARDS SUPPORTED BY TWO 4"X4" PT POSTS BURIED 48" BELOW GRADE (MIN.) COORDINATE EXACT LOCATION WITH OWNER AND ENGINEER. CONTRACTOR SHALL PROVIDE AND INSTALL PEDESTAL, CONTROL PANEL AND DISCONNECT. ALTERNATELY, SYSTEM MAY BE INSTALLED INSIDE THE BUILDING. SEE ELECTRICAL DESIGN ALL TRENCHING AND BACKFILLING MINIMUM 2" ELECTRICAL GRADE SCHEDULE 40 PVC (TYPICAL) EXPANSION COUPLING MINIMUM 6" ABOVE GROUND 40" MIN. 40" MIN. PPERCLAD OUND ROD TX 8' MOUNT CONTROL PANEL AND DISCONNECT. ALTERNCHING AND BACKFILLING MUST BE PROVIDED BY THE CONTRACTOR. THE BOTTOM OF ALL TRENCHING AND BACKFILLING MUST BE PROVIDED BY THE CONTRACTOR. THE BOTTOM OF ALL TRENCHES MUST BE REASONABLY SMOOTH AND HAVE A UNIFORM PITCH. MATERIALS USED FOR BACKFILLING MUST BE FREE OF STONES OR OTHER SOLID MATERIAL LARGER THAN THREE INCHES IN DIAMETER. A TRENCH FOR THE SECONDARY CABLE AND SERVICES MUST BE A MINIMUM WIDTH OF 18 INCHES AND A MINIMUM DEPTH OF 40 INCHES TO THE TOP OF THE CONDUIT. COMPLETE CONDUIT PANEL TO PUMP STATION	HAZELETT STRIP-CASTING CORPORATION COLCHESTER, VT
S: ENT SHALL MEET THE RITERS LABORATORIE D LABEL SERVICE IS BYSTEMS AND CONTE DE, LOCAL ORDINANC	E STANDARDS OF THE NATIONAL ELECTRICAL MANUFACTURER'S ES, INC., AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS AVAILABLE. ROLS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF CES AND REGULATIONS PRESCRIBED BY THE LOCAL POWER	KREBS & KREBS & LANSING Consulting Engineers 164 Main Street, Suite 201 Colchester, Vermont 05446
TS FOR THE HOLDING A PERFORMED SHALL RATORIES REGULATI DICTION. THE CONTR IANSHIP SHALL BE GI ONE YEAR FROM THE ABOR MADE NECESS ER. REQUIREMENTS OF T IAGRAM. ALL WIRING	COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC ONS AND ALL MUNICIPAL, STATE AND OTHER PUBLIC OR PRIVATE ACTOR IS RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS. JARANTEED TO BE FREE FROM MECHANICAL AND ELECTRICAL DAY OF FINAL ACCEPTANCE. ANY REPLACEMENT OF PARTS OR ARY BY SUCH DEFECTS AND ADJUSTMENTS, SHALL BE RECTIFIED	STAMP:
<u>E DETAIL FOR</u> N.T.S.	NEW PUMP STATION	
ACKAGE PUMP	5. ALL ELECTRICAL EQUIPMENT SHALL COMPLY	
VAULT. PLANS L BE APPROVED ONSTRUCTION.	 WITH LOCAL AND NATIONAL ELECTRICAL CODE REQUIREMENTS. 6. ANY MODIFICATIONS TO PUMP STATION DESIGN OR LOCATION MUST BE APPROVED BY THE 	Project:
THE FACTORY. VIDE THE DESIGN N, APPROVED BY NSTRUCTION. ALL NECESSARY ES, FITTINGS, Y ALL Y TO MAKE THE RABIE	 ENGINEER AND OTHER PERMITTING AUTHORITIES. 7. THE CONTRACTOR SHALL USE SCHEDULE 80 PVC WITH SOLVENT WELD JOINTS FOR ALL PIPING INSIDE PUMP STATION AND VALVE PIT. ALL PENETRATIONS AND JOINTS SHALL HAVE WATERTIGHT SEALS. 	THE 'H' AT MALLETTS BAY 180 & 166 W. Lakeshore Drive Colchester, Vermont

THE CONTRACTOR SHALL TEST BOTH THE PUMP STATION WETWELL AND THE VALVE PIT FOR WATERTIGHTNESS PRIOR TO BACKFILL. THE WATERTIGHTNESS TEST SHALL CONFORM TO THE ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, WASTEWATER SYSTEM AND POTABLE WATER SUPPLY (CURRENT EDITION) SECTION 1-1010. THIS TEST SHALL BE WITNESSED BY THE ENGINEER AND SHALL BE PERFORMED AS FOLLOWS:

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

• 1-1010(b) When required to be tested for watertightness by a permit, tanks shall be tested using the ASTM for testing

(A) Using a water pressure test, seal the tank and risers, fill with water to the top of the risers, and let stand for 24 hours. Refill the tank. The tank is considered watertight if the water level is held for 1 hour. (B) Using a vacuum test, seal the empty tank and risers and apply a vacuum to 2 inches (50 mm) of mercury. The tank is considered watertight if 90 percent of the vacuum is held for 2 minutes.

• IF THE STRUCTURE FAILS THE TEST IT SHALL BE THOROUGHLY CLEANED AND RESEALED, FROM THE

1. AT LEAST ONCE A YEAR THE PUMP STATION AND TANKS SHOULD BE OPENED AND SETTLED SOLIDS REMOVED AS NECESSARY AND CHECKED FOR LEVELNESS. THOROUGHLY CLEAN ANY COMPONENTS WITH SOLIDS BUILDUP AND CHECK FOR

2. TOXIC OR HAZARDOUS MATERIALS SHOULD, IN GENERAL, NOT BE DISPOSED OF IN SEPTIC SYSTEMS. THESE SUBSTANCES MAY PASS THROUGH THE SYSTEM IN AN UNALTERED STATE AND CONTAMINATE GROUNDWATER OR REMAIN IN THE

164 Main Street, Suit Colchester, Vermont	KREBS & LANSING CONSULTING ENGINEERS e 201 P: (802) 878-0375 05446 www.krebsandlansing.com
STAMP:	
Project:	
1 10,000.	тиг 'и'
ТСАТ	
MAL	LETISBAY
180 & C	166 W. Lakeshore Drive olchester, Vermont
Project No.	23314
Scale	<u>N.T.S.</u>
Drawn by	SWH
Unecked by	03/03/25
Date	
No. Date	Description
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		Gr	avel Wetland Elevati	on Schedule	
Gravel Wetland	Bottom of Pond & Top of Wetland Cell Elev. (ft) (ELEV. XX in Detail)	Planned Static Water Elev. (ft)	Top Smaller Stone Elev. (ft)	Transition from Small to Large Stone Elev. (ft)	Bottom of Stone & Bottom of Gravel Cell Elev. (ft)
1	126.00	125.67	125.33	125.00	122.33



N.T.S.

		-
GRAVEL WETLAND PLANTING	SOIL CHARACTERISTICS	
PARAMETER PH RANGE	VALUE 6.0 to 7.0	
SOIL (LOW HYDRAULIC CONDUCTIVITY (0.1- CONFORMING TO HYDROLOGIC SOIL GROU	0.01 FT/DAY) WITH SOIL TEXTURE	
SIEVE SIZE NO. 16	PERCENT PASSING BY WEIGHT 100%	HAZELETT
NO. 40 NO. 60	85-100% 40-60%	STRIP-CASTING
		CORPORATION
GRAVEL WETLAND SOIL SHALL CONFORM GRAVEL WETLAND SOIL MEDIA TESTING (PREPARED BY THE UNIVERSITY OF VERM CHAMPLAIN, AND WATERSHED CONSULTI	GUIDANCE" DOCUMENT IONT, SEA GRANT LAKE ING	COLCHESTER, VT
THE GRAVEL WETLAND SOIL SHALL BE TE THE PHOSPHORUS TESTING PROCEDURE PHOSPHORUS TESTING IS REQUIRED FOF THE GRAVEL WETLAND SOIL. FINAL MIXE SATURATION RATIO (PSR) LESS THAN OR TESTED IN ACCORDANCE WITH THE FOLL 1. SAMPLES ARE TO BE AIR DRIED AND	ESTED IN ACCORDANCE WITH E BELOW: R THE UPPER MEDIA LAYER OF S MUST HAVE A PHOSPHORUS EQUAL TO 0.10 AND SHALL BE OWING PROTOCOL: SIEVED THROUGH 2MM PRIOR	
TO TESTING. 2. AIR-DRIED, SIEVED SOIL SAMPLES AF THE MEHLICH-3 SOLUTION (0.2 M CH_3 HNO $_3$ + 0.001 M EDTA) BY SHAKING A FOR 5 MINUTES AT A 1:10 RATIO (SOIL VOLUME IN ML), FOLLOWED BY FILTE (PORE SIZE OF 2 UM IS RECOMMEDEN 3. EXTRACTS FROM THE MEHLICH-3 PRO	RE TO THEN BE EXTRACTED WITH COOH + 0.25 M NH_4NO_3 + 0.015 M SOIL-SOLUTION SUSPENSION L MASS IN GRAMS: SOLUTION RING TO REMOVE PARTICLES D, MAX PORE SIZE = 8 UM). OCEDURE ARE TO BE ANALYZED	KREBS & KREBS & LANSING CONSULTING ENGINEERS 164 Main Street, Suite 201 Colchester, Vermont 05446
FOR P, FE, AND AL BY ICP-OES. 4. THE PHOSPHORUS SATURATION RAT FOLLOWS:	TIO (PSR) IS CALCULATED AS	STAMP:
$PSR = \frac{\left(\frac{P_{M3}}{31}\right)}{\left(\frac{Fe_{M3}}{56}\right) + \left(\frac{A/_{M3}}{27}\right)} \qquad \begin{array}{l} \text{WHERE,} \\ \bullet P_{M3} = \text{MEHL} \\ \bullet FE_{M3} = \text{MEHL} \\ \bullet AL_{M3} = \text{MEH} \end{array}$	ICH-3 P IN MG P PER KG DRY SOIL LICH-3 FE IN MG FE PER KG DRY SOIL LICH-3 AL IN MG AL PER KG DRY SOIL	
MEHLICH-3 EXTRACTIONS FOLLOW THE A EXTRACTIONS, OR EXTRACTIONS USED T NOT ACCEPTABLE FOR THIS REQUIREMENT	BOVE PROTOCOL. OTHER SOIL O QUANTIFY TOTAL ELEMENTS, ARE NT.	
IN CASES WHERE INGREDIENT MIXING HA CAN BE MIXED AT THE INTENDED VOLUME BATCH (AT LEAST ONE QUART IN VOLUME SMALL BATCH TESTING APPROACH IS TAP DURING INSTALLATION MUST BE RETEST	AS NOT YET OCCURRED, INGREDIENTS ETRIC PROPORTIONS IN A SMALL E) FOR TESTING PURPOSES. IF THIS KEN, THE FINAL MATERIAL TO BE USED ED TO CONFIRM ACCEPTABLE PSR	
SOIL SAMPLES FOR P, FE, AND AL ANALYS BE SUBMITTED TO THE AGRICULTURAL AI LABORATORY (AETL) LOCATED AT UVM. F ANALYSIS	SIS VIA MEHLICH-3 EXTRACTION CAN ND ENVIRONMENTAL TESTING PLAN TO ALLOW 3-4 WEEKS FOR	
HOW TO TAKE A SOIL SAMPLE [GO.L	JVM.EDU/SOIL-SAMPLING]	
		Project:
e Vermont Stormwater Management Manual	Appendix D5	THE 'H'
1'-0"		MALLETTS BAY
	- WELD (TYP.)	180 & 166 W. Lakeshore Drive Colchester, Vermont
	2" x 1/4" STEEL STOCK ALL AROUND CONFORM FRAME TO SHAPE	Project No. 23314 Scale N."F.\$0' Drown by \$MR(SWH)
.0	- 1/2" DIAMETER HOLES @24" O/C MAX. (TYP.)	Checked by
	3 LB/FT^2 EXPANDED ALUMINUM FABRIC ON TOP,	Date
	WELD 1"x1"x1/8" ANGLE	Revisions No. Date Description
1'-5"	OVER ALL EDGES (TYP.) PROVIDE SHOP	
NOTES FOR TRASH RACK	DRAWING TO ENGINEER FOR	
 TRASH RACK TO BE CENTERED OVER OPENING. STEEL TO CONFORM TO ASTM A-36. ALL SURFACES TO BE COATED WITH ZRC COLD C COMPOUND AFTER WELDING. TRASH RACK TO BE FASTENED TO THE WALL WITH COMPOUND AFTER WELDING. 	APPROVAL.	Drawing Title CIVIL DETAILS
MASONRY ANCHORS. TRASH RACK TO BE REMO	VABLE.	
guite D. T. TRASH NACK FIOLECHOIL IOF LOW FIOW OF		Drawing No.
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TRASH RACK DE	TAIL	

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ADDITIONAL SOILS RESTORATION

- SOIL DEPTH AND QUALITY SHALL BE ESTABLISHED TOWARDS THE END OF CONSTRUCTION, AND ONCE ESTABLISHED, BE PROTECTED FROM COMPACTION.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE POST CONSTRUCTION SOIL DEPTH AND QUALITY.
- 3. VERIFICATION SHALL BE VIA A SAMPLING SCHEME THAT INCLUDES NINE 8" DEEP TEST HOLES PER ACRE OF AREA SUBJECT TO THE STANDARD.
- 4. TEST HOLES SHALL BE EXCAVATED USING ONLY A SHOVEL DRIVEN SOLELY BY THE INSPECTOR'S WEIGHT AND SHALL BE AT LEAST 50 FEET APART FROM EACH OTHER.
- 5. ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS (LOD) ARE SUBJECT TO THE POST-CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD
- 6. THERE IS NO PROPOSED EXCAVATION OR RE-GRADING ANTICIPATED WITHIN THE SOLAR ARRAY BEYOND WHAT IS NECESSARY FOR SETTING POSTS AND INSTALLING CONDUIT. IT IS ANTICIPATED THAT SOME GROUND DISTURBANCE WILL OCCUR WITHIN THE ARRAY FROM FREQUENT TRACKING OF EQUIPMENT. THE CONTRACTOR AND ENGINEER SHALL EVALUATE GROUND DISTURBANCE WITHIN THE SOLAR ARRAY AND EITHER:
- CONFIRM THAT SOILS HAVE NOT BEEN EXCESSIVELY COMPACTED VIA TEST PITS AND PHOTO DOCUMENTATION.
- IMPLEMENT THE MEASURES OUTLINED IN THE "POST CONSTRUCTION SOIL •• DEPTH & QUALITY STANDARD" IF EXCESSIVE COMPACTION HAS OCCURRED.

EARTH EMBANKMENT CONSTRUCTION NOTES

- 1. THE AREA WITHIN THE EMBANKMENT AND 15 FEET BEYOND SHALL BE CLEARED AND GRUBBED (EXCEPT IN THE WETLAND BUFFER). ORGANICS AND MATERIALS DEEMED UNSUITABLE BY THE ENGINEER (SUCH AS LOOSE, FROZEN, DISTURBED SOILS, DEBRIS, VEGETATION, TREE STUMPS, OVER SATURATED AND UNSTABLE SOILS) SHALL BE REMOVED AND A FIRM STABLE SUBGRADE SHALL BE PREPARED ON UNDISTURBED SOILS. ALL SUBGRADE SOILS SHALL BE OBSERVED BY THE ENGINEER. EXCAVATION SHALL BE PERFORMED IN A MANNER TO LIMIT DISTURBANCE AND LOOSENING OF THE SUBGRADE.
- 2. SCHEDULE AND COORDINATE EXCAVATION AND BACKFILL WORK WITH A DRY WEATHER FORECAST TO PREVENT OPEN EXCAVATIONS AND ACCUMULATION OF STORMWATER RUNOFF.
- 3. THE ENGINEER SHALL BE PRESENT TO OBSERVE THE SUBGRADE SOILS PRIOR TO PLACING THE SELECT EMBANKMENT FILL SOILS. PRIOR TO BACKFILL THE SUBGRADE SHALL BE PROOF-ROLL COMPACTED, IN THE PRESENCE OF THE ENGINEER, USING A SMOOTH DRUM ROLLER IN STATIC MODE AND/OR WITH BUCKET DOWN PRESSURE AS DIRECTED BY THE ENGINEER. THE ENGINEER SHALL BE CONTACTED WITH AT LEAST 48 HOURS NOTICE TO SCHEDULE SUBGRADE PREPARATION AND PROOF COMPACTION.
- 4. SELECT SOIL SHALL BE USED FOR CONSTRUCTION OF THE CUT-OFF TRENCH AND EARTH EMBANKMENT. THE SOIL SHALL MEET THE UNIFIED SOIL CLASSIFICATION SYSTEM DESIGNATION FOR EITHER CLAYEY SAND (SC) OR SILTY CLAYS (CL) WITH A LOW TO MEDIUM PLASTICITY. A MINIMUM OF TWO UNIFIED SOIL CLASSIFICATION TESTS SHALL BE PERFORMED ON STOCKPILE SOIL SAMPLES FOR APPROVAL. THE SOIL SHALL HAVE NO ROCKS LARGER THAN 2", FROZEN LUMPS, ORGANICS, OR OTHER DELETERIOUS MATERIALS.
- 5. ALL SELECT EMBANKMENT SOILS SHALL BE PLACED IN 6" LIFTS. SOIL SHALL BE COMPACTED TO 95% OF THE STANDARD PROCTOR.

