



Permit # FP- _____ - _____

TOWN OF COLCHESTER
APPLICATION FOR
FINAL 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: ?? total sq.ft. in 1 Main Building, 5 cottages, and bathhouse.

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: 2.47

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: 1.6

d) Overall Coverage (building, parking, outside storage, etc)

Existing 22.3 % Proposed 30.4 %

e) Front Yard Coverage (along each street) Existing 46.8 % Proposed 46.7 %

f) Building Setbacks: Front 21 Rear 95 Side 108 Side 19

g) Parking Lot Setbacks: Front 5 Rear 20 Side 19 Side 51

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

9) ESTIMATED PROJECT COMPLETION DATE 2027-2028

10) TYPE OF EXISTING OR PROPOSED ENCUMBRANCES ON PROPERTY (easements, covenants, leases, rights of way, etc.) Easement 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? Yes

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;
West Entrance: 500' east, 300' west

g) Do proposed roads include sidewalks? NA

13) COST ESTIMATES

a) Building (including interior renovations): \$ 9,685,000

b) Landscaping: \$ 275,306

c) Describe Landscaping & Other Site Improvements: See Attached Narrative.

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: See attached Traffic Impact Assessment

16) PEAK DAYS OF OPERATION: See attached Traffic Impact Assessment

17) FINAL PLAT PLAN AND FEE

A final plat plan shall be submitted which shows the information listed on Exhibit B attached. A final 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 ½ - 4, 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) FINAL 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

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.

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

Check 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 final plat application and find it to be: Complete Incomplete

Zoning Administrator or Designee

Date

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	SEE ATTACHED ADJOINER LIST	

EXHIBIT B

FINAL 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.

- 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.
- Survey data (acreage, property lines, zoning boundaries, watercourse, base flood elevation, etc.)
- 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)
- 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
- Location of proposed hydrants and/or building sprinkler hook-ups and fire lanes.
- Zoning boundaries
- Number and location of parking spaces (including handicapped spaces)
- 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
- Bicycle rack
- If restaurant is proposed, provide number seats and square footage of floor area provided for patron use but not containing fixed seats
- Area for accumulating snow
- Details of all proposed bridges or culverts.
- Location of temporary markers.
- Water line location (existing & proposed), fire flows, and pressures
- Details of drainage systems & stormwater facilities
- Physical features (streams, wetlands, vegetative cover, etc.)
- Existing highway geometries including access points near project
- Existing & proposed entrances and curb cuts (dimensions, widths, & turning radii)
- Sight distance in both direction of all driveway intersections
- Traffic level of service/capacity analysis for existing/future conditions
- Loading areas & truck circulation patterns
- 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

- Final Plat Review: \$840 + \$10/unit
- Final Plat Amendment: \$552 + \$526/additional proposed unit



TOWN OF COLCHESTER
APPLICATION FOR SITE PLAN 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 site 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: _____
 135 West Lakeshore Drive

6) TAX MAP & PARCEL #(can be obtained at Assessor's Office) _____
 06-023002-0000000

7) PROJECT DESCRIPTION

a) Existing Uses on Property (including description and size of each separate use) _____
 Existing manufacturing facility with associated offices and support spaces.

b) Proposed Uses on property (include description and size of each new use and existing uses to remain) _____
 Proposed maintenance building with bathroom facilities and parking lot to support the "H" Inn at Mallets Bay on property at 166 and 180 West Lakeshore Drive

c) Total building square footage on property (proposed buildings and existing buildings to remain)
 864 s.f. maintenance building + 84,000 s.f. buildings to remain; = 84,864 s.f. of building.

d) Height of building & number of floors (proposed buildings and existing buildings to remain, specify if basement and mezzanine) _____
 Proposed accessory building will one story and will be less than 35'.

e) Number of residential units (if applicable, new units and existing units to remain) _____
 None

f) Number of employees & company vehicles (existing and proposed, note office versus non-office employees): 150 employees total

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

8) LOT INFORMATION

a) Acreage to be Disturbed: 1.25

b) Overall Coverage (building, parking, outside storage, etc)
Existing 5.05 % Proposed 5.44 %

c) Front Yard Coverage (along each street) Existing 17.0 % Proposed 18.8 %

d) Lot Size: 150.99 ac

e) Building Setbacks: Front 30 Rear 3950 Side 47 Side 685

f) Parking Lot Setbacks: Front 60 Rear 3860 Side 28 Side 615

g) Distance From Shoreline (95.5' elevation): 260'+-

9) COST ESTIMATES

a) Building (including interior renovations): \$ _____ b) Landscaping: \$ _____

c) Describe Landscaping & Other Site Improvements: _____

10) 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

11) PEAK HOURS OF OPERATION: 4:00 p.m. - 6:00 p.m.

12) PEAK DAYS OF OPERATION: Sat-Sun

13) ESTIMATED PROJECT COMPLETION DATE: 2026

14) PUBLIC IMPROVEMENT, ROAD, & UTILITY INFORMATION

a) Will municipal sewer be used? Yes If yes, has an allocation been requested? NA
b) What is the previously approved wastewater flow? 3,000 gpd What is the proposed flow? 3,000 gpd

What is the flow of the previous use? NA What is the flow of the proposed use? NA

c) For on site wastewater disposal describe: NA

d) Has the Wastewater Official been contacted to review soil test pits? NA

e) Will municipal water be used? Yes (enclose letter from appropriate Fire District approving the proposed flow and noting gallons per day)

f) If well a well is proposed enclose plan showing well and detailing flow: NA (gpd)

g) Linear footage & width of each road/driveway proposed: Existing driveways will continue to be used

h) Corner sight distance for each road/driveway: NA, existing driveway

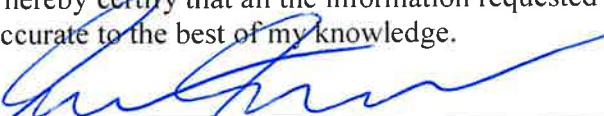
i) How many parking spaces exist? 216 How many spaces will be available to the new use? 67

15) SITE PLAN AND FEE: A site plan shall be submitted which shows the information listed on Exhibit B attached. A site 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 ½ - 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.*

16) SITE PLAN REVIEW CRITERIA NARRATIVE: A narrative description of how the proposed project meets the criteria of Section 8.07 of the Development Regulations shall be submitted with this application.

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

SIGNATURE OF PROPERTY OWNER

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

Check 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: _____ REVIEW AUTHORITY: DRB Board ZA
I have reviewed this site plan application and find it to be: Complete Incomplete

Zoning Administrator or Designee

Date

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 SITE PLAN

The following information must be shown on the site plan. Failure to provide the following information will result in your application being rejected and a delay in the review before the Development Review Board.

- Lot drawn to scale (20 feet scale if possible)
- Survey data (distance and acreage)
- Contours at two (2) foot elevation intervals (existing and finished)
- 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
- Location of proposed hydrants and/or building sprinkler hook-ups and fire lanes.
- Zoning boundaries
- Number and location of parking spaces (including handicapped spaces)
- Location of septic tanks, fields, & lines and/or septic test pit, and percolation information
- Location of any easements
- Lot coverage information: Building footprint, total lot, and front yard
- North arrow
- Name of person or firm preparing site plan and date
- Exterior lighting details (cut sheets). All lights should be down casting and shielded.
- Dumpster or trash area locations
- Bicycle rack
- If restaurant is proposed, provide number seats and square footage of floor area provided for patron use but not containing fixed seats
- Area for accumulating snow
- Water line location (existing & proposed), fire flows, and pressures
- Details of drainage systems & stormwater facilities
- Physical features (streams, wetlands, vegetative cover, etc.)
- Existing highway geometries including access points near project
- Existing & proposed entrances and curb cuts (dimensions, widths, & turning radii)
- Sight distance in both direction of all driveway intersections
- Traffic level of service/capacity analysis for existing/future conditions
- Loading areas & truck circulation patterns
- Existing & proposed sidewalks, recreation paths, and pedestrian walkways

APPLICATION FEE

Site Plan Application:	\$535
Amendment:	\$433
Amendment (Administrative Review):	\$357

Permit # CU-_____



Colchester
VERMONT

TOWN OF COLCHESTER
APPLICATION FOR
CONDITIONAL USE 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 site plan will result in your application being rejected and a delay in the review before the Development Review Board.

- 1) LAND OWNER OF RECORD (Name, mailing address, phone and email)
Hazelett Strip-Casting Corporation; 135 W Lakeshore Drive, Colchester, VT 05446
802-863-6376; davedi@hazelett.com
- 2) PROJECT STREET ADDRESS: 166 & 180 West Lakeshore Drive
- 3) TAX MAP & PARCEL #(can be obtained at Assessor's Office) 65-019002-0000000; 65-020002-0000000
- 4) APPLICANT (Name, mailing address, phone and email) Same
- 5) CONTACT PERSON (Name, mailing address, phone and email) Benjamin Avery
Greenfield Growth, LLC; 802-316-0004; ben@greenfieldgrowthllc.com
- 6) CONSULTANT INFORMATION (Name, mailing address, phone and email) Scott Homsted
Krebs & Lansing Consulting Engineers, Inc.; 802-878-0375; scott.homsted@krebsandlansing.com
- 7) 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 is a main building with a 40-seat restaurant at the main level, event space, and spa facilities for guests. A new bathhouse will be constructed as well to enable beach users to use the facilities without having to go back to the cottages/main building. "INN" is a Conditional use in the LS-1 District.
- 8) ACREAGE TO BE DISTURBED: 1.6
- 9) PEAK HOURS OF OPERATION (Commercial Only): _____

10) PLAN AND FEE

A plan shall be submitted which shows the information listed on Exhibit B attached if applicable. A conditional use application fee of \$433 (or \$204 if submitted with site plan application) shall be paid to the Town at the time of submittal. In accordance with Colchester's Fee Ordinance Chapter 6 ½ - 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.*

11) CONDITIONAL USE REVIEW CRITERIA NARRATIVE

A narrative description of how the proposed project meets the criteria of Section 8.10 of the Development Regulations shall be submitted that addresses all of the points listed on Exhibit C attached.

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



SIGNATURE OF LAND OWNER

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

- Check 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 conditional use application and find it to be: Complete

Incomplete

Zoning Administrator or Designee

Date

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 PLAN
(CHECK WITH ZONING ADMINISTRATOR TO SEE IF NECESSARY)

The following information must be shown on the plan. Failure to provide the following information will result in your application being rejected and a delay in the review before the Development Review Board.

- Lot drawn to scale (20 feet scale if possible)
- North arrow
- Descriptive photos of your request from all possible angles
- Location and dimensions of all buildings existing and proposed on the lot
- Physical features (streams, wetlands, vegetative cover, etc.)
- Setback distances of all buildings from property lines
- Square footage or acreage of the lot
- Square footage of all structures, parking, drives, and other impervious surfaces

If determined necessary by the Zoning Administrator, the following should also be included:

- Survey data (distance and acreage)
- Location of streets, fire hydrants, fire lanes
- Existing sidewalks, recreation paths, and pedestrian walkways
- Zoning boundaries
- Number and location of parking spaces (including handicapped spaces)
- Location of septic tanks, fields, & lines and/or septic test pit, and percolation information
- Existing or proposed water supply
- Location of any easements
- Name of person or firm preparing site plan and date
- Exterior lighting, dumpster or trash area, and bike rack locations
- If restaurant is proposed, provide number seats and square footage of floor area provided for patron use but not containing fixed seats
- Loading areas & truck circulation patterns
- Building elevations & building level floor plans
- Existing or proposed landscaping

EXHIBIT C
CONDITIONAL USE REVIEW CRITERIA
SECTION 8.10 OF THE COLCHESTER DEVELOPMENT REGULATIONS

The proposed use shall not result in adverse effect on any of the following (use a separate page if necessary):

(a) The capacity of existing or planned community facilities;

The project will use existing water, sewer, and road infrastructure. Water and sewer capacity was granted for a previous application for the same site via State Permit WW-C-0671. The Traffic Impact Assessment prepared by VHB shows no adverse effect on local roads/traffic.

(b) The character of the area affected as defined by the purpose or purposes of the zoning district within which the project is located and specifically stated policies and standards of the Municipal Plan;

The proposed project will revitalize an area that has been out of use. The "Inn" conditional use is similar to the historical hotel use on the property. The plan has been prepared with aesthetically pleasing architecture and landscaping while still allowing views of Lake Champlain from adjacent roadways. In accordance with the regulations, the project will: Protect and maintain water quality by treating stormwater runoff in accordance with the Vermont Stormwater Management Manual; Mitigate flood hazards by not proposing development within the flood zone; Preserves and enhances public access to the lake with new pedestrian connections; Maintains views of the lake between the proposed buildings; Enhances views of the shoreline from the lake with new architecturally designed buildings and professional landscaping.

(c) Traffic on roads and highways in the vicinity;

The Traffic Impact Assessment prepared by VHB shows no adverse effect on local roads/traffic.

(d) Bylaws and ordinances in effect; or

The Site Plans and supporting documents have been prepared in accordance with all applicable bylaws and ordinances.

(e) Utilization of renewable energy resources.

The project has no adverse effect on renewable energy resources.



100 feet Abutters List Report

Colchester, VT

March 03, 2025

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 MALLETT'S BAY AVE
Property Address: 118 MALLETT'S 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 MALLETT'S 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 MALLETT'S BAY AVE COLCHESTER, VT 05446

Parcel Number: 06-013002-0000000 Mailing Address: SISON BROADCASTING COMPANY INC
CAMA Number: 06-013002-0000000 118 MALLETT'S BAY AVE
Property Address: 118 MALLETT'S 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 MALLETT'S 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 MALLETT'S BAY AVE COLCHESTER, VT 05446

Parcel Number: 06-013002-0000000 Mailing Address: SISON BROADCASTING COMPANY INC
CAMA Number: 06-013002-0000000 118 MALLETT'S BAY AVE
Property Address: 118 MALLETT'S BAY AVE COLCHESTER, VT 05446



www.cai-tech.com

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are not responsible for any use for other purposes or misuse or misrepresentation of this report.

3/3/2025

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100 feet Abutters List Report

Colchester, VT

March 03, 2025

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



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Parcel Number: 64-003002-0000000
CAMA Number: 64-003002-0000000
Property Address: 751 SHORE ACRES DR

Mailing Address: MYERS TODD A
751 SHORE ACRES DR
COLCHESTER, VT 05446

Parcel Number: 64-004002-0000000
CAMA Number: 64-004002-0000000
Property Address: 827 SHORE ACRES DR

Mailing Address: KATZ JON
827 SHORE ACRES DR
COLCHESTER, VT 05446

Parcel Number: 64-005002-0000000
CAMA Number: 64-005002-0000000
Property Address: 849 SHORE ACRES DR

Mailing Address: FRANCIS AND SUSAN CONNORS REV
TRUST
849 SHORE ACRES DR
COLCHESTER, VT 05446

Parcel Number: 64-013002-0000000
CAMA Number: 64-013002-0000000
Property Address: 921 SHORE ACRES DR

Mailing Address: BARTLETT LIVING TRUST
921 SHORE ACRES DR
COLCHESTER, VT 05446

Parcel Number: 65-001002-0000000
CAMA Number: 65-001002-0000000
Property Address: 88 MALLETT'S BAY
CAMPGROUND

Mailing Address: 88 MALLETT'S BAY CAMPGROUND LLC
75 SO WINOOSKI AVE
BURLINGTON, VT 05401

Parcel Number: 65-001002-0000000
CAMA Number: 65-001002-0010000
Property Address: 1 MALLETT'S BAY CAMPGROUND

Mailing Address: NEWTON THOMAS
1 MALLETT'S BAY CAMPGROUND
COLCHESTER, VT 05446

Parcel Number: 65-001002-0000000
CAMA Number: 65-001002-0010100
Property Address: 1A MALLETT'S BAY
CAMPGROUND

Mailing Address: MARSHALL TINA
40 TYRONE RD
MORGANTOWN, WV 26508

Parcel Number: 65-001002-0000000
CAMA Number: 65-001002-0020010
Property Address: B10 MALLETT'S BAY
CAMPGROUND

Mailing Address: BUSHEY JOHN
B10 MALLETT'S BAY CAMPGROUND
COLCHESTER, VT 05446

Parcel Number: 65-001002-0000000
CAMA Number: 65-001002-0020500
Property Address: B5 MALLETT'S BAY
CAMPGROUND

Mailing Address: LIBERTY HEATHER
16 ELIZABETH ST
SO BURLINGTON, VT 05403

Parcel Number: 65-001002-0000000
CAMA Number: 65-001002-0020600
Property Address: B6 MALLETT'S BAY
CAMPGROUND

Mailing Address: KING SHAWN
PO BOX 604
COLCHESTER, VT 05446

Parcel Number: 65-001002-0000000
CAMA Number: 65-001002-0020800
Property Address: B8 MALLETT'S BAY
CAMPGROUND

Mailing Address: McDOWELL DOUG
B8 MALLETT'S BAY CAMPGROUND
COLCHESTER, VT 05446

Parcel Number: 65-001002-0000000
CAMA Number: 65-001002-0020800
Property Address: B8 MALLETT'S BAY
CAMPGROUND

Mailing Address: McDOWELL DOUG
PO BOX 404
COLCHESTER, VT 05446



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Parcel Number: 65-001002-0000000	Mailing Address: McDOWELL DOUG B8 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000	Mailing Address: McDowell Doug PO BOX 404 COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000	Mailing Address: DUFRESNE KEVIN 99 LORI LN BURLINGTON, VT 05408
Parcel Number: 65-001002-0000000	Mailing Address: WALL LESLIE B1 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000	Mailing Address: DEVARAJAN ASHLEY 12726 NW NAOMI LN PORTLAND, OR 97229
Parcel Number: 65-001002-0000000	Mailing Address: VOIGT DENNIS 21 LOUBIER DR ESSEX JCT, VT 05452
Parcel Number: 65-001002-0000000	Mailing Address: ANGIER JOHN 4A MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000	Mailing Address: BRADLEY ALLEN 9 CAPTAIN HALL RD MIDDLEBORO, MA 02346
Parcel Number: 65-001002-0000000	Mailing Address: STANLEY LEVI PO BOX 256 COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000	Mailing Address: MAIN GEORGE 8041 MEADOW LARK LANE PORT ST. LUCIE, FL 34952
Parcel Number: 65-001002-0000000	Mailing Address: CASWELL ANNE G 7 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000	Mailing Address: CASWELL ANNE G PO BOX 65084 BURLINGTON, VT 05406



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Parcel Number:	65-001002-0000000	Mailing Address:	CASWELL ANNE G
CAMA Number:	65-001002-0070000		7 MALLETT'S BAY CAMPGROUND
Property Address:	7 MALLETT'S BAY CAMPGROUND		COLCHESTER, VT 05446

Parcel Number:	65-001002-0000000	Mailing Address:	CASWELL ANNE G
CAMA Number:	65-001002-0070000		PO BOX 65084
Property Address:	7 MALLETT'S BAY CAMPGROUND		BURLINGTON, VT 05406

Parcel Number:	65-001002-0000000	Mailing Address:	HARRINGTON STEVE
CAMA Number:	65-001002-0080000		PO BOX 372
Property Address:	8 MALLETT'S BAY CAMPGROUND		JONESVILLE, VT 05466

Parcel Number:	65-001002-0000000	Mailing Address:	GRIFFITH MAURICE
CAMA Number:	65-001002-0080100		22646 CLIFFSIDE WAY
Property Address:	8A MALLETT'S BAY CAMPGROUND		LAND O LAKES, FL 34639

Parcel Number:	65-001002-0000000	Mailing Address:	GRIFFITH MAURICE
CAMA Number:	65-001002-0080100		5015 ABIGAIL LN
Property Address:	8A MALLETT'S BAY CAMPGROUND		CHATTANOOGA, TN 37416

Parcel Number:	65-001002-0000000	Mailing Address:	GRIFFITH MAURICE
CAMA Number:	65-001002-0080100		PO BOX 602
Property Address:	8A MALLETT'S BAY CAMPGROUND		COLCHESTER, VT 05446

Parcel Number:	65-001002-0000000	Mailing Address:	GRIFFITH MAURICE
CAMA Number:	65-001002-0080100		PO BOX 90
Property Address:	8A MALLETT'S BAY CAMPGROUND		COLCHESTER, VT 05446

Parcel Number:	65-001002-0000000	Mailing Address:	GRIFFITH MAURICE
CAMA Number:	65-001002-0080100		22646 CLIFFSIDE WAY
Property Address:	8A MALLETT'S BAY CAMPGROUND		LAND O LAKES, FL 34639

Parcel Number:	65-001002-0000000	Mailing Address:	GRIFFITH MAURICE
CAMA Number:	65-001002-0080100		5015 ABIGAIL LN
Property Address:	8A MALLETT'S BAY CAMPGROUND		CHATTANOOGA, TN 37416

Parcel Number:	65-001002-0000000	Mailing Address:	GRIFFITH MAURICE
CAMA Number:	65-001002-0080100		PO BOX 602
Property Address:	8A MALLETT'S BAY CAMPGROUND		COLCHESTER, VT 05446

Parcel Number:	65-001002-0000000	Mailing Address:	GRIFFITH MAURICE
CAMA Number:	65-001002-0080100		PO BOX 90
Property Address:	8A MALLETT'S BAY CAMPGROUND		COLCHESTER, VT 05446

Parcel Number:	65-001002-0000000	Mailing Address:	GRIFFITH MAURICE
CAMA Number:	65-001002-0080100		22646 CLIFFSIDE WAY
Property Address:	8A MALLETT'S BAY CAMPGROUND		LAND O LAKES, FL 34639



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



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Parcel Number: 65-001002-0000000	Mailing Address: PARIZO RAY III 12 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000	Mailing Address: PARIZO RAY III 193 BROWNS RIVER RD ESSEX JCT, VT 05452
Parcel Number: 65-001002-0000000	Mailing Address: PAAP LARRY 132 NO CHAMPLAIN ST BURLINGTON, VT 05401
Parcel Number: 65-001002-0000000	Mailing Address: PAAP LARRY PO BOX 371 COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000	Mailing Address: PAAP LARRY 132 NO CHAMPLAIN ST BURLINGTON, VT 05401
Parcel Number: 65-001002-0000000	Mailing Address: PAAP LARRY PO BOX 371 COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000	Mailing Address: AMOUR SUE 778 SAND HILL RD #24 ESSEX JCT, VT 054452
Parcel Number: 65-001002-0000000	Mailing Address: ALDERMAN KAREN 15 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000	Mailing Address: LEMIEUX PIERRE 1416 HINESBURG RD SO BURLINGTON, VT 05403
Parcel Number: 65-001002-0000000	Mailing Address: RAFFERTY THOMAS PO BOX 265 WILLISTON, VT 05495
Parcel Number: 65-001002-0000000	Mailing Address: DAMPIERRE RUTH 19 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000	Mailing Address: VANASSE RAYMOND 37 ST NICHOLAS ST SOREL TRACY PQ, J3P 4X7



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Parcel Number: 65-001002-0000000 CAMA Number: 65-001002-0210000 Property Address: 21 MALLETT'S BAY CAMPGROUND	Mailing Address: BUTLER DANIELLE 21 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000 CAMA Number: 65-001002-0220000 Property Address: 22 MALLETT'S BAY CAMPGROUND	Mailing Address: BARTLETT CHRIS 22 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000 CAMA Number: 65-001002-0220000 Property Address: 22 MALLETT'S BAY CAMPGROUND	Mailing Address: BARTLETT CHRIS PO BOX 341 SO BARRE, VT 05670
Parcel Number: 65-001002-0000000 CAMA Number: 65-001002-0220000 Property Address: 22 MALLETT'S BAY CAMPGROUND	Mailing Address: BARTLETT CHRIS 22 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000 CAMA Number: 65-001002-0220000 Property Address: 22 MALLETT'S BAY CAMPGROUND	Mailing Address: BARTLETT CHRIS PO BOX 341 SO BARRE, VT 05670
Parcel Number: 65-001002-0000000 CAMA Number: 65-001002-0260000 Property Address: 26 MALLETT'S BAY CAMPGROUND	Mailing Address: HEINRICH WILLIAM 26 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000 CAMA Number: 65-001002-0270000 Property Address: 27 MALLETT'S BAY CAMPGROUND	Mailing Address: COLBERT VIRGINIA 27 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000 CAMA Number: 65-001002-0270100 Property Address: 27A MALLETT'S BAY CAMPGROUND	Mailing Address: GILBERSON GARY 27A MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000 CAMA Number: 65-001002-0280100 Property Address: 28 MALLETT'S BAY CAMPGROUND	Mailing Address: REPOSA DAVID 218 MALLETT'S BAY AVE 473 COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000 CAMA Number: 65-001002-0280100 Property Address: 28 MALLETT'S BAY CAMPGROUND	Mailing Address: REPOSA DAVID 28 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000 CAMA Number: 65-001002-0280100 Property Address: 28 MALLETT'S BAY CAMPGROUND	Mailing Address: REPOSA DAVID 218 MALLETT'S BAY AVE 473 COLCHESTER, VT 05446
Parcel Number: 65-001002-0000000 CAMA Number: 65-001002-0280100 Property Address: 28 MALLETT'S BAY CAMPGROUND	Mailing Address: REPOSA DAVID 28 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446



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Parcel Number: 65-001002-0000000	Mailing Address: REPOSA DAVID 218 MALLETT'S BAY AVE 473 COLCHESTER, VT 05446
CAMA Number: 65-001002-0290000	
Property Address: 29 MALLETT'S BAY CAMPGROUND	
Parcel Number: 65-001002-0000000	Mailing Address: BEVINS RICHARD 30 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
CAMA Number: 65-001002-0300000	
Property Address: 30 MALLETT'S BAY CAMPGROUND	
Parcel Number: 65-001002-0000000	Mailing Address: BURKE BILL B4 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
CAMA Number: 65-001002-0310100	
Property Address: B4 MALLETT'S BAY CAMPGROUND	
Parcel Number: 65-001002-0000000	Mailing Address: GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05401
CAMA Number: 65-001002-0310000	
Property Address: 31 MALLETT'S BAY CAMPGROUND	
Parcel Number: 65-001002-0000000	Mailing Address: GUERIN SHELBY 6 FIDDLEHEAD RD VERGENNES, VT 05491
CAMA Number: 65-001002-0310000	
Property Address: 31 MALLETT'S BAY CAMPGROUND	
Parcel Number: 65-001002-0000000	Mailing Address: GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05401
CAMA Number: 65-001002-0310000	
Property Address: 31 MALLETT'S BAY CAMPGROUND	
Parcel Number: 65-001002-0000000	Mailing Address: GUERIN SHELBY 476 NORTH AVE BURLINGTON, VT 05401
CAMA Number: 65-001002-0310000	
Property Address: 31 MALLETT'S BAY CAMPGROUND	
Parcel Number: 65-001002-0000000	Mailing Address: GUERIN SHELBY 6 FIDDLEHEAD RD VERGENNES, VT 05491
CAMA Number: 65-001002-0310000	
Property Address: 31 MALLETT'S BAY CAMPGROUND	
Parcel Number: 65-001002-0000000	Mailing Address: CORREIA RICHARD PO BOX 163 COLCHESTER, VT 05446
CAMA Number: 65-001002-0330000	
Property Address: 33 MALLETT'S BAY CAMPGROUND	
Parcel Number: 65-001002-0000000	Mailing Address: MERCIER DENNIS 34 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
CAMA Number: 65-001002-0340000	
Property Address: 34 MALLETT'S BAY CAMPGROUND	
Parcel Number: 65-001002-0000000	Mailing Address: SWEENEY LARRY 35 MALLETT'S BAY CAMPGROUND COLCHESTER, VT 05446
CAMA Number: 65-001002-0350000	
Property Address: 35 MALLETT'S BAY CAMPGROUND	



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



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



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



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are not responsible for any use for other purposes or misuse or misrepresentation of this report.



100 feet Abutters List Report

Colchester, VT

March 03, 2025

Parcel Number: 65-004002-0000000
CAMA Number: 65-004002-0000000
Property Address: 215 WEST LAKESHORE DR

Mailing Address: LURVEY RAYA J
4001 ETHAN ALLEN HWY APT D
GEORGIA, VT 05478

Parcel Number: 65-004002-0000000
CAMA Number: 65-004002-0000000
Property Address: 215 WEST LAKESHORE DR

Mailing Address: LURVEY RAYA J
22 FERN CT #1
COLCHESTER, VT 05446

Parcel Number: 65-005002-0000000
CAMA Number: 65-005002-0000000
Property Address: 61 JAKES PLACE

Mailing Address: DEFORGE GERALD B
PO BOX 69
COLCHESTER, VT 05446

Parcel Number: 65-006002-0000000
CAMA Number: 65-006002-0000000
Property Address: 0 WEST LAKESHORE DR

Mailing Address: 332 WEST LAKESHORE DRIVE, LLC
218 OVERLAKE DR
COLCHESTER, VT 05446

Parcel Number: 65-017002-0000000
CAMA Number: 65-017002-0000000
Property Address: 278 WEST LAKESHORE DR

Mailing Address: SP COVE LLC
171 CRESCENT RD
BURLINGTON, VT 05401

Parcel Number: 65-021002-0000000
CAMA Number: 65-021002-0000000
Property Address: 76 WEST LAKESHORE DR