10" Radius Sope See Site Pign Non-shrink grout around Catch basin by Camp, S.D. Signer heights so an 8° cast iron Radius Provide appropriate base and riser heights so an 8° cast iron Batic, "O" ring Outburde Matic, "O" ring Util the base Tirst pint shall be Tirst pint shall be Tirst pint shall be Total the levation Util the levatide	HAZELETT STRIP-CASTING CORPORATIONCOLCHESTER, VT
TYPICAL DROP INLET N.T.S.	KREBS & KREBS & LANSING CONSULTING ENGINEERS 164 Main Street, Suite 201 P: (802) 878-0375 Coloberater, Vorment 05446 Pumuu krabaendlenging eage
 IT IS IMPORTANT THAT THE EXISTING SUBGRADE AND SELECT SOILS BE PROTECTED DURING CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS: TO THE MAXIMUM EXTENT POSSIBLE WORK SHALL BE PLANNED SO SUBGRADE SOILS AND THE EMBANKMENT SOILS ARE NOT EXPOSED TO PRECIPITATION. PRIOR TO EXCAVATING, POTENTIAL SOURCES OF SURFACE WATER SHALL BE DIRECTED AWAY FROM THE EXCAVATIONS. PLACEMENT OF SELECT EMBANKMENT FILL SOILS SHALL NOT BE PLACED DURING A RAIN EVENT. PRIOR TO PERIODS OF FORECASTED RAIN, THE SELECT SOILS SHALL BE GRADED TO DRAIN AND ROLLED SMOOTH WITH A DRUM ROLL COMPACTOR. SOIL THAT IS NOT PROTECTED AND BECOMES WEAKENED BY PRECIPITATION SHALL BE REMOVED AND DISPOSED OF AT NO COST TO THE OWNER. THE GRAVEL FILTER LAYER FOR THE EMERGENCY SPILLWAY SHALL BE PLACED WITH THE FOLLOWING REQUIREMENTS: MINIMUM 6" SEPARATION BETWEEN PREPARED/ACCEPTED SUBGRADE AND IN PLACE STONE FILL SEE BELOW FOR MATERIAL SPECIFICATION. THIS LAYER WILL BE PLACED IN A SINGLE 6" LIFT COMPACTED TO 90% STANDARD PROCTOR. THE GRAVEL FILTER MATERIAL SHALL NOT BE FROZEN AND SHALL NOT BE PLACED ON FROZEN SUBGRADE. PLACEMENT OF STONE FILL SHALL NOT OCCUR UNTIL FULL COMPACTED THICKNESS OF GRANULAR FILTER HAS BEEN PLACED. 	Colchester, Vermont 05446 www.krebsandlansing.com
8. THE STONE FILL FOR THE EMERGENCY SPILLWAY SHALL BE PLACED BY METHODS THAT AVOID SEGREGATION AND SHALL BE PLACED TO THE REQUIRED THICKNESS, IN LIFTS RESULTING IN A WELL GRADED HOMOGENOUS MASS WITH A RELATIVELY LOW VOID RATIO AND TIGHTLY INTEGRATED WITH PRIOR LIFTS. GRAVEL FILTER MATERIAL SHALL BE PLACED AND "WASHED IN" WITH WATER TO MINIMIZE VOIDS IN THE STONE FILL. STONE FILL SHALL NOT BE PLACED ON FROZEN MATERIAL.	Project: THE 'H' AT MALLETTS BAY 180 & 166 W. Lakeshore Drive Colchester, Vermont
	Project No. 23314 Scale N.T.S. Drawn by SWH Checked by 03/03/25 Revisions No. Date Description Drawing Title CIVIL DETAILS Drawing No. CD-7

WOVEN WIRE FEN WITH MAXIMUM 6"	ICE, 14 GAUGE MESH SPACING. DX FILTER			9" SILTSOXX OR APPROVED	50-7	<u>0 FEET</u>
36" MIN. – FABRIC OF STAPLE FABRIC OF STAPLE FABRIC OF	F SIMILAR. ABRIC TO AKES.	WOOD STAKES DRIVEN ON DOWN SLOPE SIDE OF FENCE	1			(
STAKE FLOW WIRE.	SIDE OF		20" MIN.	€ OF GRAS LINED D	SSED DITCH	<u>OFILE</u>
SECTION A-A SECTION A-A FORM 6" MINIMI DEEP TRENCH, FABRIC IN BOT AND COVER WI COMPACTED S STONE	IUM SL , LAY TOM ITH SOIL OR	OPE SLOPE	16" MIN.			3TAKE SIL1 EVERY 5' A GRADE TR/
 WOVEN WIRE FENCE TO BE FAS REINFORCEMENT REQUIRED W FILTER CLOTH TO BE FASTENEI AND MID SECTION. WHEN TWO SECTIONS OF FILTE FOLDED. FILTER CLOTH SHALL 	STENED SECURELY 1 /ITHIN 100 FT UPSLOF D SECURELY TO WO ER CLOTH ADJOIN EA BE MIRAFI 100X OR A	TO FENCE POSTS WITH WIRE TIES WIRE FE PE OF RECEIVING WATERS. VEN WIRE FENCE WITH ITIES SPACED 24" A ACH OTHER THEY SHALL BE OVERLAPPED APPROVED EQUIVALENT.	NCE T THE TOP BY 6" AND	v. v		
 PREFABRICATED UNITS SHALL I CONTRACTOR SHALL BE RESPORTED TO ALL LOCATIONS SHOW MAINTENANCE SHALL BE PERFORTED TO ALL FOF FABRIC HEIGHT. REMORTED TO ALL MEASURES WITH 	BE GEOFAB, ENVIRO ONSIBLE FOR THE INS WN ON THE PLANS. ORMED AS NEEDED A OVE SILT FENCE AFT ED TO REINFORCE SI H ENGINEER PRIOR T	FENCE OR EQUIVALENT. STALLATION, MAINTENANCE, AND REMOVA AND MATERIAL REMOVED WHEN SEDIMEN [®] ER SUCCESSFUL ESTABLISHMENT OF VEG LT FENCE IN PLACE OF WIRE MESH, CONT O USE.	L OF SILT FREACHES GETATION. RACTOR WILL	NOTES	DIL SILTSOXX ND STAKES OI ROVIDE ADDIT TOR SHALL BI	FABRIC AF N EITHER S TIONAL SUF
 8. IF SILT FENCE IS INSTALLED WE USED. 9. CONTRACTOR MAY USE IVI WIR 10. SILT FENCE SHALL BE INSTALLED 	HEN GROUND IS FRO	ZEN, A GRAVEL, SAND OR WATTLE BALLAS	ST MUST BE VALENT.	LEFT IN PL CONSTRU	ACE IF THE C CTION.	ONTRACT(
10. SILT FENCE SHALL BE INSTALLE 11. SILT FENCE SHALL NOT BE LOC 12. DRAINAGE AREA SHALL BE $\leq \frac{1}{4}$	ED ALONG CONTOUR CATED IN AREAS OF C ACRE PER 100 LINEAR	IS. CONCENTRATED FLOW. R FEET OF SILT FENCE.		2. MAINTENA ADDED WH	NCE SHALL B IEN SEDIMEN	E PERFOR
	TYPICAL TI REINFORCEI	EMPORARY D SILT FENCE		4. CONTRAC	TOR SHALL R	TO A NEW
PERIMETEF				5. SILTSOXX LINED SW/	CAN ONLY BE ALES.	USED IN A
DISTANCE FROM RECIEVING WATER AND ALL WATER RESOURCE AREAS (WRA)	SLOPE	ACCEPTABLE EPSC MEASURE		 6. SILTSOXX 5. SILTSOXX 	CHECK DAM	CAN ONLY
<u>≤</u> 100 FEET	ALL	REINFORCED SILT FENCE, TWO ROWS OF NONR FENCE OR ROW OF WATTTLE INSIDE OF NONRE FENCE	EINFORCED SILT	PRODUCT		
> 100 FEET	ALL	NONREINFORCED SILT FENCE OR WATTLE PER BELOW	SPECIFICATIONS	<u>_</u>		<u>, 100</u>
 AT A MINIMUM, EPSC MEASURES MEET VT DEC STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL OR PREVIOUSLY APPROVED INTERCHANGEABLE 36 PRACTICES. 36 PERIMETER CONTROLS SHALL BE UTILIZED IN SMALL AREAS ≤ 1 ACRE. IN AREAS > 1 ACRE, TEMPORARY SEDIMENT TRAPS OR TEMPORARY SEDIMENT BASINS ARE TO BE UTILIZED. PERIMETER CONTROLS SHALL BE INSTALLED ON DOWNSLOPE SIDE OF PLANNED EARTH DISTURBANCE. 	5" MIN. STAKE FO LA CO SC FO BALLA SECTION A 36" STAKES DF ON DOWNSLO SIDE OF FENC	FER FABRIC PRM 6" MIN. DEEP TRENCH. Y FABRIC IN BOTTOM OVER WITH COMPACTED DIL OR STONE Image: Silt fence spacing chart SLOPE SPACING AST 5% TO 10% 50 FT. OR LESS 10% TO 20% 25 FT. OR LESS AST 20% 15 FT. OR LESS RIVEN FILTER FABRIC ATTACHED TO STAKES	 ACCEPTABLE PROVIDED BE AT A MINIMUM STANDARDS A PREVENTION PREVIOUSLY A PRACTICES. LIMITS OF DIS DEMARCATION ANY EARTH D BARRIER TAPI DISTURBANCE VEGETATED A NEAREST WAT LAKE, POND, N HIGH VISIBILIT WIDTH COMM DEMARCATING ROPE SHOULD 	EPSC MEASURE E LOW. 1, EPSC MEASURE AND SPECIFICATIC AND SEDIMENT CO APPROVED INTER TURBANCE (OR "C N") SHALL BE INST ISTURBING ACTIVI E/ROPE: FOR USE BORDERS NON-V AREAS MORE THAN TER RESOURCE (S NETLAND, ETC.). E TY FIBERGLASS TA ONLY USED IN SKI G CLOSED AREAS. D BE ATTACHED TO	S MEET VT DE NS FOR EROS ONTROL OR CHANGEABLE CONSTRUCTIC ALLED PRIOR TIES. WHERE PROF VOODED, N 100 FT FROM STREAM, BROG ARRIER TAPE PE, MINIMUM AREAS FOR BARRIER TAP D STAKES, AT	EC SION N TO POSED M THE OK, E IS 3" IN PE AND
 4. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBING ACTIVITIES WITHIN UPSLOPE CONTRIBUTING AREA. 5. SILT FENCE SHALL NOT BE USED AS CONSTRUCTION DEMARCATION 	A - 10' MA	X. 20" MIN. SLOPE	 MINIMUM HEIG 5. MINIMUM 1 TC BE INSTALLED 6. EACH ROW OF MINIMUM. 7. BARRIER TARK 	GHT OF 4 FT FROM 2 ROWS OF MESH ALONG CONSTRU F BARRIER TAPE T E TO BE ORANGE	THE GROUNI HBARRIER TA JCTION PERIN O BE 3" WIDE	Э. .PE TO ЛЕТЕR.
6. SILTSOXX CAN BE USED AS A SILT FENCE ALTERNATIVE, WITH PRIOR APPROVAL OF THE ENGINEER. SEE DETAIL.			8. SECURE BARF TREE TRUNKS FROM GROUN	RIER TAPE TO STA S WITH BOTTOM RO D SURFACE (MINI	KES OR EXIS ⁻ OW AT 4' DIST MUM).	TING ANCE
7. IF SILT FENCE IS INSTALLED WHEN GROUND IS FROZEN, A		N.T.S.	9. MAINTAIN ANE COMPLETION	OREPLACE AS NEE OF PROJECT PER	EDED. REMOV OSPC.	
SAND BALLAST MUST BE USED.			NOT SUFFICIE CONSTRUCTIO	OSPC DETERMIN NT, REPLACE WIT ON FENCE OR SNO	ES BARRIER T H ORANGE W FENCE.	APE IS
		GUIDE TO MULCH M	ATERIALS,	RATES, A	ND USE	S
QUALITY WOOD CHIPS OR SHAVINGS AIR-DRIED. FRE	Y STANDARDS	PER 1000 SQ. FT. 500-900 LBS		PER ACRE	DEPTH OF APPLICATION 2 - 7"	USED PRIMA
WOOD FIBER CELLULOSE MADE FROM NAT (PARTLY DIGESTED WOOD WITH GREEN D	TURAL WOOD USUALLY DYE AND DISPERSING	50 LBS		2,000 LBS.	-	
GRAVEL, CRUSHED STONE WASHED; St OR SLAG	AGEN I SIZE 2B OR 3A - 1½"	9 CU. YDS.		405 CU. YDS.	3"	EXCI ORNAMEN LBS./CU
HAY OR STRAW AIR-DRIED; FR		90-100 LBS 2-3 BALES		2 TONS (100-120	COVER	USE SMALL

	SEEDS & COARSE MATERIALS		BAL	(100-120 .ES)	ABOUT 90% SURFACE	MONTHS. S USED MULC
COMPOST	UP TO 3" PIECES, MODERATELY TO HIGHLY STABLE	3-9 CU. YDS.	134-402	CU. YDS.	1 - 3"	COARSER
EROSION CONTROL MIX	WELL-GRADED MIXTURE OF PARTICLE SIZES. ORGANIC CONTENT BETWEEN 80-100%, DRY WEIGHT. PARTICLE SIZE SHALL PASS 6" SCREEN (100%)	* SLOPES 3(HZ.):1(VERT.) OR FLATTER = 2 INCH DEPTH PLUS ADDITIONAL 1/2 INCH DEPTH PER 20 FT. OF SLOPE UP TO 100 FT. ** SLOPES BETWEEN 3(HZ.):1(VERT.) AND 2(HZ.):1(VERT.) = 4 INCH DEPTH PLUS ADDITIONAL 1/2 INCH PER 20 FT. OF SLOPE UP TO 100 FT. *** SLOPES STEEPER THAN 2(HZ.):1(VERT.) USE OF EROSION CONTROL MIX AND MULCH DEPTH TO BE REVIEWED AND APPROVED PRIOR TO USE BY OSPC OR EPSC SPECIALIST				COMPRISE ACCEPTABLE ORGANICS S

NOTE: THIS MULCHING DETAIL IS FOR EROSION PREVENTION AND SEDIMENT CONTROL ONLY. THIS IS TO BE USED DURING CONSTRUCTION AS A BEST MANAGEMENT PRACTICE. LANDSCAPING MULCH IS DIFFERENT, SEE LANDSCAPE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION REGARDING LANDSCAPE MULCH.



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CONSTRUCTION STORMWATER **DISCHARGE PERMIT INFORMATION**

- THIS PROJECT PROPOSES GREATER THAN 1 ACRE OF SOIL DISTURBANCE ON SITE. THE PROJECT WILL FOLLOW THIS CONSTRUCTION GENERAL PERMIT 3-9020.
- THE PROPOSED PROJECT HAS BEEN SCORED USING THE STATE OF VERMONT APPENDIX-A RISK EVALUATION. THE PROJECT IS SCORED "MODERATE RISK" BASED ON THE EVALUATIONS CRITERIA.
- THE MAXIMUM AREA OF EARTH DISTURBANCE AT ANY ONE TIME SHALL NOT EXCEED 5 ACRES.
- ALL AREAS OF EARTH DISTURBANCE ASSOCIATED WITH THIS PROJECT MUST BE STABILIZED WITHIN 14-DAYS OF INITIAL DISTURBANCE. AFTER THIS INITIAL 14-DAY PERIOD, ALL EARTH DISTURBANCE AREAS ASSOCIATED MUST BE STABILIZED ON A DAILY BASIS, WITH THE FOLLOWING EXCEPTIONS: I. STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE WITHIN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS. II. STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E., NO OUTLET FOR STORMWATER) WITH A DEPTH OF 2 FEET OR GREATER (E.G., UNDERGROUND LINE INSTALLATION).
- PROJECT DOES PROPOSE WINTER CONSTRUCTION.
- ALL TEMPORARY EPSC MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY EPSC MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED AND APPROVED IN WRITING BY THE OWNER.
- SOIL STABILIZATION SHALL BE ACHIEVED BY SEED AND MULCH, HYDROSEEDING WITH MULCH TACKIFIER, SOD, STONE, AND/OR ROLLED EROSION CONTROL PRODUCTS (E.G., EROSION CONTROL BLANKET). MULCH SHALL BE COMPRISED OF STRAW, HAY, COMPOST, WOODCHIPS, WOOD STUMP GRINDINGS, AND/OR EROSION CONTROL MIX.
- APPROPRIATE SEED MIX SHALL BE APPLIED TO DESIGNATED AREAS PER THIS EPSC PLAN AND SEED SPECIFICATIONS.

TEMPORARY & FINAL STABILIZATION NOTES

- ALL AREAS OF EARTH DISTURBANCE ASSOCIATED WITH THIS PROJECT MUST BE STABILIZED WITHIN 14 DAYS OF INITIAL DISTURBANCE. AFTER THIS INITIAL 14-DAY PERIOD. ALL EARTH DISTURBANCE AREAS ASSOCIATED MUST BE STABILIZED ON A DAILY BASIS, WITH THE FOLLOWING EXCEPTIONS:
- I. STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE WITHIN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS. II. STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A
- SELF-CONTAINED EXCAVATION (I.E., NO OUTLET FOR STORMWATER) WITH A DEPTH OF 2 FEET OR GREATER (E.G., UNDERGROUND LINE INSTALLATION).
- THE MAXIMUM AREA OF EARTH DISTURBANCE AT ANY ONE TIME SHALL NOT EXCEED 5 ACRES
- SOIL STABILIZATION SHALL BE ACHIEVED BY SEED AND MULCH (SEE DETAILS), HYDROSEEDING WITH MULCH TACKIFIER, SOD, STONE, AND/OR ROLLED EROSION CONTROL PRODUCTS (E.G., EROSION CONTROL BLANKET; SEE DETAIL). MULCH SHALL BE COMPRISED OF STRAW, HAY, COMPOST, WOODCHIPS, WOOD STUMP GRINDINGS, AND/OR EROSION CONTROL MIX (SEE DETAIL).
- APPROPRIATE SEED MIX SHALL BE APPLIED TO DESIGNATED AREAS PER THIS EPSC PLAN AND SEED SPECIFICATIONS (SEE DETAILS). FOR AN AREA TO BE STABILIZED FOR WINTER BY VEGETATED COVER, SEEDING MUST BE COMPLETED BY SEPTEMBER 15.
- 5. AREAS TO BE STABILIZED FOR WINTER THAT DO NOT HAVE ESTABLISHED /EGETATION BY OCTOBER 15 SHALL BE STABILIZED BY ANCHORED MULCH AT THE WINTER APPLICATION RATE, OR OTHER APPROVED STABILIZATION MEASURES (E.G., ROLLED EROSION CONTROL PRODUCT; SEE DETAIL). DORMANT SEEDING WITH WINTER RYE IS RECOMMENDED (SEE DETAIL).
- 6. ALL TEMPORARY EPSC MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY EPSC MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED AND APPROVED IN WRITING BY THE OWNER.
- FOLLOWING TEMPORARY OR PERMANENT STABILIZATION, MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.
- 8. EXCEPT AS NOTED BELOW, ALL AREAS OF DISTURBANCE SHALL BE SEEDED AND STABILIZED WITH EPSC MEASURES (E.G., MULCH, EROSION CONTROL MIX, ROCK RIP RAP, OR ROLLED EROSION CONTROL PRODUCT), INCLUDING AREAS WHERE CONSTRUCTION HAS BEEN SUSPENDED OR SECTIONS COMPLETED. THE FOLLOWING SHALL ALSO APPLY:
- A. FOR ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS, AND AREAS WITHIN 50 FEET OF A BUILDING UNDER CONSTRUCTION, A PERIMETER SEDIMENT CONTROL SYSTEM (E.G., SILT FENCE) SHALL BE INSTALLED AND MAINTAINED TO CONTAIN SOIL. EXPOSED DISTURBED AREAS ADJACENT TO A CONVEYANCE THAT PROVIDES RAPID OFFSITE DISCHARGE OF SEDIMENT (E.G., A CUT SLOPE AT AN ENTRANCE) SHALL BE COVERED WITH PLASTIC OR GEOTEXTILE TO PREVENT SOIL LOSS UNTIL THE AREA CAN BE STABILIZED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO CONTROL EQUIPMENT AND VEHICLES FROM TRACKING MATERIAL OFF SITE.
- B. PERMANENT SEEDING SHALL ONLY BE UNDERTAKEN IN THE SPRING SEASON FROM APRIL THROUGH MAY AND IN LATE SUMMER AND EARLY FALL UNTIL SEPTEMBER 15; SUMMER PLANTING MAY BE CONDUCTED IF ADEQUATE WATERING IS PROVIDED. DURING THE PEAK SUMMER MONTHS AND IN THE FALL AFTER SEPTEMBER 15, AN APPROPRIATE TEMPORARY STABILIZATION SHALL BE IMPLEMENTED. TEMPORARY SUMMER PLANTING MAY SUFFICE FOR PERMANENT SEEDING IF ADEQUATE NATURAL RAINFALL ALLOWS FOR VIGOROUS GROWTH DURING THE MID SUMMER PERIOD. THE CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE RETURN TO THE SITE THE SPRING FOLLOWING CONSTRUCTION TO PERFORM ANY FURTHER SEEDING THAT MAY BE REQUIRED AND TO REMOVE ANY REMAINING EROSION CONTROL MEASURES THAT ARE NO LONGER NEEDED.
- D. TEMPORARY SEDIMENT TRAPPING DEVICES (E.G., SILT FENCE) SHALL NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONTRIBUTORY DRAINAGE AREAS. SIMILARLY, STABILIZATION SHALL BE ESTABLISHED PRIOR TO CONVERTING SEDIMENT TRAPS AND/OR SEDIMENT BASINS INTO PERMANENT (POST-CONSTRUCTION) STORMWATER MANAGEMENT PRACTICES.
- E. STABILIZATION MEASURES SHALL BE APPLIED TO BARE EARTH SURFACES WITH SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES (E.G., ROLLED EROSION CONTROL PRODUCT) AS SOON AS POSSIBLE AFTER DISTURBANCE.

"EPSC" - EROSION PREVENT & SEDIMENT CONTROL "OSPC" - ON-SITE PLAN COORDINATOR





- PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70 PERCENT OF THE NATIVE BACKGROUND VEGETATIVE COVER FOR THE AREA HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, OR
- 2. EQUIVALENT FINAL STABILIZATION MEASURES (SUCH AS THE USE OF
- GRAVEL, RIPRAP, SHOT ROCK, GABIONS, GEOTEXTILES, OR EROSION CONTROL MIX) HAVE BEEN EMPLOYED. "PRINCIPAL OPERATOR"
- ANY PARTY ASSOCIATED WITH A CONSTRUCTION PROJECT THAT MEETS EITHER OF THE FOLLOWING TWO CRITERIA:
- 1. THE PARTY HAS OPERATIONAL CONTROL OVER CONSTRUCTION PLANS AND SPECIFICATIONS INCLUDING, BUT NOT LIMITED TO, THE ABILITY TO MAKE MODIFICATIONS TO THOSE PLANS AND SPECIFICATIONS: OR
- 2. THE PARTY HAS DAY-TO-DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT A PROJECT WHICH ARE NECESSARY TO ENSURE COMPLIANCE WITH A EPSC PLAN FOR THE SITE OR OTHER PERMIT CONDITIONS (E.G., THEY ARE AUTHORIZED TO DIRECT WORKERS AT A

11. FOR THOSE TEMPORARY SEDIMENT TRAPS TO BE PERMANENT DRY OR WET PONDS. SEDIMENT SHALL BE REMOVED AND THE ENTIRE AREA SEEDED AND MULCHED OR COVERED WITH EROSION CONTROL MATTING PRIOR TO PUTTING THE STORMWATER POND INTO USE.

12. LOCATIONS FOR TEMPORARY SEDIMENT TRAPS TO BE APPROVED BY THE OSPC OR THE EPSC SPECIALIST.

TYPICAL TEMPORARY SEDIMENT TRAP

WINTER EROSION CONTROL PROCEDURES

(FOR ANY EARTH WORK PERFORMED BETWEEN OCTOBER 15TH AND APRIL 15TH) WINTER EROSION CONTROL NARRATIVE:

OBJECTIVE - ANY SITE WORK PERFORMED LATER THAN OCTOBER 15TH WILL RESULT IN EXPOSED SOIL THROUGH THE WINTER. THIS PRESENTS A POTENTIAL FOR EROSION THROUGH THE WINTER. THE WINTER EROSION CONTROL MEASURES ARE INTENDED TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION ZONE DURING THAWS AND RAINSTORMS.

WINTER EROSION CONTROL SEQUENCE: ON-SITE COORDINATOR - THE ON-SITE COORDINATOR SHALL BE SURE ALL EROSION CONTROL MEASURES REQUIRED FOR WINTER CONSTRUCTION ARE INSTALLED BY OCTOBER 15TH AND PRIOR TO GROUND FREEZING. IF A PERMITTED AREA CAN BE LEFT UNDISTURBED UNTIL THE SPRING THE CONTRACTOR SHALL MAKE EVERY EFFORT TO LIMIT THESE AREAS OF DISTURBANCE.

THE CONTRACTOR SHALL STABILIZE ANY PORTION OF THE SITE THAT IS BEING WORKED AND DISTURBED PRIOR TO BEGINNING CONSTRUCTION AT ANOTHER AREA OF THE SITE. AT NO TIME DURING WINTER CONSTRUCTION SHALL THERE BE MORE THAN 1 ACRE OF EXPOSED SOIL ON SITE.

ANTICIPATED WINTER CONSTRUCTION ACTIVITIES WILL INCLUDE ALL ASPECTS OF THE PROJECT PROPOSED DURING SUMMER CONSTRUCTION. THIS IS A CONTINUATION OF WORK WHICH WAS NOT COMPLETED DURING THE SUMMER. MAJOR GRADING IS EXPECTED TO BE COMPLETE BEFORE OCTOBER 15TH.

LIMITS OF DISTURBANCE - LOD WILL BE MOVED AND/OR REPLACED TO REFLECT THE BOUNDARY OF WINTER WORK, CONTRACTOR WILL MAINTAIN A MINIMUM 25' BUFFER FROM PERIMETER CONTROLS TO ALLOW FOR SNOW CLEARING AND MAINTENANCE.

SNOW STORAGE ON SITE - CONTRACTOR WILL CREATE A SNOW MANAGEMENT PLAN. PLAN WILL IDENTIFY LOCATIONS FOR ADEQUATE SNOW STORAGE AND CONTROL SNOW MELT. SNOW STORAGE WILL BE DOWN GRADIENT OF ALL DISTURBED AREAS AND WILL NOT PROHIBIT THE FUNCTION OF ALL PERMANENT STORMWATER TREATMENT STRUCTURES. CONTRACTOR SHALL KEEP ALL DRAINAGE STRUCTURES OPWN AND FREE OF SNOW AND ICE DAMS.

INSTALL SILT FENCE - SILT FENCE SHALL BE INSTALLED ON THE DOWNHILL SIDE OF THE WINTER CONSTRUCTION AREAS AND SOIL STOCKPILE AREAS, AS SHOWN ON THE PLAN, BY OCTOBER 15TH. IF THE GROUND IS UNFROZEN THE SILT FENCE SHALL BE DUG IN AS NORMAL. IF THE GROUND IS FROZEN CONTACT THE ENGINEER FOR ALTERNATE OPTIONS (STONE BERM, FILTREXX SILT SOXX, STRAW WATTLES, ETC.).

STABILIZED CONSTRUCTION ENTRANCE - THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL STABILIZED CONSTRUCTION ENTRANCES TO PREVENT SEDIMENT TRACKING OFF SITE. CONTRACTOR SHALL ENLARGE THE WIDTH OF ACCESS TO PROVIDE ADDITIONAL ROOM FOR SNOW STOCKPILING, IF NEEDED. ADDITIONAL STONE SHALL BE ADDED OR THE LENGTH SHALL BE INCREASED. IF ICE AND SNOW LIMITS CONSTRUCTION ENTRANCE'S ABILITY TO HOLD SEDIMENTS ON SITE. WINTER STABILIZATION – ALL DISTURBED AREAS NOT INVOLVED IN WINTER CONSTRUCTION SHALL BE AT LEAST TEMPORARILY STABILIZED BY OCTOBER 15. AFTER OCTOBER 15TH, ALL AREAS DISTURBED DURING WINTER CONSTRUCTION SHALL BE STABILIZED DAILY TO PREVENT EXPOSURE FROM RAIN EVENTS AND ACCUMULATION OF SNOWFALL (SEE EXCEPTIONS BELOW), CONTRACTOR SHALL ADD ADDITIONAL STONE. AS NECESSARY, TO PROVIDE STABILIZATION THROUGH WINTER CONSTRUCTION ON ALL AREAS WHERE CONSTRUCTION TRAFFIC IS ANTICIPATED.

EXCEPTIONS:

- HYDROSEEDING AFTER OCTOBER 15TH AND BEFORE APRIL 15TH MUST BE
- STABILIZED WITH STRAW MULCH OR EROSION CONTROL MATTING.* SNOW AND/OR ICE MUST BE REMOVED TO, AT MOST, ONE INCH PRIOR TO APPLYING
- MULCH OR FROSION CONTROL STABILIZATION MATTING. IF NO PRECIPITATION, WITHIN 24 HOURS, IS FORECASTED 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 OPEN UTILITY TRENCHES, REQUIRE STABILIZATION AT THE END OF EACH WORK WEEK.

MAINTENANCE - ALL DISTURBED AREAS SHALL BE MONITORED BY THE CONTRACTOR AND THE ON-SITE PLAN COORDINATOR IN ACCORDANCE WITH THE INSPECTION REQUIREMENT OUTLINED IN THE INDIVIDUAL CONSTRUCTION STORMWATER PERMIT. THE CONTRACTOR AND ON-SITE PLAN COORDINATOR SHALL EVALUATE THE SITE AFTER A THAW OR RAINSTORM. THE CONTRACTOR OR ON-SITE PLAN COORDINATOR SHALL NOTIFY THE ENGINEER IF ANY EROSION CONTROL MEASURES APPEAR TO BE INADEQUATE. THE CONTRACTOR OR ON-SITE PLAN COORDINATOR SHALL IMMEDIATELY (WITHIN THE SAME BUSINESS DAY) IMPLEMENT ANY FURTHER EROSION CONTROL MEASURES SPECIFIED BY THE ENGINEER. THE CONTRACTOR OR ON-SITE PLAN COORDINATOR SHALL ADD MULCH. AS NECESSARY, THROUGHOUT THE WINTER AFTER THAWS OR RAINSTORMS. THE MULCH DEPTH SHALL BE BROUGHT UP TO 2". THE MULCH AND SILT FENCE SHALL BE MAINTAINED UNTIL A PERMANENT GROUND COVER (70% STABILIZATION) IS ESTABLISHED IN THE SPRING. THE SITE SHALL BE REMULCHED AND RESEEDED, IN THE SPRING, AS REQUIRED TO ESTABLISH A VIGOROUS PERMANENT GROUND COVER.

INSPECTION - THE ON-SITE COORDINATOR SHALL BE RESPONSIBLE FOR, AT A MINIMUM, DAILY WRITTEN INSPECTIONS WHILE THE SITE IS DISTURBED OR WEEKLY IF EVERYTHING IS STABILIZED BUT CONSTRUCTION IS ON-GOING. IF, DURING WINTER CONSTRUCTION, EARTH DISTURBANCE ACTIVITIES TEMPORARILY CEASE AND THE SITE HAS BEEN FULLY STABILIZED, INSPECTION AND MONITORING REQUIREMENTS FOR THE ON-SITE COORDINATOR MAY BE REDUCED TO ONCE PER MONTH MINIMUM. ALL INSPECTION SHEETS SHALL BE KEPT ON SITE AND BE AVAILABLE UPON REQUEST.