Mailing Address: GARDNER NEIL
319 MARBLE ISLAND RD
COLCHESTER, VT 05446



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3/3/2025

Page 13 of 13



135, 166 & 180 West Lakeshore Dr

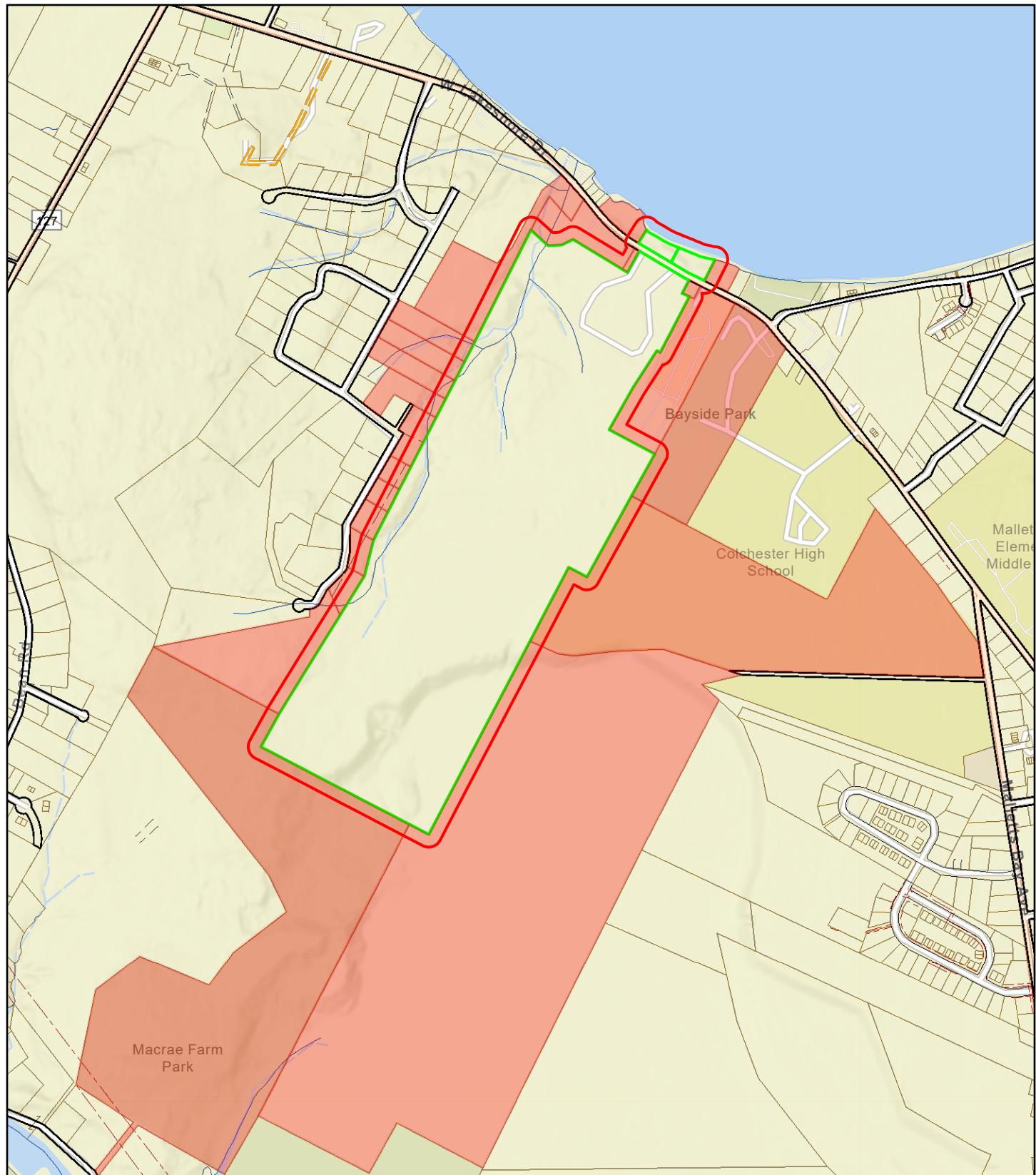
Town of Colchester, VT

1 inch = 1075 Feet



March 5, 2025

0 1075 2150 3225



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THE H AT MALLETT'S BAY

CONCEPTUAL PERSPECTIVES

09/29/25

A1



THE H AT MALLETT'S BAY

CONCEPTUAL PERSPECTIVES

10/06/25

A2



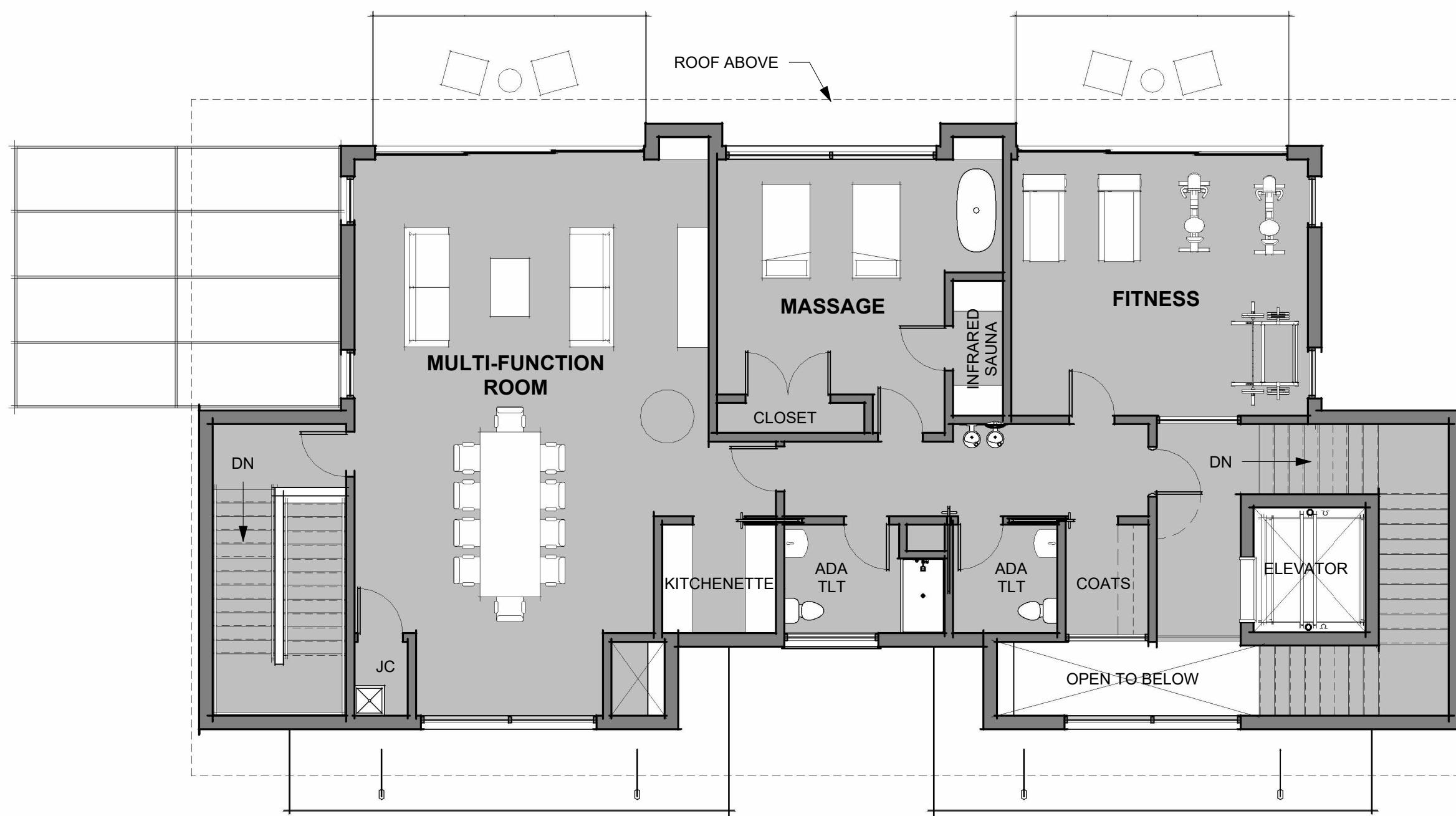
THE H AT MALLETT'S BAY

CONCEPTUAL PERSPECTIVES

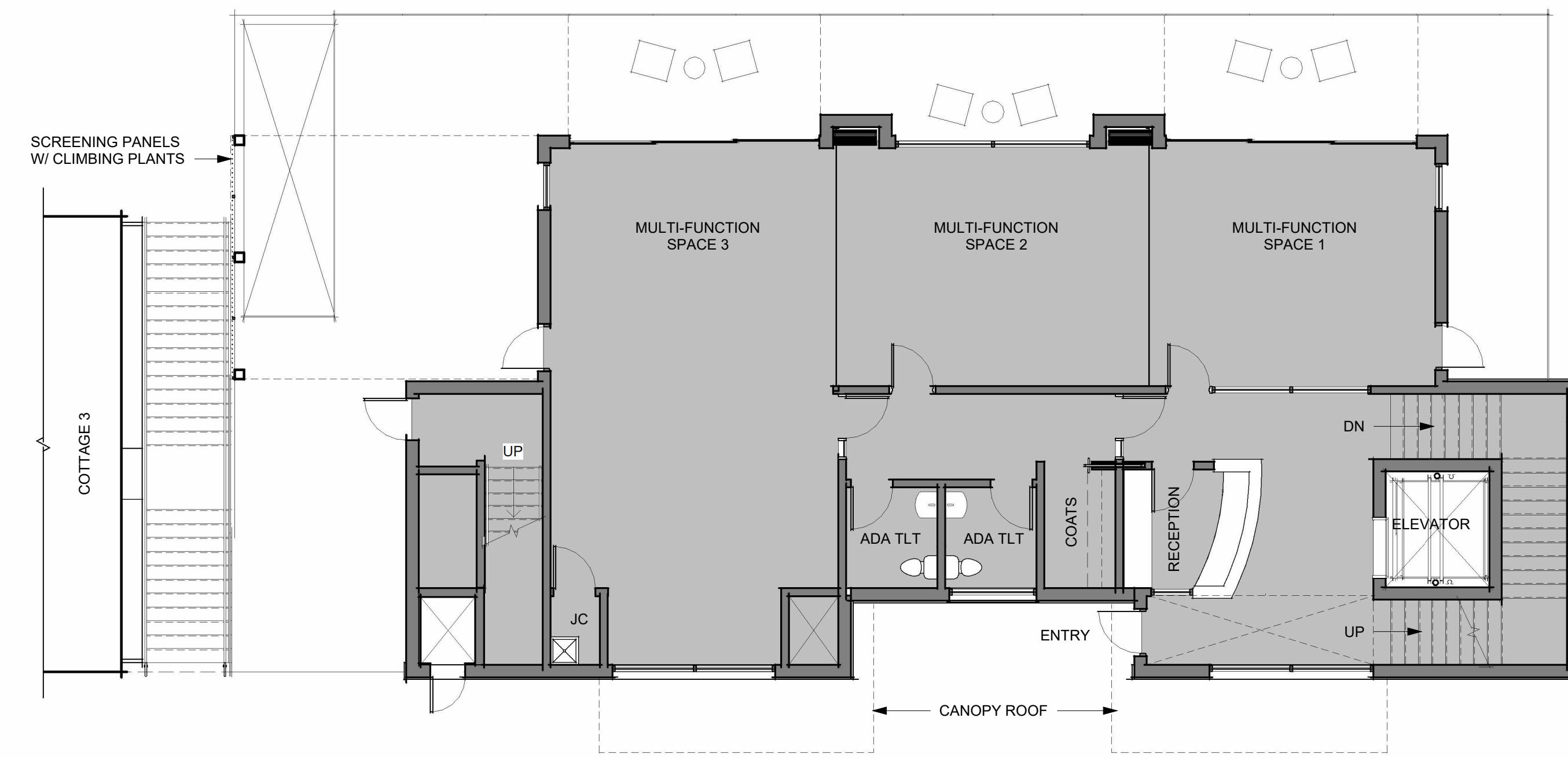
10/06/25

A3

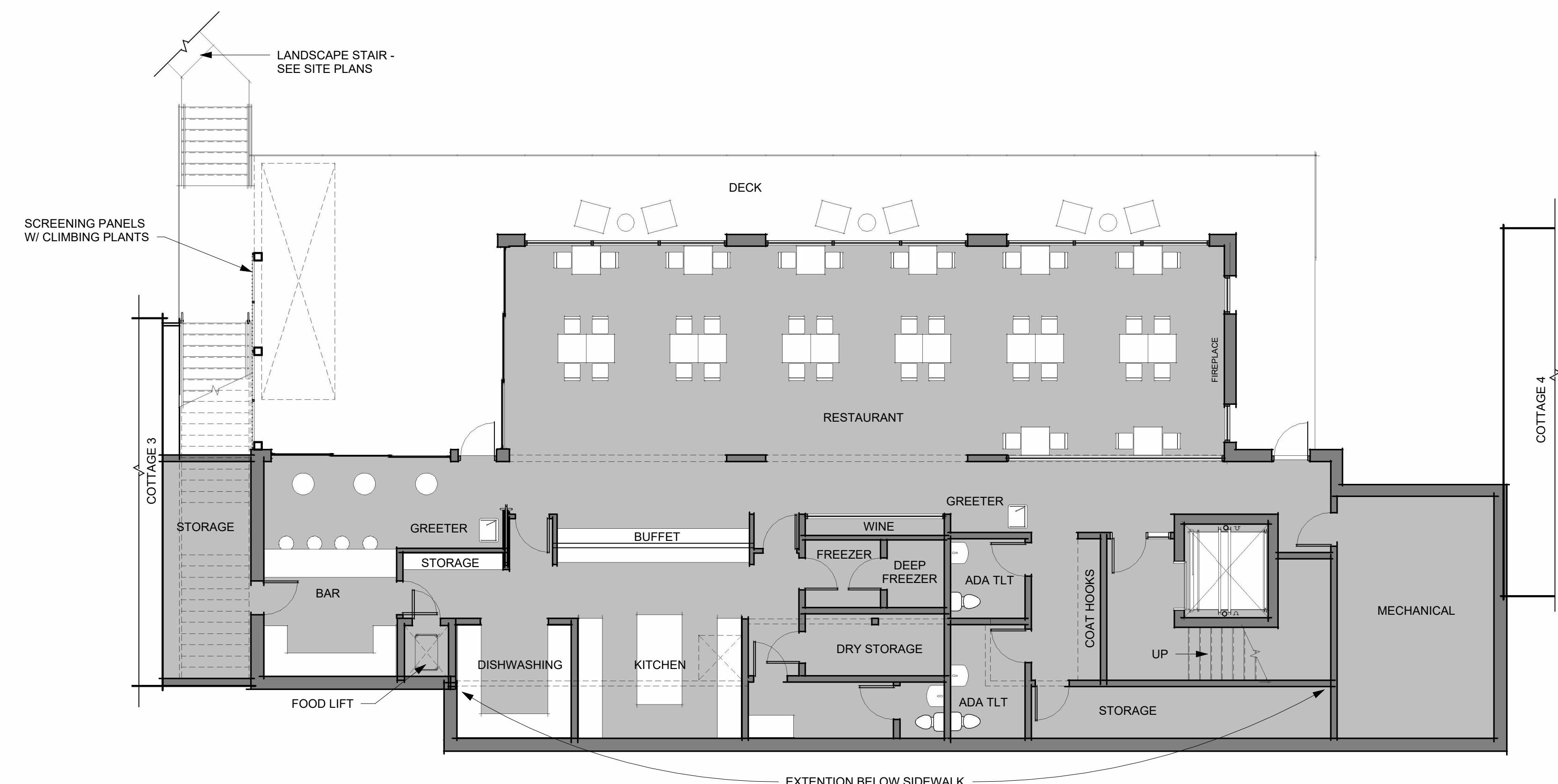
A3



③ UPPER LEVEL
1/8" = 1'-0"



② GROUND FLOOR
1/8" = 1'-0"



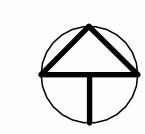
① LOWER LEVEL
1/8" = 1'-0"

THE H AT MALLETT'S BAY

MAIN BUILDING

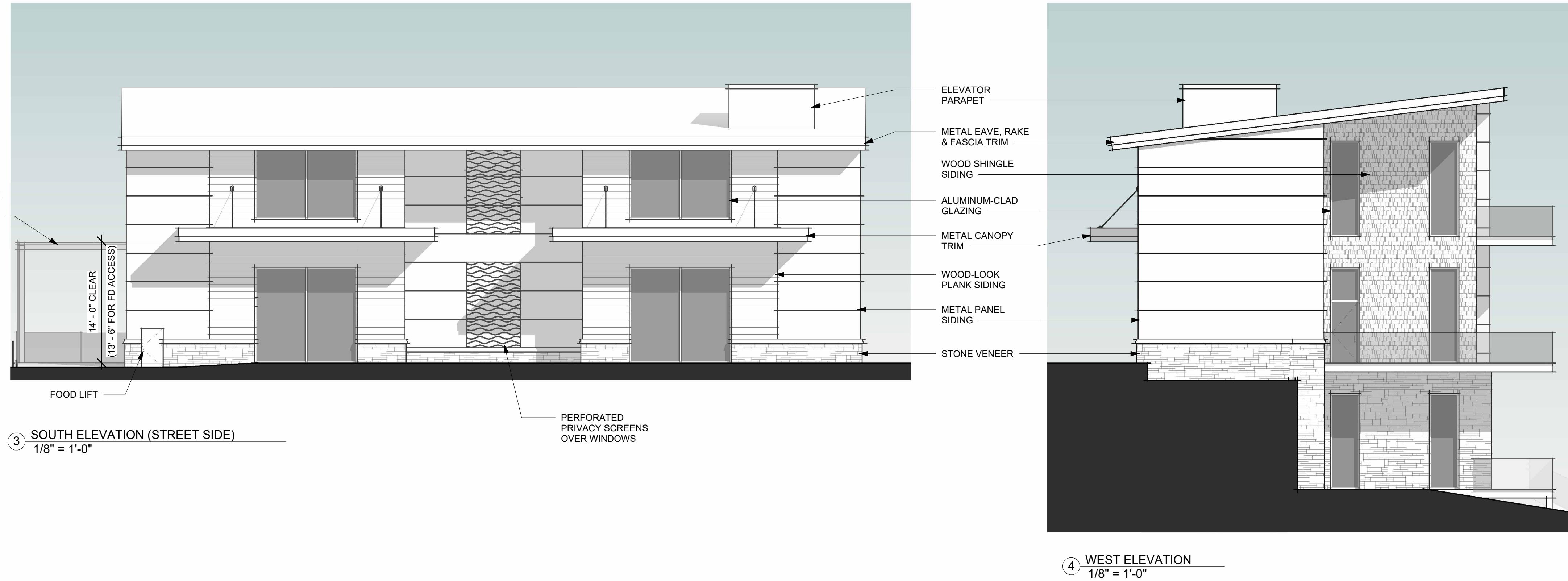
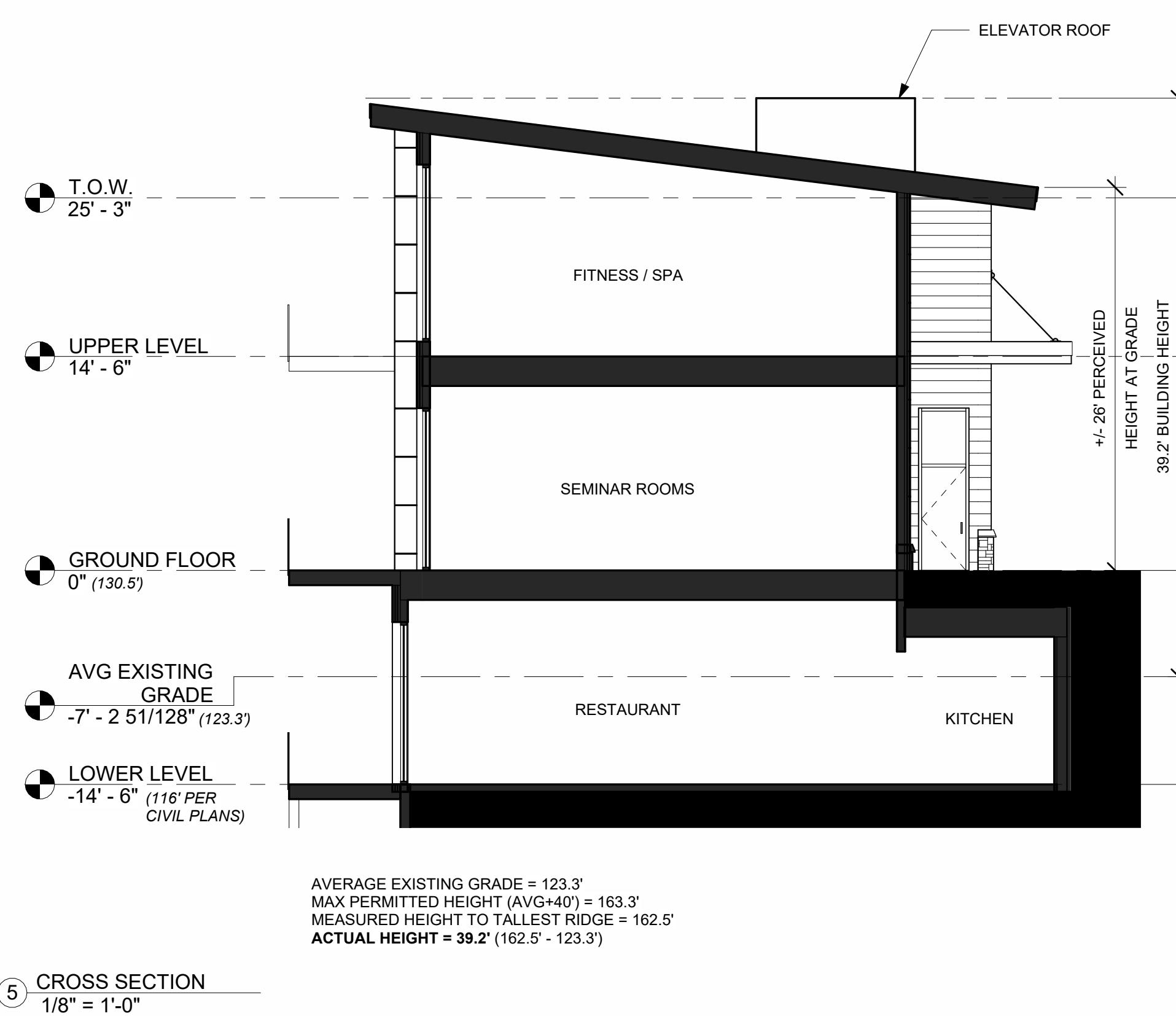
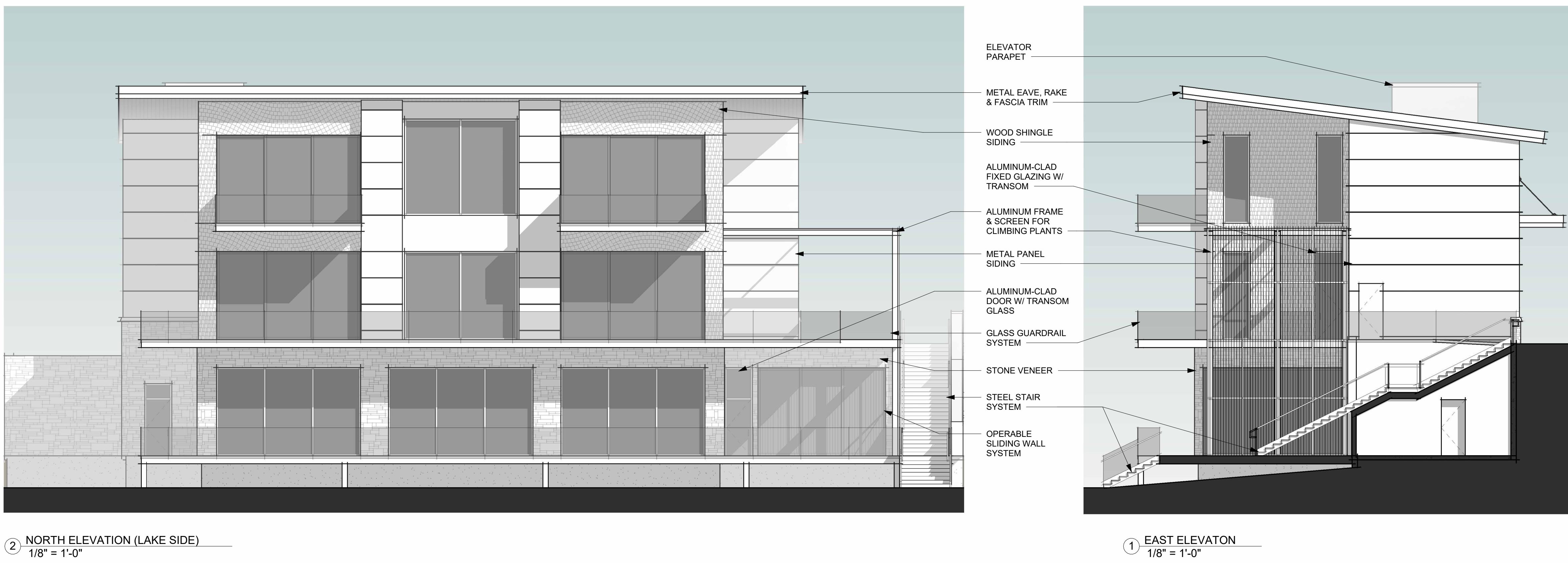
09/29/25

A4



SCALE (CM)
0' 50 100 200 300 400 500 600

SCALE: 1/8" = 1'-0" FT / 30.48 CM
0' 1' 5' 10' 20' 30' 40' 60' 609.6



THE H AT MALLETT'S BAY

MAIN BUILDING

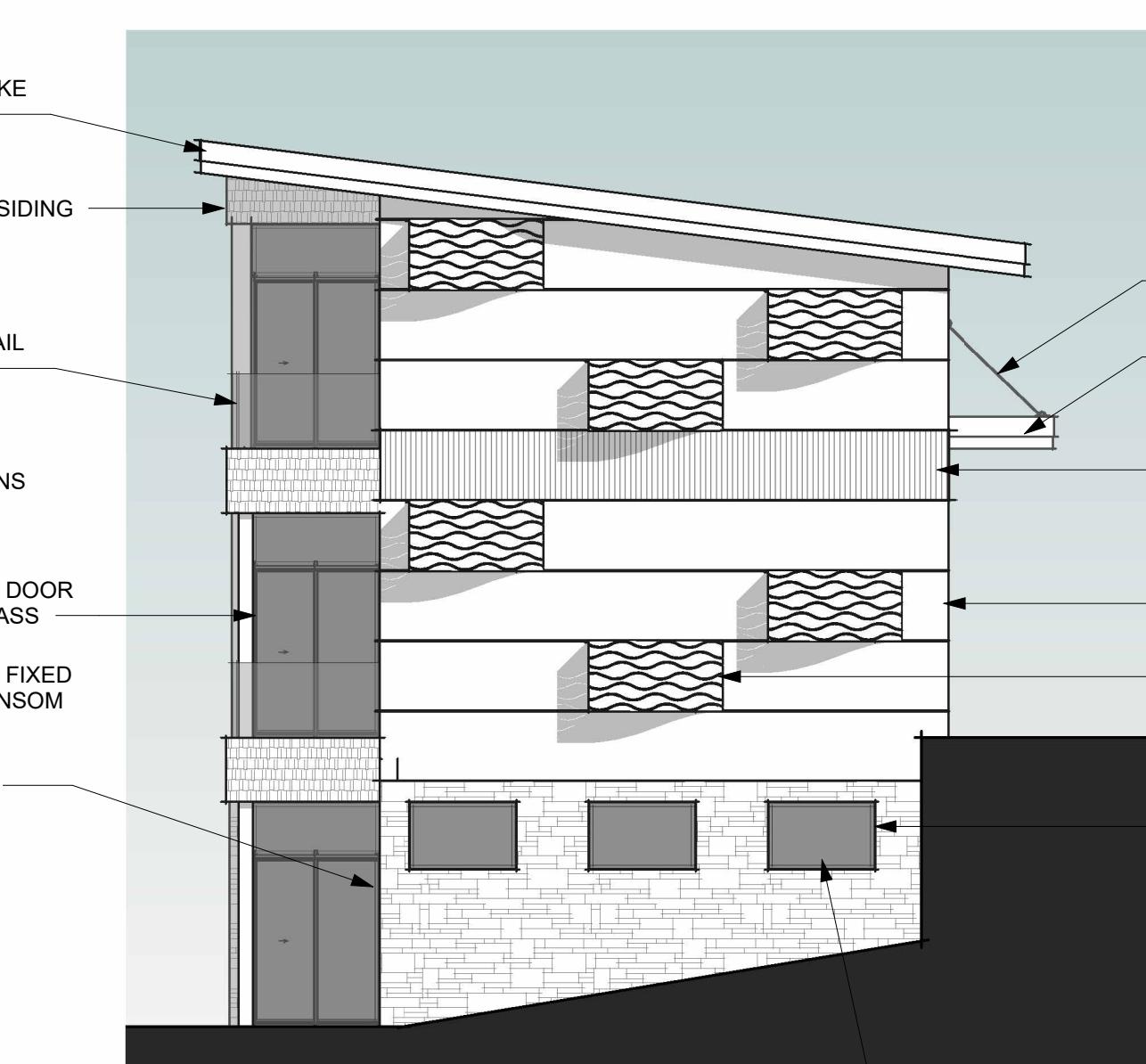
09/29/2025

SCALE (CM)
0' 50 100 200 300 400 500 600

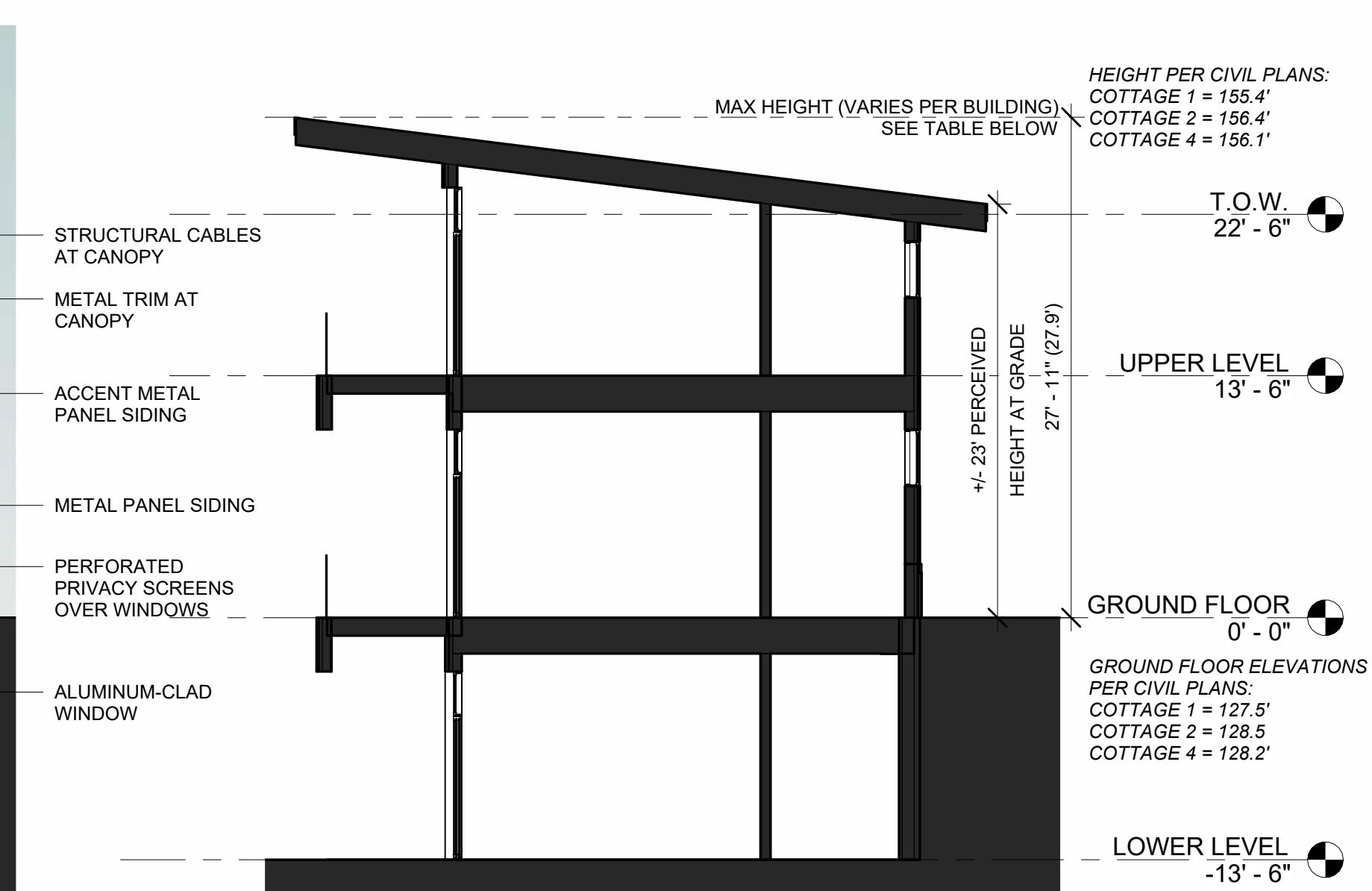
SCALE: 1/8" = 1'-0" FT / 30.48 CM
0' 1' 5' 10' 20'
30.48 152.4 304.8 609.6



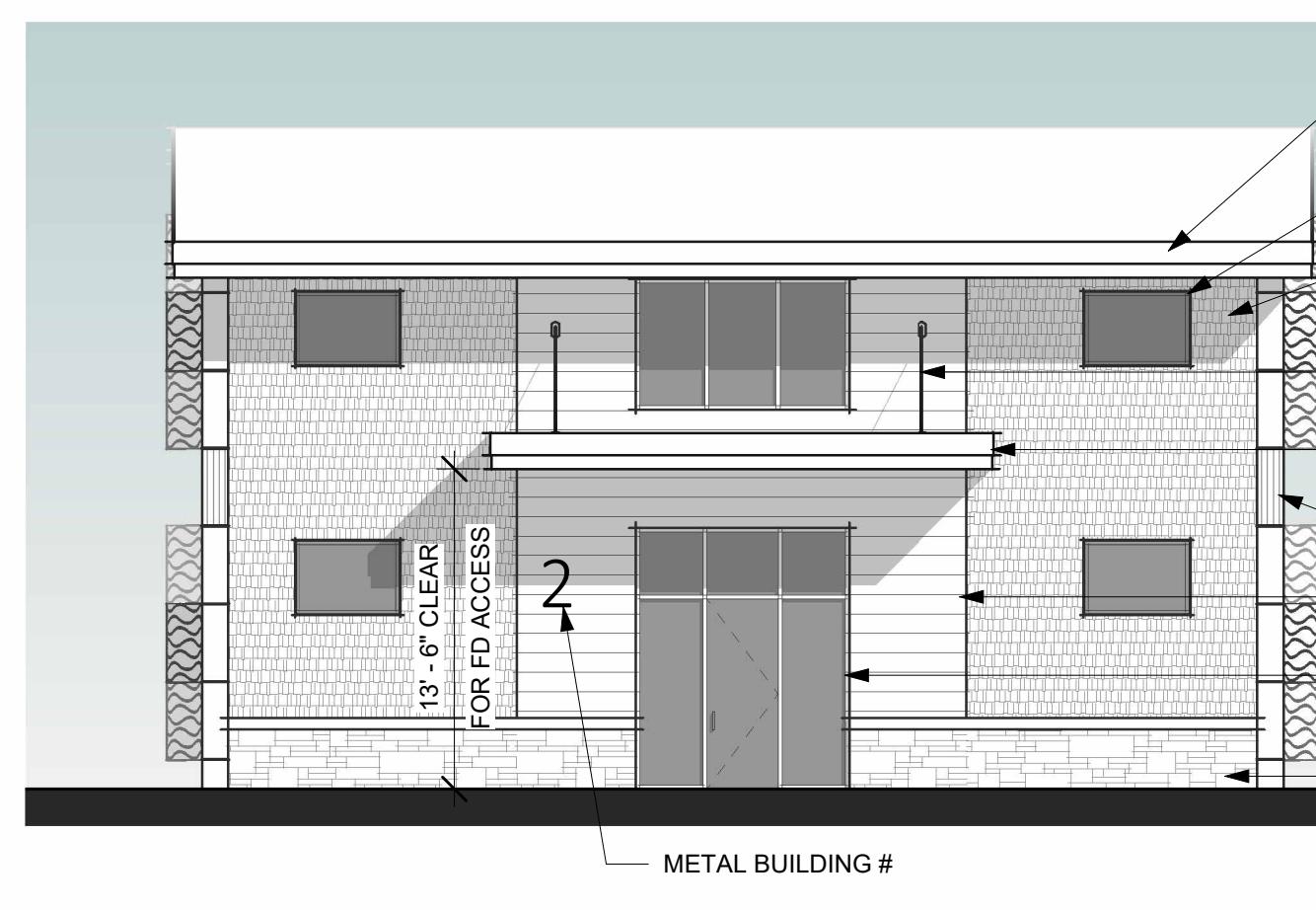
④ NORTH
1/8" = 1'-0"



⑤ WEST
1/8" = 1'-0"



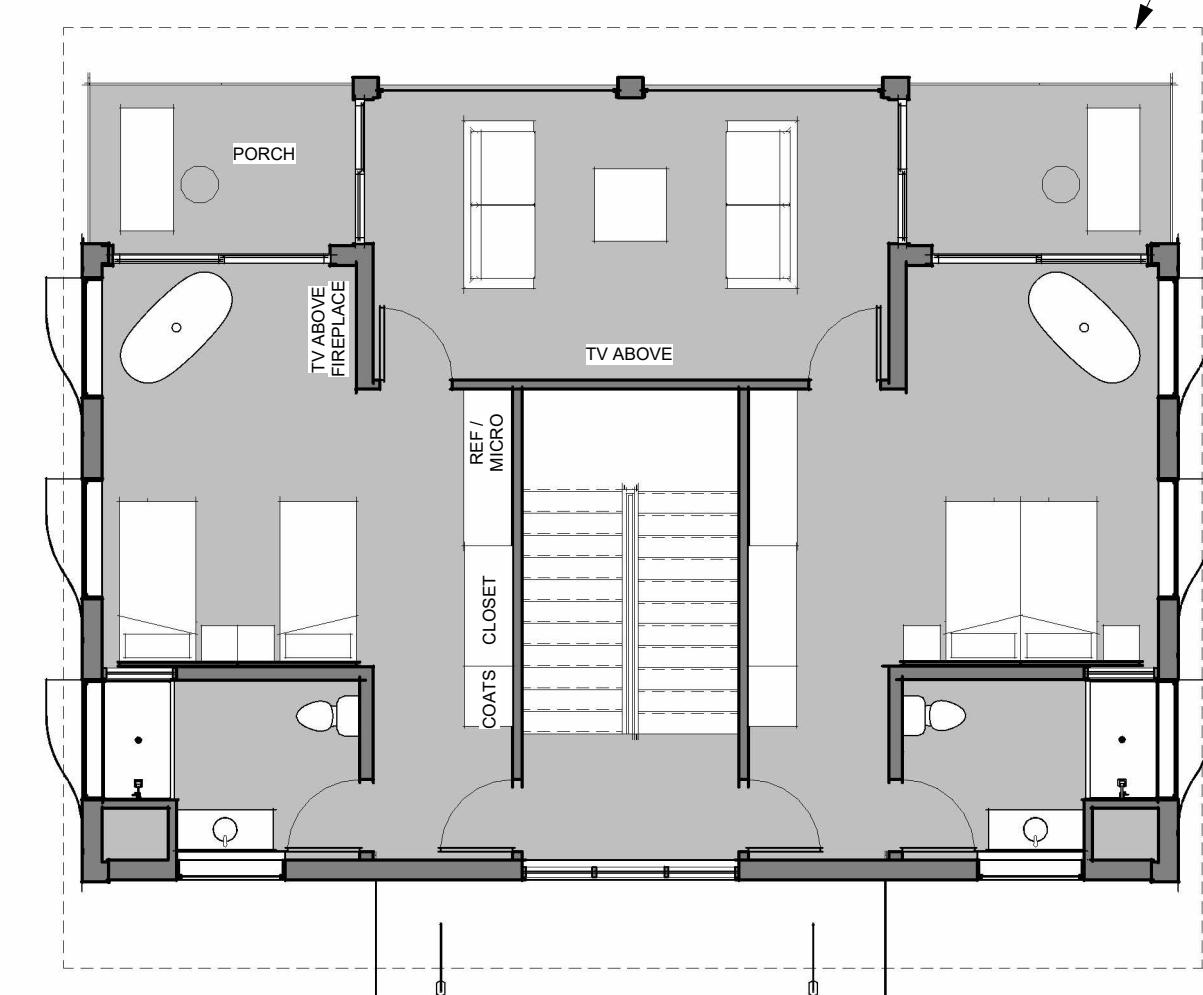
⑧ CROSS SECTION
1/8" = 1'-0"