ON-SITE PLAN COORDINATOR (OSPC) NOTES

- 1. A QUALIFIED PERSON OR PERSONS SHALL BE DESIGNATED AS THE ON-SITE PLAN COORDINATOR (OSPC).
- 2. THE OSPC SHALL BE KNOWLEDGEABLE IN PRINCIPLES AND PRACTICES OF EPSC IMPLEMENTATION AND POSSESS SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORMWATER QUALITY AND TO ASSESS EFFECTIVENESS OF EPSC MEASURES SELECTED TO CONTROL QUALITY OF STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY.
- 3. THE OSPC SHALL BE RESPONSIBLE FOR ON-SITE IMPLEMENTATION OF THIS EPSC PLAN, INCLUDING INSPECTION REPORTS, TURBIDITY MONITORING AND DISCHARGE REPORTING.
- 4. THE OSPC SHALL HAVE AUTHORITY TO STOP AND/OR MODIFY CONSTRUCTION ACTIVITIES AS NECESSARY TO COMPLY WITH THIS EPSC PLAN AND TERMS AND CONDITIONS OF THE PERMIT.
- 5. THE OSPC SHALL BE RESPONSIBLE FOR INSPECTIONS AND REPORTING PER THE PERMIT.
- 6. THE OSPC OR HIS/HER DESIGNEE SHALL BE ON-SITE ON A DAILY BASIS DURING ACTIVE CONSTRUCTION.
- 7. THE OSPC'S CONTACT INFORMATION SHALL BE PROVIDED TO VT DEC PRIOR TO START OF CONSTRUCTION.

HAZELETT STRIP-CASTING CORPORATION

COLCHESTER. VT

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STAMP:

Project:

THE 'H' AT MALLETTS BAY

180 & 166 W. Lakeshore Drive Colchester, Vermont

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Project Overview: "The H"

The vision for "The H" is to establish a unique hospitality destination that attracts visitors to Malletts Bay year-round. This development has been meticulously planned to provide a diverse range of experiences and activities, offering an immersive connection to the waterfront while maintaining a harmonious relationship with the surrounding environment.

The proposed plan includes the following key elements:

• Accommodations:

• Four cottage-style buildings, housing a total of **19 guest rooms**, ranging from studio units to one- and two-bedroom suites.

• Main Building (Project Centerpiece):

- A **48-seat restaurant**, featuring both indoor dining and an outdoor patio on the lower level.
- **Event and meeting space** on the main floor, designed for gatherings, conferences, and community events.
- **Health and wellness amenities** on the upper level, providing guests with access to fitness and relaxation facilities.

• Waterfront Access and Recreation:

- All accommodations and amenities will offer **unobstructed lake views**, direct **waterfront access**, and a designated **lakeside recreational area**.
- Future Expansion:
 - A **single cottage** to the east, with design and planning to be completed at a later stage through a separate approval process.

Design Approach

Our design approach has been guided by a commitment to preserving and enhancing the historic character of the Malletts Bay shoreline district. The project has been carefully crafted to seamlessly integrate with the surrounding environment while providing a welcoming and visually appealing experience for guests and the public alike.

Architectural Considerations:

• All buildings are **two stories in height**, adhering to required height limitations while ensuring a traditional and unobtrusive shoreline aesthetic.

• Thoughtful building placement has been implemented to **preserve lake views**, creating an open and inviting atmosphere.

• A carefully developed **landscaping plan** will enhance the site's visual appeal from both the road and the water, meeting all planning requirements while maintaining natural beauty.

• Lakeside Experience & Outdoor Activities:

• The buildings feature **private lower walkout areas** for guests, offering direct access to the lake.

• A **central lakefront access point** has been designed to serve as a communal gathering area, providing space for seating and various recreational activities.

• Guests will have the opportunity to enjoy a range of **outdoor activities**, including **kayaking**, **paddleboarding**, **pétanque**, **volleyball**, **curling**, **and sailing**.

• Community Gathering Space:

• A **multi-functional communal gathering area** has been designed to overlook the water, seamlessly blending into the natural landscape of the hillside.

• This space will provide a scenic and welcoming environment for social engagement, relaxation, and special events.

Parking & Site Integration

To maintain a pedestrian-friendly and guest-centric environment, parking and related accessory structures have been strategically positioned to minimize visual and functional disruption to the site. These facilities have been designed to integrate efficiently with the **main Hazelett operation**, streamlining parking and maintenance logistics while preserving the overall guest experience.

Conclusion

We believe that this **thoughtfully designed**, **well-planned project** will serve as a valuable addition to Malletts Bay and the broader Colchester community. By blending **modern hospitality offerings with a deep respect for the natural landscape**, "The H" is poised to bring **fresh energy, innovation, and year-round activity** to this iconic waterfront location.

Thank you for your time and consideration. We look forward to your feedback and the opportunity to bring this vision to life.



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PRELIMINARY PLAT REVIEW CRITERIA NARRATIVE The "H" at Malletts Bay

Project Description

The project is a proposed redevelopment of the Hazelett water parcel located at 166 and 180 West Lakeshore Drive, entitled "The H at Mallets Bay". This will be a hospitality project comprised of an Inn with a series of 5 cottages and a total of 20 rooms. In addition, the centerpiece of the project s a main building with a 48-seat restaurant at the main level, event space, and spa facilities. A new bathhouse will be constructed as well to enable beach users to use the facilities without having to go back the cottages/main building. New parking will be constructed across the street at 135 West Lakeshore Drive as part of a Site Plan application for that parcel.

We offer the following description of how the site complies with the Subdivision Review Standards of the Colchester Development Regulations.

Section 9.05-A Required Improvement List

The project features the merging of the lots encompassing 166 and 180 West Lakeshore Drive. A boundary survey of these parcels has been completed and any missing monuments or lot markers will be set.

A complete set of Landscaping Plans and budget has been prepared by T.J. Boyle Associates, LLC. Potable water supply and wastewater disposal will be via new municipal connections.

There are no new roadways proposed as part of the project.

Stormwater management will be done in conjunction with stormwater improvements at 135 Lakeshore Drive which shares the same discharge point.

Section 9.05-B Suitability of Land

The area of land proposed for development is well suited for type of development proposed. There are no wetlands, natural areas, or areas prone to flooding near the proposed building sites. The slopes on the site are conducive to "walk out" buildings that are desirable for this type of project.

Section 9.05-C Lot Layout

There are no new lots proposed as part of the project. The lots serving 166 and 180 West Lakeshore Drive will be merged into a single lot.

Section 9.05-D Building Envelope

The building envelope for the merged lots is defined by the zoning setbacks to the front and side, and the lakeshore setback to the rear. These setbacks are shown on the plans.

Section 9.05-E Monuments and Lot Corners Markers

There are no public streets being created as part of this subdivision. Lot corners created as part of the subdivision shall be marked in accordance with regulations.

Section 9.05-F Energy Conservation

The proposed buildings will be constructed to current Vermont Residential Energy Standards.

Section 9.05-G Water

The proposed project is located in an area served by Colchester Fire District#2 (CFD2). CFD2 has previously indicated there is adequate water capacity to serve the project. A new 4" water line will be tapped from the existing main on West Lakeshore Drive and extended to the main building. Individual service lines for each cottage will be tapped off the 4" line. An additional service will be extended to the proposed bathhouse.

Section 9.05-H Wastewater Disposal

The proposed project is located in an area to be served by the new Mallets Bay sewer project. The site has previously approved plan for an on-site wastewater disposal system accommodating 4,482 gallons/day. It is our understanding that this design flow has been allocated to the property in terms of flows to the municipal sewer. The "H" has been designed to have flows within this original allocation. We have attached a worksheet outlining the project design flows as well as correspondence with Town Public Works staff indicating the that our strategy is acceptable. A State of Vermont Wastewater Disposal System and Potable Water Supply Permit Application will be filed for the project.

The system will include individual sanitary services from each building, flowing to a collection system. The sanitary sewer collection line will flow via gravity to a new pump station. The pump station will pump wastewater to one of the two sewer stubs installed for the property as part of the Mallets Bay sewer project.

Section 9.05-I Site Preservation and Landscaping

The project proposes grading and site improvements located on a steep, northeast-facing slope along the Lake Champlain shoreline in Colchester, VT, part of which is located within the 100' Protected Lakeshore Buffer. The existing vegetation on this slope is a mix of native and invasive species. The proposed finished grades within the lakeshore buffer will not exceed 2:1, and disturbed areas will be stabilized with erosion control measures, seeding and native vegetation. Biodegradable erosion control matting and an appropriate annual cover crop that germinates quickly will provide short-term stabilization and protection from storm events, while a custom seed mix of long-lived, deep-rooted species formulated for the sandy, north-facing slope will provide more permanent stabilization once established. Woody shrub and tree species have been carefully selected to reflect the naturally occurring plant communities found along Lake Champlain and nearby forests. The newly rebuilt slope is designed with ecology, reduced maintenance and aesthetics in mind. Matrix-style plantings comprised of native ferns, sedges, and groundcovers are proposed to surround the north foundations and courtyards. These dense, mixed plantings mimic the way plants grow together naturally, fomenting a

KREBS & LANSING

The H at Mallets Bay Preliminary Plat Narrative March 3, 2025

resilient plant community that requires less weeding, watering, and mulching than traditional landscaping installations. Larger trees and shrubs are also proposed in appropriate locations on the slope, replacing the predominantly invasive black locust that currently exists (see https://vtinvasives.org/invasive/black-locust). A survey of the existing trees with greater than 1" caliper has been conducted, and a more thorough evaluation of the various species will be conducted later in the spring.

A complete set of landscaping plans and details has been prepared by T.J. Boyle Associates, LLC and is attached.

Section 9.05-J Streets

No new streets are proposed with this project. The proposed project will be accessed from curb cuts located on West Lakeshore Drive. In order to reduce impervious surface and impacts to the existing slopes on the site, a narrow, one-way driveway is proposed. The entrance will be on the south end of the site, and the exit will be on the north end. Both curb cuts will align with existing curb cuts serving the Hazelett property across the street. Each curb cut will be approximately 45' in length, with a 30' throat. This is a massive reduction in the existing curb cuts on the property. There are currently three curb cuts with a total length of approximately 270 feet. Five parallel parking spaces are proposed in front of the main building. These will be primarily for check-in and drop off purposes, with the main parking areas being located across the road.

Access to south marina area will be maintained via a reconfigured driveway. This driveway will be 2-way and have room for a turnaround, and 6 parking spaces. The existing driveway to the recreation area to the north of the site will be removed and replaced with a pedestrian path.

Section 9.05-K Pedestrian Access

Pedestrian routes are an integral part of the site design. There is a sidewalk along the front of the buildings. Access to the waterfront is provided via a central stair and path near the main building. An additional path/stair on the north end of the site will replace the existing paved driveway at that end. A gravel walkway along the base of the slop will provide pedestrian connectivity through the site. There is a net reduction of impervious surface in the Shoreland protection zone.

The parking area at 135 Lakeshore Drive will connect to the site via a sidewalk from the parking lot and a cross-walk at West Lakeshore Drive. A flashing beacon is proposed for pedestrian safety.

The design team met with Amanda Clayton, the Town Engineer at the time, regarding the request at Sketch Plan for "A 5-ft permanent easement for future sidewalk along West Lakeshore Drive and a 10-ft temporary construction easement adjacent to the permanent easement shall be granted to the Town of Colchester". We explained that due to the limited space for development on the lot, easements of this width would actually extend well into the travel way of our design plan. It was determined that any future sidewalk along the west side of West Lakeshore Drive could be located within the Town right of way, and that only the construction easement would be needed.

The H at Mallets Bay Preliminary Plat Narrative March 3, 2025

Section 9.05-L Utilities

There are no public utilities proposed with this subdivision. Utility services to the new buildings will be underground.

Section 9.05-M Traffic

A Traffic Impact Analysis has been prepared by Vanasse Hangen Brustlin (VHB) and is attached.

Section 9.05-N Stormwater & Erosion Control

The project will greater than 5,000 square feet of impervious surface to a common plan of development having greater than one acre of impervious surface. Therefore, a State of Vermont Stormwater Discharge Permit (coverage under General Permit 3-9050) will be required. We have prepared a stormwater narrative and supporting modeling and calculations, which are attached.

Erosion prevention and sediment control measures will be installed during construction in accordance with the Vermotn Standards for Erosion Prevention and Sediment Control. Temporary erosion prevention and sediment control practices will include silt fence, rolled erosion control products, limiting disturbed areas, and stabilized construction entrances. Because over one acre of ground disturbance is proposed, coverage under State of Vermont General Permit 3-9020 will be required.

Section 9.05-O Excavation and Grading

No construction of public improvements is proposed as part of this subdivision. Excavation and grading related to construction of the buildings, driveways, and utilities will be conducted in the locations shown on the plan.

Section 9.05-P Outdoor Lighting

Site lighting is shown on the plans. All proposed lighting is downshielded and in compliance with Town regulations.

Section 9.05-Q Municipal Facilities & Recreation Areas

No additional recreation areas are required or proposed.

Section 9.05-R Governmental Services

The driveway for the proposed buildings is shown on the plans. E-911 address will be displayed on the buildings. The site is readily accessible from and existing municipal road.

Section 9.05-S Aesthetics

The project design provides appealing architecture and landscaping while maintaining lake views from the existing road.

The H at Mallets Bay Preliminary Plat Narrative March 3, 2025

Section 9.05-T Town Plan

No additional recreation areas are required or proposed.

Section 9.05-U Owners' Association

The project will remain under the control of a single owner.



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HAZELETT INN (THE "H") PARKING WORKSHEET

Values taken from Colchester Regulations Section O, Table 10-2

PROPOSED PROJECT

RESTAURANT

- 22 Spaces/1,000 SF GFA
- Presume 1,800 SF GFA
- 22 * 1.8 = 40 spaces

Meeting Space (Use "Community Center")

- 0.33 Spaces/Permitted occupancy
- 50 occupants * 0.33 = 17 spaces

Spa (Use "Personal or Business Service")

- 2 spaces/treatment station
- 1 space = 2 spaces

Guest Rooms (Use "Bed and Breakfast)

- 1.5 per guest bedroom plus 2 spaces
- Presume 20 rooms
- (20 * 1.5) + 2 = 32 spaces

TOTAL SPACES REQUIRED FOR NEW PROJECT

- 40 + 17 + 2 + 32 = <u>91 spaces</u>
- Spaces provided = <u>76 spaces</u>

EXISTING SITE

- 0.5 spaces/1000 GFA + 1 space/employee
- 150 employees = 150 spaces
- (84,000 s.f./1000) * 0.5 = 42 spaces
- Total required spaces = <u>192 spaces</u>
- Total existing spaces = <u>210 spaces</u>

FULL BUILDOUT

- Required = 192 + 94 = <u>286 spaces</u>
- Proposed = 210+ 762 = <u>286 spaces</u>