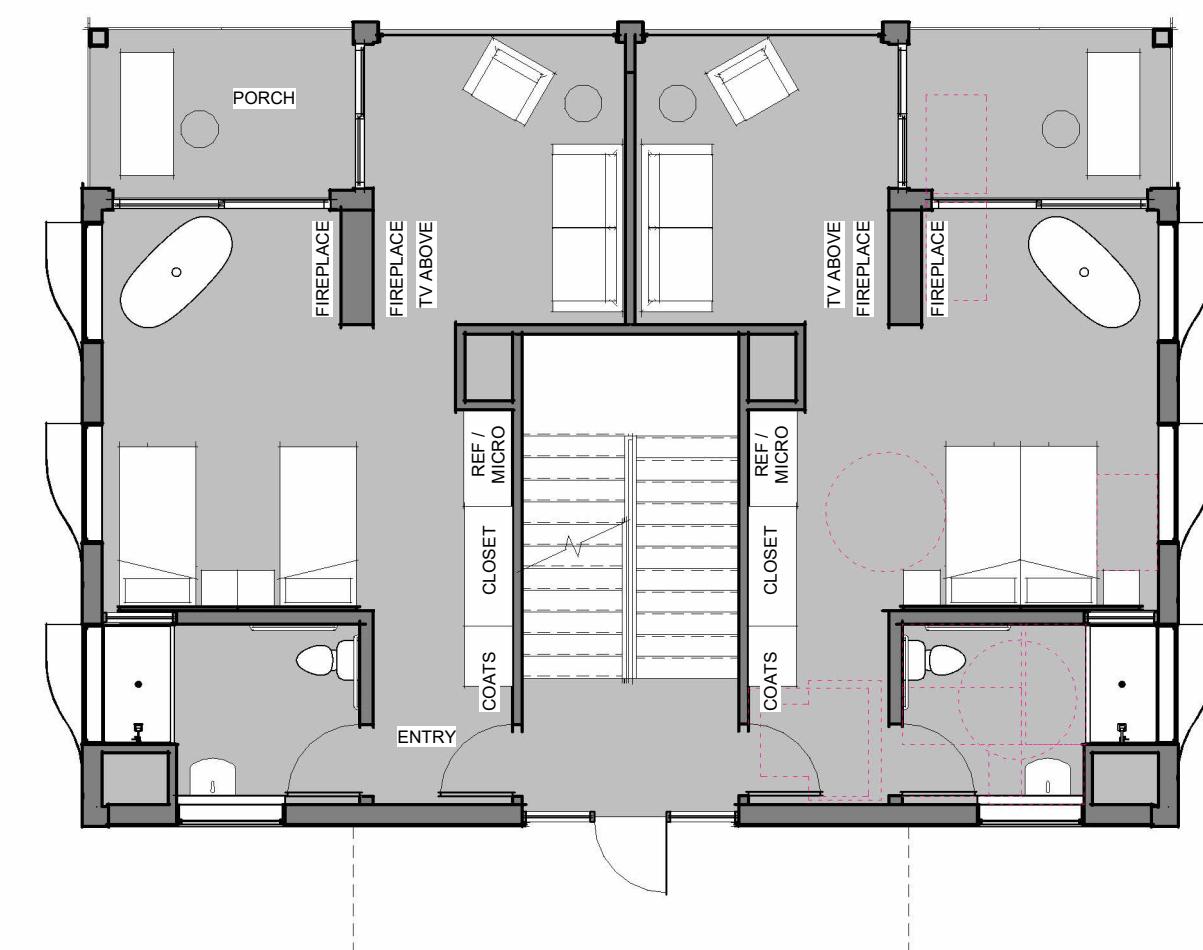
⑥ SOUTH
1/8" = 1'-0"



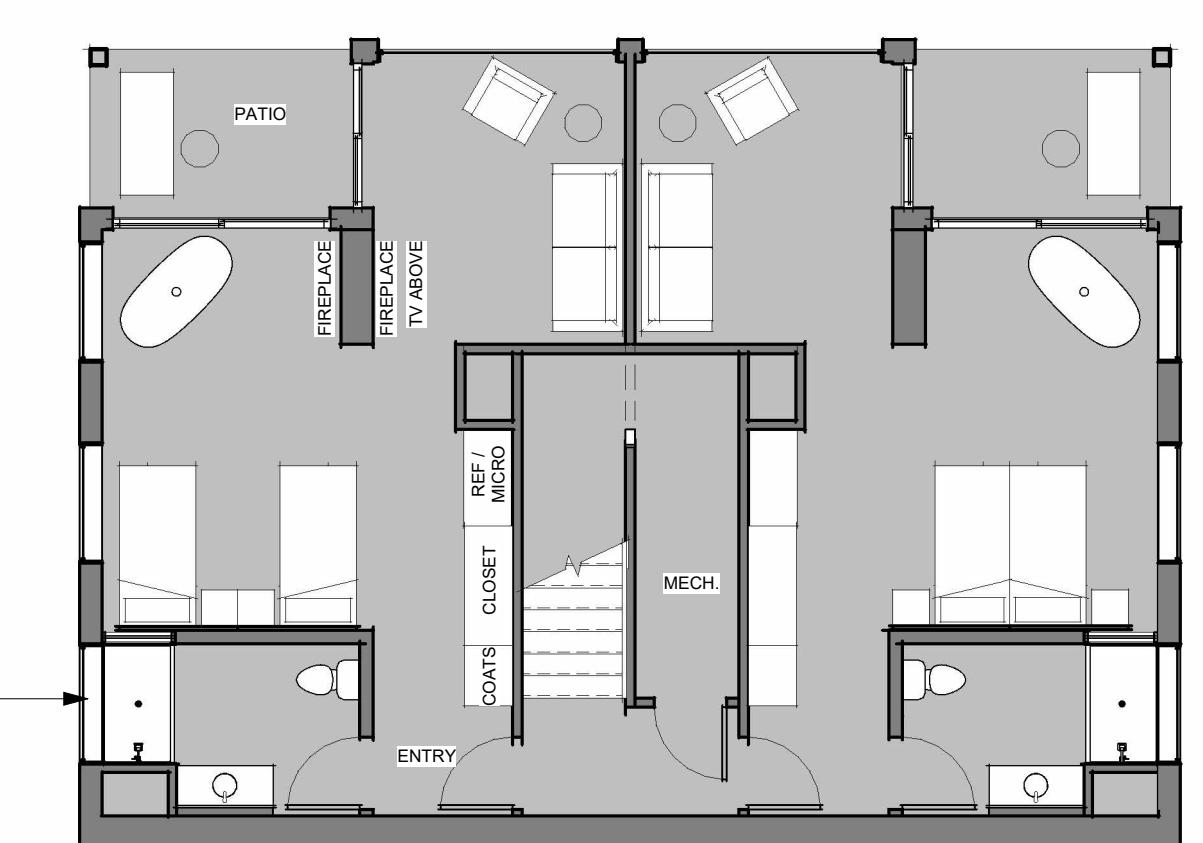
⑦ EAST
1/8" = 1'-0"



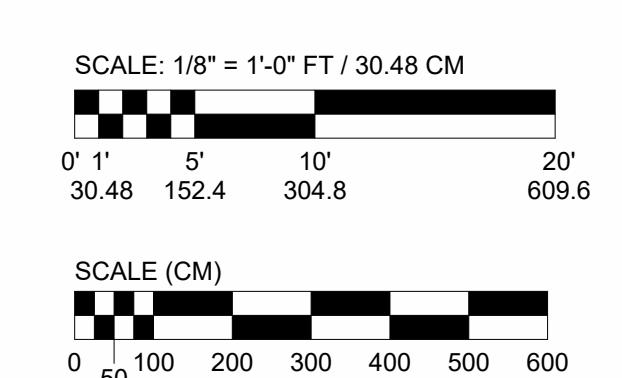
(1) 2-BEDROOM SUITE
③ UPPER LEVEL
1/8" = 1'-0"



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



(2) STUDIO UNITS
② LOWER LEVEL
1/8" = 1'-0"



OF ROOMS PERMITTED FOR USE AS AN INN = 20
OF ROOMS PERMITTED TO HAVE "TYPICAL APARTMENT TYPE FURNISHINGS"** = 40% (8 ROOMS)
*KITCHEN, BATH, LIVING SPACE AND SEPARATE BEDROOM

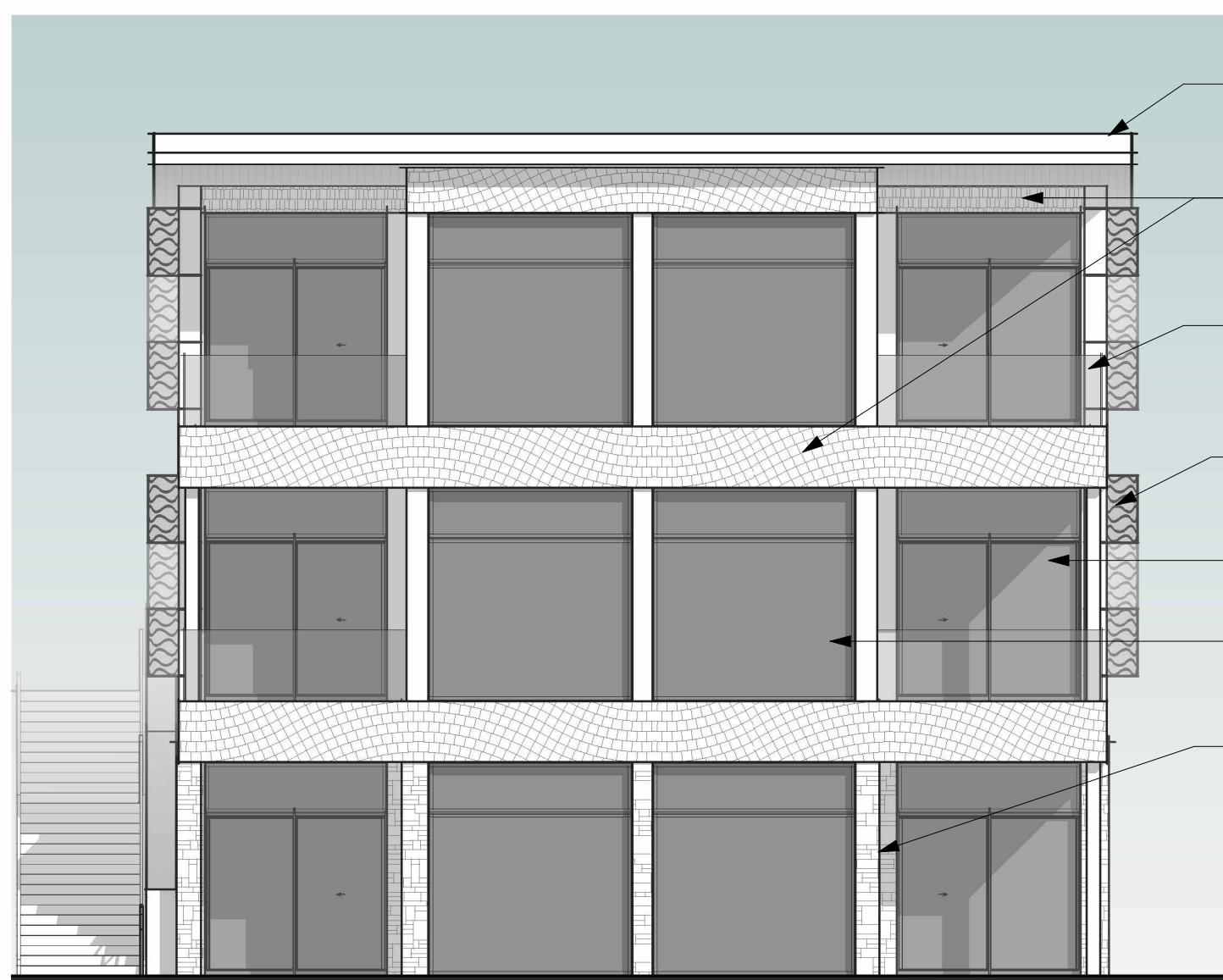
THE PROPOSED PROJECT COMPLIES WITH THIS REQUIREMENT

THE H AT MALLETT'S BAY

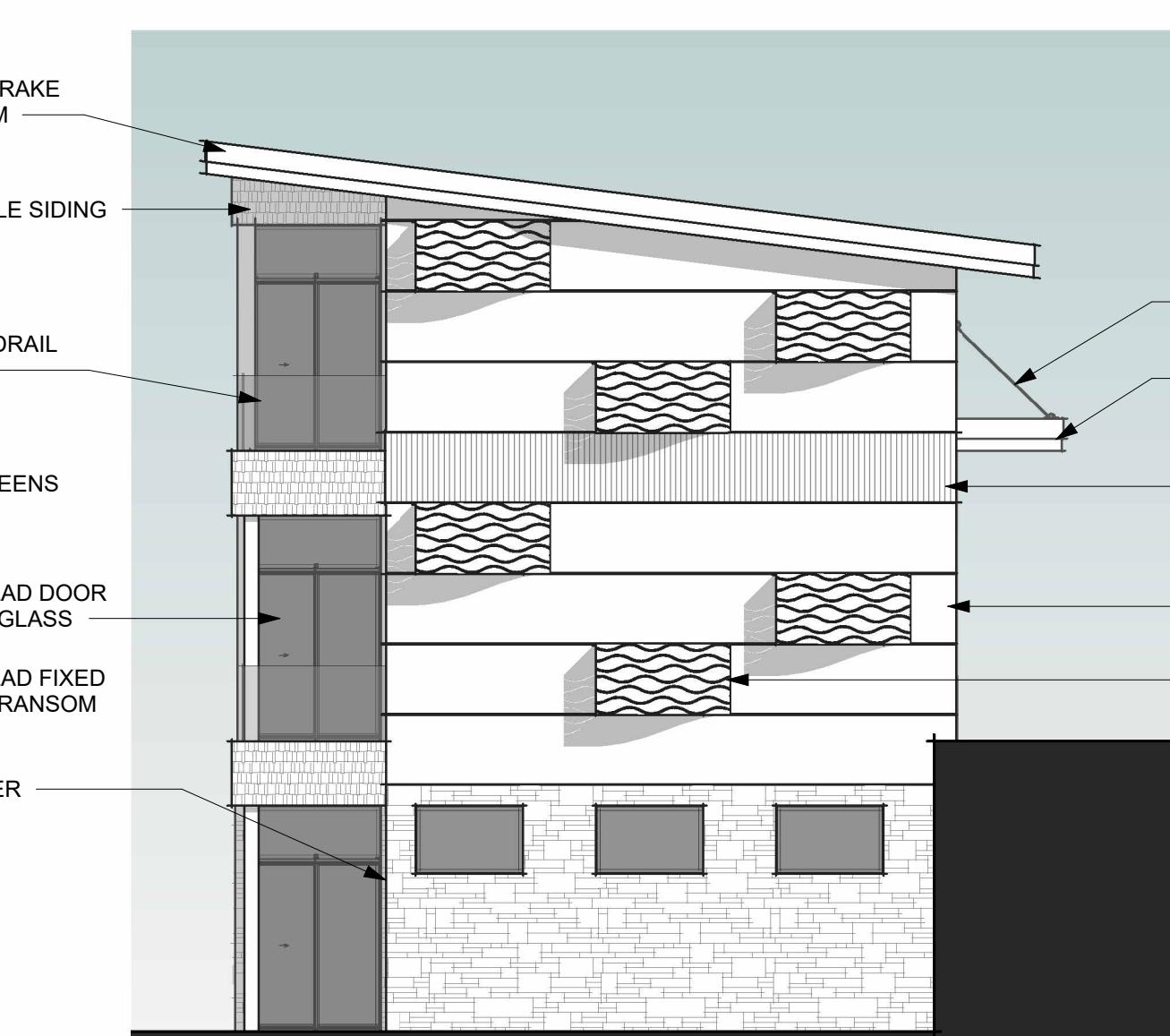
TYPICAL COTTAGE (1, 2 & 4)

09/29/25 THREE BUILDINGS, EACH CONTAINING (4) STUDIOS & (1) 2-BEDROOM SUITE

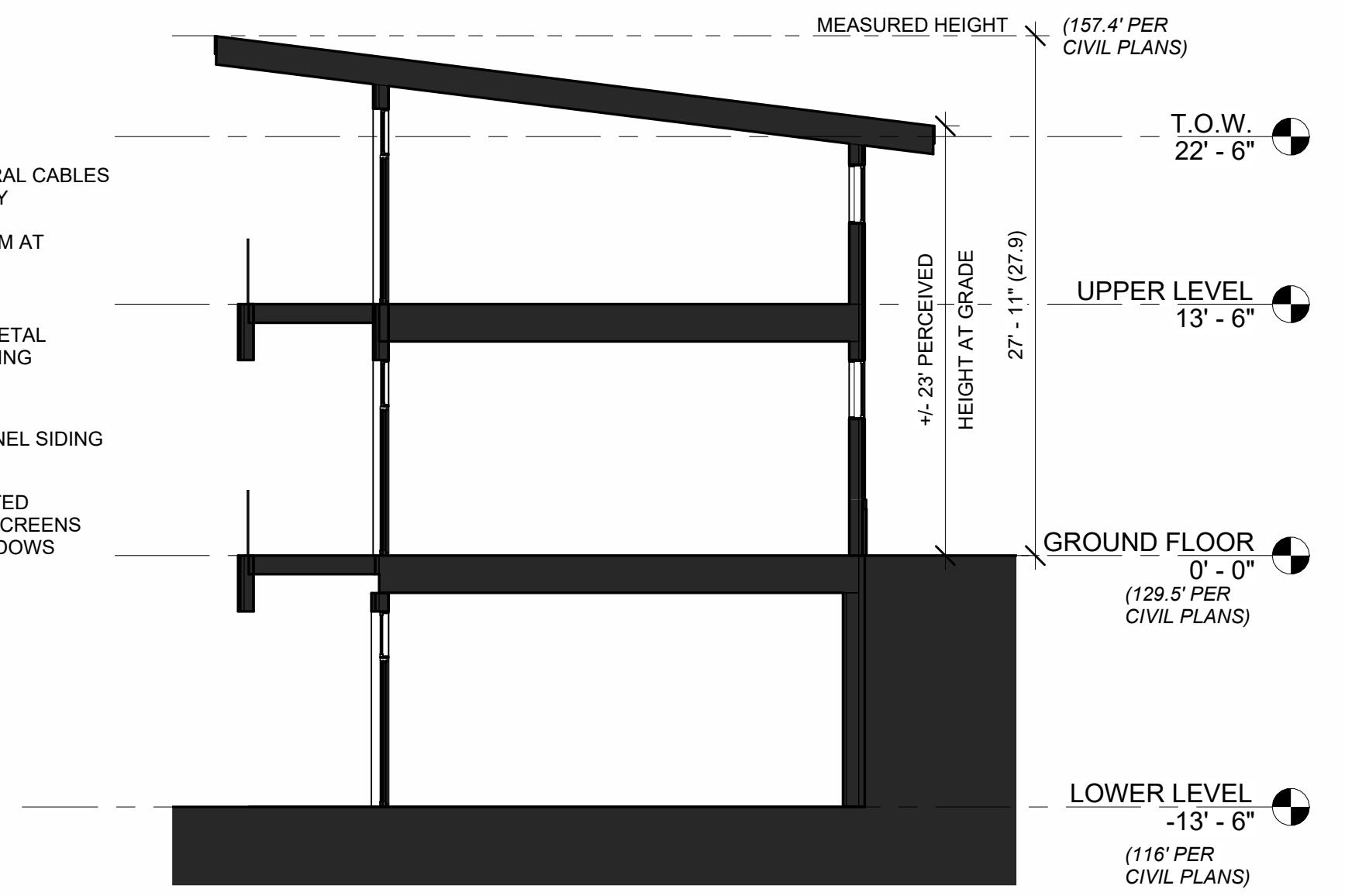
A6



④ NORTH
1/8" = 1'-0"

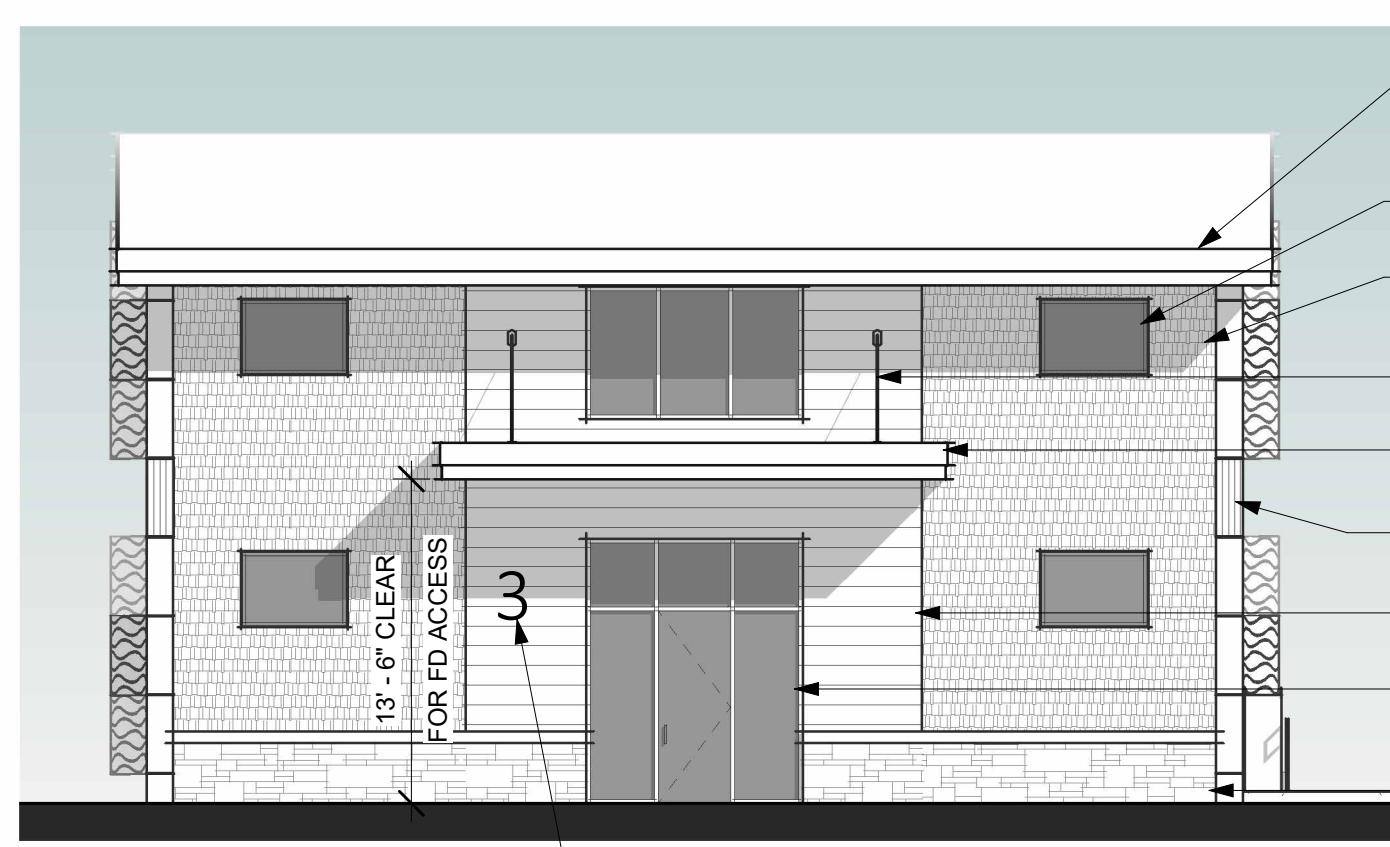


⑤ WEST
1/8" = 1'-0"

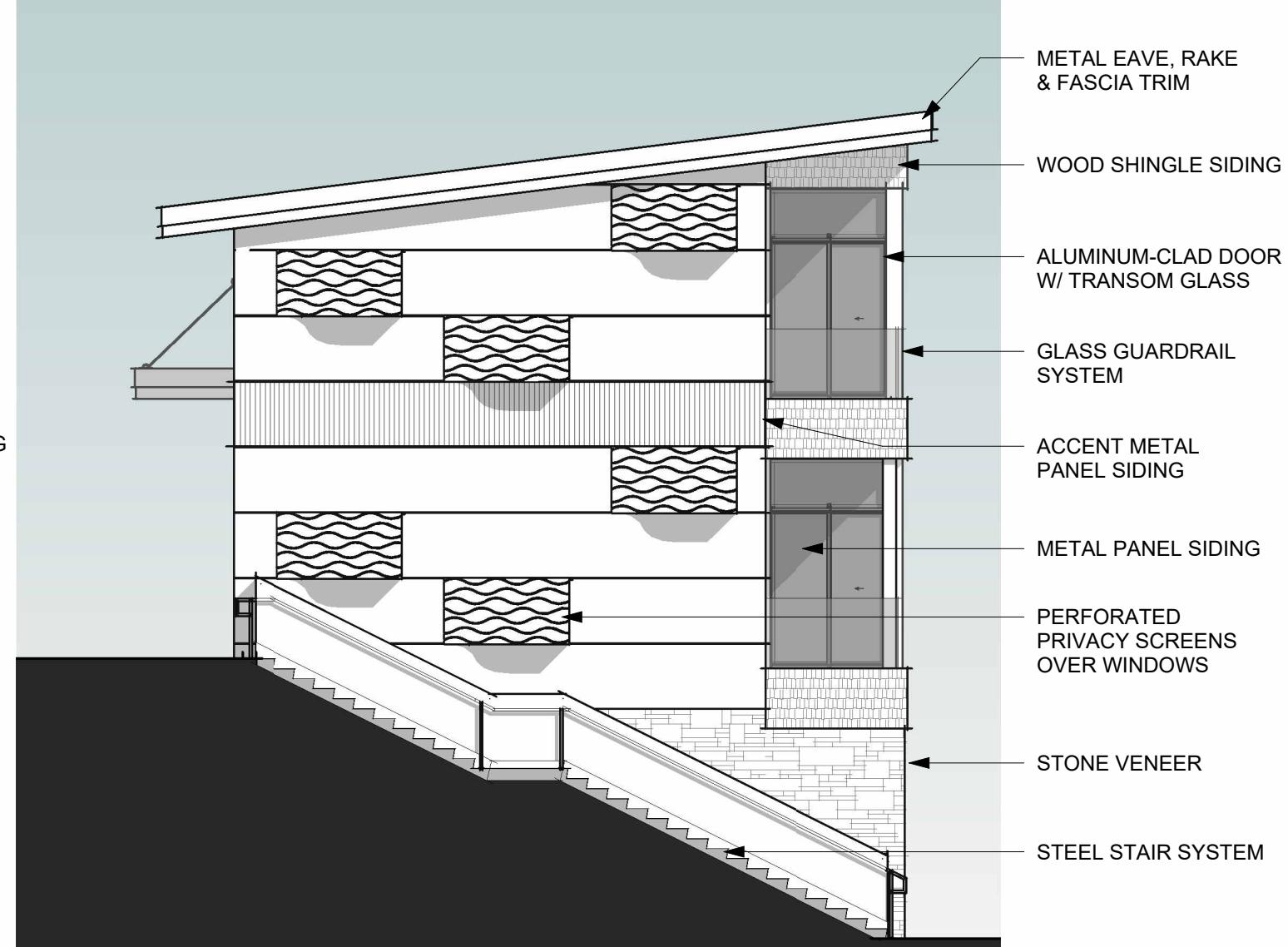


⑧ CROSS SECTION
1/8" = 1'-0"

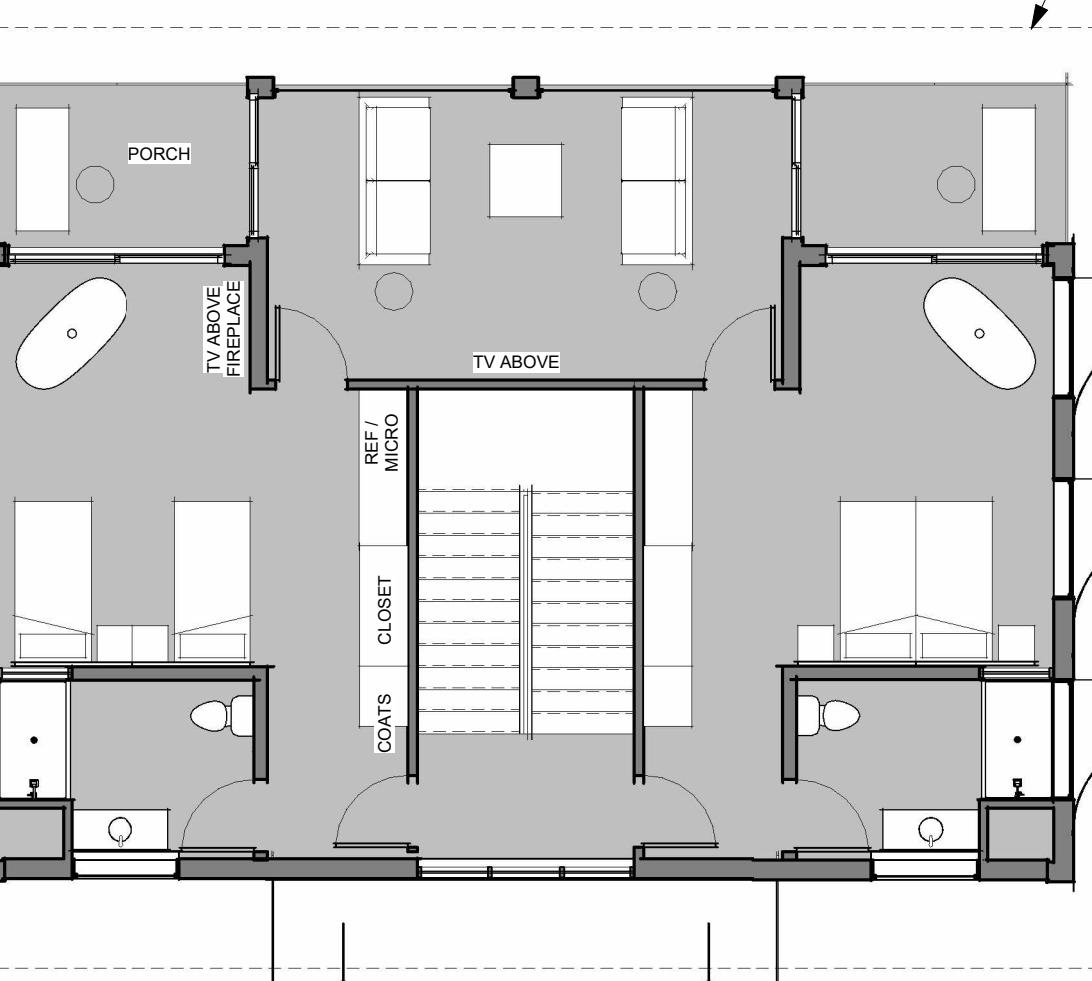
AVERAGE EXISTING GRADE = 127.0'
MAX PERMITTED HEIGHT (AVE+40') = 167.0'
MEASURED HEIGHT TO TALLEST RIDGE = 157.4'
ACTUAL HEIGHT = 30.4' (157.4' - 127.0')



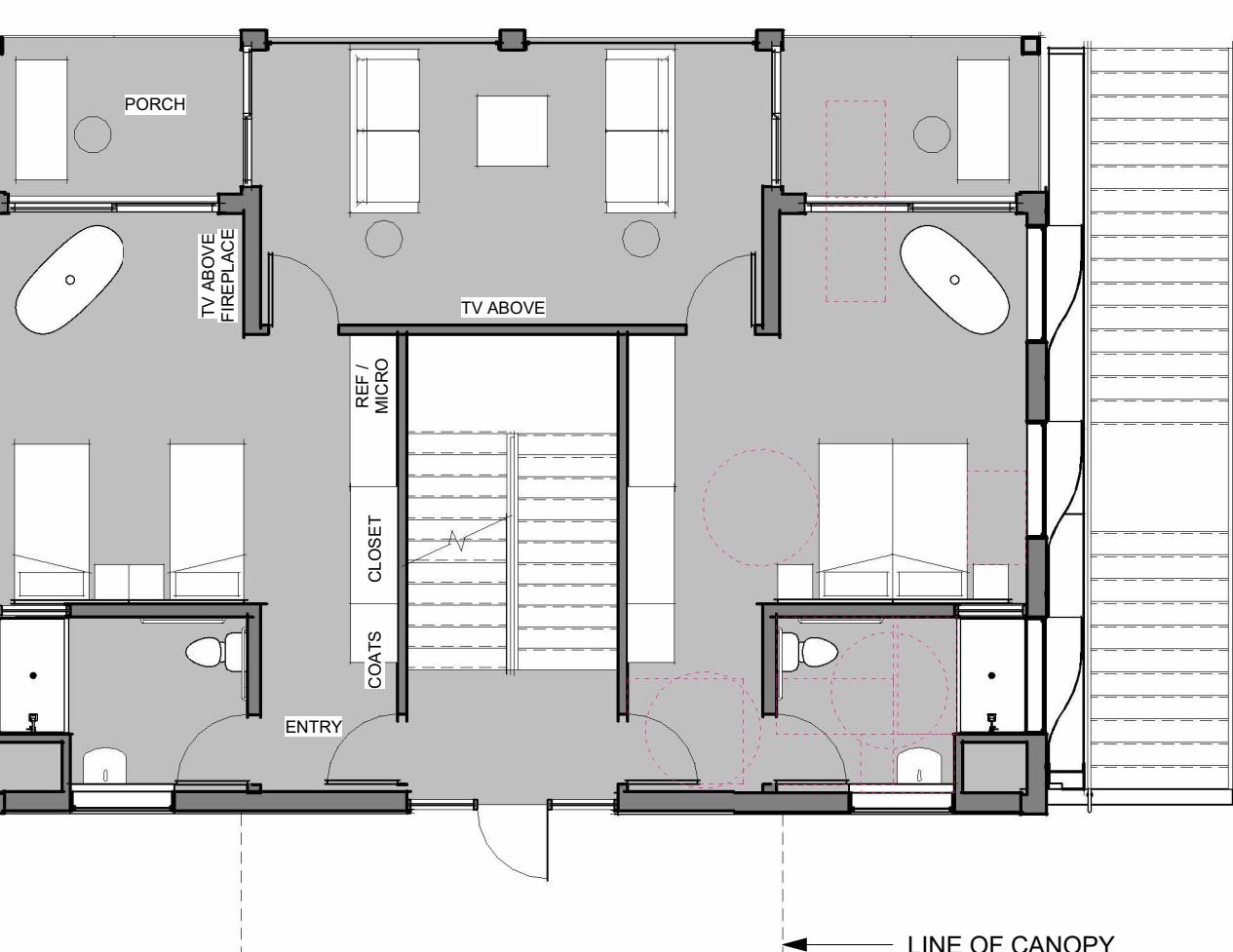
⑥ SOUTH
1/8" = 1'-0"