The H Planting Schedule

Prepared by T.J. Boyle Associates, LLC

Planting Schedule: Trees

	Trees (deciduous)									
	Quar	ntity								
	Inside Lake Outside Lake		Code	Scientific Name	Common Name	Size	Total Cal. (in)	Unit Price	Subtotal	
	Selback Selback				011	0	A 005	* 005	Installed	
	1	1	AR BP	ACER rubrum BETULA populifolia 'Whitespire'	Red Maple Grav Birch	3" cal	3	\$ 295 \$ 317	\$ 295 \$ 3.487	\$ 885.00 \$ 10.461.00
	2		SN	SALIX nigra	Black Willow	10'	4	\$ 192	\$ 384	\$ 1,152.00
		3	NS	NYSSA sylvatica	Tupelo	2" cal	0	\$ 266	\$ 798	\$ 2,394.00
		5 OV		OSTRYA virginiana	American Hophornbeam	2" cal	0	\$ 207 \$ 373	\$ 1,035 \$ 373	\$ 3,105.00 \$ 1,110.00
	1	5	TA	TILIA americana	Basswood	3"	3	\$ 373 \$ 295	\$	\$ 5,310.00
		7 GT		GLEDITSIA tricanthos var. inermis 'Shademaster'	Shademaster Thornless Honeylocust	3" cal	0	\$ 317	\$ 2,219	\$ 6,657.00
		4	BN	BETULA nigra 'Cully'	Cully' River Birch	3" cal	0	\$ 317	\$ 1,268	\$ 3,804.00
		4	AF CeO	CELTIS occidentalis	Autumn Blaze Hybrid Maple	3" cal	0	\$ 295 \$ 338	\$ 1,180 \$ 676	\$ 3,540.00 \$ 2,028.00
	2	7	ASGM	ACER saccharum 'Green Mountain'	Green Mountain Sugar Maple	3" cal	6	\$ 317	\$ 2,853	\$ 8,559.00
	1		AP	ACER pensylvanicum	Striped Maple	2" cal	2	\$ 202	\$ 202	\$ 606.00
	6	4	PV		Chokecherry	4" Cal	24	\$ 371	\$ 2,226	\$ 6,678.00 \$ 6,272.00
Total atv:	36	4	CCG		Crusader momiess Cockspur Hawthom	2	24 72	φ 177		\$ 56.298.00
1.1.1										· · · · · · · · · · · · · · · · · · ·
	Evergreen trees	and shrubs	1	Γ	I	1				
	Quar									
	Inside Lake Setback	Outside Lake Setback	Code	Scientific Name	Common Name	Size	Total Cal. "	Unit Price	Subtotal	
		10	ΔB	ABIES balsamea	Balsam Fir	6'		\$ 165	\$ 1,650	Installed
		2	PS	PINUS strobus	White Pine	6'		\$ 165	\$ 330	\$ 4,950.00 \$ 990.00
	1	1	JV	JUNIPERUS virginiana	Eastern Red Cedar	6'	1	\$ 165	\$ 330	\$ 990.00
	6	7	TO	THUJA occidentalis	White Cedar	10'	12	\$ 389	\$ 2,334	\$ 7,002.00
		8	TxH	TAXUS x 'Hicksii'	Hick's Yew	0 30"		\$ 200 \$ 59	\$ 1,002 \$ 470	\$ 5,586.00 \$ 1.410.00
		16	PJM	RHODODENDRON 'PJM Elite'	PJM Rhododendron	36"		\$ 84	\$ 1,348	\$ 4,044.00
	6	3	IG	ILEX glabra 'Shamrock'	Inkberry Holly	#7		\$ 82	\$ 738	\$ 2,214.00
		4	TOS	THUJA occidentalis 'Smaragd'	Emerald Green Arborvitae	8' 30"		\$ 266 \$ 40	\$ 1,064 \$ 245	\$ 3,192.00 \$ 705.00
		2	TCP	TSUGA canadensis 'Pendula'	Dwarf Weeping Hemlock	5-6' B&B		\$ 49 \$ 595	\$	\$ 735.00 \$ 3,570.00
Total qty:	13	58							Subtotal	\$ 34,683.00
		_								
Planting	Schedule:	Shrubs and	d Perer	nnials						
	Shrubs and Woo	ody Groundcov	ers		1					
	Inside Lake	Outside Lake								
	Setback	Setback	Code	Scientific Name	Common Name	Size	Total Cal. "	Unit Price	Subtotal	Installed
		15	AU	ARCTYSTAPHYLOS uva-ursi	Bearberry	6" #1		\$ 14	\$ 210	\$ 630.00
	61	14	AM	ARONIA melanocarpa	Black Chokeberry	#10		\$ 66	\$ 4,950	\$ 14,850.00
	21	4	CA	CORYLUS americana	American Hazelnut	36" #5		\$ 62 \$ 110	\$ 1,550 \$ 2,212	\$ 4,650.00
	18		SC	SALIX exigual ssp. Intendi SAMBUCUS canadensis	Black Elderberry	#3		\$ 119	\$ 3,213 \$ 558	\$ 9,639.00 \$ 1.674.00
	92		VAN	VACCINIUM angustifolium 'Brunswick'	Low Sweet Blueberry	#2		\$ 21	\$ 1,932	\$ 5,796.00
	29	14	DL	DIERVILLA lonicera	Bush Honeysuckle	#5		\$ 48	\$ 2,064	\$ 6,192.00
	17	11	SA HV	SYMPHORICARPOS albus	Snowberry Witch-hazel	#2 5-6' B&B		\$ 31 \$ 195	\$ 868 \$ 585	\$ 2,604.00 \$ 1,755.00
	5	15	HA	HYDRANGEA arborescens	Smooth Hydrangea	#5		\$ 35	\$ 700	\$ 2,100.00
	10	7	FG	FOTHERGILLA gardenii	Dwarf Witch-Alder	4-5' B&B		\$ 300	\$ 5,100	\$ 15,300.00
	16	5	VA		Maple-leaved Viburnum	#3		\$ 49	\$ 1,029	\$ 3,087.00
	1	2	SV	SYRINGA vulgaris 'Monge'	Dark Purple Common Lilac	#5 6' B&B		\$ 70 \$ 245	\$ 030 \$ 245	\$ 1,890.00 \$ 735.00
		19	STO	SPIREA tomentosa	Steeplebush	2 Gal		\$ 24	\$ 456	\$ 1,368.00
		19	PF	POTENTILLA fruticosa 'Pink Beauty'	Shrubby Cinquefoil	#5		\$ 39	\$ 741	\$ 2,223.00
	16	6	PO	PHYSOCARPUS opulifolius	Common Ninebark	24" #5		\$ 28	\$ 168 \$ 2.067	\$ 504.00 \$ 8.001.00
Total qty:	321	160	JUAP			#1		Ψ 09	Subtotal	\$ 83,898.00
, , ,	<u> </u>									
	Shade Perennia	Matrix (S.P.M.)			1					
	Inside Lake	Outside Lake				1				
	Setback	Setback	Code	Scientific Name	Common Name	Size	Total Cal. "	Unit Price	Subtotal	Installed
	52	259	A	CAREX pensylvanica	Pennsylvania Sedge	2 qt		14.00	\$ 4,354	\$ 11,755.80
	20	174	В	ATHYRIUM felix-femina	Lady Fern	2 qt		14.00	\$ 2,716	\$ 7,333.20
	26 24	144 149	C D	DRYOPTERIS marginalis	Marginal Wood Fern Broad-leaved sedge	2 Qt		17.00	\$ 2,890 \$ 2.0/1	\$ 7,803.00 \$ 7,040.70
	6	70	E	CAREX plantaginea	Seersucker sedge	2 Qt		14.00	\$ 1,064	\$ 2,872.80
				CAULOPHYLLUM thalictroides	Blue Cohosh					
		<u> </u>	IVI	HELENIUM autumnale	Sneezeweed	1		l		
					_					
	Other Perennials	5				0			0.11.1.1	
	Qty.	26	Code		Common Name	Size		Unit Price	Subtotal	Installed \$ 772.20
		34	AC	ASARUM canadense	Canada Wild Ginger	4" Pot		6.00	\$ 204	\$ 550.80
		28	AMT	ACHILLEA millefolium 'Salmon Beauty'	Salmon Beauty Yarrow	#2		15.00	\$ 420 \$ 2000	\$ 1,134.00 • 211.07
		43	FGE	FESTUCA glauca 'Eliiah Blue'	Blue Fescue	#2		12.50	ψ 238 \$ 516	φ 641.25 \$ 1.393.20
		118	NWL	NEPETA x faasenii ' Walker's Low'	Walker's Low Catmint	#2		13.75	\$ 1,623	\$ 4,380.75
Total at	^	7	СВ	CALAMAGROSTIS brachytricha	Korean Feather Reed Grass	#1		\$ 12	\$ 84	\$ 226.80
i otal qty:	U	2/5	l	1	1	1		1	Subiotal	φ 9,099.00
	Seed Mixes									
	Qty.		Code	Scientific Name	Application Rate	Unit Size		Price/unit	Subtotal	Installed
	3					1000 sf		70.00	φ 420 ¢ 242	ψ 500.00
	3			Shortgrass Woods Edge or Savanna Seed Mix	10 lbs per acre	coverage		73.00	ъ 219	\$ 300.00
	14			VT Native Custom Steep Slope Erosion Control Mix	60 lbs/ acre	Pound		\$ 17	\$ 238	
									0.0.0	\$ 300.00
						1			Subtotal	۵,100.00 ک

TOTAL \$ 244,533.10

\$

20,000.00

Green Roof Allowance



Project Notes

The H at Malletts Bay Post Development Stormwater Model

Summary for Subcatchment 5S: H-Post1



Summary for Pond 15P: Gravel Wet#1

Inflow Area	=	4.020 ac,	0.00% Impervious, Inflo	w <mark>pepth = 0.5</mark> 6" for WQv event
Inflow	=	3.19 cfs @	12.04 hrs, Volume=	0.189 af
Outflow	=	0.13 cfs @	14.13 hrs, Volume=	0.189 af, Atten= 96%, Lag= 125.1 min
Primary	=	0.13 cfs @	14.13 hrs, Volume=	0.189 af

Routing by Stor-Ind method, Time Span= 5.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 125.67' Surf.Area= 5,280 sf Storage= 3,258 cf Peak Elev= 127.23' @ 14.13 hrs Surf.Area= 9,840 sf Storage= 7,854 cf (4,596 cf above start)

Plug-Flow detention time= 771.0 min calculated for 0.114 af (60% of inflow) Center-of-Mass det. time= 416.7 min (1,243.3 - 826.7)

Volume	Inve	ert Ava	ail.Storage	Storage	Description			
#1	122.3	33'	3,168 cf	Custom	Stage Data (Pr Overall x 40.0%	rismatic)Listed below (Recalc) % Voids		
#2	125.3	33'	177 cf	Custom	Stage Data (Pr	r ismatic) Listed below (Recalc) % Voids		
#3	126.0)0'	14,045 cf	Custom	Stage Data (Pr	rismatic)Listed below (Recalc)		
			17,390 cf	Total Av	ailable Storage	· · · · ·		
Elevatio (fee	n t)	Surf.Area (sq-ft)	Inc (cubi	c.Store c-feet)	Cum.Store (cubic-feet)	50% of WQv in stone voids		
122.3	3	2,640		0	0			
125.3	3	2,640		7,920	7,920			
Elevatio (fee	n t)	Surf.Area	Inc (cubi	c.Store	Cum.Store			
125.3	3	2 640	(04.5)	0	0			
126.0	0	2,640		1,769	1,769			
Elevatio (fee	n t)	Surf.Area (sq-ft)	Inc (cubi	c.Store c-feet)	Cum.Store (cubic-feet)			
126.0	0	2,640		0	0			
127.0	0	4,354		3,497	3,497			
128.0 129.0	0	5,260 6 222		4,807 5 741	8,304 14 045			
Device	Routing	0,222	nvert Outl	et Device	s			
#1	Primary	12	5.67' 15.0 L= 2 Inlet n= 0	8 Round 20.0' CPF 7 Outlet In 2.013 Cor	Culvert P, projecting, no nvert= 125.67' / rugated PE, smo	headwall, Ke= 0.900 125.33' S= 0.0170 '/' Cc= 0.900 ooth interior, Elow Area= 1.23 sf		
#2	Device 1	12	5.67' 2.0''	" 2.0" Vert. Orifice/Grate C= 0.600				
#3	Device 1	12	7.30' 30.0	" W x 6.0	" H Vert. Orific	e/Grate C= 0.600		
Drimon	Primery QutFlow Max-0.12 of @ 14.12 hrs. UW-127.22 (Free Discharge)							

Primary OutFlow Max=0.13 cfs @ 14.13 hrs HW=127.23' (Free Discharge) —1=Culvert (Passes 0.13 cfs of 4.50 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.13 cfs @ 5.85 fps)

-3=Orifice/Grate (Controls 0.00 cfs)

Pond 15P: Gravel Wet#1



Summary for Pond 263P: Forebay

Volume	Invert	Avai	I.Storage	Storage	e Description	
#1	123.00'		1,096 cf	Custor	m Stage Data (Pi	rismatic)Listed below (Recalc)
Elevation (feet)	Sur	f.Area (sq-ft)	Inc (cubi	.Store c-feet)	Cum.Store (cubic-feet)	
123.00 124.00 125.00		96 244 449		0 170 347	0 170 517	
126.00		710		580	1,096	
						10% of WQv in forebay



Project Notes

The H at Malletts Bay Post Development Stormwater Model

Summary for Subcatchment 11S: H-Post1



Summary for Subcatchment 14S: H-Pre1

Runoff = 7.61 cfs @ 12.17 hrs, Volume= 0.632 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 25 year Rainfall=3.81"

Ar	ea ((ac)	С	N Des	cription		
*	4.	020	8	0 wat	ershed are	a	
	4.	020		100	.00% Perv	ious Area	
(mi	Tc n)	Ler (f	ngth eet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	/ Description
23.5 1,015 0.0187 0.72 Lag/CN Method, lag CN							
						Subcatcł _{Hydro}	hment 14S: H-Pre1 ^{ograph}
	1	\square					
	8-	7.6	l cfs				
	-			•	 -		Type II 24-hr
	7-7						25 year Rainfall=3.81"
	6-						Runoff Area=4.020 ac
	5	/					Runoff Volume=0.632 af
(cfs)	Ĵ						Runoff Depth=1.89"
Flow	4						Flow Length=1,015'
	3-	/				- 	Slope=0.0187 '/'
	-	/			-		Tc=23.5 min
	2-						CN=80
	1						
				IIIIm			

Summary for Pond 12P: Gravel Wet#1

Inflow Are	a =	4.020 ac,	0.00% Impervious, Inflow	Depth > 2.84" for 25 year event
Inflow	=	14.34 cfs @	12.06 hrs, Volume=	0.950 af
Outflow	=	7.22 cfs @	12.22 hrs, Volume=	0.950 af, Atten= 50%, Lag= 9.8 min
Primary	=	7.22 cfs @	12.22 hrs, Volume=	0.950 af

Routing by Stor-Ind method, Time Span= 5.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 125.67' Surf.Area= 5,280 sf Storage= 3,258 cf Peak Elev= 128.92' @ 12.22 hrs Surf.Area= 11,423 sf Storage= 16,883 cf (13,625 cf above start)

Plug-Flow detention time= 228.6 min calculated for 0.875 af (92% of inflow) Center-of-Mass det. time= 158.5 min (959.6 - 801.2)

Volume	Invert	Avail.Sto	rage	Storage	Description		
#1	122.33'	3,1	68 cf	Custom 7.920 cf	Stage Data (P Overall x 40.09	rismatic) Listed below (Recalc) % Voids	
#2	125.33'	1	77 cf	Custom 1.769 cf	Stage Data (P Overall x 10.0°	rismatic) Listed below (Recalc) % Voids	
#3	126.00'	14,04	45 cf	Custom	Stage Data (P	rismatic)Listed below (Recalc)	
		17,39	90 cf	Total Av	ailable Storage		
Elevation (feet)	Sı	ırf.Area (sq-ft)	Inc. (cubic	Store -feet)	Cum.Store (cubic-feet)		
122.33		2,640		0	0		
125.33		2,640	-	7,920	7,920		
Elevation	Su	ırf.Area	Inc.	Store	Cum.Store		
(feet)		(sq-ft)	(cubic	-feet)	(cubic-feet)		
125.33		2,640		0	0		
126.00		2,640		1,769	1,769		
Elevation	Su	ırf.Area	Inc.	Store	Cum.Store		
(feet)		(sq-ft)	(cubic	-feet)	(cubic-feet)		
126.00		2,640		0	0		
127.00		4,354		3,497	3,497		
128.00		5,260	4	4,807	8,304		
129.00		6,222	ł	5,741	14,045		
Device R	outing	Invert	Outle	t Devices	3		
#1 P	rimary	125.67'	15.0"	Round	Culvert		
			L= 20).0' CPF	, projecting, no	headwall, Ke= 0.900	
			Inlet /	Outlet Ir	1/ 'vert= 125.67	125.33' S= 0.0170 '/' Cc= 0.900	
			n= 0.	013 Cori	rugated PE, sm	ooth interior, Flow Area= 1.23 sf	
#2 D	evice 1	125.67	2.0"	Vert. Ori	fice/Grate C=	0.600	
#3 D	evice 1	127.30'	30.0"	W X 6.0	H vert. Orific	e/Grate C= 0.600	
Primary OutFlow Max=7.19 cfs @ 12.22 hrs HW=128.91' (Free Discharge)							

1=Culvert (Passes 7.19 cfs of 7.54 cfs potential flow) **2=Orifice/Grate** (Orifice Controls 0.19 cfs @ 8.55 fps)

-3=Orifice/Grate (Orifice Controls 7.00 cfs @ 5.60 fps)

Pond 12P: Gravel Wet#1


Attachment 1: Narrative, Location Map, and Soils Map The "H" at Mallets Bay

1. Introduction

Krebs and Lansing Consulting Engineers Inc. (K&L) are writing on behalf of Summit Properties to apply for a State Stormwater Discharge Permit pursuant to General Permit 3-9050 for the H at Mallets Bay project located on West Lakeshore Drive in Colchester.

2. Project Description

The applicant proposes a redevelopment of the Hazelett waterfront parcels located at 166 and 180 West Lakeshore Drive, entitled "The H at Mallets Bay". This will be a hospitality project comprised of an Inn with a series of 5 cottages and a total of 20 rooms. In addition, the centerpiece of the project s a main building with a 48-seat restaurant at the main level, event space, and spa facilities. A new bathhouse will be constructed as well to enable beach users to use the facilities without having to go back the cottages/main building. New parking will be constructed across the street at 135 West Lakeshore Drive.

Stormwater treatment for the site will involve site balancing and a new Gravel Wetland #1 and a Simple Disconnection. A pre-treatment forebay will be used in conjunction with Gravel Wetland #1.

3. Existing Condition

The existing site at 166 and 180 West Lakeshore Drive is the site of a demolished hotel. There is a large curb cut along West Lakeshore Drive and existing paved parking. A driveway to west serves as access to a small marina. A driveway to the east serves as access to the waterfront from Hazelett employees.