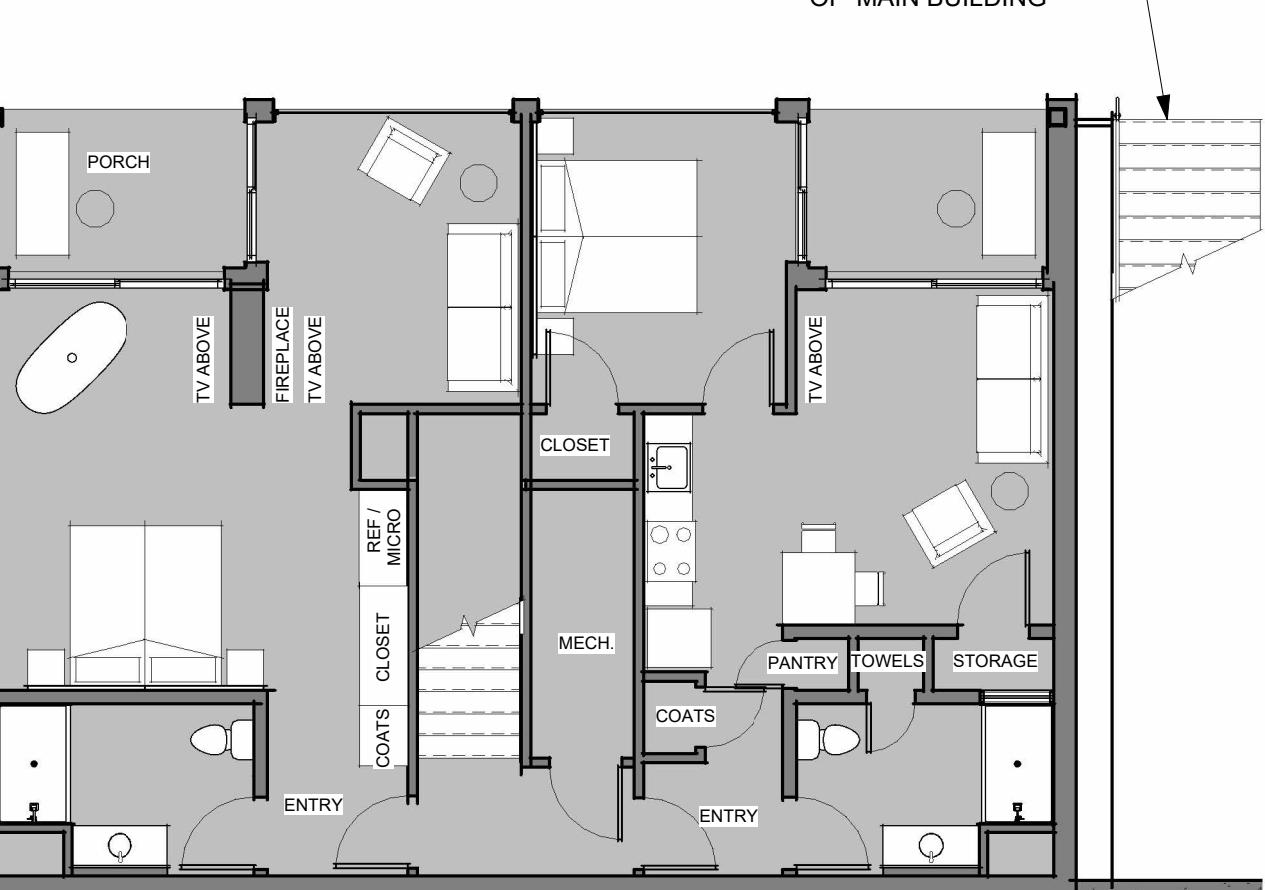
⑦ EAST
1/8" = 1'-0"



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



(1) 2-BEDROOM SUITE
① GROUND FLOOR
1/8" = 1'-0"



(1) 1-BR UNIT
(1) STUDIO UNIT
② LOWER LEVEL
1/8" = 1'-0"

SCALE: 1/8" = 1'-0" FT / 30.48 CM
0' 1" 5' 10' 20'
30.48 152.4 304.8 609.6

SCALE (CM)
0 50 100 200 300 400 500 600

OF ROOMS PERMITTED FOR USE AS AN INN = 20
OF ROOMS PERMITTED TO HAVE "TYPICAL APARTMENT TYPE FURNISHINGS" = 40% (8 ROOMS)
*KITCHEN, BATH, LIVING SPACE AND SEPARATE BEDROOM

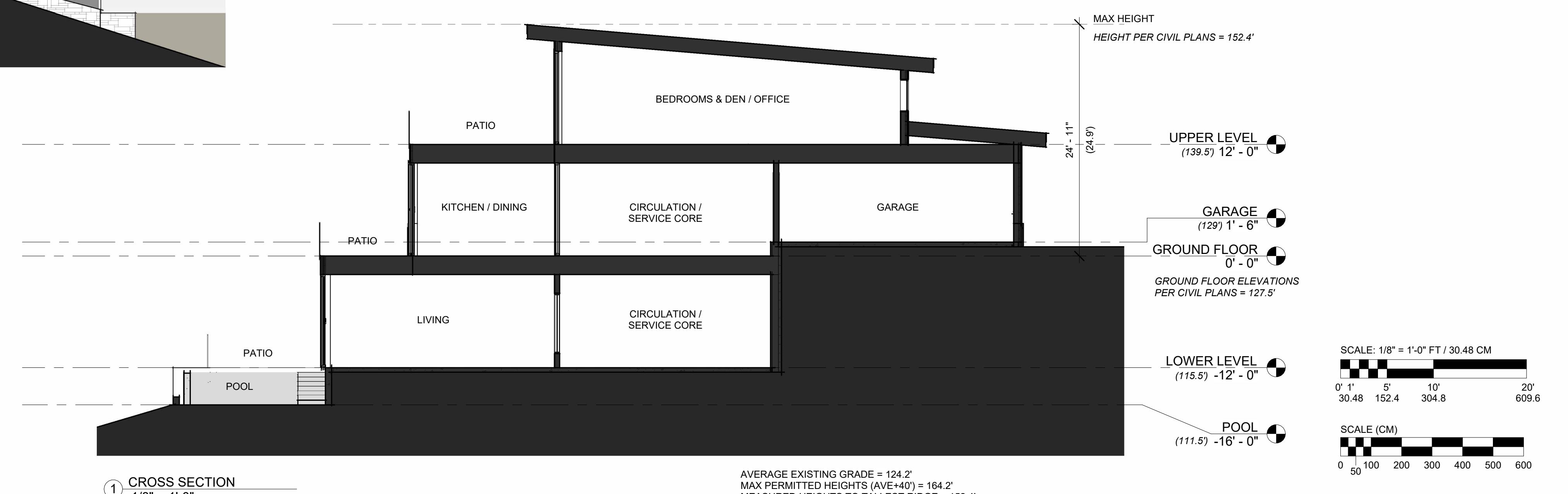
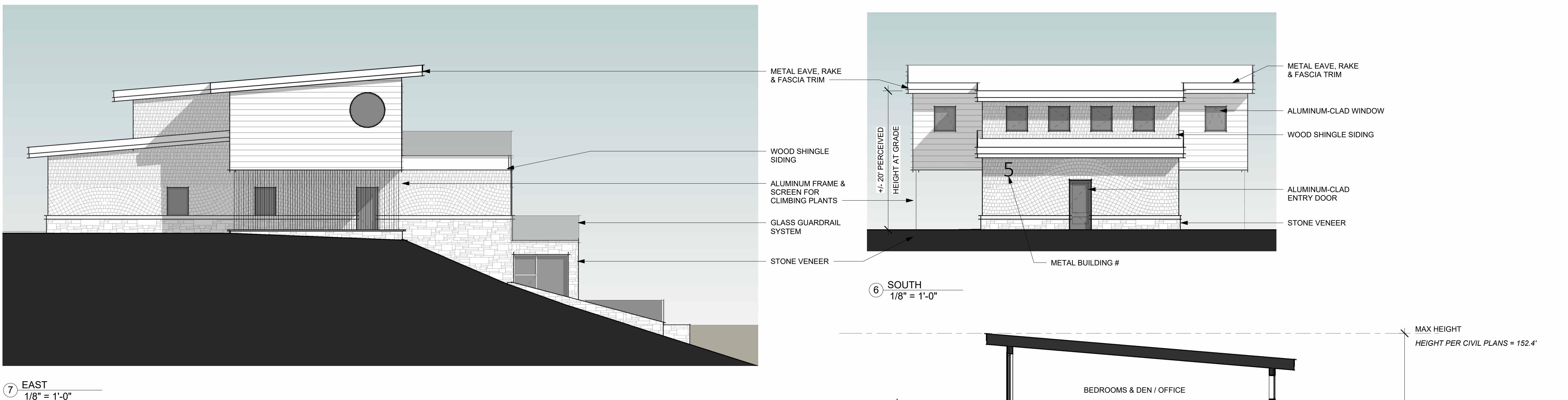
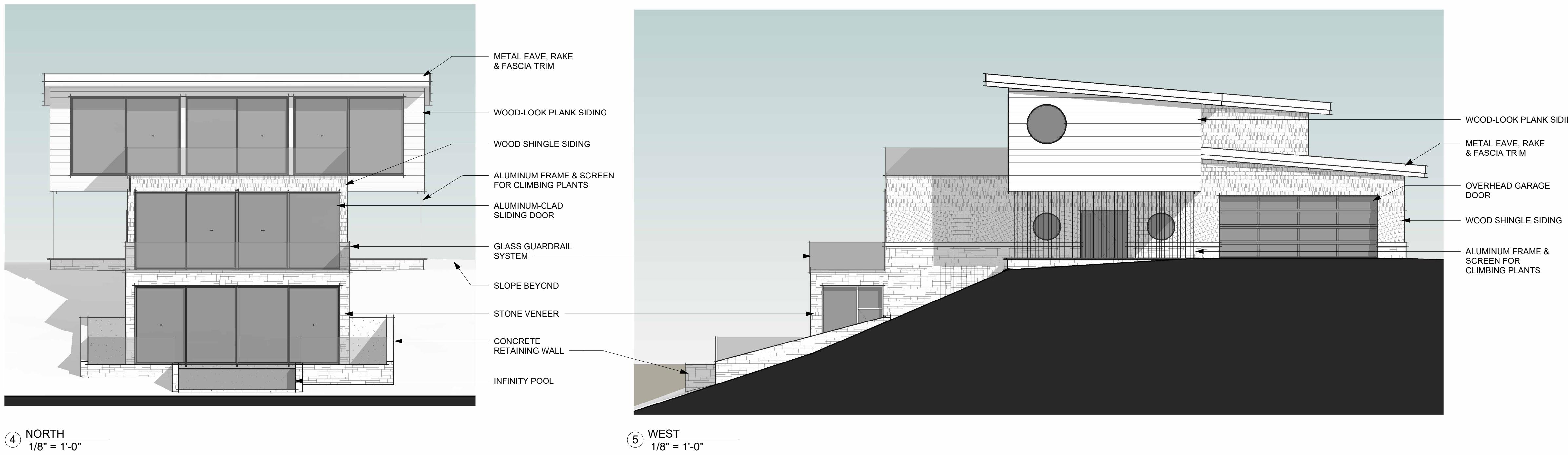
THE PROPOSED PROJECT COMPLIES WITH THIS REQUIREMENT

THE H AT MALLETT'S BAY

COTTAGE 3

09/29/25
ONE BUILDING, CONTAINING (1) STUDIO, (1) 1-BEDROOM &
(2) 2-BEDROOM SUITES

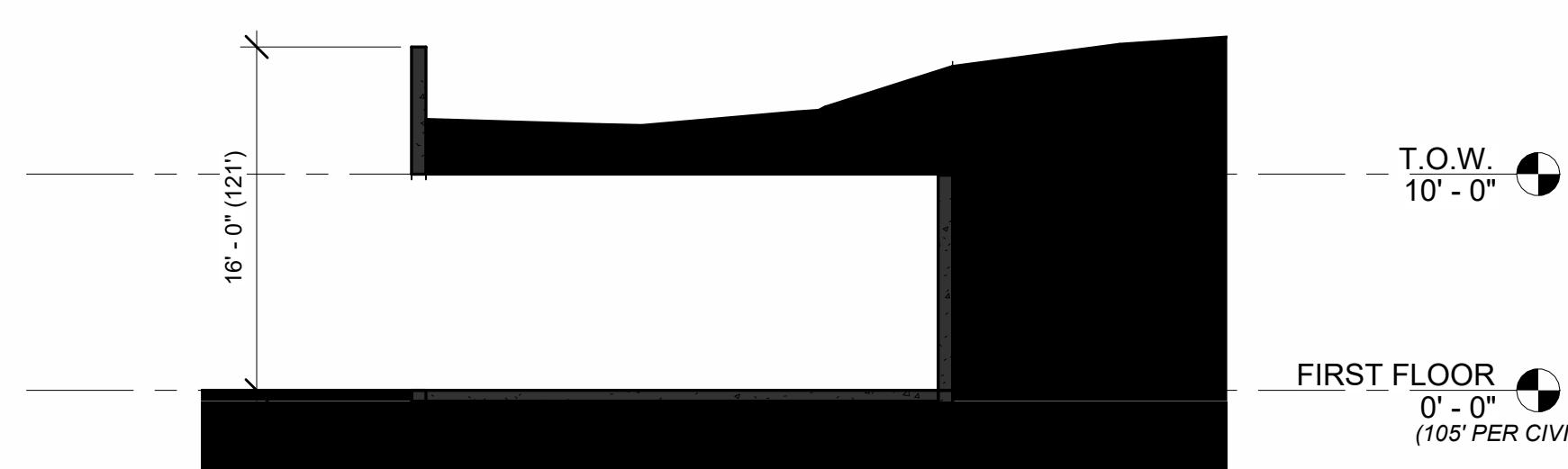
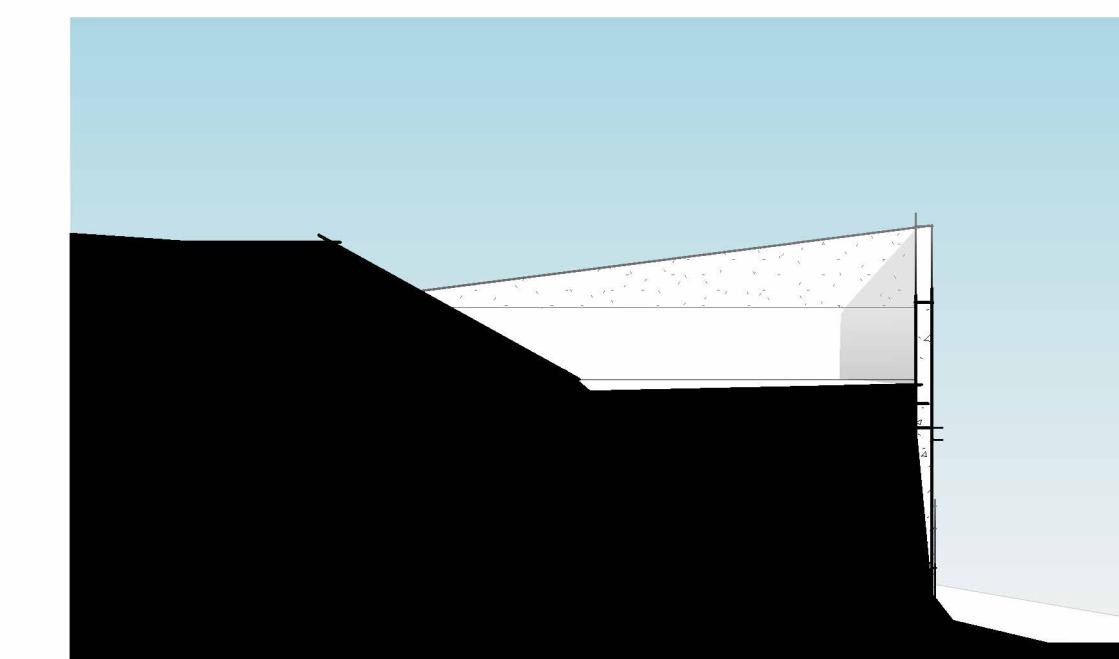
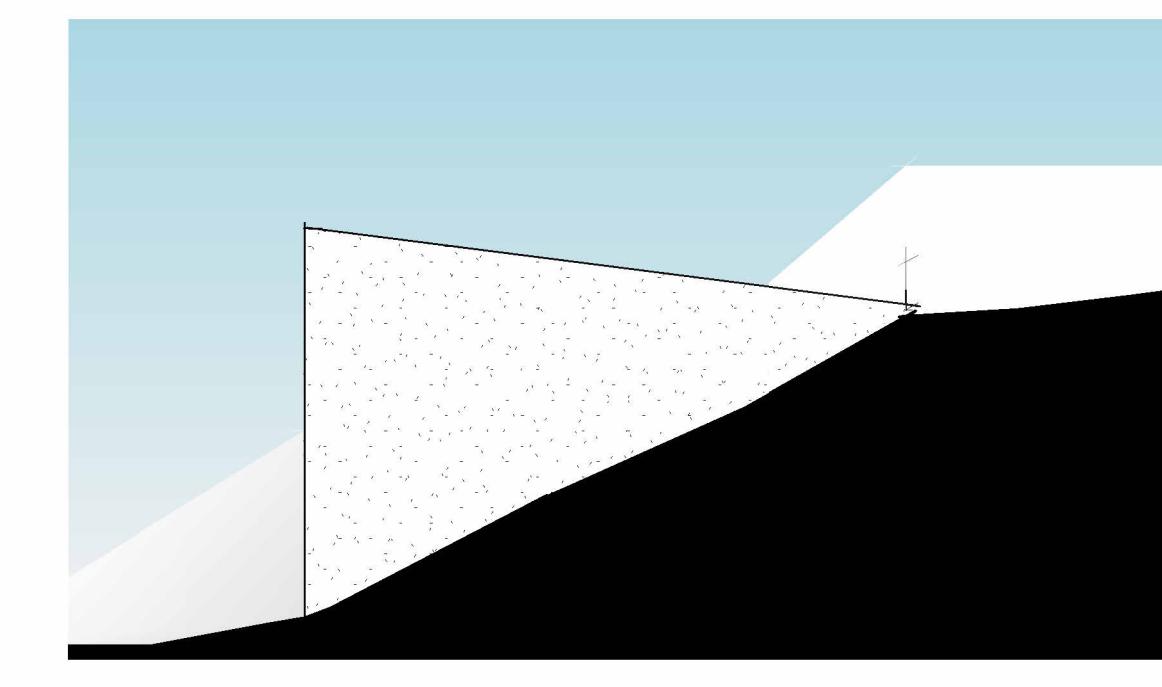
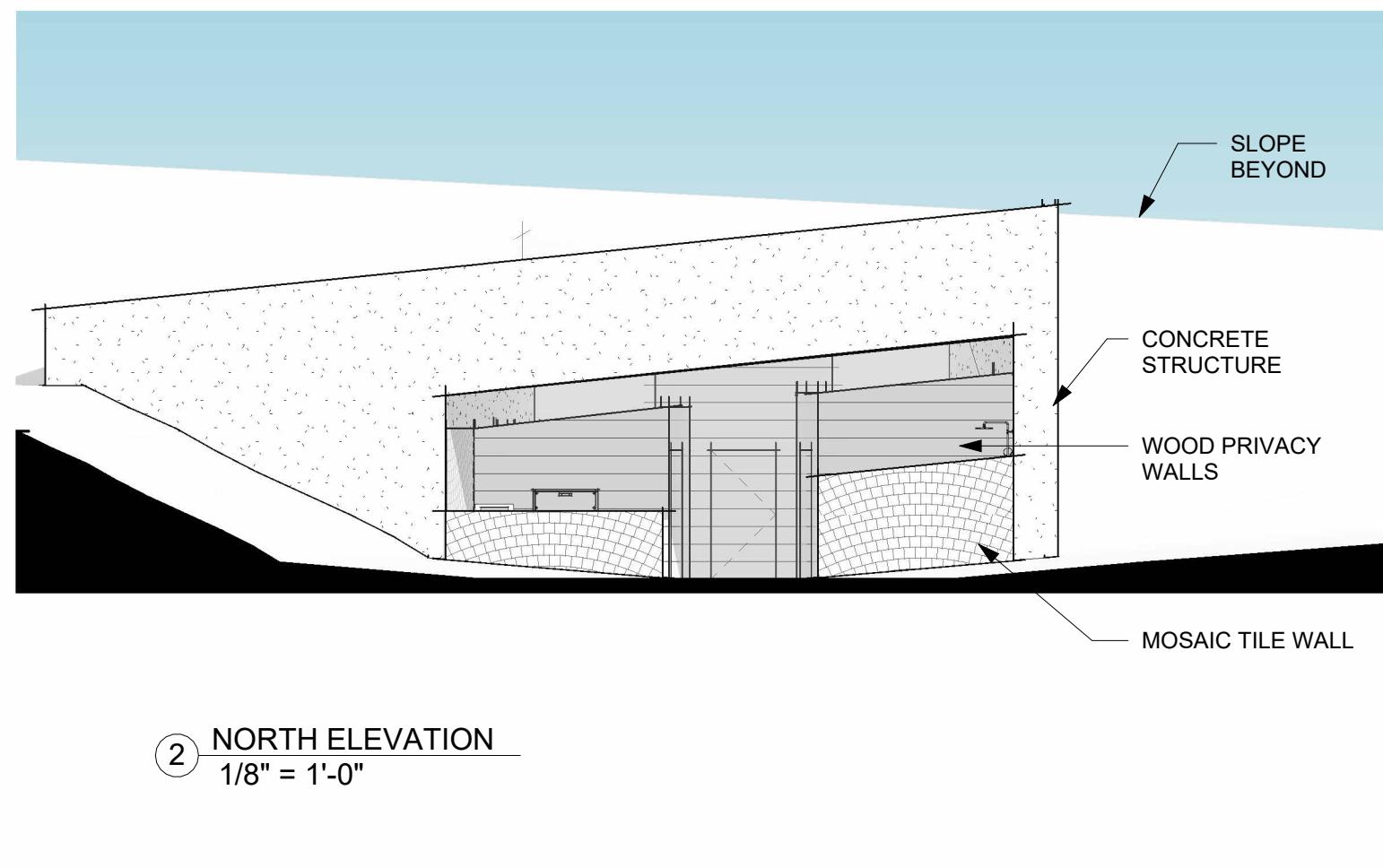
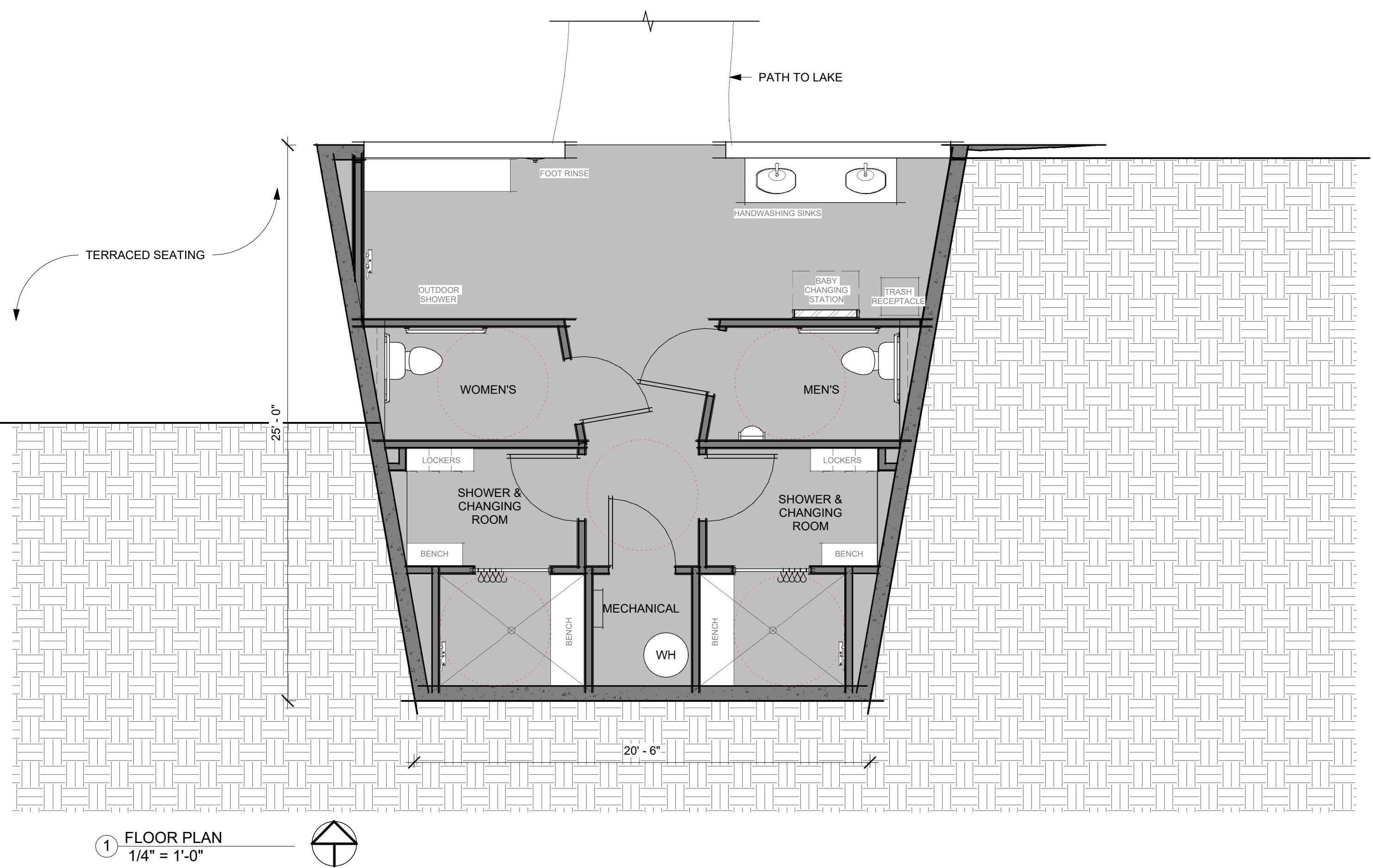
A7



THE H AT MALLETT'S BAY

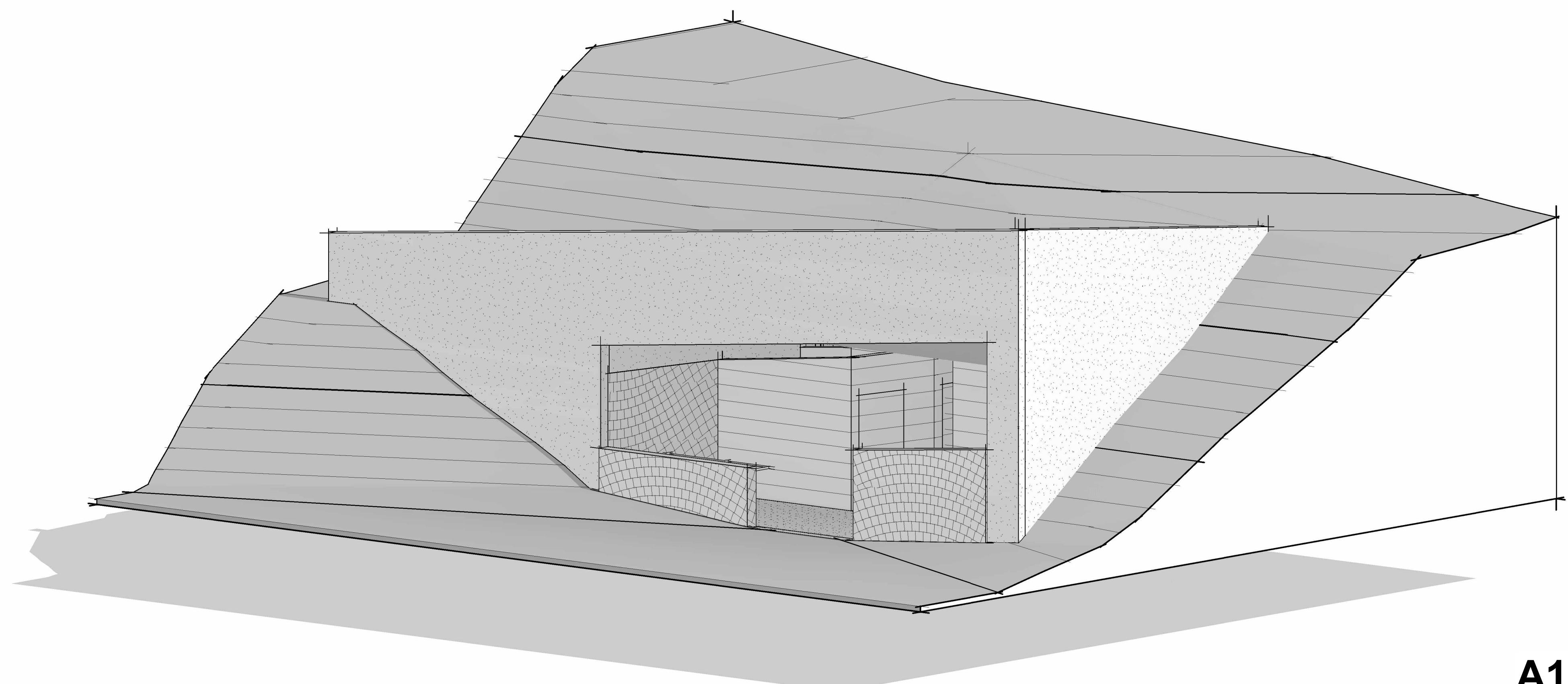
COTTAGE 5

09/29/25



AVERAGE EXISTING GRADE = 115'
MAX PERMITTED HEIGHT (AVE+20') = 125'
MEASURED HEIGHT TO TALLEST RIDGE = 121'
ACTUAL HEIGHT = 6' (121' - 115')

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

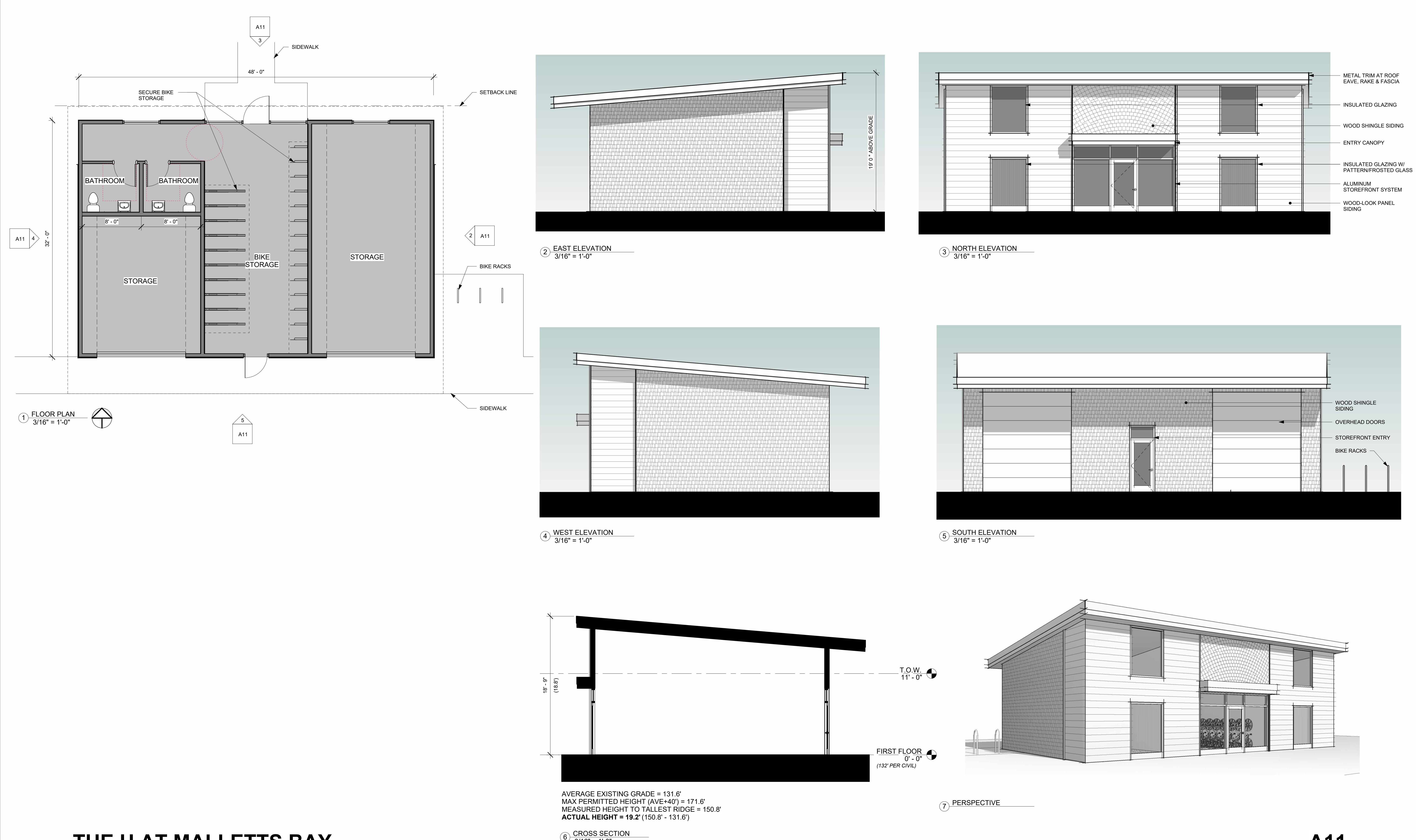


THE H AT MALLETT'S BAY

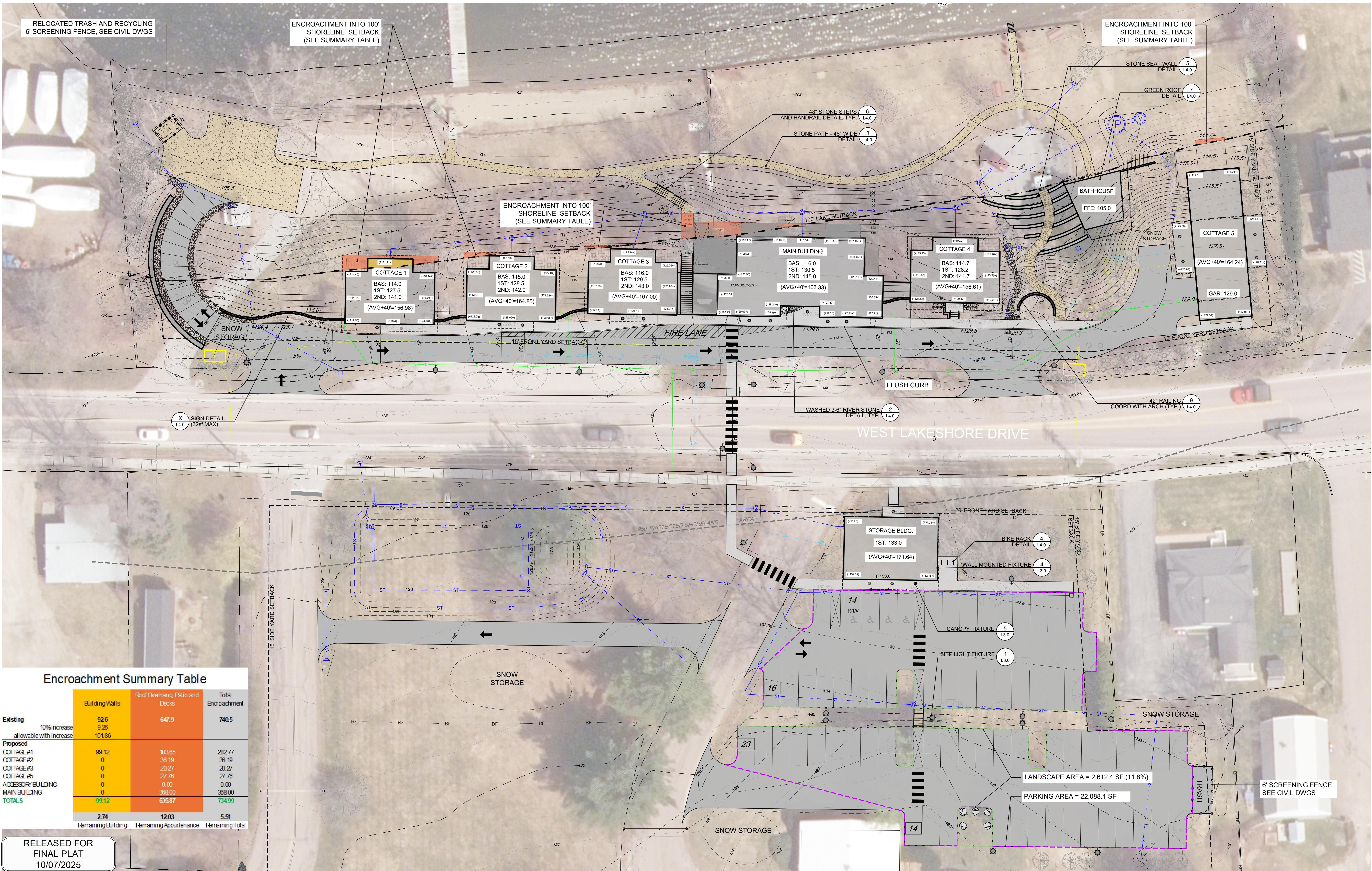
BATH HOUSE

09/29/25

A10



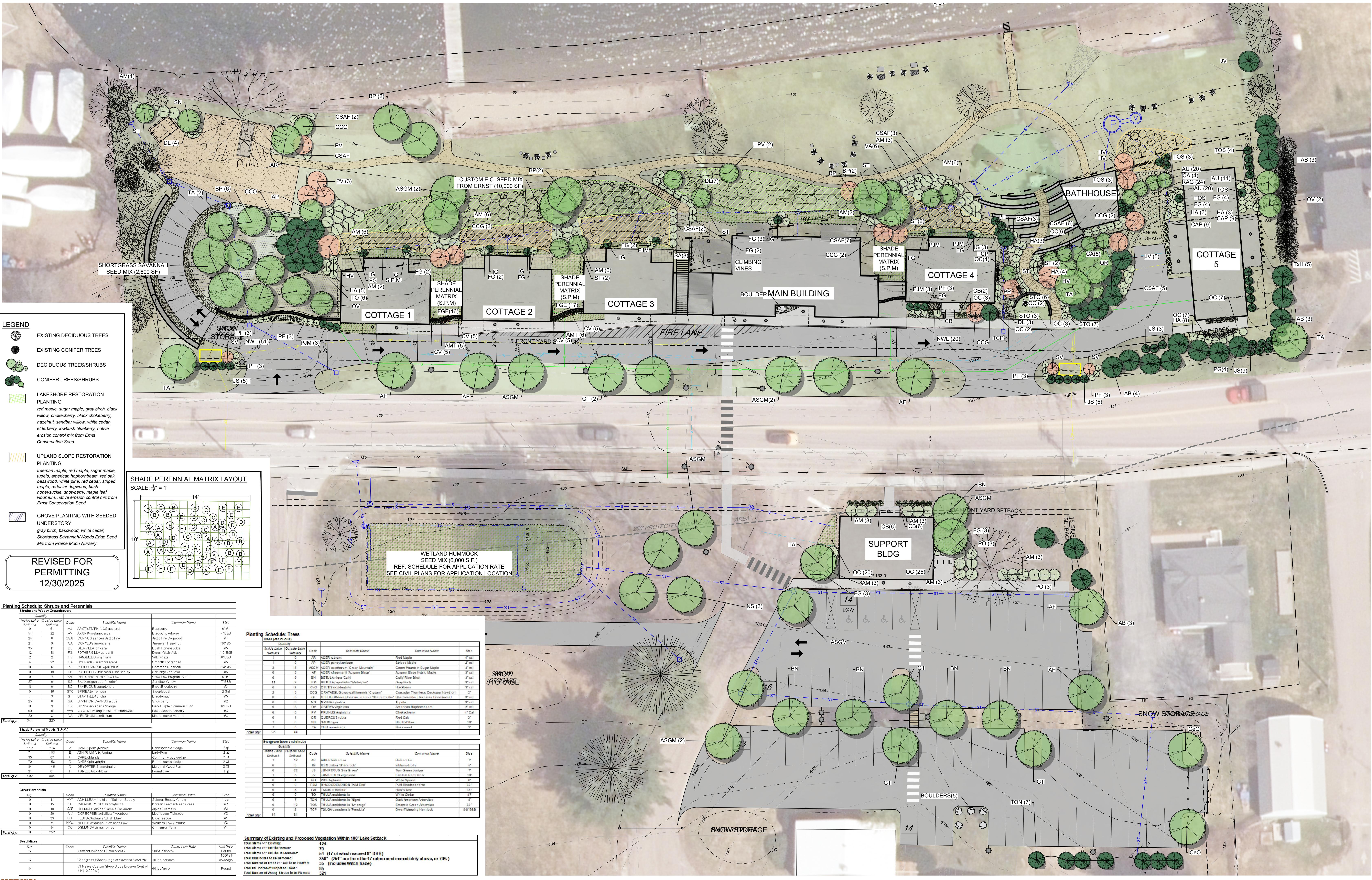
A11

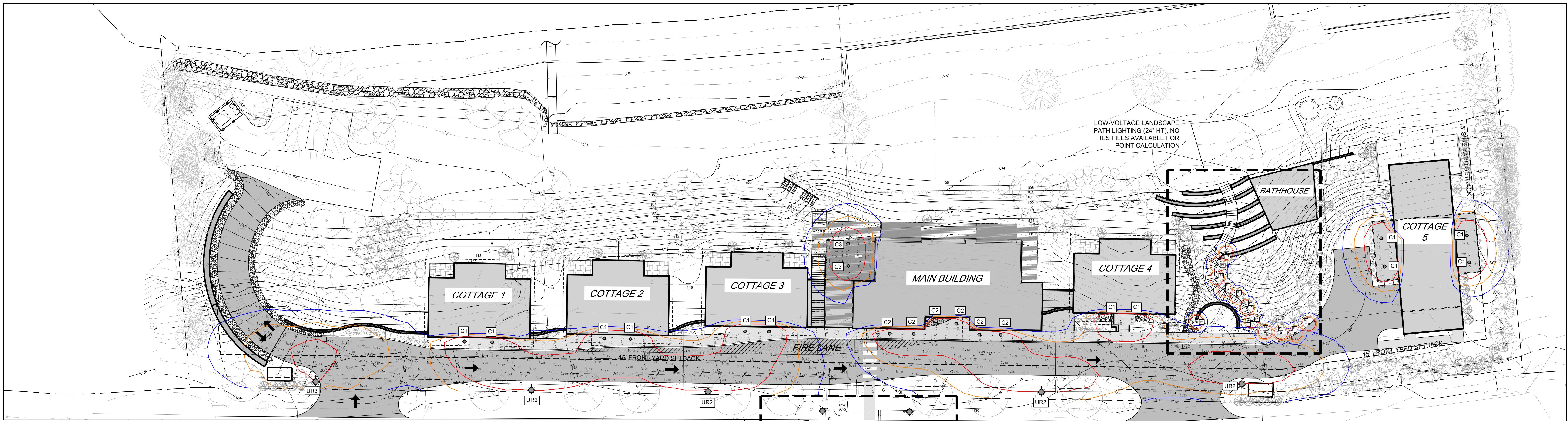


Encroachment Summary Table

	Building Walls	Roof Overhang, Patio and Decks	Total Encroachment
Existing	92.6	647.9	740.5
10% increase	9.26		
allowable with increase	101.86		
Proposed			
COTTAGE#1	99.12	183.65	282.77
COTTAGE#2	0	36.19	36.19
COTTAGE#3	0	20.27	20.27
COTTAGE#5	0	27.76	27.76
ACCESSORY BUILDING	0	0.00	0.00
MAIN BUILDING	0	368.00	368.00
TOTALS	99.12	635.87	734.99
	2.74	12.03	5.51
	Remaining Building	Remaining Appurtenance	Remaining Total

RELEASED FOR
FINAL PLAT
10/07/2025





Colchester Zoning Requirements

Classification	Ave. Luminance				
	Avg.	Max.	Min.	Ave./Min.	Max./Min.
Parking Lot	1.0				20:1
Walkway	0.5				
Canopy	3.0				

Proposed Lighting Calculations

Area	Avg.	Max.	Min.	Ave./Min.	Max./Min.
Drives and Parking North of W. Lakeshore Dr.	0.9				18.8 : 1
Drives and Parking South of W. Lakeshore Dr.	0.8				14.0 : 1
Sidewalks North of W. Lakeshore Dr. ^{2,4}	0.4				
Sidewalks South of W. Lakeshore Dr. ^{2,4}	0.4				
Mid-Block Crossings ⁵	2.7 (2.5 @ +5 ⁴)				
Canopies North of W. Lakeshore Dr. ³	1.6				
Canopy South of W. Lakeshore Dr. ³	1.6				

Footnotes:

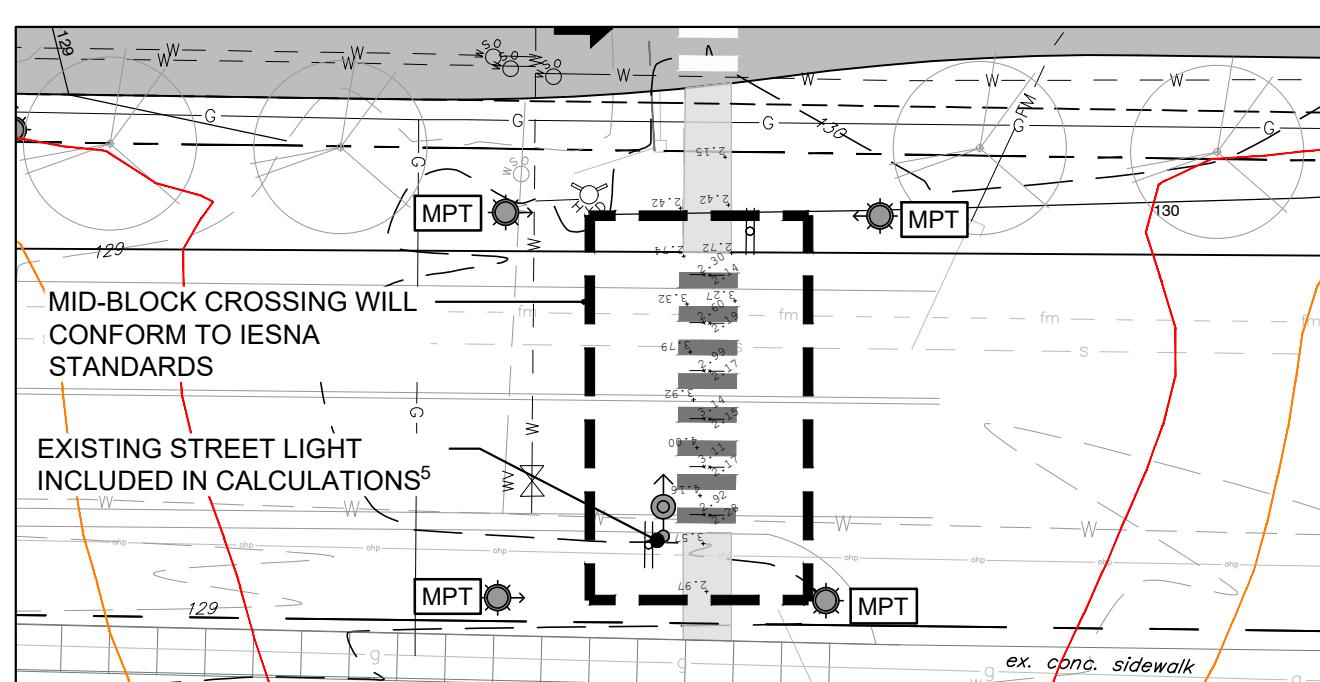
¹ Illuminance - All calculations are in Horizontal Footcandles (fc) and apply depreciation and dirt factors

² Walkway Lighting - Light levels for pedestrian areas meet IESNA recommendations per Lighting For Exterior Environments (RP-33-14), which recommends a Minimum Maintained Average Horizontal Illuminance Level of 0.5 Footcandles and a 4:1 Horizontal Average to Minimum Ratio. This is recommended for Lighting Zone 0 (LZ-0) (iesna) - which is described as 'Areas in which permanent lighting is not expected and when used, is limited in the amount of lighting and the period of operation. LZ-0 typically includes undeveloped areas of open space, wilderness parks and preserves, areas near astronomical observatories, or any other area where the protection of a dark environment is critical.'

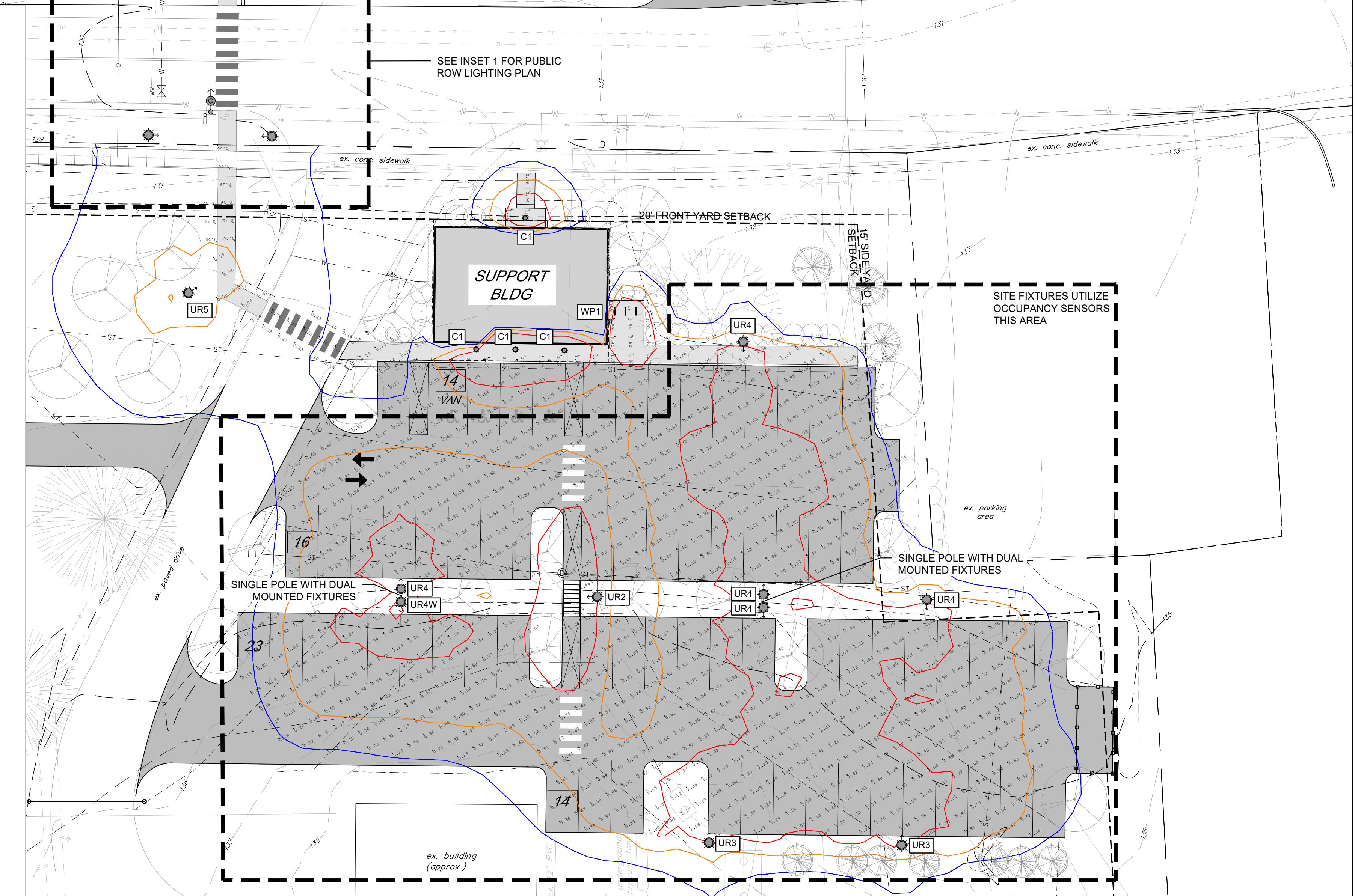
³ Canopy Lighting - Light Levels at entries are under 3 Footcandles Maximum.

⁴ Mid-Block Crossings - Light Levels for mid-block crossings (over West Lakeshore Drive) meet IESNA recommendations per ANSIIES Roadway Lighting (RP-8-14), which recommends on average a vertical illuminance level of 2.0 Footcandles measured at 1.5m (5 ft) from the road surface to allow drivers to detect pedestrians in mid-block crosswalks at adequate stopping distance under rural conditions.

⁵ The existing streetlight fixtures along West Lakeshore Drive are Cree LEDWay fixtures based on field observations. The Ies files are no longer available for these fixtures. Lighting has been included for a comparative modern fixture based on information available in the Colchester Public Works Specifications and Standards, Amended November 12, 2019 ("CREE / LEDWay - STR-LWY-2M-HT-02-E-UL-SV-700-R-40K", see p. 78)



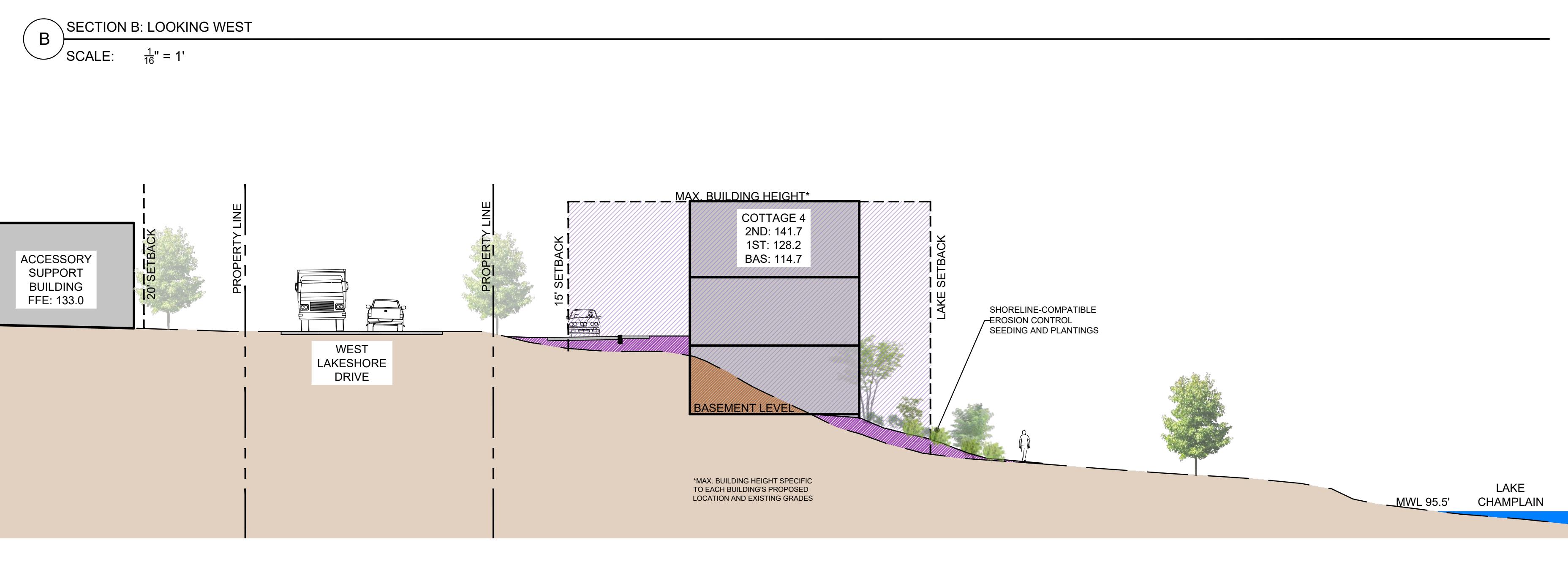
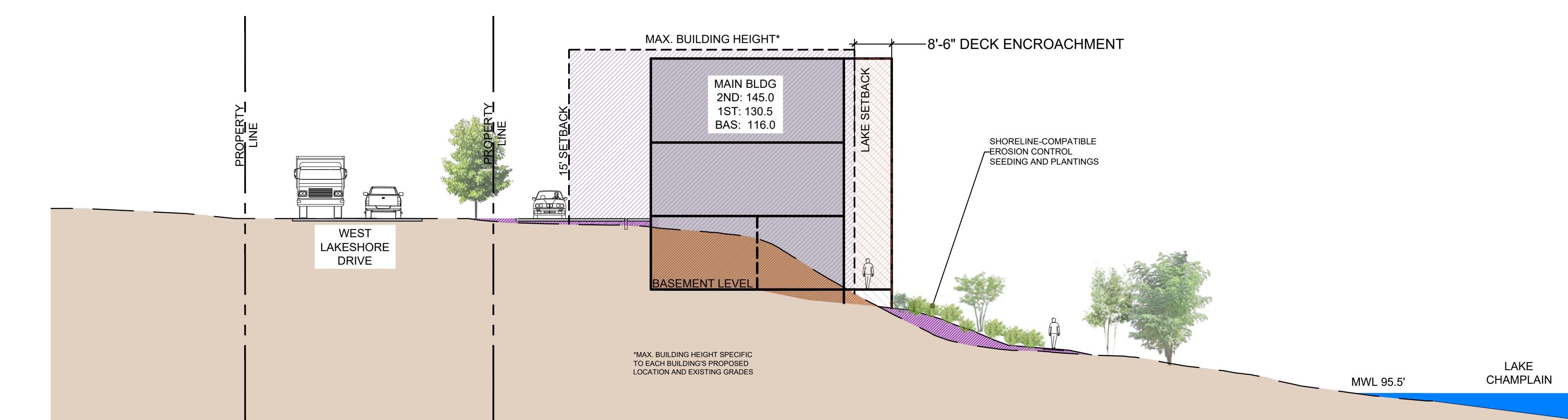
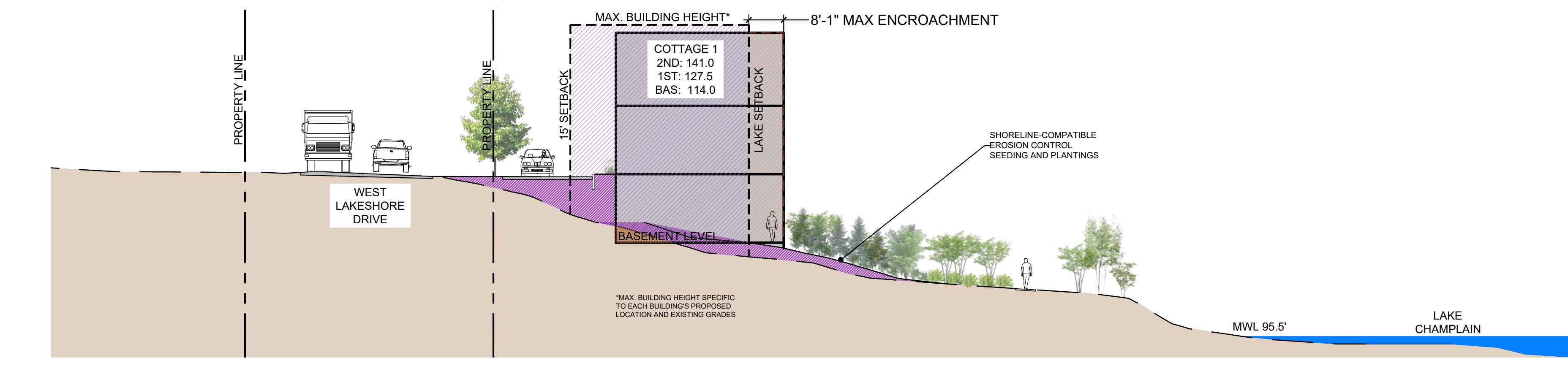
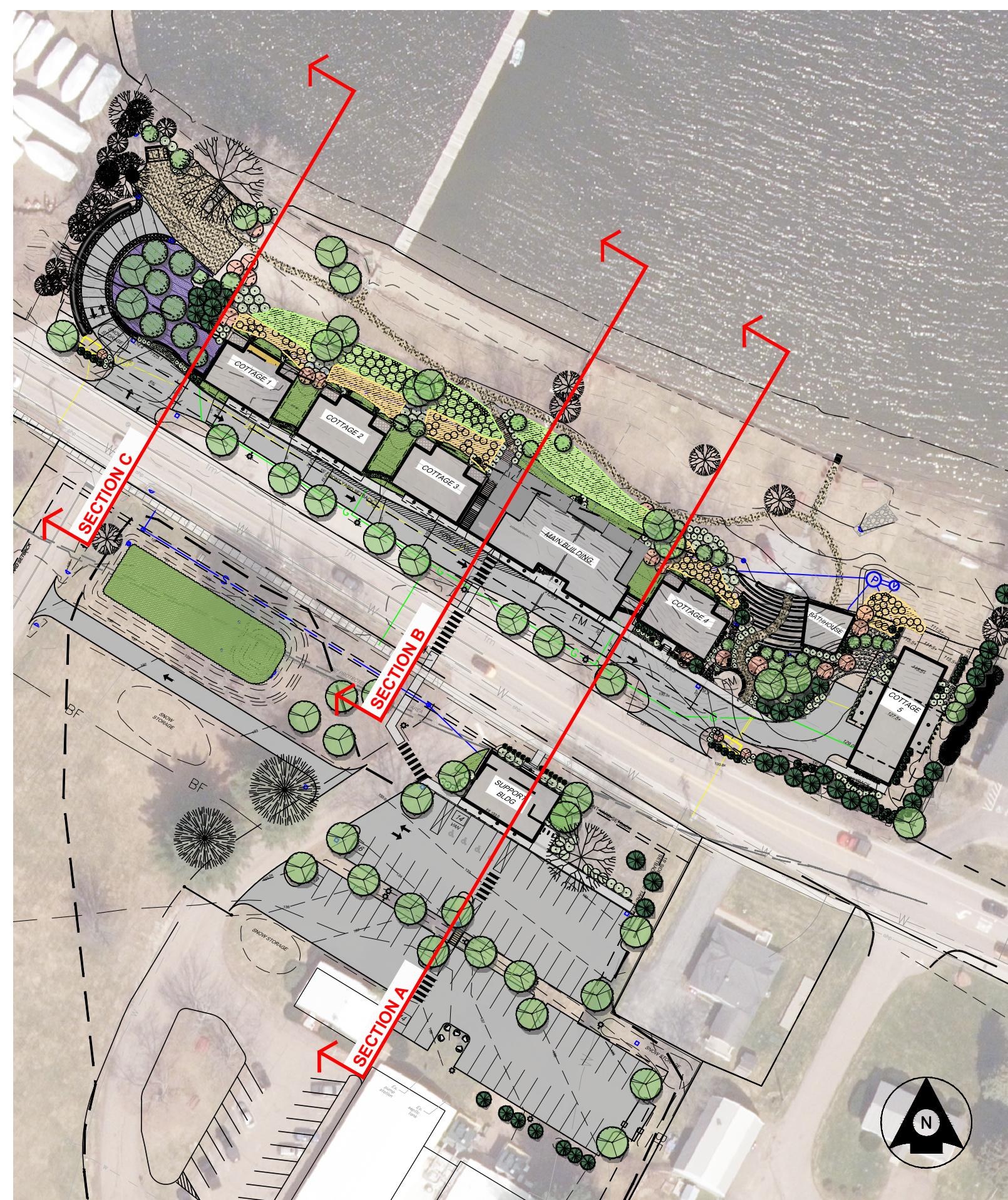
1 INSET 1 - PUBLIC ROW LIGHTING PLAN
SCALE: 1" = 20'



GENERAL LIGHTING NOTES:

- MOUNTING HEIGHT IS DISTANCE BETWEEN THE LIGHT SOURCE AND THE GROUND PLANES FOR PHOTOMETRIC ANALYSIS, CUT POLES AS NEEDED
- VOLTAGE TO BE VERIFIED BY ELECTRICAL ENGINEER PRIOR TO ORDERING
- DRIVE CURRENT - REVIEW DRIVE CURRENT AND WATTAGE WITH ELECTRICAL ENGINEER AND CONTRACTOR PRIOR TO ORDERING
- DIMMING TO BE VERIFIED BY ELECTRICAL ENGINEER PRIOR TO INSTALLATION. THE FIXTURE SHOULD BE SET AT THE PERCENTAGE AS SHOWN ON THE LIGHT SCHEDULE.
- REFER TO LIGHTING SCHEDULE FOR QUANTITIES AND SPECIFICATIONS
- SEE LIGHTING DETAILS FOR PRODUCT CUT SHEETS

REVISED FOR
PERMITTING
12/30/2025

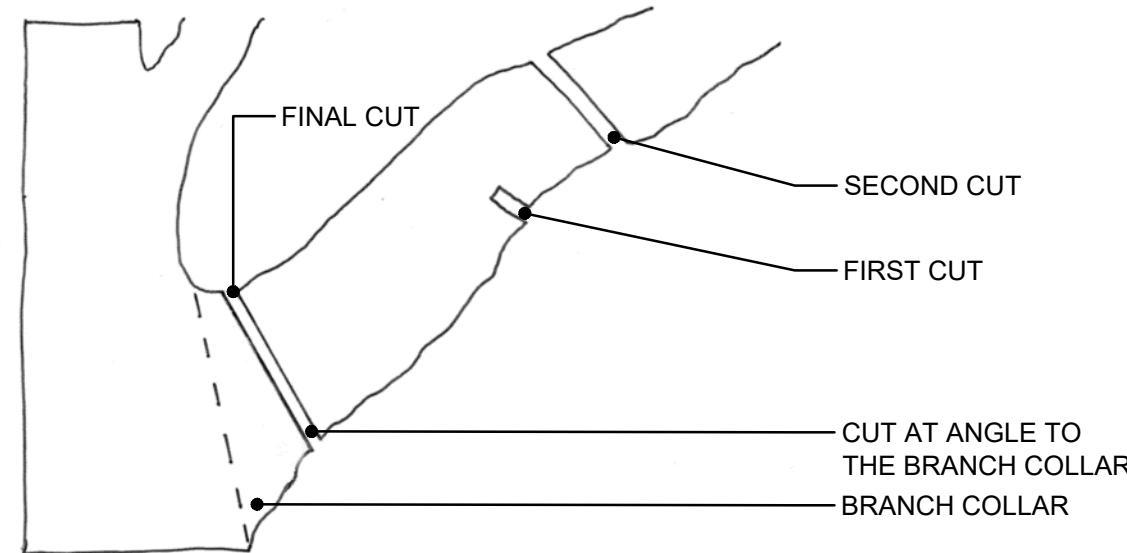




RELEASED FOR
FINAL PLAT
10/07/2025

TREE PRUNING NOTES:

- REFER TO ANSI A300 (Part 1, MOST UPDATED VERSION) PRUNING SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- WORK SHOULD BE PERFORMED BY A CERTIFIED ARBORIST OR PROFESSIONAL TREE COMPANY.
- 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.