The site of the proposed parking and Gravel Wetland #1 is 135 West Lakeshore Drive. This site contains the existing Hazelett manufacturing facility and associated drives and parking

Existing soil types on this portion of both sites are Belgrade and Eldridge soils. These soils are classified as type D by the U.S. Soil Conservation Service, which indicates a high degree of runoff and low infiltrative capacity.

4. Existing Stormwater System

The 166/180 West Lakeshore Drive site has no existing stormwater infrastructure other than an existing municipal storm drain that outlets on the westerly side of the property.

The 135 West Lakeshore Drive site is divided into two main watersheds. The southeastern portion of the site drains to a series of catch basins and enclosed piping prior to being directed to an existing wet pond. The northwest portion of the site drains to catch basins and piping that discharge directly to the drainage swale along West Lakeshore Drive. This swale crosses West Lakeshore Drive and discharges directly to Lake Champlain via an existing culvert.

5. Proposed Stormwater System:

The proposed stormwater collection, treatment, and detention system will site balancing and a gravel wetland, along with a simple disconnection for treatment.

The 166 and 180 West Lakeshore Drive site features a relatively steep bank down to a waterfront area. All of the waterfront is in a shoreland protection zone. To avoid disturbance associated with a large-scale stormwater management practice in the lakeshore protection area, site balancing of existing impervious surface at the 180 West Lakeshore Drive site is proposed. The following is a summary of the proposed treatment:

- Impervious area at 166 and 180 W. Lakeshore Drive = 0.66 acres
- New Impervious at 135 W. Lakeshore Drive = 0.60 acres
- Total required area to be treated = $\underline{1.26 \text{ acres}}$
- Area of total impervious area to be treated via Gravel Wetland #1 = 2.17 acres.

Therefore, the proposed treatment exceeds what is required.

The treatment will be provided by Gravel Wetland #1. Runoff will be directed to the gravel wetland via a series of catch basins and enclosed drainage. The existing pipes outleting directly the West Lakeshore Drive swale will be intercepted with new structures and pipes to direct those flows to the gravel wetland. lPre-treatment will occur in a forebay. The gravel wetland will discharge via a controlled outlet structure and stabilized outfall.

In addition to the gravel wetland, the meandering path along the base of the slope will sheet drain across vegetated terrain in accordance with a Simple Disconnection.

- a) Description of Impervious Area: The proposed permitted area of impervious surface is 2.17 acres. All of this has been treated as new impervious surface. The new impervious surface is from building roofs, paved roads, driveways, parking, and concrete sidewalks and pads.
- b) Receiving Body: S/N001: Lake Champlain.
- c) Fish Habitat Designation for Receiving Water: Warm
- d) Description of compliance with each of the treatment standards in the 2017 VSMM including the treatment practices or waivers used to meet each of the following standards:
 - i) Post-Construction Soil Depth and Quality Standard:
 - This standard will be met via two options outlined in the VSMM.
 - Option 1: Areas outside of construction will be left undisturbed and protected from compaction during construction. This option will apply only to the far westerly portion of the site.
 - Option 2: Remove and stockpile existing topsoil during construction. On site soil testing indicates and existing sandy loam topsoil layer on the site ranging from 7-13 inches in depth. Given that much of the finish site

> will be covered in building or paving, there will be an excess of existing topsoil to re store other disturbed areas such as setbacks, vegetated islands, swales, and side-slopes. Compost will be incorporated into the existing topsoil stockpile if needed to achieve 4% organic content.

ii) Groundwater Recharge Standard:

The Groundwater Recharge standard is waived because all of the soils on-site are Type D.

iii) Water Quality Treatment Standard (WQv):

S/N001: WQ_V will be met for the use of Gravel Wetlands #1. The stone voids in the gravel wetland will store 50% of the WQv draining to each wetland. The remaining 50% WQv is provided by extended detention using small diameter orifices to release the remaining WQv over a 24- hour period. Pre-treatment is provided by a forebay. Additional WQv is provided via Simple Disconnection of the meandering path closest to the lakeshore.

iv) Channel Protection Standard (CPv):

S/N001: The CPv standard is waived because the site discharges directly to a receiving water with a drainage area of over 10 square miles.

v) Overbank Flood Protection Standard (Q_{P10}):

S/N002: The Overbank Flood Protection Standard is waived because the site discharges directly to a receiving water with a drainage area of over 10 square miles.

vi) Extreme Flood Protection Standard (Q_{P100}):

S/N002: The Extreme Flood Protection Standard is waived because the site discharges directly to a receiving water with a drainage area of over 10 square miles.

The following items are attached for review:

- Complete NOI form
- Attachment 1: Narrative: Narrative, Location Map, and Soils Map.
- Attachment 2: Workbooks: STP Selection Tool and Standards Compliance Workbook
- Attachment 3: Worksheets: STP and waiver worksheets, grouped by discharge point
- Attachment 4: Modeling: Runoff modeling and calculations demonstrating compliance with the applicable treatment standards.

- Attachment 5: Plans: Pertinent plan sheets with all required information outlined in Part 7 of the Application Requirements for Operational Permit Document.
- **Payment** in the amount of <u>\$2106.20</u> to "State of Vermont".

Location Map

[Insert project specific location map here. You may download topographic map from the <u>Natural Resource</u> <u>Atlas</u>. Please show the site outline, the location of the discharge point(s) and receiving waters. The scale of the location map should be between 1:20,000 and 1:40,000.]

See Attached Location Map.

Soils Map

[Insert project specific soils map here. Soils information can be found at the <u>Web Soil Survey</u> website. Hydrologic Soil Groups— "HSGs" shall be overlaid with site outline. Soils information can also be provided as data layer on an existing or proposed condition plan sheet (if included as a data layer on one of the plan sheets please indicate that here]

See Attached Soils Map.





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THIS MAP IS NOT TO BE USED FOR NAVIGATION



USDA

MA	P LEGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AO) Spoil Area	The soil surveys that comprise your AOI were mapped at 1:15,800.
Soils Soil Map Unit Polyge Soil Map Unit Polyge Soil Map Unit Lines Soil Map Unit Points Special Point Features Blowout Borrow Pit Clay Spot Closed Depression Gravel Pit	 ✓ Stony Spot ✓ Very Stony Spot ✓ Wet Spot ✓ Other ✓ Other ✓ Special Line Features ✓ Streams and Canals Transportation ← Rails ✓ Interstate Highways ✓ US Routes 	 Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of so line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detaile scale. Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Maps from the Web Soil Survey are based on the Web Mercator
 Gravelly Spot Landfill Lava Flow Marsh or swamp Mine or Quarry Miscellaneous Wate Perennial Water 	Major Roads Local Roads Background Aerial Photography	 projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as t Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data of the version date(s) listed below. Soil Survey Area: Chittenden County, Vermont Survey Area Data: Version 28, Aug 28, 2024 Soil map units are labeled (as space allows) for map scales
 Rock Outcrop Saline Spot Sandy Spot Severely Eroded Sp Sinkhole Slide or Slip Setia Spat 	ot	1:50,000 or larger. Date(s) aerial images were photographed: Jun 18, 2020—Ju 20, 2020 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Мар	Unit	Legend
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Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI					
AdA	Adams and Windsor loamy sands, 0 to 5 percent slopes	21.3	42.8%					
BIA	Belgrade and Eldridge soils, 0 to 3 percent slopes	12.3	24.7%					
DdA	Duane and Deerfield soils, 0 to 5 percent slopes	12.4	24.8%					
ScA	Scantic silt loam, 0 to 2 percent slopes	0.6	1.1%					
TeE	Terrace escarpments, silty and clayey	1.4	2.9%					
W	Water	1.9	3.8%					
Totals for Area of Interest		49.9	100.0%					

General Discharge Point	Information					
	Зау					
Discharge poir	nt serial numbe	r (e.g. S/N 001)				
	Name of r	eceiving water		Lake Champlain	1	
Latitude (decimal d	legrees to five (decimal places)		44.54664		
Longitude (decimal d	legrees to five (decimal places)		-73.21928		
Precipitation Data	* Preciptatior	n values shall be	obtained from	NOAA Atlas 14		
Storm	WO Storm	1 vr. 24 hr	10 vr. 24 hr	100 vr. 24 hr	I	
Precipitation (inches)	1.00	1.87	3.19	4.76	l	
Drainage Area Information	วท					
Pre Development Land U	se (acres)	<u>. </u>			<u>.</u>	-
Landuse	A	В	C	D	Total	
Grass	0.000	0.000	0.000	2.995	2.995	
Meadow	0.000	0.000	0.000	0.000	0.000	
Woods	0.000	0.000	0.000	0.000	0.000	
Existing Impervious	0.000	0.000	0.000	1.025	1.025	
Impervious previously	y authorized un	ider 2002 VSMN	/ (not included	in calculations)	0.000	
			Tota	al Pre Site Area	4.020	
Post Dovelonment Land	Leo (peres)					0/
		R			Total	» 1
Grass	0,000	0.000	0.000	1 850	1.850	
Meadow	0.000	0.000	0.000	0.000	0.000	
Woods	0.000	0.000	0.000	0.000	0.000	1
New Impervious	0.000	0.000	0.000	1.145	1.145	28.5%
Existing for Permit						
Coverage (Treated to New	0.000	0.000	0.000	1.025	1.025	25.5%
Standards)						
-		Existing Imper	vious Not for Pe	ermit Coverage	0.000	0.0%
			Redevelor	ped Impervious	0.000	0.0%
	Imperv	ious previously	authorized und	er 2002 VSMM	0.000	1
				Total Site Area	4.020	1
		Total Ir	monutious for P	ormit Coverage	2 170	1
				and Impervious	0.000	0.0%
	Red	lucad Existing In	net neux	edevelopment)	0.000	0.0%
	neu	uteu Existing in		euevelopment	0.000	0.070
Information for Calculati	ng T _c by the			Average		
Watershed Lag Method				Catchment	Hydraulic	
				Slope, Y (%)	Length, I (ft)	-
		Pre	e Development	1.87	1015.00	
		Pos	t Development	1.98	960.00	

Runoff Calculations 1 vr. 24-hr 10 vr. 24-hr 100 vr. 24-hr										
Predevo	elopment runof	f volume (ac-ft)	0.2616	0.6006	1.0564					
Pre-routed, post deve	elopment runof	f volume (ac-ft)	0.3723	0.7498	1.2319					
	510p	, , , , , , , , , , , , , , , , , , ,		••••		i I				
Tier 1/Runoff Reduction	Practices									
List all Tier 1 practices below v	with the associate	d treatment volu	me (T $_{v}$). The T $_{v}$, will be applied to	o all treatment stu	andards,				
except for Green Roofs, which	except for Green Roofs, which do not receive recharge or water quality credit. Please include the appropriate STP									
worksheet(s) with the applicat	tion.				-					
Practice	T_v (ac-ft)	Prac	tice	T_v (ac-ft)						
Simple Disconnection	0.003									
Runoff Reduction Calcul	ations									
Standard	Re	WQ	СР	Q _{P10}	Q _{P100}	_				
T _v Required (ac-ft)	0.0000	0.1795	0.2188	0.2989	0.3549					
T_v Provided (ac-ft)	0.0029	0.0029	0.0029	0.0029	0.0029					
T _v Remaining (ac-ft)	0.0000	0.1766	0.2159	0.2960	0.3520					
Standard met with HCM?	n/a	No	No	No	No					
						<u>-</u>				
Post-Development CN	n/a	95	92	91	90					
CN _{adj}	n/a	94	92	91	90					
Pre-Development CN	n/a	n/a	87	86	85					
						·				
Groundwater Recharge	Standard (Re)									
Standard Applicable?		Reason recharg	ge not required		Soile					
Stallual a Applicable :	V Yes V NO	(if f	No is selected):		5 20115					
Re _v	0.0000									
Standard met with Tier 1	n/a									
Practices?										
Recharge Notes:										

Water Quality Treatmen	t Standard (W	(Q)		
	(ac-ft)		A	Apply Reduction?
WQ _v - New & Existing	0.1795	% Net Reduction	0.0%	● No ○ Yes
WQ _{v -} Redevelopment	0.0000	% Removed Existing Impervious (Redevelopment)	0.0%	● No ○ Yes
Total WQ _v	0.1795			
WQ _v met with Tier 1	0.0029	Is all imperv	ious treated by disconnection?	 No Yes (WQv met)
WQ_v to be met with Tier 2				C
and/or Tier 3 practices	0.1766			
			WO _v Provided	
NOTE: Please include a	Tier 2 &	3 Water Quality Practice	(ac-ft)	Tier
copy of the appropriate		Gravel Wetland	0.1795	Tier 2
STP worksheet(s) with the				
αρριτατιση.				
		Total WQ _v Provided (ac-ft)	0.1795	ac-ft
		Is the WQ _v Standard met?	Yes	
Water Quality Notes:				
Channel Protection Stan	dard (CP)		Direct dischar	ge to drainage
Standard Applicable?	🔵 Yes 💿 No	Waiver (if No is selected):	area ≥1	.0 sq.mi
Standard Met with HCM?	No	The channel protection standard l credit to fully meet HCM or provia	nas not been fully le extended deter	r met. Either increase Tv ntion.
Provide Extended Detention for:	0.369	ac-ft		
Warm or Cold Water	• Cold		12 hours o	f extended
Fishery?	🔘 Warm	\rightarrow Provide:	dete	ntion
See the Vermont Water Qu	uality Standards	for warm and	C)R
cold water	r designations		The Alternative	e Extended Detention
			Method (§2.2.5	5.4) is being used.
Extended Detention STP:				
Modeling Info: When demons	trating CP compl	iance with extended detention in a	hydrologic mode	el, use the CN and T _c
below if the practice being mo achieved through Tier 1 practi	delled is not a Tie ces. The T _c is ca	er 1 practice. The CN _{Adj} takes into lculated by the watershed lag met	account the redu hod using CN _{Adj}	uction in runoff volume as CN'.
	02	Post Development T (min)	14.2	(Watershed
CN _{Adj}	92		14.3	Lag Method)
Channel Protection Notes:				

Overbank Flood Protecti	on (Q _{P10})									
Standard Applicable?	🔿 Yes 💿 No	Waiver (if No is selected):	Direct dischar area ≥1	ge to drainage .0 sq.mi						
Standard Met with HCM?	Standard Met with HCM?The QP10 standard has not been fully met. Provide additional STPs to ensure post development peak runoff does not exceed pre development peak runoff for the 10 yr, 24 hour storm event.									
STP used:										
Pre-develop	ment peak disc	harge rate (cfs)								
Pre-routed, post-develop	ment peak disc	harge rate (cfs)								
Routed, post-develop	ment peak disc	harge rate (cfs)								
<u>Modeling Info:</u> When demonstrating Q _{P10} compliance in a hydrologic model, use the following CN and T _C below, if the practice used to meet Q _{P10} is not itself a Tier 1 practice. The CN _{Adj} takes into account the reduction in runoff volume achieved through Tier 1 practices. The T _C is calculated by the watershed lag method using CN _{Adj} as CN'.										
Pre-Development CN (Flow- weighted composite)	86	Pre Development T _c (min)	19.5	(Watershed						
CN _{Adj}	91	Post Development T _c (min)	14.8	Lag Method)						
Overbank Flood Notes:	Overbank Flood Notes:									
Extreme Flood Protectio	n (Q _{P100})									
Standard Applicable?	🔵 Yes 💿 No	Waiver (if No is selected):	<10 acres i	impervious						
Standard Met with HCM?	No	The extreme standard has not bee ensure post development peak rur runoff for the 100 yr, 24 hour storr	en fully met. Provi noff does not exce m event.	ide additional STPs to eed pre development peak						
STP used:		-								
Pre-develop	ment peak disc	harge rate (cfs)								
Pre-routed, post-develop	ment peak disc	harge rate (cfs)								
Routed, post-develop	ment peak disc	harge rate (cfs)								
<u>Modeling Info</u> : When demonstrating Q _{P100} compliance in a hydrologic model, use the following CN and T _C below, if the practice used to meet Q _{P100} is not a Tier 1 practice. The CN _{Adj} takes into account the reduction in runoff volume achieved through runoff reduction practices. The T _C is calculated by the watershed lag method using CN _{Adj} as CN'.										
Pre-Development CN (Flow- weighted composite)	85	Pre Development T _c (min)	19.9	(Watershed						
CN _{Adj}	90	Post Development T _c (min)	15.2	Lag Method)						
Extreme Flood Notes:										