10 TREE PRUNING ILLUSTRATION

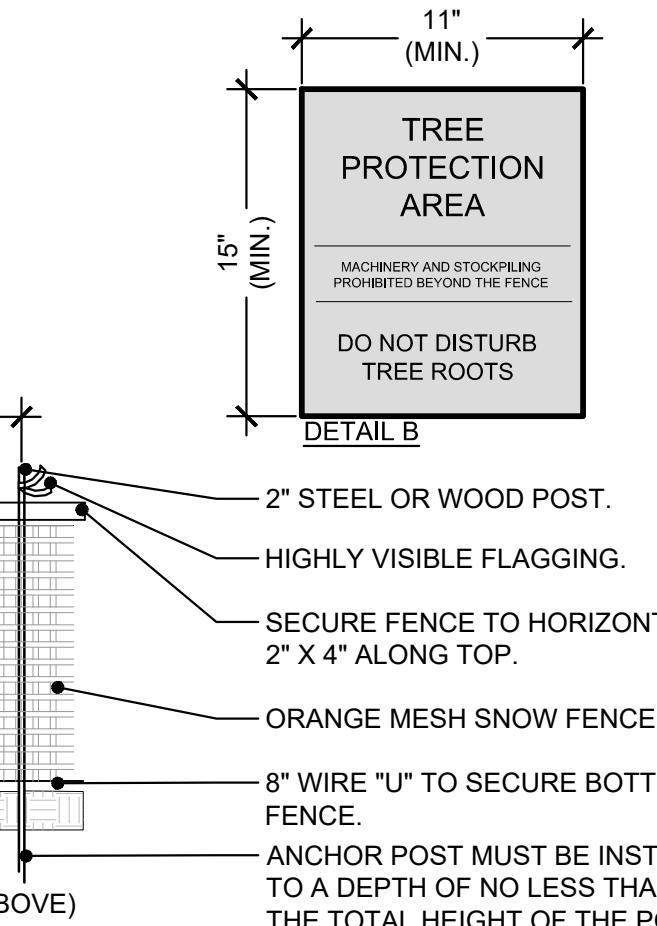
L2.0 NTS

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

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.



FENCE DETAIL:

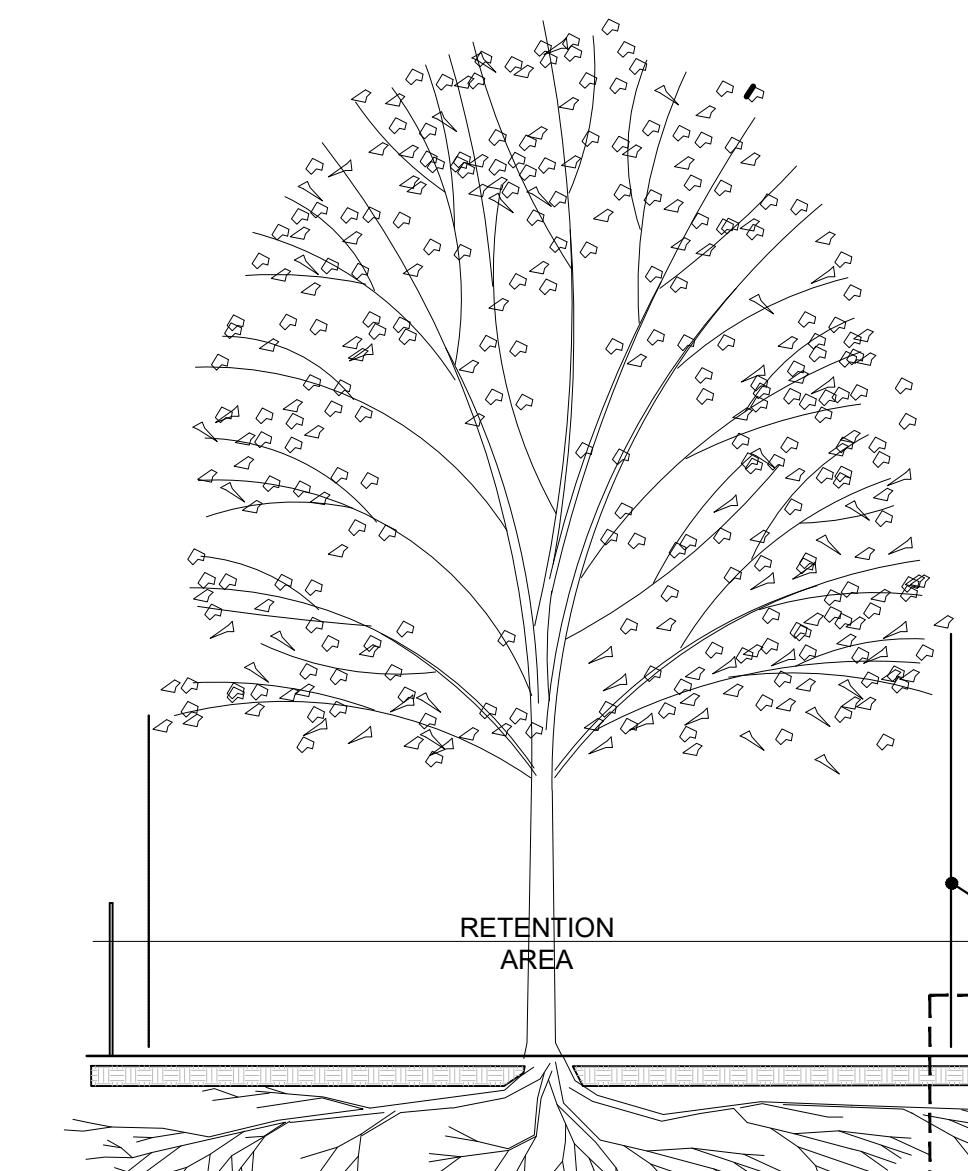
- THIS FENCE SERVES AS A TREE PROTECTION DEVICE ONLY.
- ROOT DAMAGE SHALL BE AVOIDED WITHIN FENCED AREA.
- FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

9 TREE PROTECTION FENCE

L2.0 NTS

ROOT PRUNING TRENCH NOTES:

- USE AN AIR SPADE/AIR KNIFE TO DIG THE 2' TRENCH AND EXPOSE THE ROOTS.
- EXPOSED ROOTS SHOULD BE CUT WITH A SAW OR LOPPERS TO MAKE A CLEAN SMOOTH CUT, NOT TORN OR RIPPED.
- MULCH EXPOSED ROOTS DURING THE CUTTING PROCESS TO KEEP FROM DRYING OUT.
- BACKFILL TRENCH WITH MIXTURE OF TOPSOIL AND COMPOST AS PER CONTRACT SPECIFICATIONS.

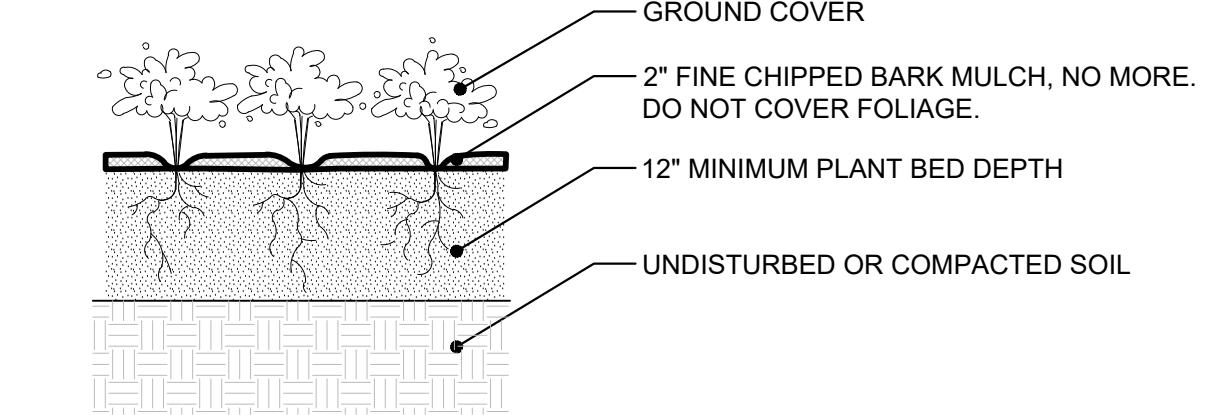


8 TREE PROTECTION

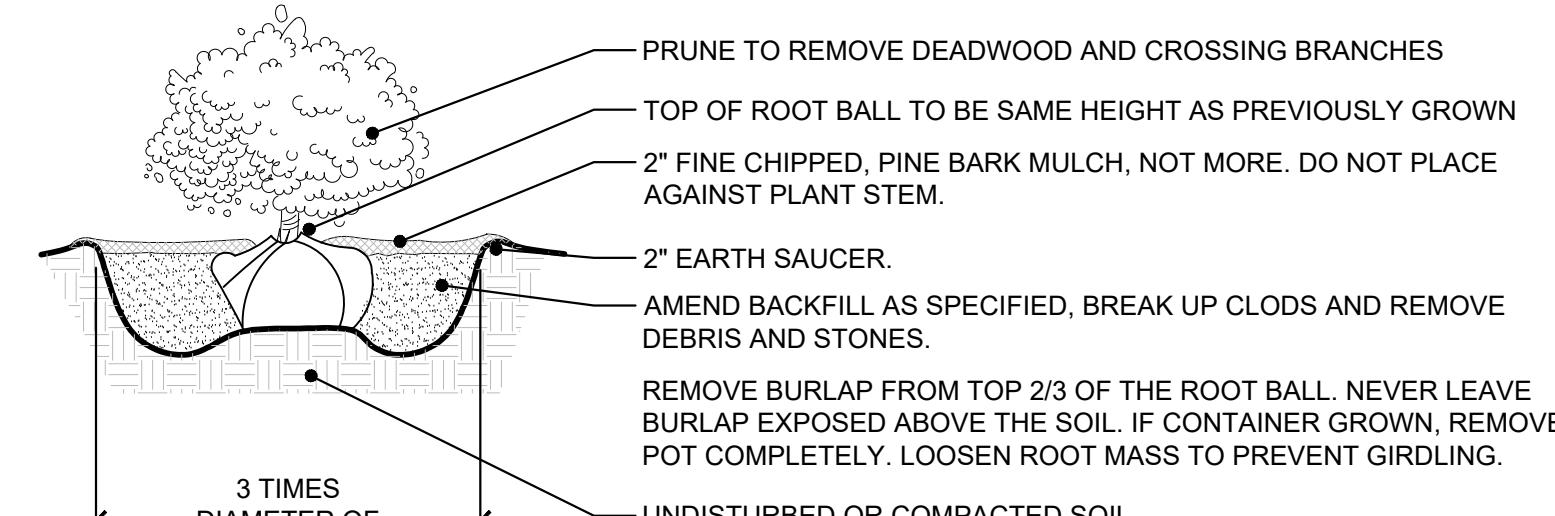
L2.0 NTS

GENERAL PLANTING NOTES:

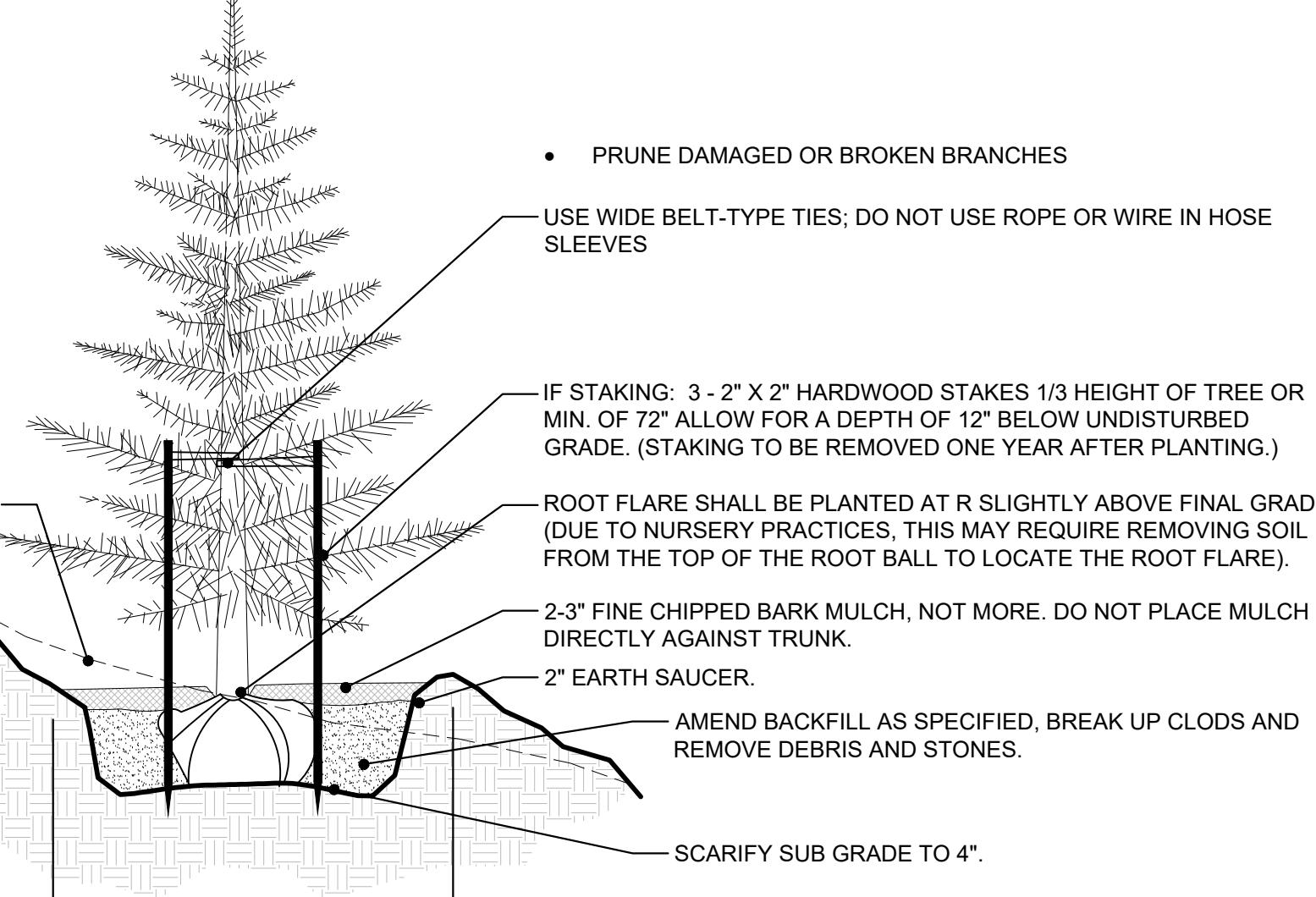
- THE LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK. CONTACT DIG SAFE TWO FULL BUSINESS DAYS BEFORE PLANTING. (48 HOUR MIN.)
- THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS. THE PLANT QUANTITIES SHALL ALWAYS SUPERCEDE THE PLANT LIST.
- ALL PLANT MATERIAL SHALL CONFORM AND BE INSTALLED TO THE GUIDELINES ESTABLISHED BY THE CURRENT ANSI Z60.1.
- NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE AMENDED PLANTING SOIL AS PER THE CONTRACT SPECIFICATIONS.
- 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.
 - GROUND COVER BEDS: 12" DEPTH.
 - LAWN AREAS: 8" DEPTH
 - SHRUB/PLANT BEDS: 18" DEPTH
- 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).
- 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.
- WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
- THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND SHRUBS SHALL BE FLAGGED FOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
- 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.
- STAKING PLANTS IS AT THE DISCRETION OF THE LANDSCAPE CONTRACTOR. ONLY STAKE PLANTS IN THE MANNER SPECIFIED IN THE PLANTING DETAILS.
- 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.
- THE LANDSCAPE CONTRACTOR SHALL REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE LANDSCAPE CONTRACTOR SHALL REFER TO THE PLANT LIST FOR SEASONAL REQUIREMENTS RELATED TO THE TIME OF PLANTING.



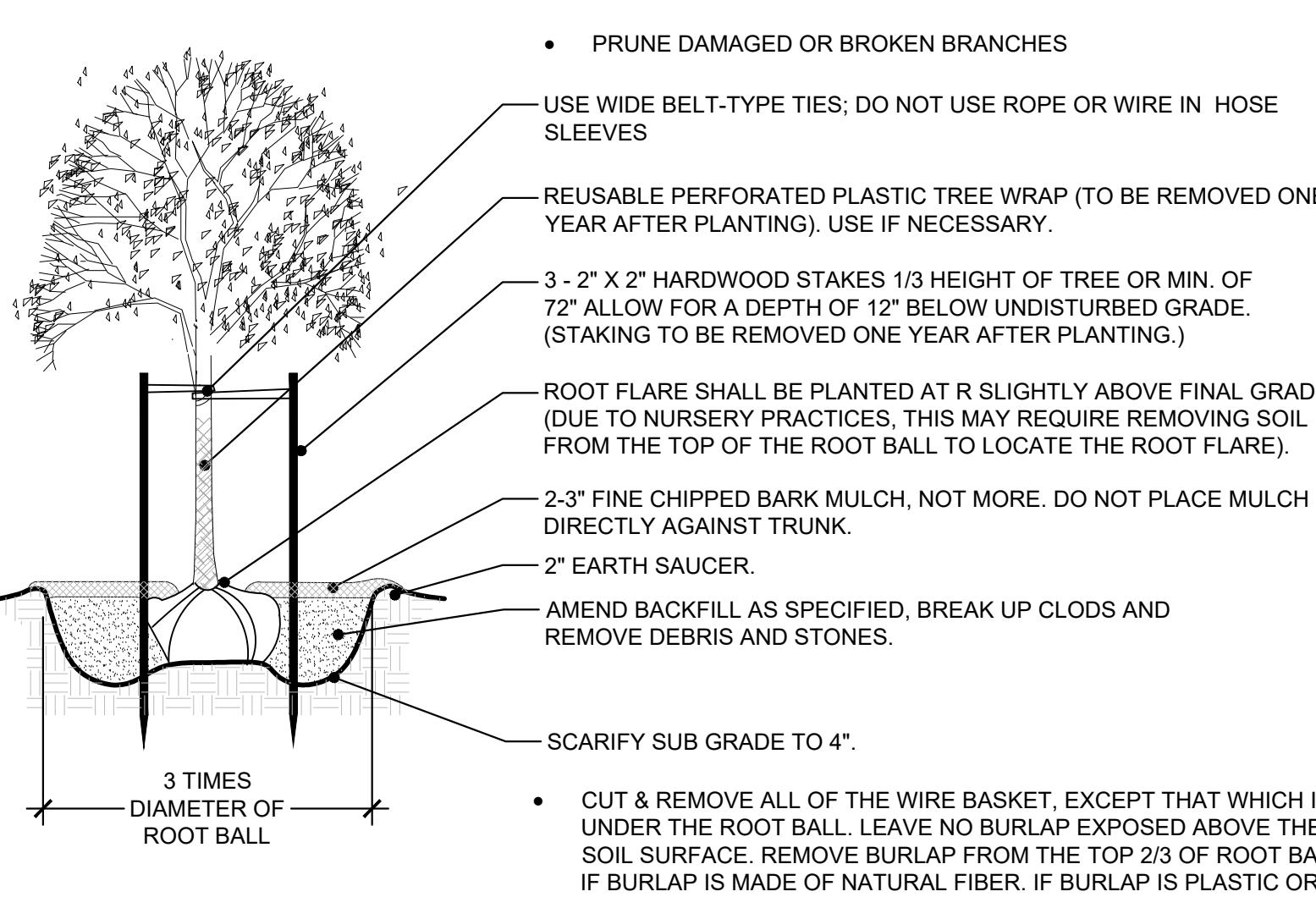
4 GROUNDCOVER PLANTING
L2.0 NTS



3 SHRUB PLANTING
L2.0 NTS



2 TREE PLANTING ON SLOPE DETAIL
L2.0 NTS



1 TREE PLANTING DETAIL
L2.0 NTS

LUMEC by @signify

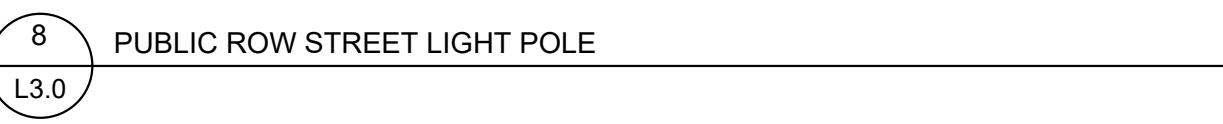
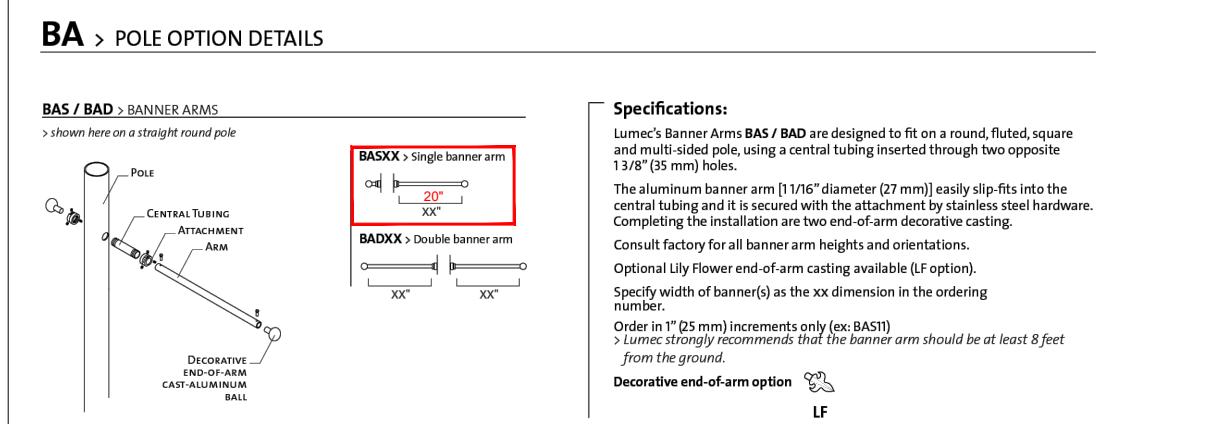
Outdoor
Poles and Brackets
AM6 Round Aluminum Bottleneck Pole

Made from a one piece, seamless 4" round (102 mm) tube of extruded-aluminum welded over end in a 6-5/8" (168 mm) extruded-aluminum pole base. The assembly is welded to both the top and bottom of a cast-aluminum anchor plate. A 4-1/2" by 10" (114 by 254 mm) maintenance opening is complete with cover and copper ground lug.

Ordering guide

Part/Ref.	Part Thickness	Part Length	Part
AM6	2.000	10'	AM6
	10'	12'	AM6
	12'	13'	AM6
	13'	14'	AM6
	14'	15'	AM6
	15'	16'	AM6
	16'	17'	AM6
	17'	18'	AM6
	18'	20'	AM6

Note: The recommended method for calculating EPA (Effective Projected Area) is in accordance with AASHTO 2001 standards for three seconds. The pole is tested in wind gusts equivalent to the strongest winds on record for the past 50 years, and with a 40 pound load (22 kg) placed at the top (105 mm) above the center.