STP Selection Matrix			Project Name: The H at Mallets Bay						
Version 5/8/2017		Discharge Point: 1							
				Se i oniti			-		
Step 1: Is the Water Quality Treatment Standa Infiltration Basins/ Trenches/ Chambers Drywells	Simple Disconr	rely m Disconi nection	anaged w nection to Filter Si	vith one c trips and V	er more of	f the follo Buffers	Wing Tier 2	L practice	s?
Bioretention (designed to infiltrate) Filters (designed to infiltrate) Reforestation ¹	Dry Swa Permea	ales (de Ible Pav	esigned to i vement ¹	infiltrate)			Proceed 2	to Step	
1. These practices do not require specific justification due t	o feasibili	ty limita	tions						
Step 2: Assess the feasibility of using Tier 3 Complete the matrix below in its entirety for ea	1 Pract ach drai	ices inage a	area.						
Tier 1 Practices are available to meet the Water Quality Treatment Standard. If using one of these practices, stop here. If additional site constraints exist other than those listed here, proceed to Step 3.		Infiltration Basin/ Trench/ Chamber	Drywell	Bioretention (infiltrating)	Simple Disconnection	Disconnection to Filter Strips or Vegetated Buffer	Dry Swales (infiltrating)	Filters (infiltrating)	
Practice Availability for Water Quality Trea	atment	:?	Not Feasible	Not Feasible	Not Feasible	Yes	Yes	Not Feasible	Not Feasible
Feasibility Restriction	Resp	onse		Practio	e Availat	oility Base	ed on Restr	ictions	
Do underlying soils have an infiltration rate of less than 0.2 inches per hour, as confirmed by field geotechnical tests or are classified as Hydrologic Soil Group D according to the NRCS Soil survey?	• Yes	⊖ No	Not Feasible	Not Feasible	Not Feasible	n/a	n/a	Not Feasible	Not Feasible
Will runoff to the practice include discharge from a hotspot landuse or activity?	⊖ Yes	• No	Available	Available	Available	Available	Available	Available	Available
Is the site a brownfield or contaminated site where infiltration is restricted or where infiltration would increase the threat of pollution migration, as confirmed in writing by the Department's Waste Management and Prevention Division?) Yes	• No	Available	Available	Available	Available	Available	Available	Available
Is the slope of the vegetated buffer greater than 15%	⊖ Yes	• No	n/a	n/a	n/a	Available	Available	n/a	n/a
Is the slope of the filter strip greater than 15%	⊖ Yes	() N	n/a	n/a	n/a	Available	n/a	n/a	n/a
Is the slope of the vegetated buffer greater than 8%	⊖ Yes	• No	n/a	n/a	n/a	n/a	Available	n/a	n/a
Are natural slopes where an infiltration trench or basin could be sited greater than 15%	⊖ Yes	• No	o Available	n/a	Available	n/a	n/a	Available	Available
Bottom of practice would be below seasonal high water table	⊖ Yes	• No	o Available	Available	Available	n/a	n/a	Available	Available
Seasonal high water table or bedrock would be less than 1 foot from the bottom of the practice.	⊖ Yes	• No	Available	Available	n/a	n/a	n/a	n/a	n/a
Seasonal high water table or bedrock would be less than 3 feet from the bottom of the practice.	⊖ Yes		o Available	n/a	n/a	n/a	n/a	n/a	n/a

Will the practice be located within 75 feet down- gradient of a wastewater disposal area system, within 35 feet up-gradient or 75 feet down- gradient of a wastewater disposal system?	⊖ Yes) No	9 Available	Available	Available	n/a	n/a	Available	Available
Will the practice be located within 150 feet of a drinking water source located in an unconfined aquifer?	⊖ Yes	• N	oAvailable	Available	Available	n/a	n/a	Available	Available
Will the practice be located within 100 feet of a drinking water source located in bedrock or a confined unconsolidated aquifer?	⊖ Yes	• No	o Available	Available	Available	n/a	n/a	Available	Available
Will the practice be located within Zone 1 or Zone 2 of a public community groundwater source protection area?	⊖ Yes	• N	Available	Available	Available	n/a	n/a	Available	Available
Will the practice be located within 200 feet of non-transient non-community groundwater source?	⊖ Yes	• N	Available	Available	Available	n/a	n/a	Available	Available
Will the practice violate any restrictions of the Vermont Wastewater and Potable Water Supply Rules, or their replacement?	⊖ Yes	• N	PAvailable	Available	Available	Available	Available	Available	Available

Step 3: Other feasibility constraints for remaining Tier 1 and Tier 2 practices

If, following completion of Step 2 of the STP Selection Tool there are no Tier 1 Practices available for use on the project site, designers shall consider the use of Tier 2 practices for treatment of the Water Quality Treatment Standard.

Is the Water Quality Treatment Standard entirely managed with Tier 2 Practices?



Stop. No further justification is needed.

If the the use of a Tier 1 or Tier 2 Practice is infeasible for reasons beyond those listed in Step 2 of the STP Selection Matrix, a designer may submit site specific detailed feasibility justification that such practices are not feasible following the guidance in Section 2.2.4.1 of the 2017 VSMM. Only after completion of the STP Selection Matrix and determination that Tier and Tier 2 Practices are infeasible shall a designer consider Tier 3 Practices or existing stormwater infrastructure for meeting the Water Quality Treatment Standard (WQTS) on the project site.

Provide written feasibilty justification below or list attachments

Vei	Version: 11/30/2020 Project Name: Hazelett					
Тт	eatment Wetlands ((4 3 5)	T	Discha reatment \	rge Point: S/N 001 Wetland # 1	
	cathlent vettands	(4.0.0)		cutiliteitt		
		For Permit	Not for Permit	Total to		
	Practice Drainage Area	Coverage	Coverage	Practice		
1	Total Area (acres)	4.010	0.000	4.010		
2	New Impervious (acres)	2.170	0.000	2.170		
3	Redeveloped Impervious	0.000	0.000	0.000		
		WQ _v for credit	WQ _v not for credit	Total WQ _V		
4	WQ_V to practice	0.1795	0.0000	0.1795	Modified CN for WQ (1.0") storm	95
	-	↑Enter this va	alue on the Star	ndards		
		Compliance V	Vorkbook			
5	Practice Type	Shallow su	urface wetland tland			
6	Discharges to Cold or Warm Water Fishery?	ColdWarm				

Note: Designers may use the Practice Drainage Area Runoff Calculator (second tab) for calculation of practicespecific runoff volumes for other treatment standards.

* Questions preceded by an asterix (*) may change based on previously entered values

	Conveyance (4.3.5.2)	Response	Attachment location
7	Are inlets stabilized to ensure that non-erosive conditions exist for at least the 1-year, 24 hour storm?	○ Yes ○ No	Plan Sheet C-2.1
8	Has a low for orifice been provided to meet the the WQ_V and CP_V extended	🖲 Yes 🔾 No	Detail Sheet CD-6
9	Have the outfalls and the conveyance to the discharge point been designed and protected to avoid erosion?	• Yes O No	Plan Sheet C-2.1 & Detail Sheet CD-6
10	Has a liner designed in accordance with Section 4.3.5.2 been provided if the infiltration rate exceed 0.05 inches per hour and the wetland is located above	🖲 Yes 🔿 No	Detail Sheet CD-6
11*	Have inlet pipes been set at the permanent pool or the base of the gravel bed?	🖲 Yes 🔾 No	Plan Sheet C-2.1 & Detail CD-7
12*	Is outlet elevation designed such that a sub-surface water level is maintained in the gravel wetland?	🖲 Yes 🔘 No	Detail CD-7
13*	If the gravel wetland is designed with an organic soil layer at the surface, have vertical perforated riser pipes been provided to deliver stormwater stormwater from the surface down to the gravel bed?	● Yes)No	Detail CD-6
	Pre-Treatment (4.3.6.3)	Response	Attachment location

		1	
14 H	as pretreatment been provided for non-rooftop runoff?	• Yes 🔿 No	Sheet C-2.1

15	What type of pretreatment is being	Swale	☑ Forebay (10% WQv)	
15	used?	Filter Strip	Deep Sump Catch Basins	

	Treatment (4.3.6.4)	Response	Attachment location
16	What is the volume stored in the forebay or other volumetric pre- $$\rm ft^3$$ treatment if used? (minimum 10% $\rm WQ_V$)	782	N/A
17	What is the volume stored in the permanent pool? ft^3	3149	WQV Modeling
18	What is the total WQ_V stored at the normal water level (pre- treatment + permanent pool)? ft ³	3931	WQv Modeling
19*		🔿 Yes 🖲 N	þ
20*		O Yes ⊙ N	þ
21	Does the pre-treatment volume plus the permanent pool equal at least 50% of the WQ_V ?	50.3%	Yes
22	Is the remaining WQ_V provided for by extended detention over 24 hours?	🖲 Yes 🔾 N	o N/A
23	Has a minimum flow path at normal water level of 3:1 been provided?	• Yes • N	Plan Sheet C-2.1
24	What is the Storage Volume of the practice. Include the permanent ac-ft pool and any volume used for providing extended detention.	0.0547	Enter this on the eNO

	Landscaping (4.3.6.5)	Response	Attachment location
25	Are all deep pool areas of \geq 4 feet depth with side slopes steeper than 4:1 (H:V) surrounded by a safety bench with \leq 6% slope extending 10 feet outward from the normal water edge to the toe of the side slope?	🖲 Yes 🔾 No	Plan Sheet C-2.1
26	Has an aquatic been been provided that extends at least 5 feet inward from the normal water edge and is no more than 18 inches deep?	• Yes • No	Plan Sheet C-2.1
27	Has a planting plan been prepared showing how aquatic and terrestrial areas will be stabilized, including plant species, plant locations, sources of plant material and any required soil amendments?	🖲 Yes 🔵 No	Detail CD-6
28	Has a setback been provided that extends 25 feet from the maximum design water surface elevation of the practice?	• Yes • No	Plan Sheet C-2.1
29	Does the planting plan specify that no woody vegetation >2 inches in diameter shall be planted or allowed to grow on the dam, within 15 feet of the dam or the toe of the embankment, or within 25 of a principal spillway outlet?	• Yes 🔿 No	Detail CD-6
30	Are any donor organic soils used in the practice obtained from a source other than natural wetlands?	• Yes • No	N/A

<u>Attachment location</u>: Indicate the specific location (i.e. appendix, page, plan sheet) where the requisite support documentation has been provided within the application.

Version: 3/28/2018			Project Name: The H at Mallets Bay			
				Discha	rge Point:	1
Si	mple Disconnectior	n (4.2.2)	D	isconnecti	on Area #	1
		For Permit	Not for Permit	Total to		
	Disconnected Area	Coverage	Coverage	Practice		
1	Total Area (acres)	0.070	0.000	0.070		
2	Impervious (acres)	0.035	0.000	0.035		
		WQ_V for	WQ_V not for	Total		
		credit	credit	WQ_V		
3	WQ _V to practice	0.0029	0.0000	0.0029	Modified CN for WQ (1.0") storm	94
	г					
4	Disconnected Area Type	>10 ft, or co	nveyed by downspo	out		
т	Disconnected Alea Type	🗹 10 ft contrib	uting length or less			

 \ast Questions preceded by an asterix (*) may change based on previously entered values

	Feasibility (4.2.2.1)	Response	Attachment location
5	For areas conveyed by sheetflow, is the width of the disconnection area (perpendicular to the direction of flow) equal to or greater than the area being disconnected?	• Yes O No	Sidewalk/RecPath
6*		○ Yes ○ No	
7*		○ Yes ○ No	
8	Do the underlying soils of the disconnection area meet the Post-Construction Soil Depth and Quality Standard?	● Yes) No	
9*		🔿 Yes 🔵 No	
10*	Is the maximum flow path length from the contributing impervious area 10 feet or less?	• Yes 🔿 No	
11	Are disconnection areas configured such that there is no overlap between adjacent disconnection areas?	• Yes O N)
12	Is the maximum slope of the disconnection area no steeper than 15%?	🖲 Yes 🔵 No	
13	For sites with septic systems, is the disconnection flow path cross-gradient or down-gradient of the leachfield?	🔿 Yes 🔵 No	NA

	Conveyance (4.2.2.2)	Response	Attachment location
14	Is the runoff conveyed as sheet flow across the disconnection area for the	• Yes 🔿 No	
	applicable design storms and prevented from channelizing?		
15	Is the disconnection surface directed away from buildings so as to protect	• Yes 🔿 No	
15	foundations and basements?	0 - 0 -	

16*		🔿 Yes 🔿 No	
17*		🔿 Yes 🔵 No	
18	For runoff not conveyed by downspout, does the runoff drain either as sheet flow or drain to a subsurface drain field that is not directly connected to the drainage network?) Yes 🔿 N)

	Pretreatment (4.2.2.3)	Response	Attachment location
19	Is runoff from qualifying surfaces prevented from co-mingling with other runoff, such that pre-treatment is not required?	🖲 Yes 🔿 No	

	Required Disconnection Length for Contributing Areas >10 ft and		
	Downspouts	Response	Attachment location
20*	n/a, Downspout/Contributing area >10 ft is not selected in Question 4	0.00	
	$f_c \ge 1$ in/hr for $T_V = HC_V$	A	
21*	$f_c \ge 0.5$ in/hr for $T_V = WQ_V$	⊖ A/B	
	$f_c < 0.5$ in/hr for $T_V = WQ_V$	⊖ c/d	
22*		○ <8% ○ 8-15%	
23*	inches	0.00	
24*	ft	0.0	
25*	ft	0.0	

	Required Disconnection for Contributing Areas ≤10 ft	Response	Attachment location
26*	Disconnected Area ≤10ft wide acres	0.035	
27*	What is the flow path length from the sidewalk, path, or driveway? (max 10 ft) ft	4	
28*	What is the slope of the disconnection area?	● <8% ○ 8-15%	
29*	Is the disconnection area on A soils (fc \geq 1 in/hr)?	🔿 Yes 🖲 No	
30*	inches	0.00	
31*	What is required length of the disconnection for the path/sidewalk/driveway (≤10 ft)? ft	4.0	
32*	What disconnection length is provided for the path/sidewalk/driveway (≤10 ft)? ft	10.0	

Treatment Volume Calculation

33	What is the treatment volume provided by the STP? T_V (cu-	t) 127.05	
34	What is the treatment volume provided by the STP? T_V (ac-	t) 0.0029	
		↑ Enter this	value on the Standards Workshoot
		Compliance	worksneet
	Treatment (4.2.2.4)	Response	Attachment location
35*		⊖ Yes ⊖ N	φ

	Landscaping (4.3.2.5)	Response	Attachment location
26	Is a dense vegetative cover specified for the disconnection area on the plan		
36	sheet/detail sheet?	• Yes · No	

<u>Attachment location</u>: Indicate the specific location (i.e. appendix, page, plan sheet) where the requisite support documentation has been provided within the application.

Channel Protection Standard Waiver Worksheet

Fill out this worksheet for <u>each</u> discharge point in which use of this waiver is sought.

Channel Protection Standard (CPv) Waiver (check only one):

1. A site where the pre-routed, post-development discharge from the 1-year, 24-hour storm event is less than 2 cubic feet per second (cfs).

Enter the total pre-routed post-development stormwater discharge rate (cfs):

<u>Guidance</u>: "Pre-routed post development discharge" means the runoff after development, including postdevelopment conveyance, but without STPs. Curve Numbers should not be adjusted based on T_V credit from Tier 1 practices. When examining whether or not the site qualifies for this waiver, off-site runoff does not need to be considered, however the overall common plan of development shall be considered. Please attach the runoff calculations/hydrologic modeling for the pre-routed, post-development during the 1-year, 24-hour storm event.

\square	2. A site with a direct discharge to waters with a drainage area equal to or greater than 10 square miles and that is less than 5% of the watershed area at the site's upstream boundary.			
	Name of Water at Discharge Point:	Lake Champlain		
	Drainage Area of Water at Discharge Point (square miles):		8234	

For a project that has more than one discharge point and that discharges to different receiving waters, waiver eligibility shall be determined on a "per receiving water" basis. Receiving waters are considered separate if the drainage area at their downstream point of confluence is greater than 10 square miles.

For example, if discharge point S/N 001 discharges directly to the Winooski River (drainage area of greater than 10 square miles), but discharge point S/N 002 discharges directly to a small tributary of the Winooski River, then S/N 001 could be waived from the Channel Protection Standard using Waiver 2, but S/N 002 could not. However S/N 002 may still be eligible for Waiver 1.

Yes

Yes

No

No

Overbank Flood Protection Standard Waiver Worksheet

Fill out this worksheet for each discharge point in which use of this waiver is sought.

Overbank Flood Protection Standard (Q_{P10}) Waiver (*check only one*):

1. The pre-routed, post-development discharge for the 10-year, 24-hour storm is less than 2 cubic feet per second.

Enter the total pre-routed post-development stormwater discharge rate (cfs):

Guidance: "Pre-routed post development discharge" means the runoff after development, including post-development conveyance, but without STPs. When examining whether or not the site qualifies for this waiver, off-site runoff does not need to be considered, however the overall common plan of development shall be considered. Please attach the runoff calculations/hydrologic modeling for the pre-routed, post-development during the 10-year, 24-hour storm event.

\boxtimes	2	A site that has a direct discharge to waters with a drainage area equal to or greater than or equal to 10 square
		miles.