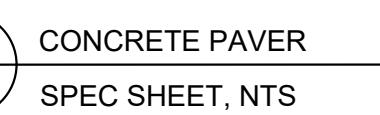
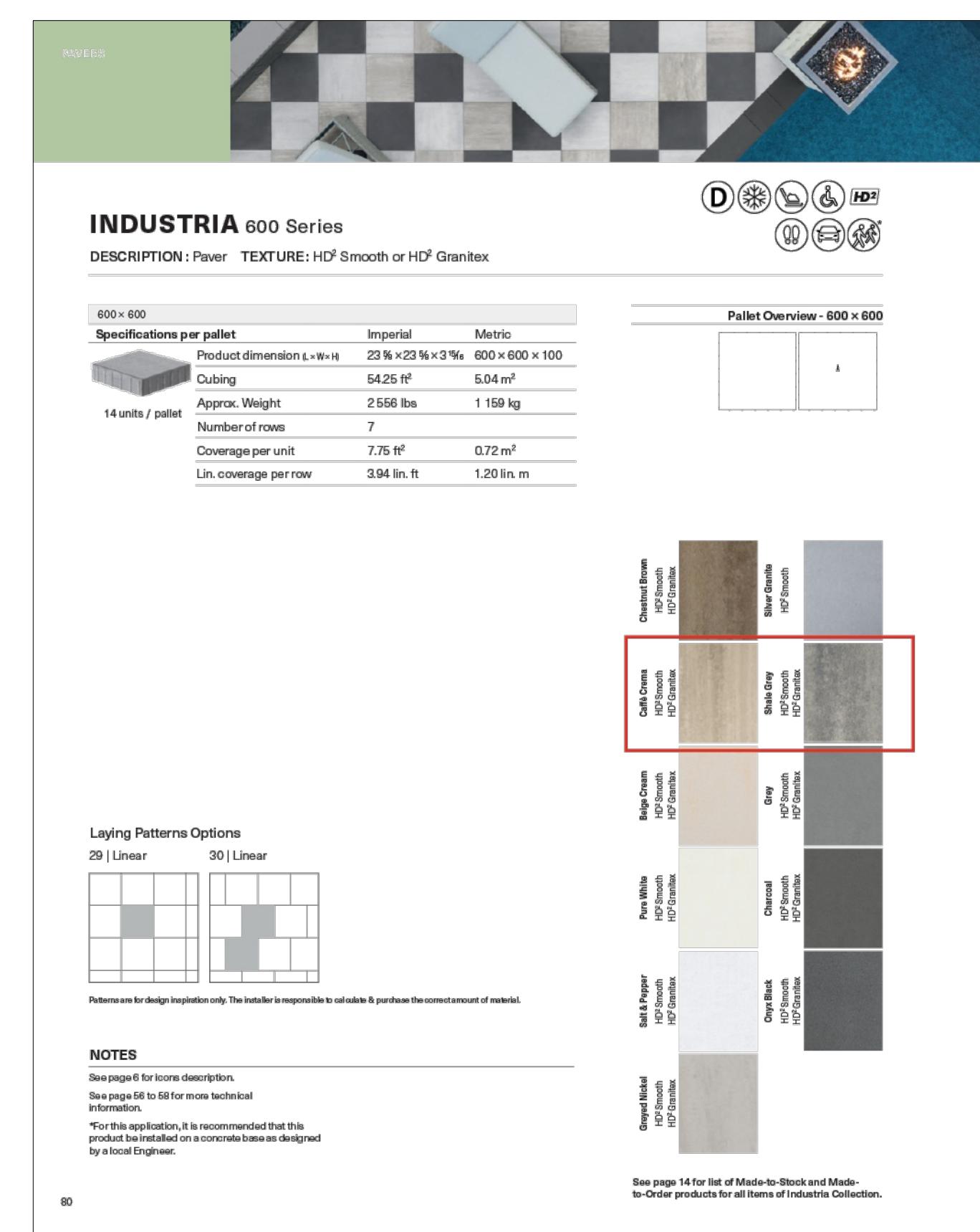
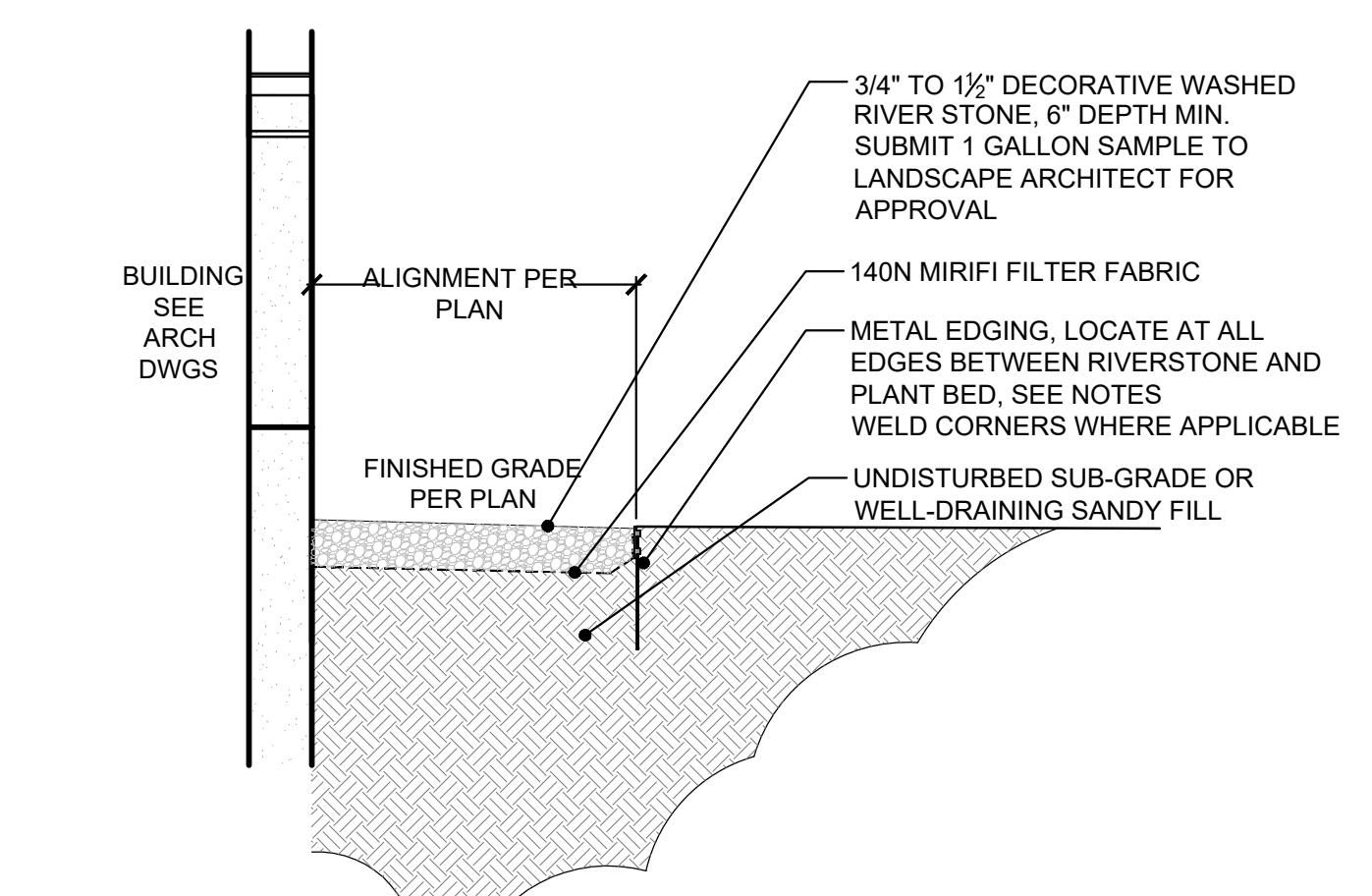
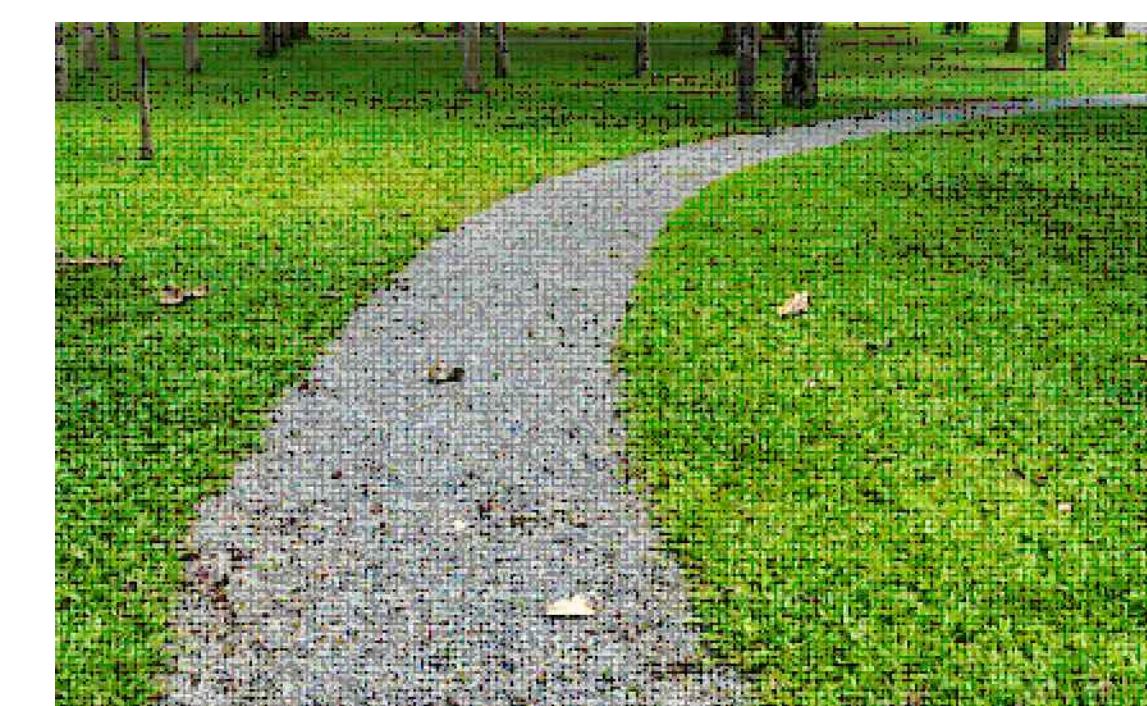
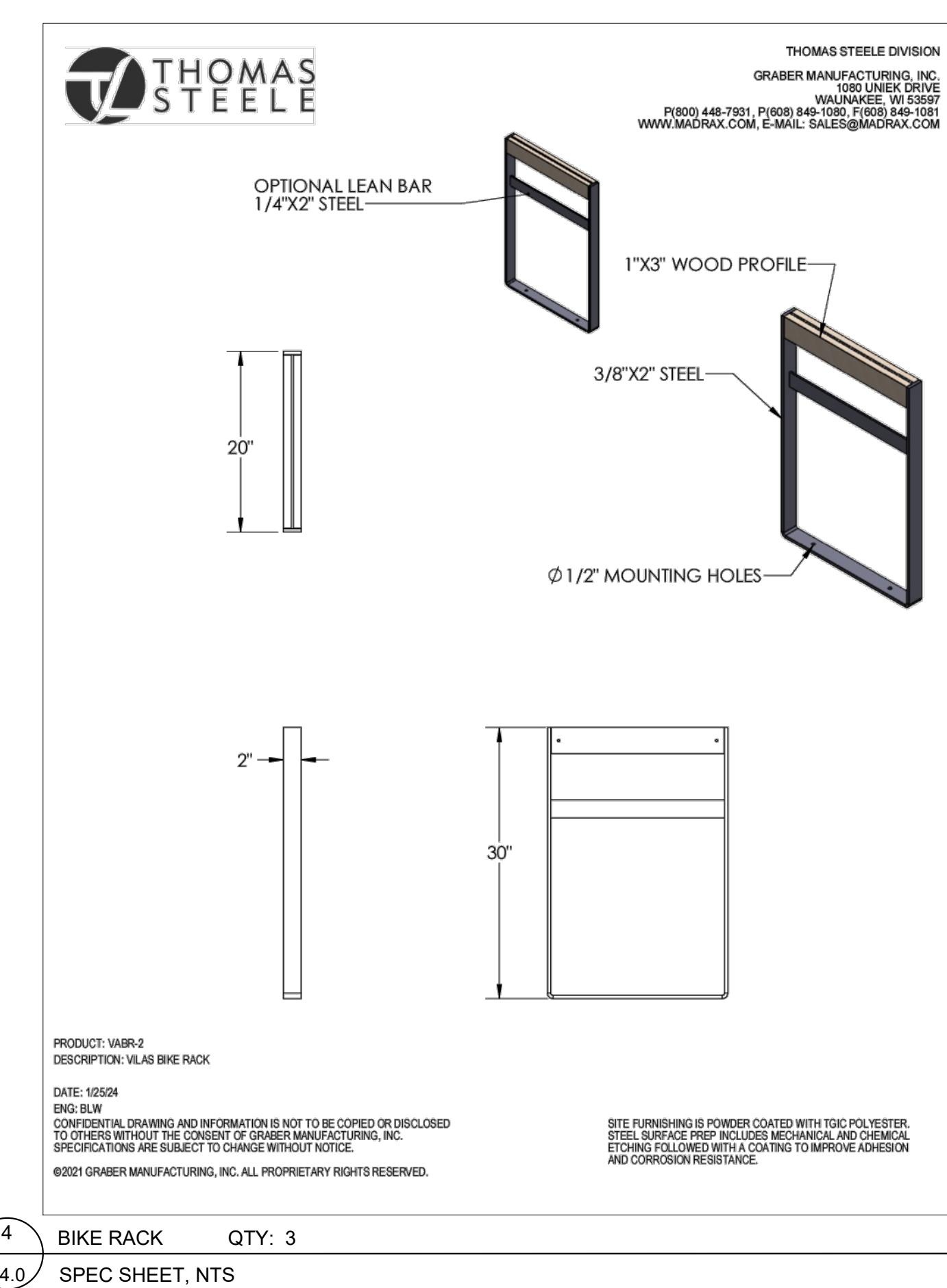
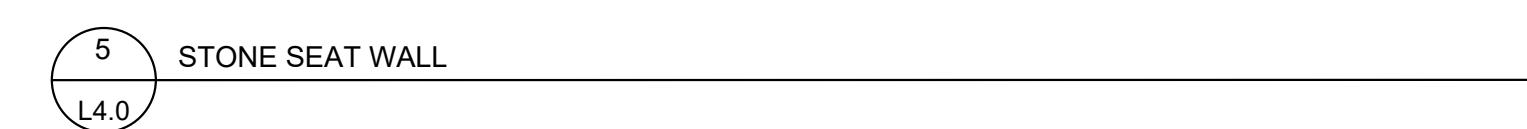
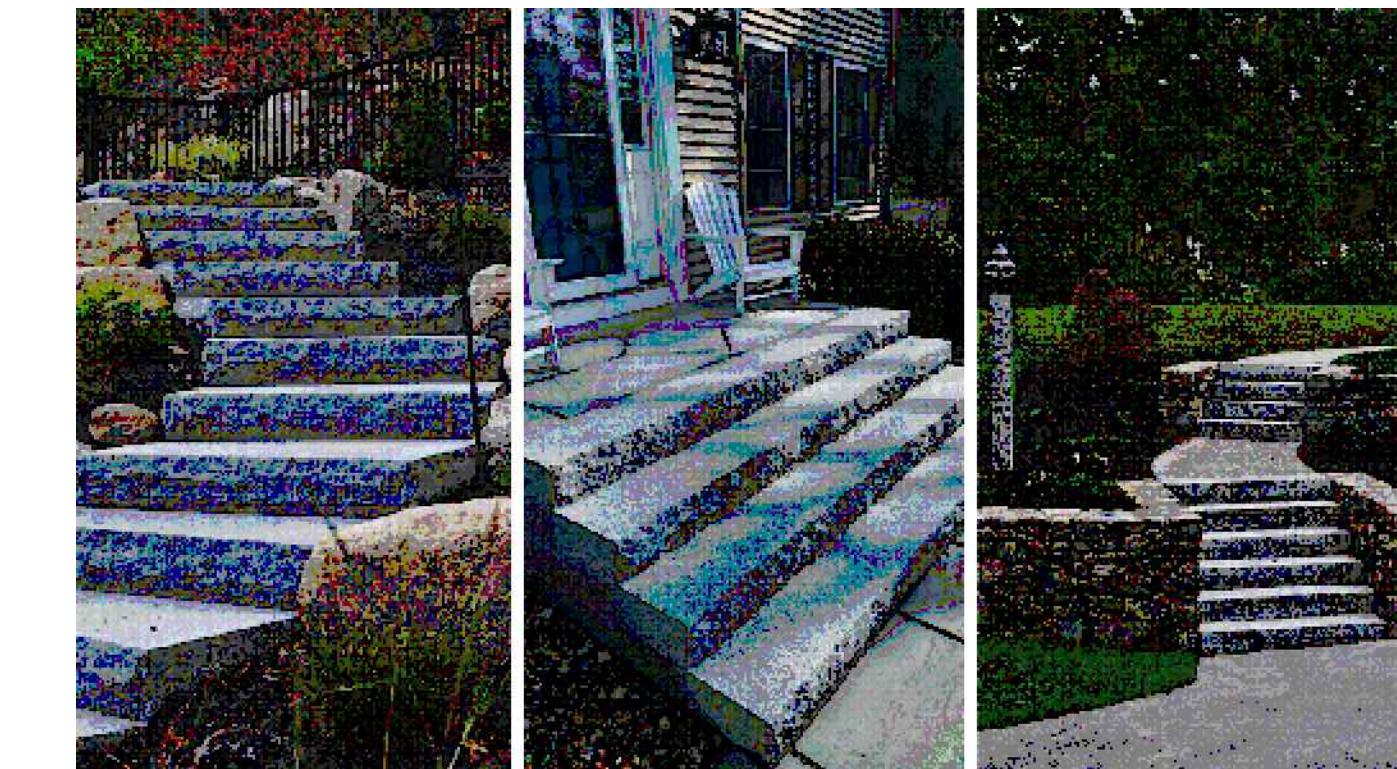
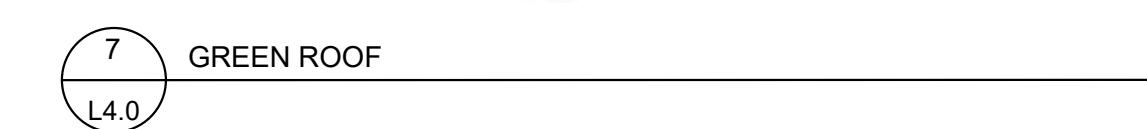
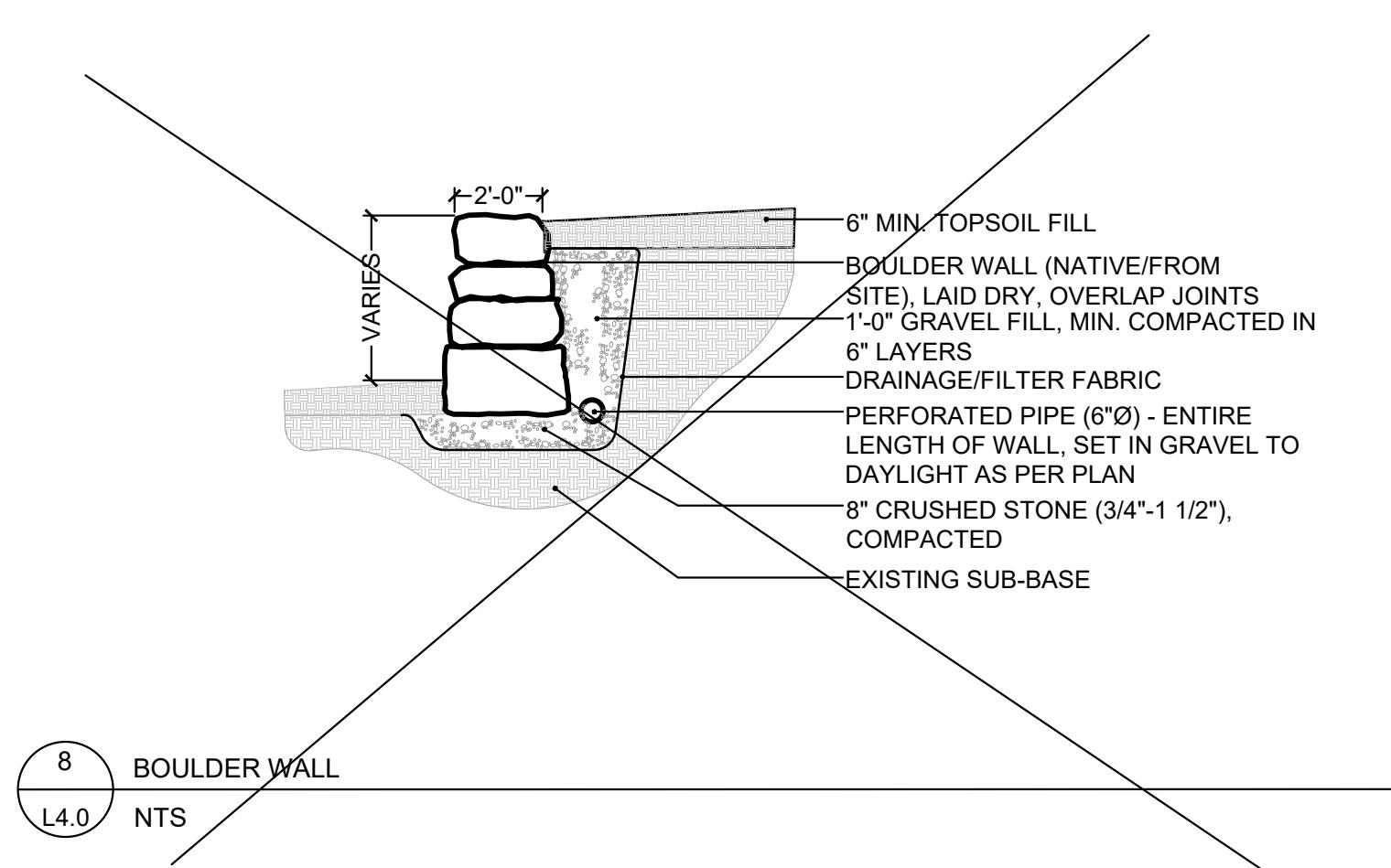
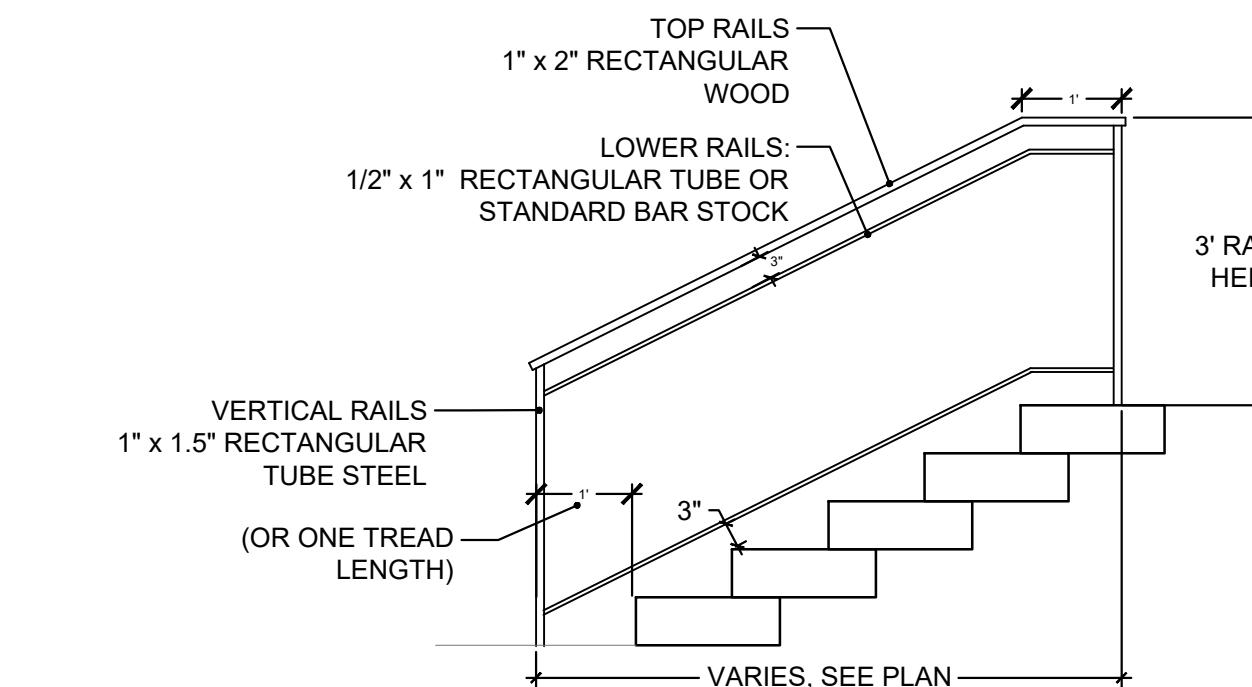
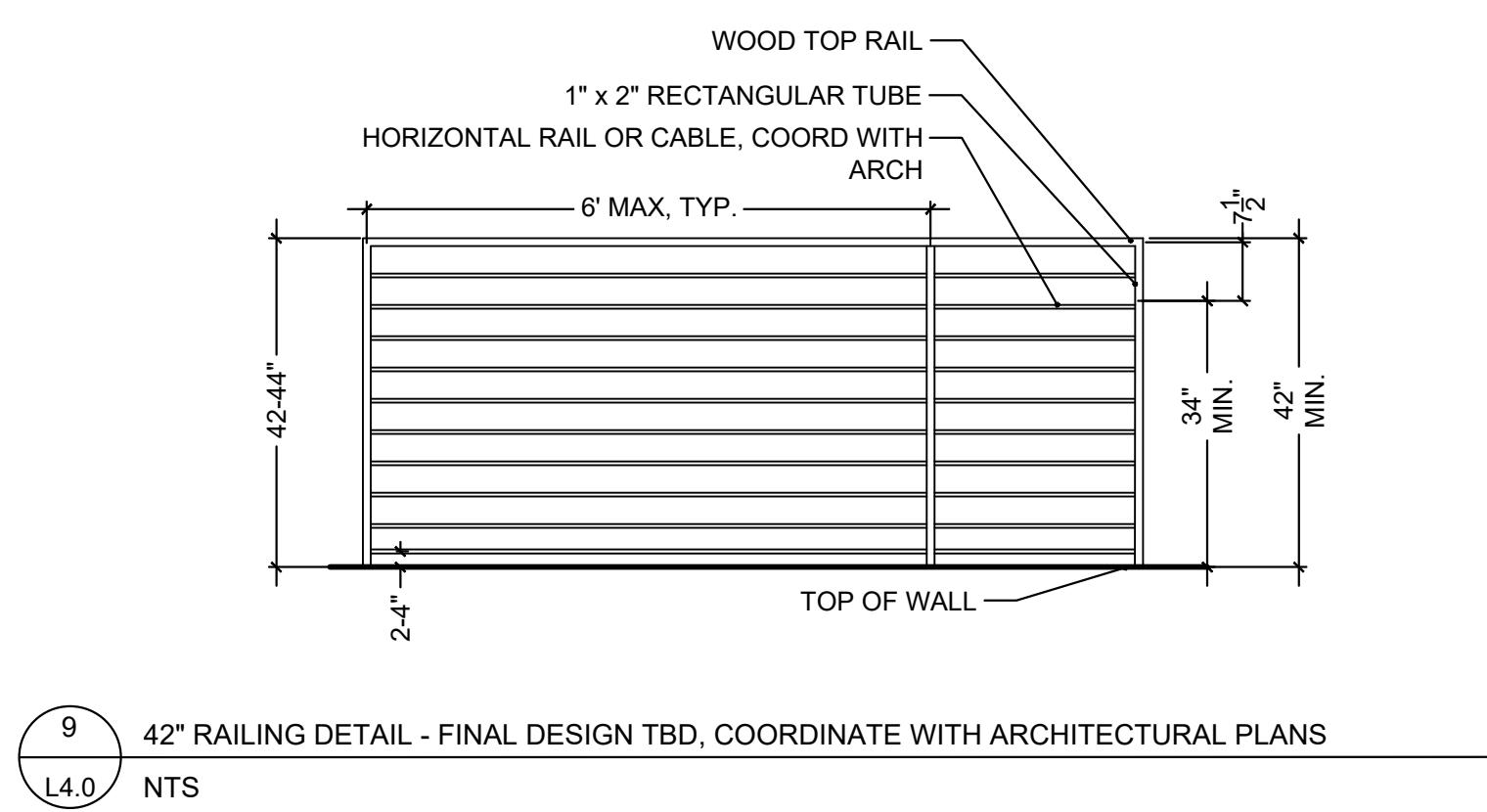
LUMEC

Urban
MetroScape
MPTR Post Top

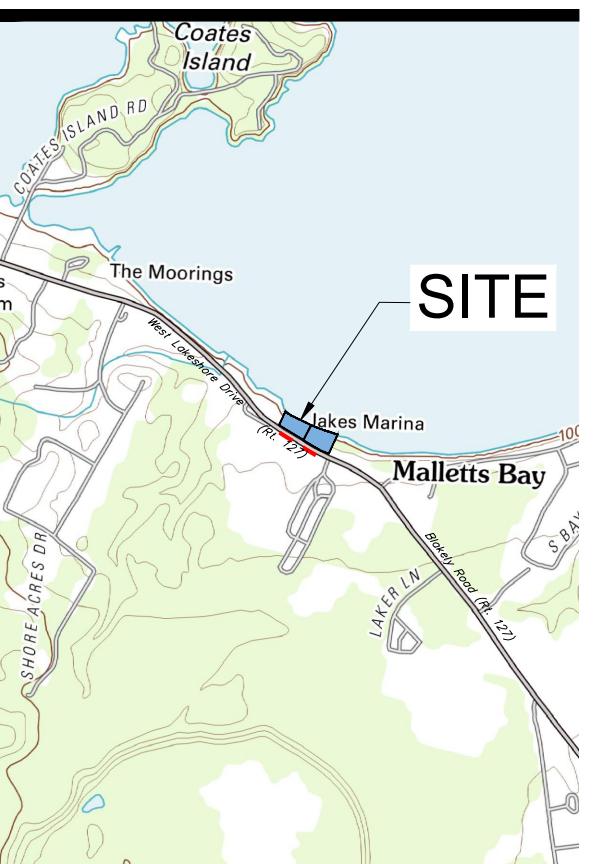
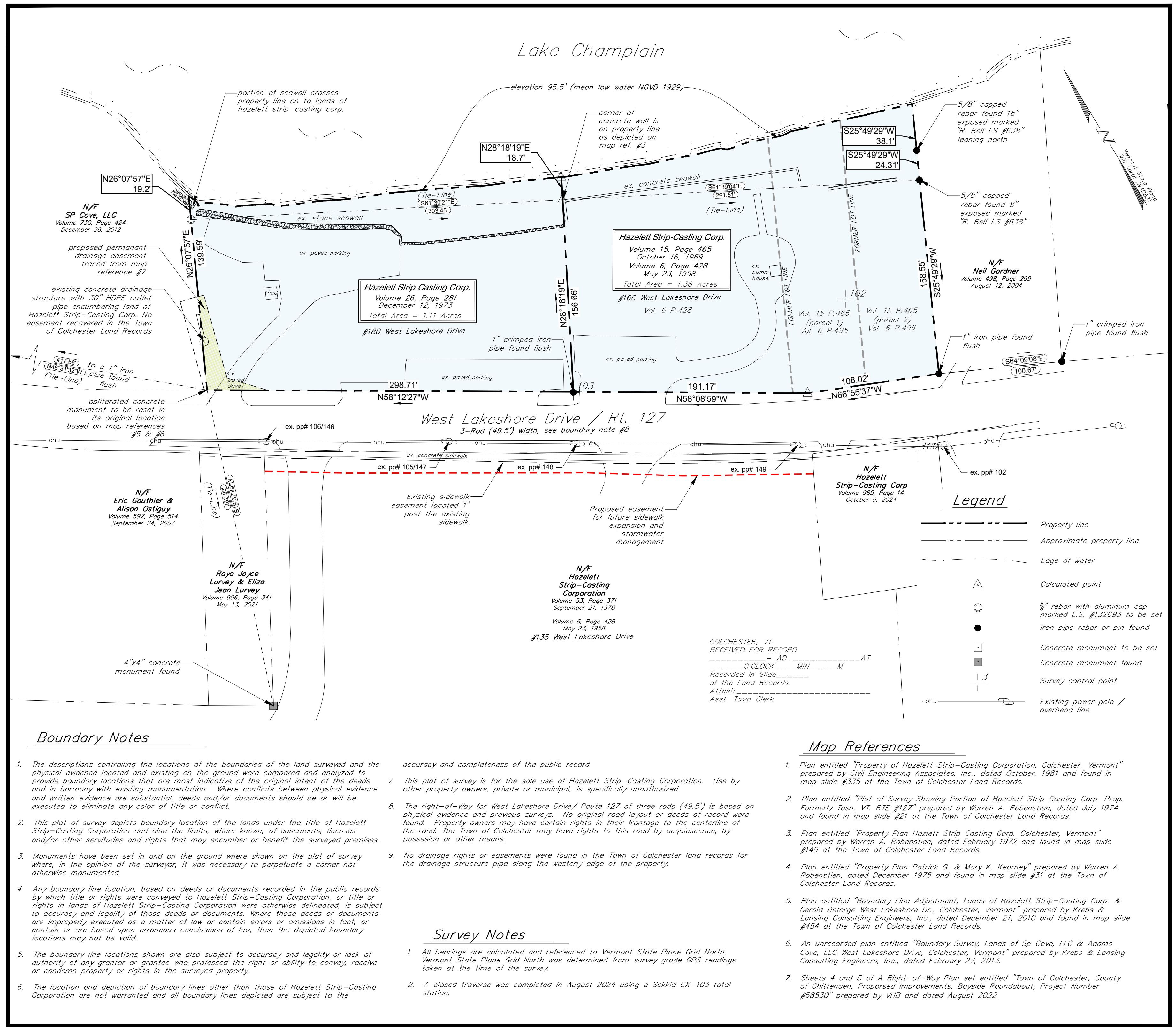
MetroScape LED post top luminaire features flexible, robust energy-saving solutions for post-top model series with a flat lens to highlight the thinness of the LEDs. The luminaire provides attractive lighting at night, adding appeal to the surroundings and promoting safe use of the environment. Includes Service Tag, innovative way to provide assistance throughout the life of the product.

Ordering guide

Series	LED module	CCT	Gen.	Optical system	Voltage	Driver	Receptical	Control	Luminaire	Decorative	Mounting	Poles/ Brackets	Finish
MPTR	36WLED	2.0K	G3	LE2 Type I	UNV 120-277V	DMX 512	RC1	Receptacle	SPS 20W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MPTR	60WLED	3K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC2	Receptacle	SPS 40W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MPTR	72WLED	3K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC3	Receptacle	SPS 60W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	100WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC4	Receptacle	SPS 100W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	120WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC5	Receptacle	SPS 120W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	150WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC6	Receptacle	SPS 150W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	180WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC7	Receptacle	SPS 180W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	200WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC8	Receptacle	SPS 200W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	220WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC9	Receptacle	SPS 220W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	240WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC10	Receptacle	SPS 240W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	270WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC11	Receptacle	SPS 270W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	300WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC12	Receptacle	SPS 300W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	330WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC13	Receptacle	SPS 330W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	360WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC14	Receptacle	SPS 360W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	400WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC15	Receptacle	SPS 400W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	450WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC16	Receptacle	SPS 450W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	500WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC17	Receptacle	SPS 500W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	550WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC18	Receptacle	SPS 550W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	600WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC19	Receptacle	SPS 600W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	650WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC20	Receptacle	SPS 650W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	700WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC21	Receptacle	SPS 700W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	750WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC22	Receptacle	SPS 750W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	800WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC23	Receptacle	SPS 800W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	850WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC24	Receptacle	SPS 850W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	900WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC25	Receptacle	SPS 900W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	950WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC26	Receptacle	SPS 950W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1000WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC27	Receptacle	SPS 1000W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1050WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC28	Receptacle	SPS 1050W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1100WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC29	Receptacle	SPS 1100W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1150WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC30	Receptacle	SPS 1150W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1200WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC31	Receptacle	SPS 1200W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1250WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC32	Receptacle	SPS 1250W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1300WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC33	Receptacle	SPS 1300W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1350WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC34	Receptacle	SPS 1350W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1400WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC35	Receptacle	SPS 1400W / 100A	FND	Consult the Signal	BEFTX	BEFTX
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MetroScape	1500WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC37	Receptacle	SPS 1500W / 100A	FND	Consult the Signal	BEFTX	BEFTX
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MetroScape	1600WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC39	Receptacle	SPS 1600W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1650WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC40	Receptacle	SPS 1650W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1700WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC41	Receptacle	SPS 1700W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1750WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC42	Receptacle	SPS 1750W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1800WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC43	Receptacle	SPS 1800W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1850WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC44	Receptacle	SPS 1850W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1900WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC45	Receptacle	SPS 1900W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	1950WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC46	Receptacle	SPS 1950W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	2000WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC47	Receptacle	SPS 2000W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	2050WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC48	Receptacle	SPS 2050W / 100A	FND	Consult the Signal	BEFTX	BEFTX
MetroScape	2100WLED	4K	G3	LE3 Type I	UNV 120-277V	DMX 512	RC						



DATE: OCTOBER 7, 2025



KREBS & LANSING
CONSULTING ENGINEERS

164 Main Street, Suite 201
Colchester, Vermont 05446
P: (802) 878-0375
www.krebsandlansing.com

Certification
This survey is based on physical evidence found in the field and information abstracted from deeds and other pertinent records and this survey is consistent with that evidence. This plot conforms to 27 V.S.A. section 1403.


Benjamin L. Wright, L.S. #132693

0' 50' 100' 150'
0" 1" 2" 3"
STANDARD GRAPHIC SCALE (1" = 50')

BOUNDARY SURVEY

LANDS OF
**HAZELETT
STRIP-CASTING
CORPORATION**

#166 & #180 WEST LAKESHORE DRIVE
COLCHESTER, VERMONT

REV. NO.	REVISIONS/COMMENTS	DATE
	135 WLSD Easements	10/3/25

Drawing Title:

Boundary Survey

DATE of Issue: 02/25/2025	Surveyed by: BLW/CJG
Drawn by: BLW	Checked by: JBC
Project No.: 23314	Scale: 1" = 50'
Drawing No.:	Rev No.:

B-1

Owner Information

Hazelett Strip-Casting Corporation

Planning & Zoning Information

Parcel ID: 65-019002-00000 & 65-020002-00000
Zoning: Lake Shore 1 (LS1)

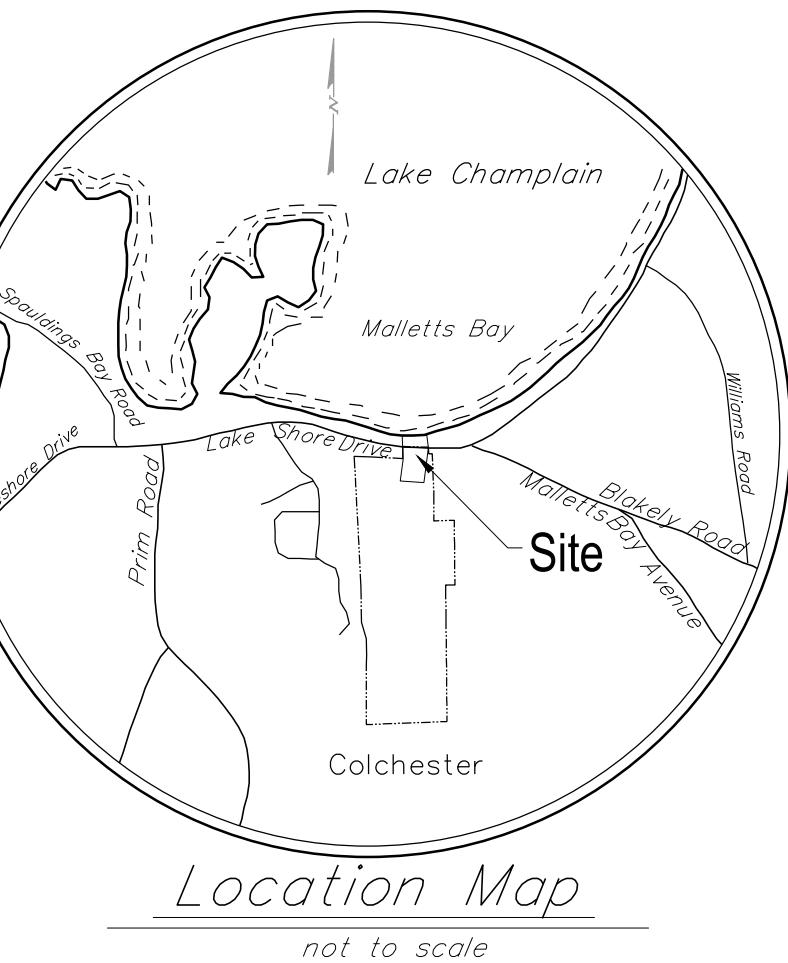
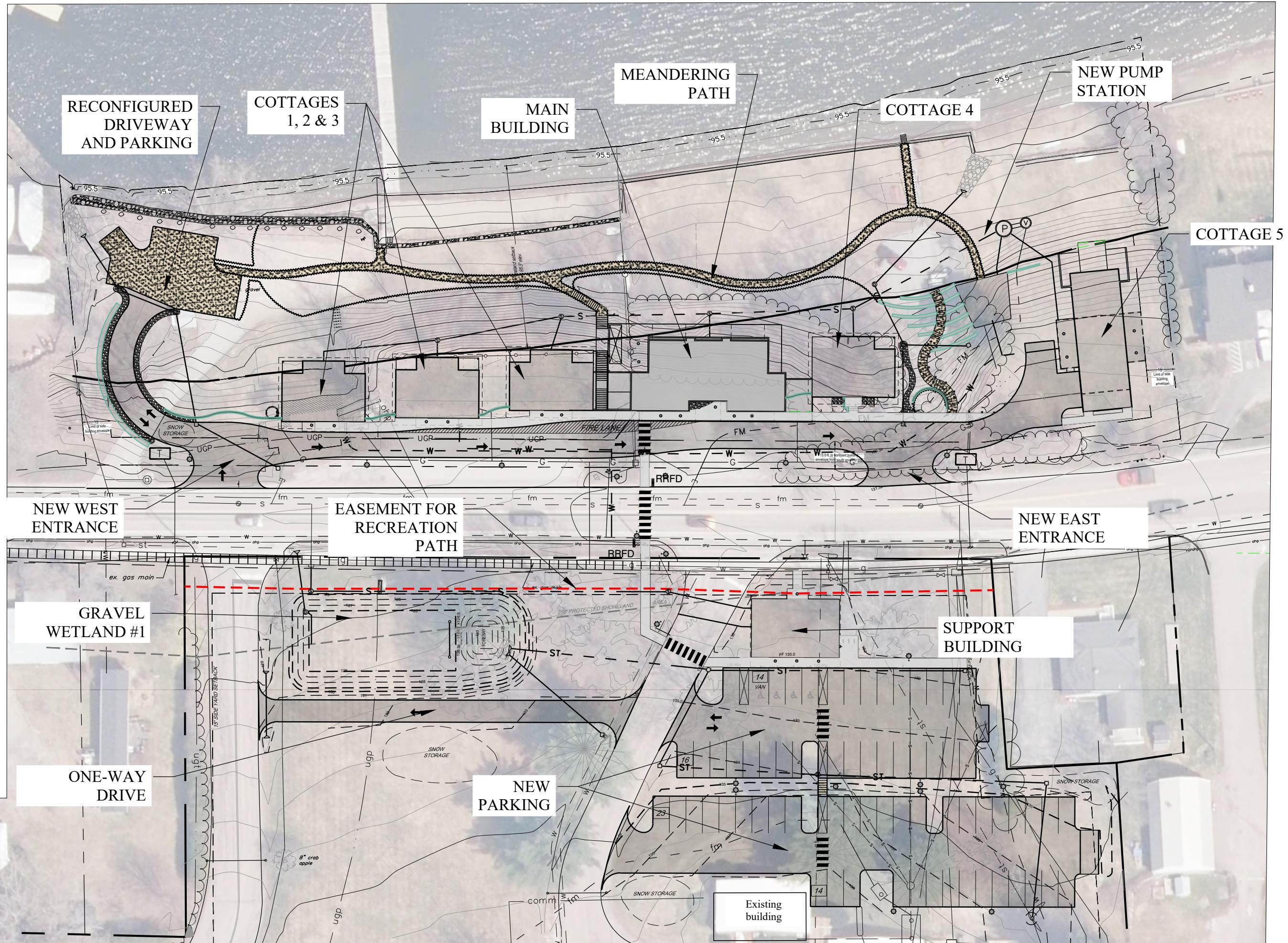
180 W. Lakeshore Drive Area = 1.11 Ac
166 W. Lakeshore Drive Area = 1.36 Ac

Total Lot Coverage:	40% maximum allowed
Minimum Lot Size:	30,000 sf
Lot Frontage:	120 ft
Front Yard Setback:	15 ft
Side Yard Setback:	15 ft
Rear Yard Setback:	15 ft
Building Height Max:	40ft Ridge – 35ft Flat (com.)