Name of Waters at Discharge Point: Lake Champlain

Drainage Area of Waters at Discharge Point (square miles): 8234

3. A downstream analysis was completed, pursuant to Section Error! Reference source not found. of the 2017 VSMM, that indicated extreme flood control is not necessary for the site.

Has adequate conveyance from the site to the discharge point been verified?

Has supporting information (e.g. narrative description, calculations, modeling) for the completed downstream analysis been included with the application?

For a project that has more than one discharge point and that discharges to different receiving waters, waiver eligibility shall be determined on a "per receiving water" basis. Receiving waters are considered separate if the drainage area at their downstream point of confluence is greater than 10 square miles.

For example, if discharge point S/N 001 discharges directly to the Winooski River (drainage area of greater than 10 square miles), but discharge point S/N 002 discharges directly to a small tributary of the Winooski River, then S/N 001 could be waived from the Overbank Flood Protection Standard using Waiver 2, but S/N 002 could not. However S/N 002 may still be eligible for Waivers 1 or 3.

Extreme Flood Protection Standard Waiver Worksheet

Fill out this worksheet for <u>each</u> discharge point in which use of this waiver is sought.

Extreme Flood Protection Standard (Q_{P100}) Waiver (*check only one*):

\square	 A site that has a direct discharge to waters with a drainage area equal to or greater than or equal to 10 square miles and that is less than 5% of the watershed area at the site's upstream boundary. 		
	Name of Waters at Discharge Point:	Lake Champlain	
	Drainage Area of Waters at Discharge	e Point (square miles):	8234

2. The impervious on site or otherwise associated within a common plan of develop	nent, cons	structed
after 2002, is less than 10 acres.		
	Yes	No

3. A downstream analysis was completed, pursuant to Section Error! Reference source not found. of the 2017 VSMM, that indicated extreme flood control is not necessary for the site.		
Has adequate conveyance from the site to the discharge point been ver	rified? Yes No)
Has supporting information (e.g. narrative description, calculations, modeling) fo completed downstream analysis been included with the applica	or the Yes No)

For a project that has more than one discharge point and that discharges to different receiving waters, waiver eligibility shall be determined on a "per receiving water" basis. Receiving waters are considered separate if the drainage area at their downstream point of confluence is greater than 10 square miles.

For example, if discharge point S/N 001 drains directly to the Winooski River (greater than 10 square miles), but discharge point S/N 002 drains to a small tributary of the Winooski River, then S/N 001 could be waived from the Extreme Flood Protection Treatment Standard using Waiver 2, but S/N 002 could not. However, S/N002 may be still eligible for Waiver 1.



To: Greenfield Growth Consulting c/o Benjamin Avery Date: January 21, 2025

Project #: 59245.00

From: Jennifer Conley, PE, PTOE

Re: H Residential and Restaurant Traffic Impact Memorandum

Introduction

Vanasse Hangen Brustlin (VHB) has been requested to conduct a traffic impact analysis for a proposed mixed-use development located at 166 and 180 West Lakeshore Drive in Colchester, Vermont. The project aims to establish a site comprising 20 inn rooms in small cottages and a 48-seat restaurant. As part of the permitting process, a comprehensive transportation analysis is required to assess the potential impacts of the development on local traffic conditions. The following memorandum involves analyzing existing traffic volumes, projecting future trip generation, and evaluating the operational efficiency of the site driveway intersection.

Access and Circulation

The proposed project aims to enhance site access and driveway efficiency while mitigating environmental impacts. The current design includes two new curb cuts, each approximately 45 feet in width to be placed on West Lakeshore Drive. This new configuration reduces the existing three curb cuts, which total about 270 feet, to two shorter curb cuts, significantly lessening the impervious surface and preserving the site's natural slopes. The entrances and exits— located at the south and north ends of the site, respectively—align with the curb cuts on the Hazelett property across the street, supporting a streamlined and cohesive traffic flow.

The one-way driveway will lead to five parallel parking spaces in front of the main building, primarily designated for check-in and drop-offs. The main parking area is situated across the road to optimize space usage and site organization.

Additionally, the project includes enhancements to the south marina area access through a reconfigured two-way driveway, which includes a turnaround and six parking spaces. Similarly, the Hazelett employee recreation area will benefit from a revised two-way driveway, designed exclusively for drop-offs, loading, and unloading, with no permanent parking spaces.

The proposed layout of the project site is shown below in Figure 1.



Figure 1 Proposed Site Plan



Existing Conditions

To establish a baseline for assessing the traffic impact of the proposed mixed-use development, VHB utilized traffic volume data collected as part of the ongoing improvements at the intersection of West Lakeshore Drive, East Lakeshore Drive, and Blakely Road. This data provides a detailed account of current traffic conditions, capturing the two-way traffic volumes along West Lakeshore Drive near the project site.

Traffic Volume Data

Turning movement count data available in the area was collected on July 16, 2014 at the intersection of West Lakeshore Drive, East Lakeshore Drive, and Blakely Road. Given the need to project traffic volumes forward to 2025, appropriate adjustments were necessary. VHB utilized data from the following VTrans permanent count stations to inform this adjustment:

- > D088 West Lakeshore Road (east of Prim Road)
- > D453 Blakley Road (Just east of West Lakeshore Drive, East Lakeshore Drive, and Blakely Road intersection)



The data from the permanent count stations indicated that traffic volumes had declined significantly in recent years, largely due to the COVID-19 pandemic and resultant shifts in travel behaviors. For a summer recreational area, the 2014 count data was found to be higher than the anticipated Design Hour Volume (DHV) as outlined in the VTrans Redbook¹.

Therefore, VHB determined the two-way volumes for West Lakeshore Drive based on the most recently available VTrans daily volumes for this link. The approximate 2023 Annual Average Daily Traffic (AADT) was around 8,380 vehicles per day. Using the VTrans table to determine the DHV for a summer recreational area resulted in a two-way volume of 1,000 vehicles on West Lakeshore Drive. Based on VTrans factors to adjust to the future, a background growth rate of 1.007 was applied to project traffic volumes up to 2025.

Trip Generation

Trip generation estimates for the proposed residential units and restaurant space are calculated based on industry standards and number of dwelling units and seats respectively. Trip estimates were calculated based on rates published by the Institute of Transportation Engineers (ITE) in the 11th edition of the Trip Generation Manual for the weekday AM and PM peak hours. As such, trip generation rates were calculated using the ITE land use code (LUC) for Single-Family Detached Housing (LUC 210) and High-Turnover (Sit-Down) Restaurant (LUC 932) assuming an estimate of 20 dwelling units and 48 restaurant seats. To remain conservative, the peak hour trips of the restaurant were assumed to be for the peak hour of the generator as opposed to the peak hour of the adjacent network. In addition, the housing land use code selected is more conservative than using a land use for a more recreational housing style. The total unadjusted trip generation of the site is anticipated to be 49 AM and 59 PM peak hour trips. The trip generation data is provided in Table 1 below.

Peak Period	LUC 210 – 20 Dwelling Units	LUC 932 – 48 Seats	Total Trips
AM Peak Hour			
Enter	6	17	23
<u>Exit</u>	<u>15</u>	<u>11</u>	<u>26</u>
Total	21	28	49
PM Peak Hour			
Enter	15	19	34
<u>Exit</u>	<u>8</u>	<u>17</u>	<u>25</u>
Total	23	36	59

Table 1 Trip Generation Summary

¹ VTrans Redbook: https://vtrans.vermont.gov/sites/aot/files/documents/Redbook%202021.pdf



As shown above the development is not anticipated to exceed the Vermont Agency of Transportation (VTrans) threshold of 75 peak hour trips at any intersection.

The Hazelett facility, located on the south side of West Lakeshore Drive, needs to be factored into the analysis of the proposed site's entrance and exit. Since direct count data for the Hazelett facility was unavailable, estimates were based on LUC 110 – General Light Industrial. The additional trips associated with the Hazelett facility during peak hours are as follows:

- > AM Peak Hour: An estimated total of 11 trips (9 entering, 2 exiting).
- > PM Peak Hour: An estimated total of 8 trips (1 entering, 7 exiting).

Trip Distribution and Assignment

A trip distribution pattern for the site was developed based on the 2-way traffic patterns at West Lakeshore Drive. Site related trips were added to the roadway network.

Traffic Analysis

The operations at the Site Driveway with West Lakeshore Drive were evaluated. Intersection capacity analyses were performed for the subject intersection in the AM and PM peak hours for the typical weekday. Level of service (LOS) and average vehicle delay were evaluated using simulations developed with Synchro/SimTraffic Version 12. Each simulation was conducted using industry standard parameters and software settings. All simulations results reported in this evaluation are the average of five modeling runs.

The term "level of service" (LOS) is used to denote the different operating conditions that occur on a given roadway segment under various traffic volume loads. It is an indicator of travel speed, delay, and freedom to maneuver. Level of service provides an index to the operational qualities of a roadway segment or an intersection. Level of service ranges from A to F, with LOS A representing free flow operating conditions and LOS F representing congested operating conditions.

For unsignalized intersections, the analysis assumes that traffic on the mainline is not affected by traffic on the side streets. Thus, the LOS designation is for the critical movement exiting the side street and is typically the left turn out of the side street or site driveway.

Table 2 Level of Service and Delay Summary – Unsignalized Intersections

Level of Service	Unsignalized Intersection	
	Delay (sec)	
Α	<10.0	
В	10.1 – 15.0	
С	15.1 – 25.0	
D	25.1 – 35.0	
E	35.1 – 50.0	
F	> 50.0	



Intersection Operations Analysis Results

The following Tables 3 and 4 summarize the traffic operation analysis results at both the site entrance and exit after occupancy. At unsignalized intersections, such as the site driveways with West Lakeshore Drive, LOS is typically focused on the delay experienced by vehicles making critical movements, such as left turns from the side street onto the main street. The results of the capacity analysis at the site entrance (Table 3) show that during the AM peak hour, eastbound and westbound approaches on West Lakeshore Drive operate at LOS A, while the northbound movement from the Hazelett property operates at LOS B. During the PM peak hour, the LOS for the eastbound approach remains at an LOS A, and the northbound movement improves to LOS A.

Similarly, the capacity analysis at the site exit (Table 4) shows that during the AM and PM peak hours, the site exit operates at LOS B. The primary movements on West Lakeshore Drive maintain LOS A for both AM and PM peak hours.

These results indicate that all movements at the site driveway will operate efficiently. These levels are within acceptable limits for unsignalized, two-way stop controlled intersections, and the project is not anticipated to negatively impact the adjacent roadway network.

Approach	2025 Build			
	Delay ¹	LOS ²	Q95 ³	
AM Peak Hour				
West Lakeshore Drive EB	1.5	А	38	
West Lakeshore Drive WB	0.3	А	0	
Hazelett Property NB	12.9	В	37	
PM Peak Hour				
West Lakeshore Drive EB	2.0	А	58	
West Lakeshore Drive WB	0.5	А	0	
Hazelett Property NB	9.3	A	37	

Table 3 West Lakeshore Drive / Site Entrance Capacity Analysis Results

¹Delay expressed in seconds per vehicle

²Level of Service

³95th percentile queue length expressed in vehicle length



Approach	2025 Build			
	Delay ¹	LOS ²	Q95 ³	
AM Peak Hour				
West Lakeshore Drive EB	0.5	А	0	
West Lakeshore Drive WB	0.7	А	14	
Hazelett Property NB	7.1	А	35	
Site Exit SB	10.7	В	43	
PM Peak Hour				
West Lakeshore Drive EB	0.5	А	3	
West Lakeshore Drive WB	0.8	А	0	
Hazelett Property NB	8.4	А	32	
Site Exit SB	11.6	В	50	

Table 4 West Lakeshore Drive / Site Exit Capacity Analysis Results

¹Delay expressed in seconds per vehicle

²Level of Service

³95th percentile queue length expressed in vehicle length

Conclusions

Based on the analysis, the proposed mixed-use development at 166 and 180 West Lakeshore Drive in Colchester, Vermont, is expected to have manageable impacts on local traffic conditions. Key findings from the traffic impact study are summarized below:

- 1. Baseline Traffic Conditions and Growth Projections:
 - VHB developed two-way volumes for West Lakeshore Drive based on the most recently available VTrans daily volumes for this link. The approximate Annual Average Daily Traffic (AADT) was around 8,400 vehicles per day. Using typical adjustments to reflect DHV conditions, a two-way volume of approximately 1,000 vehicles on West Lakeshore Drive was estimated.
- 2. Trip Generation Estimates:
 - Using the ITE Trip Generation Manual (11th Edition), the site was estimated to generate 49 trips during the AM peak hour and 59 trips during the PM peak hour. This is well below the Vermont Agency of Transportation's threshold of 75 peak hour trips for requiring additional analysis.
- 3. Intersection Capacity Analysis:
 - The site's entrance and exit intersections with West Lakeshore Drive were evaluated. The analysis showed that, under 2025 conditions with the project in place, the driveways would operate at acceptable levels of service (LOS) during both AM and PM peak hours, and trips associated with the proposed development are not anticipated to negatively impact the adjacent roadway network.



P: (802) 878-0375 | email@krebsandlansing.com

HAZELETT INN (THE "H") WASTEWATER FLOWS WORKSHEET

EXISTING ALLOCATION = 4,482 GALLONS/DAY (gpd)

(Per WW-C0671 for a 166 seat restaurant serving 2 meals/day))

PROPOSED PROJECT

Dining

• 48 seats x 27 gpd (2 meals/day) = 1296 gpd

Meeting Space

• 60 participants x 4 gpd/participant = 240 gpd

<u>Spa</u>

- 1 massage therapist x 32 gpd = 32 gpd
- 8 participants x 4 gpd = 32 gpd

Guest Rooms

- Main Building Staff Manager/Owner Bedroom = 140 gpd
- Cottages <u>46</u> TOTAL sleeping spaces x 50 gpd = 2300 gpd
- Future Phase building <u>6</u> sleeping spaces x 50 gpd = 300 gpd

TOTAL PROPOSED DESIGN FLOW = 4,340 gpd



RE: Hazelett Property

1 message

Karen Adams <kadams@colchestervt.gov>

Co: Scott Homsted <scott.homsted@krebsandlansing.com>, Norm Baldwin <nbaldwin@colchestervt.gov> Cc: Benjamin Avery <ben@greenfieldgrowthllc.com>, Zachary Maia <ZMaia@colchestervt.gov> Mon, Sep 9, 2024 at 3:16 PM

Hi Scott,

Appreciate you sharing your thinking on this, and sounds like you have a solid plan. I spoke with Norm about this today and DPW is supportive of these design flows being approved for the site, given they are within the allocation that will be assigned (the 4,482GPD). I am cc[°]ing in Zach so that when the time comes to document this for the Board, he can give us some guidance on what he's looking for. Usually, we'd issue what's called an "ability to serve" letter, but in this case, we're constructing the infrastructure now so we don't currently have the ability to serve you yet, and, the allocation is going to be issued instead of purchased. So, we're in support and can document in whatever way Zach needs as you move through the DRB. Let us know if you have other questions.

Best,



Karen Adams

Technical Services Manager

Department of Public Works

Town of Colchester 781 Blakely Rd. Colchester, Vermont 05446 P: 802.264.5621 | F: 802.264.5503

colchestervt.gov

Notice - Please be advised that your email communication with the Town may be considered a public record and may be subject to disclosure under the Vermont Public Records Act.

From: Scott Homsted <scott.homsted@krebsandlansing.com> Sent: Monday, September 9, 2024 11:21 AM To: Norm Baldwin <nbaldwin@colchestervt.gov>; Karen Adams <kadams@colchestervt.gov> Cc: Benjamin Avery <ben@greenfieldgrowthllc.com> Subject: Hazelett Property

Warning: This email came from an outside source. It is not internal Town of Colchester email.*

Hi Norm and Karen,

As you know, we are working on a redevelopment project for property located at 180 and 166 West Lakeshore Drive for Hazelett. After meeting with Norm and P&Z staff, we came away with an understanding that wastewater allocation for the site could be limited to what was previously permitted. Additional allocation could possibly be obtained in the future, but it is uncertain, and likely to be limited. With that in mind, the design team examined the project program to determine a design that will work with the existing allocation. We've attached a document detailing the program. The end result is a total design flow of <u>4,340 gpd</u>. This is slightly less than the 4,482 gpd permitted via WW-C-0671 for the site.

We are preparing a Sketch Plan application for the project, and would like to include confirmation that the proposed wastewater design flows for the project will be acceptable for connection to municipal sewer. This is likely to come up with the DRB and we'd like to make it a non-issue. Please reach out if you have any questions. Thanks for your help!

Scott Homsted, P.E.

Krebs & Lansing Consulting Engineers, Inc.

164 Main Street

Colchester, Vermont 05446

Scott.Homsted@krebsandlansing.com