LOT COVERAGE

LOT COVERAGE

	Existing	Proposed
LOT COVERAGE		
166 & 180 W. Lakeshore Drive	22.3%	30.4%
135 W. Lakeshore Drive	5.05%	5.44%
FRONT YARD COVERAGE		
166 & 180 W. Lakeshore Drive	46.8%	46.7%
135 W. Lakeshore Drive	17.0%	18.8%



HAZELETT STRIP-CASTING CORPORATION

COLCHESTER, VT

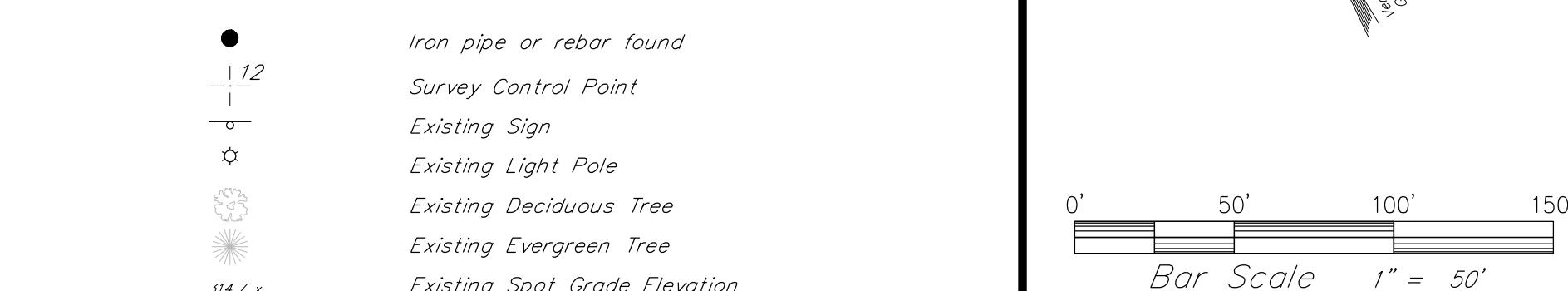


4 Main Street, Suite 201
Bolchester, Vermont 05446 P: (802) 878-0375
www.krebsandlansing.com

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

Legend



Project: THE 'H' AT MALLETT'S BAY

180 & 166 W. Lakeshore Drive
Colchester, Vermont

Project No.	23314
Scale	1" = 50'
Drawn by	SWH
Checked by	
Date	03/03/25

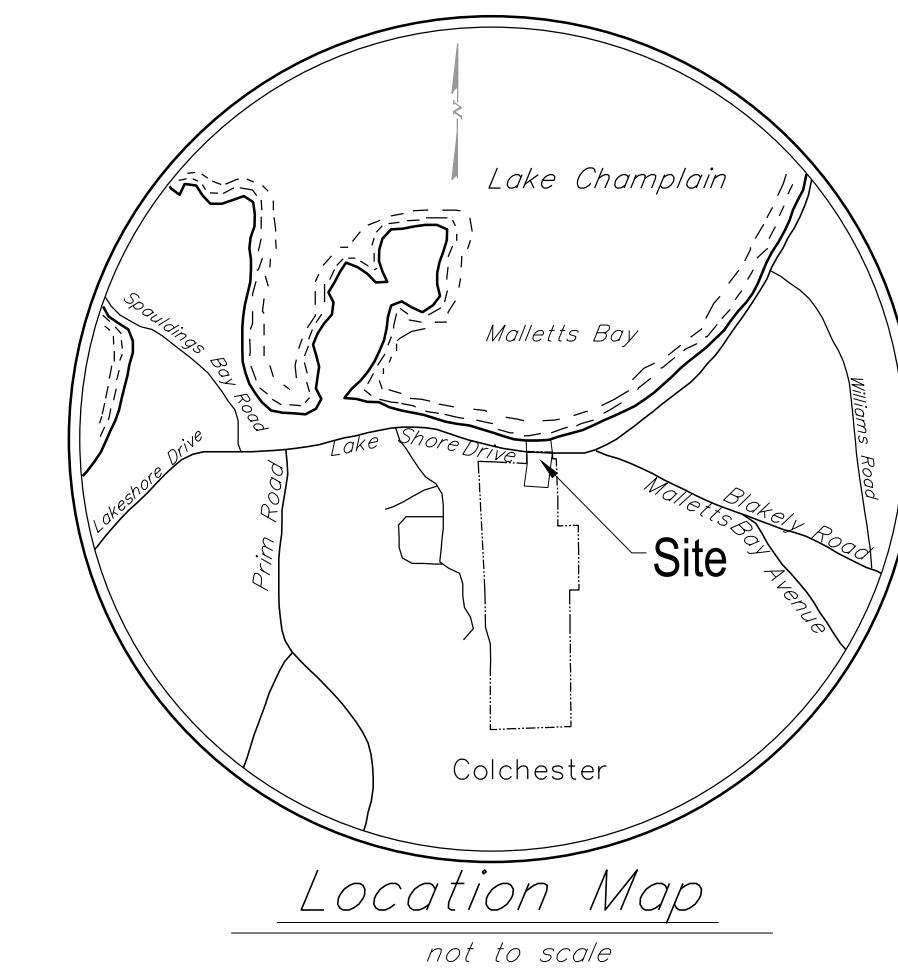
Revisions		
No.	Date	Description
	05/09/25	site layout
	06/10/25	entrance; lot coverage; rec path easement
	06/19/25	Town resubmittal
	07/10/25	Revised rec path easement
	10/03/25	Town Final

Drawing Title

OVERALL SITE PLAN

Drawing No

C-1.0



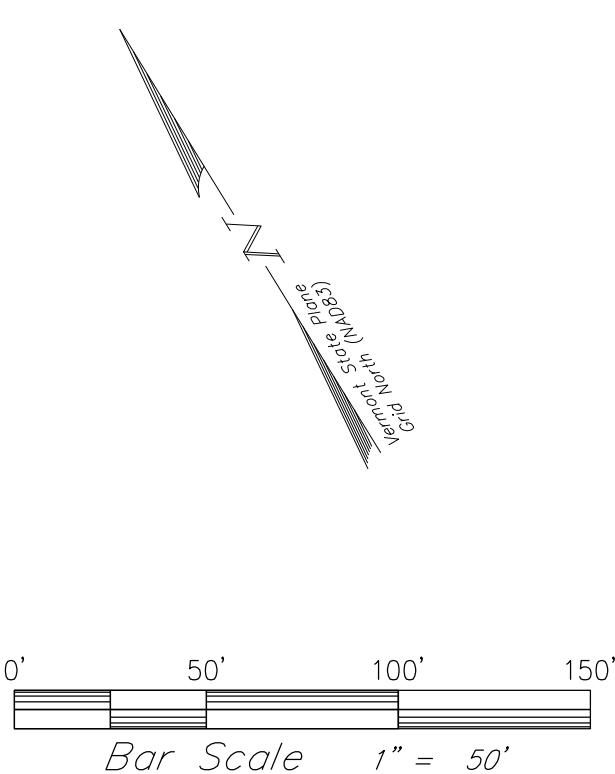
HAZELETT STRIP-CASTING CORPORATION

COLCHESTER, VT



164 Main Street, Suite 201 P: (802) 878-0375
Colchester, Vermont 05446 www.krebsandlansing.com

STAMP:



Notes:

- This plan is not a boundary survey. Refer to Boundary Survey prepared by Krebs & Lansing Consulting Engineers, "Lands of Hazelett Strip-Casting Corporation", dated March 3, 2023.
- 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 2023. Underground utilities are approximate and not warranted to be exact or complete. Dig Safe shall be contacted prior to any excavation.
- 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.
- Elevations are based on the NAVD 88 (Geoid 12A) vertical datum.
- Project Horizontal Coordinates derived from GPS observation using reference frame NAD83 (2011) 2010.00 epoch.
- Aerial photography is based on information provided by the Vermont Center for Geographical Information, 2023 flight.

PARKING SUMMARY

166 & 180 W. LAKESHORE DRIVE	6
135 W. LAKESHORE DRIVE (EXISTING STRIPED)	185
135 W. LAKESHORE DRIVE (PROPOSED)	67
135 W. LAKESHORE DRIVE (TO BE STRIPED)	31
TOTAL	289
FUTURE RESERVE	50
FUTURE TOTAL WITH RESERVE	339

Project:
**THE 'H'
AT
MALLETS BAY**

180 & 166 W. Lakeshore Drive
Colchester, Vermont

Project No. 23314
Scale 1" = 50'
Drawn by SWH
Checked by
Date 10/03/25

Revisions
No. Date Description

Drawing Title

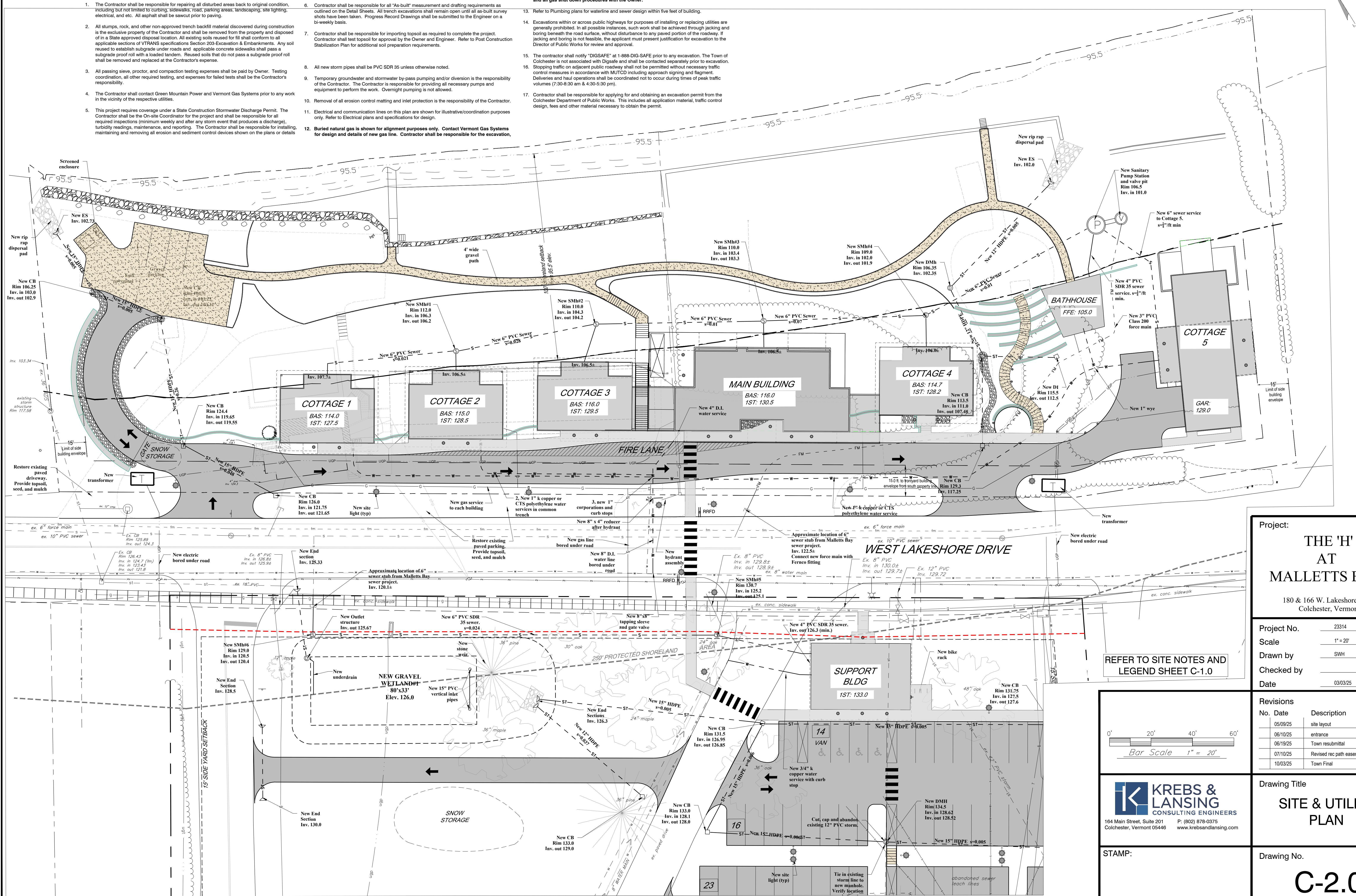
**OVERALL
PARKING PLAN**

Drawing No. **C-1.1**

CONSTRUCTION NOTES

- 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 saved prior to paving.
- All stumps, rock, and other non-approved trench backfill material discovered during construction is the responsibility of the Contractor and shall be removed from the property and disposed of in a State approved disposal location. Any trench soils reused for fill shall conform to all applicable sections of VTRANS specifications Section 203-Excavation & Embankments. Any soil reused to establish subgrade under roads and applicable concrete sidewalks shall pass a subgrade proof roll with a loaded tandem. Reused soils that do not pass a subgrade proof roll shall be removed and replaced at the Contractor's expense.
- All passing sieve, proctor, and compaction testing expenses shall be paid by Owner. Testing, coordination, all other required testing, and expenses for failed tests shall be the Contractor's responsibility.
- The Contractor shall contact Green Mountain Power and Vermont Gas Systems prior to any work in the vicinity of the respective utilities.
- This project requires coverage under a State Construction Stormwater Discharge Permit. The Contractor shall be the On-site Coordinator for the project and shall be responsible for all required inspections (minimum weekly and after any storm event that produces a discharge), turbidity readings, maintenance, and reporting. 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.
- 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 on a bi-weekly basis.
- Contractor shall be responsible for importing topsoil as required to complete the project. Contractor shall test topsoil for approval by the Owner and Engineer. Refer to Post Construction Stabilization Plan for additional soil preparation requirements.
- All new storm pipes shall be PVC SDR 35 unless otherwise noted.
- Temporary groundwater and stormwater 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.
- Removal of all erosion control matting and inter-protective is the responsibility of the Contractor.
- Electrical and communication lines on this plan are shown for illustrative/coordination purposes only. Refer to Electrical plans and specifications for design.
- Buried natural gas is shown for alignment purposes only. Contact Vermont Gas Systems for design and details of new gas line. Contractor shall be responsible for the excavation.

backfill, and restoration for the construction of the natural gas lines. Vermont Gas Systems will provide the piping, labor to install, and testing for the new gas main. Coordinate work and all gas shut down procedures with the Owner.



SEE SHEET C-2.1

Project:
**THE 'H'
AT
MALLETT'S BAY**

180 & 166 W. Lakeshore Drive
Colchester, Vermont

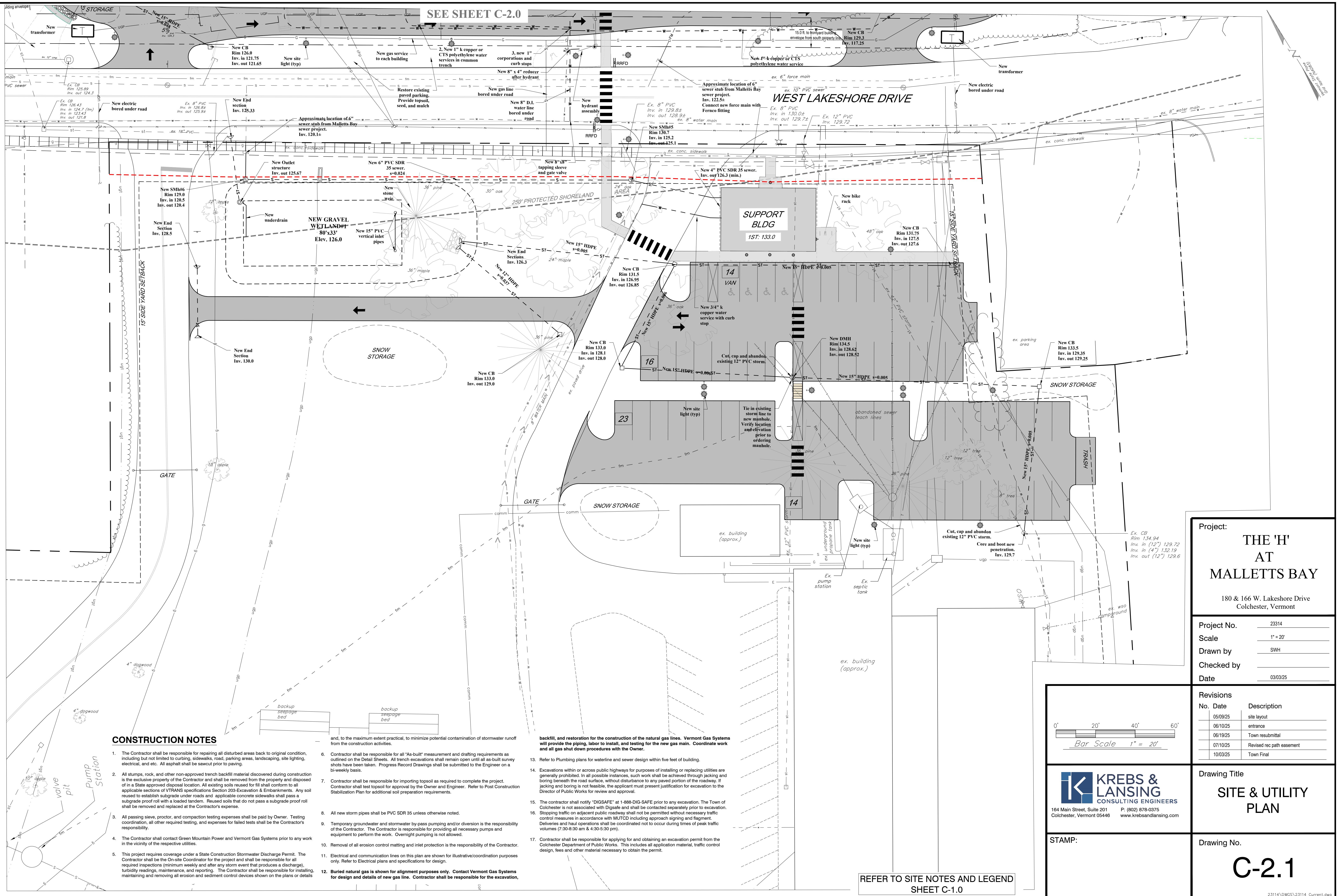
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Drawn by SWH
Checked by
Date 03/03/25

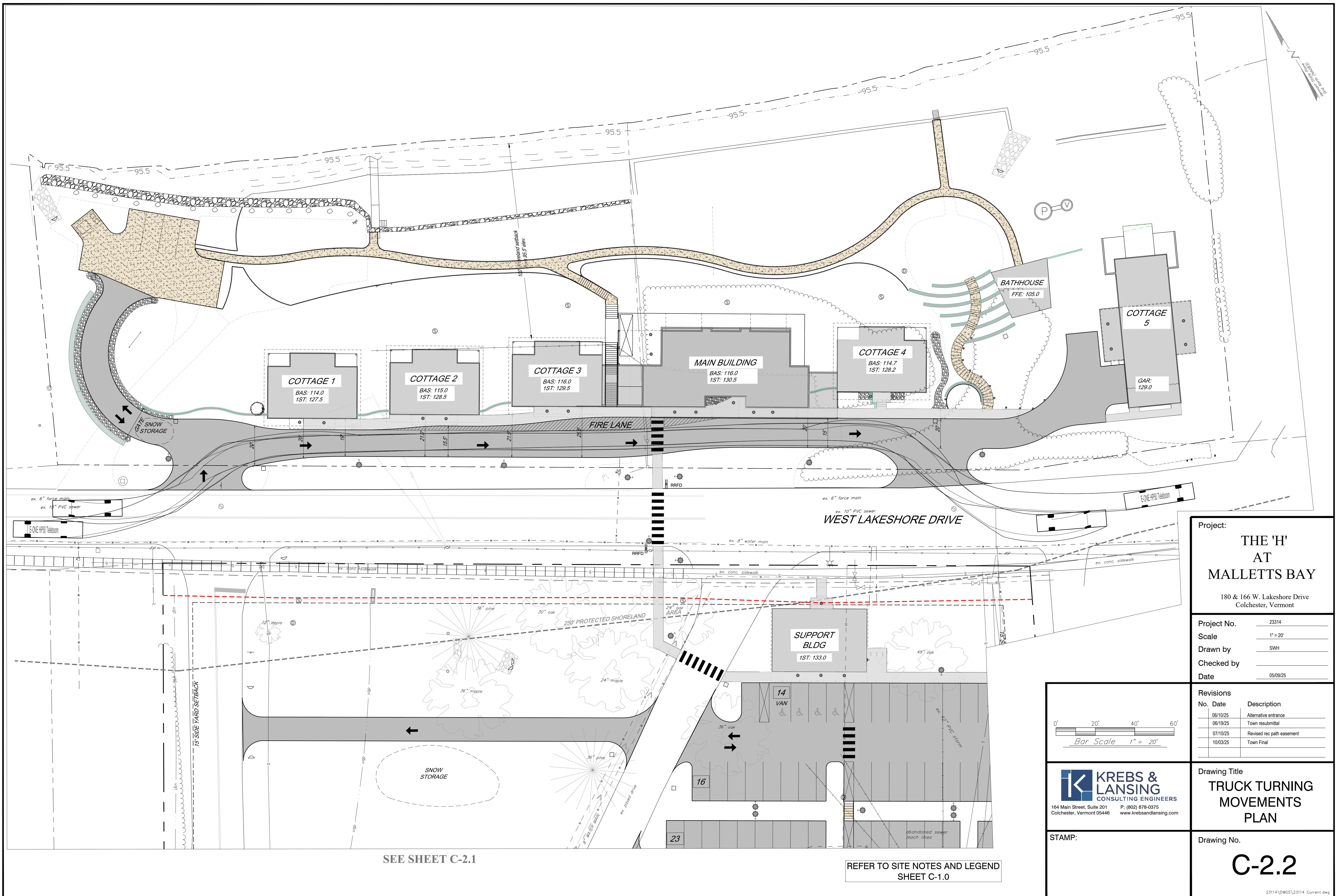
Revisions No. Date Description
05/09/25 site layout
06/10/25 entrance
06/19/25 Town resubmittal
07/10/25 Revised rec path easement
10/03/25 Town Final

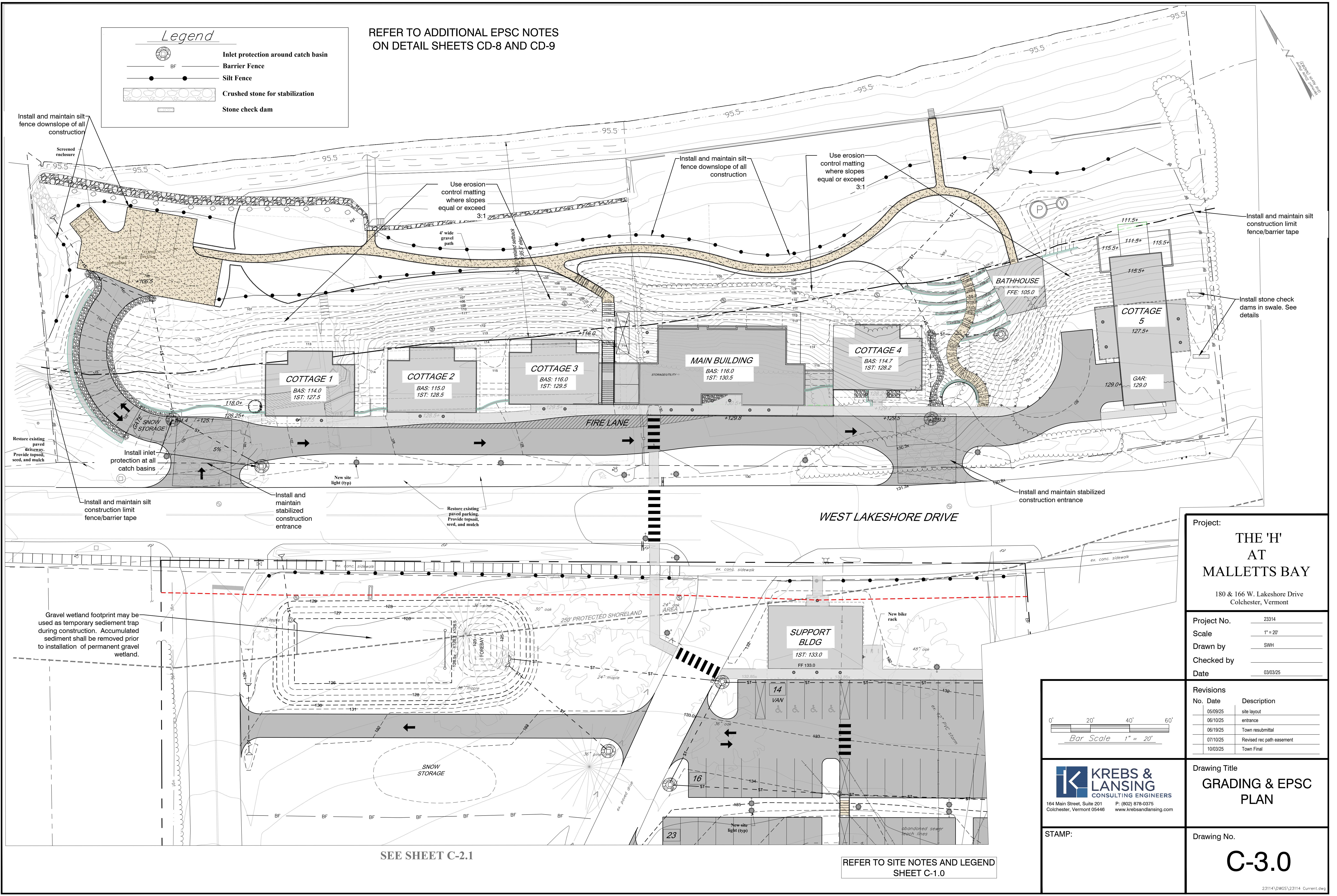
Drawing Title **SITE & UTILITY PLAN**
KREBS & LANSING CONSULTING ENGINEERS
164 Main Street, Suite 201 P. (802) 878-0375
Colchester, Vermont 05446 www.krebslansing.com

STAMP: Drawing No. C-2.0

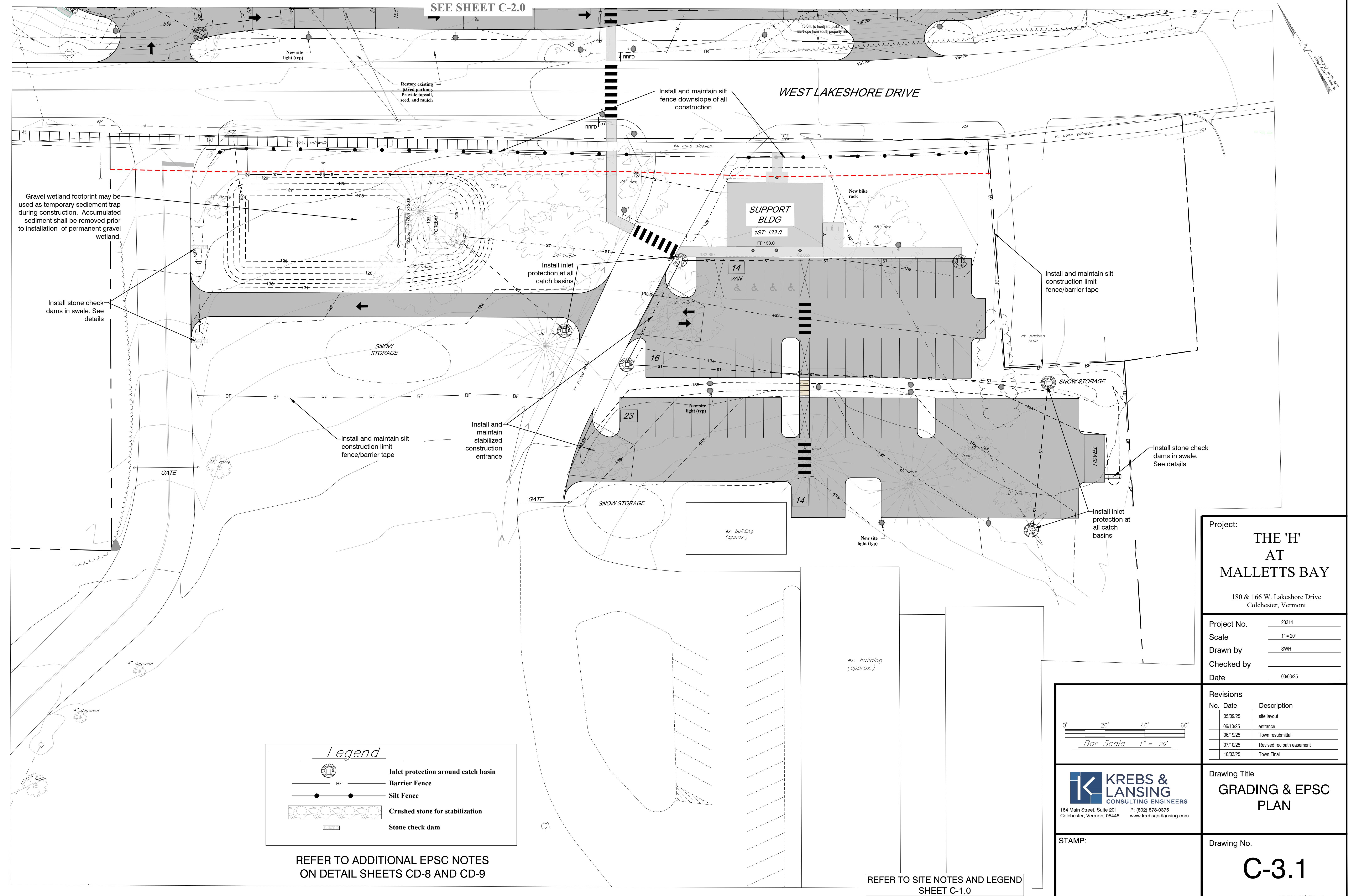
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SEE SHEET C-2.0

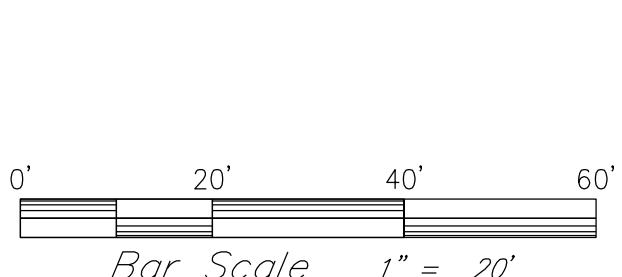


Project:
**THE 'H'
AT
MALLETT'S BAY**

180 & 166 W. Lakeshore Drive
Colchester, Vermont

Project No. 23314
Scale 1" = 20'
Drawn by SWH
Checked by
Date 03/03/25

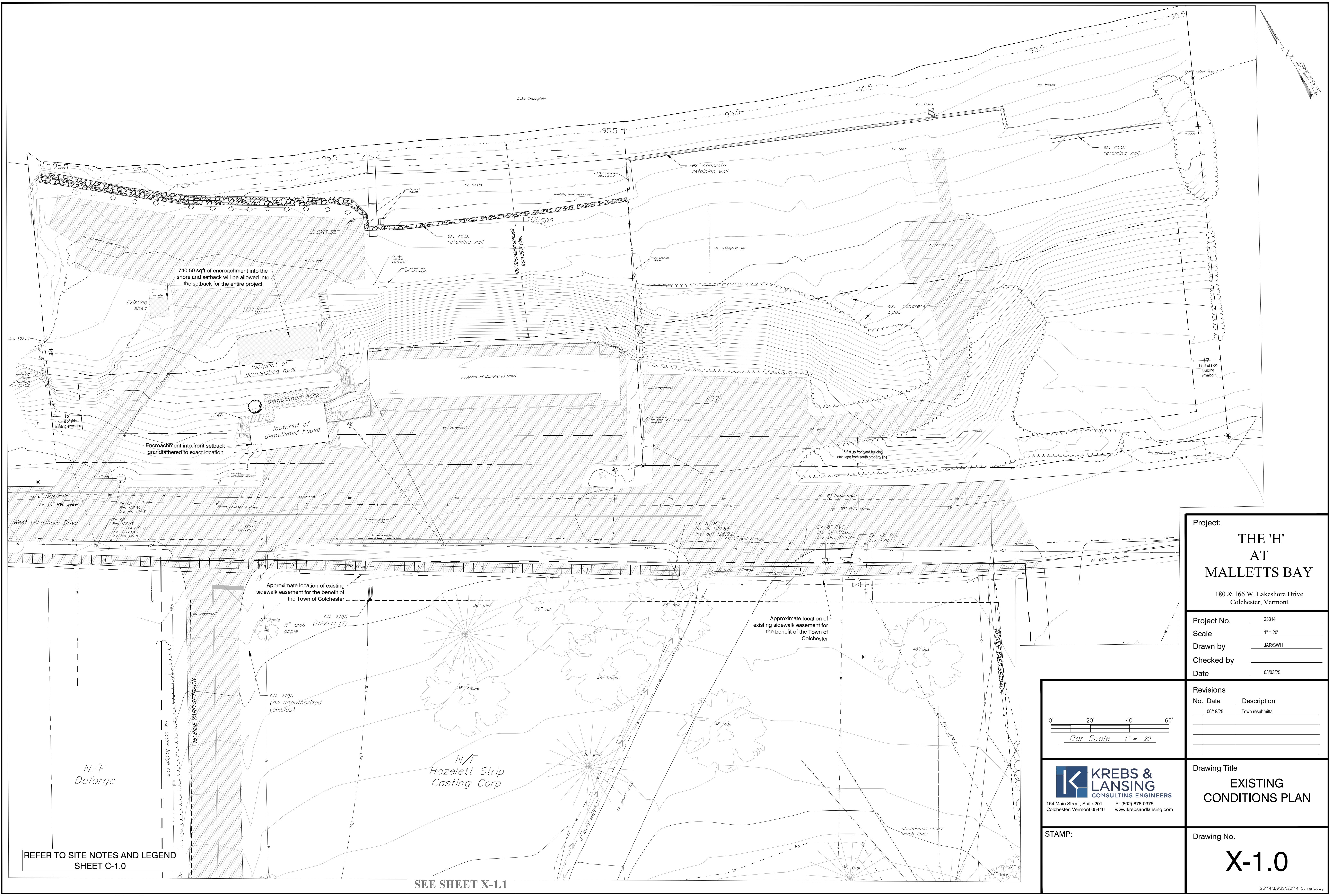
Revisions
No. Date Description
05/09/25 site layout
06/10/25 entrance
06/19/25 Town resubmittal
07/10/25 Revised rec path easement
10/03/25 Town Final



Drawing Title
**GRADING & EPSC
PLAN**

STAMP: Drawing No.
C-3.1

KREBS & LANSING
CONSULTING ENGINEERS
164 Main Street, Suite 201 P. (802) 878-0375
Colchester, Vermont 05446 www.krebsandlansing.com

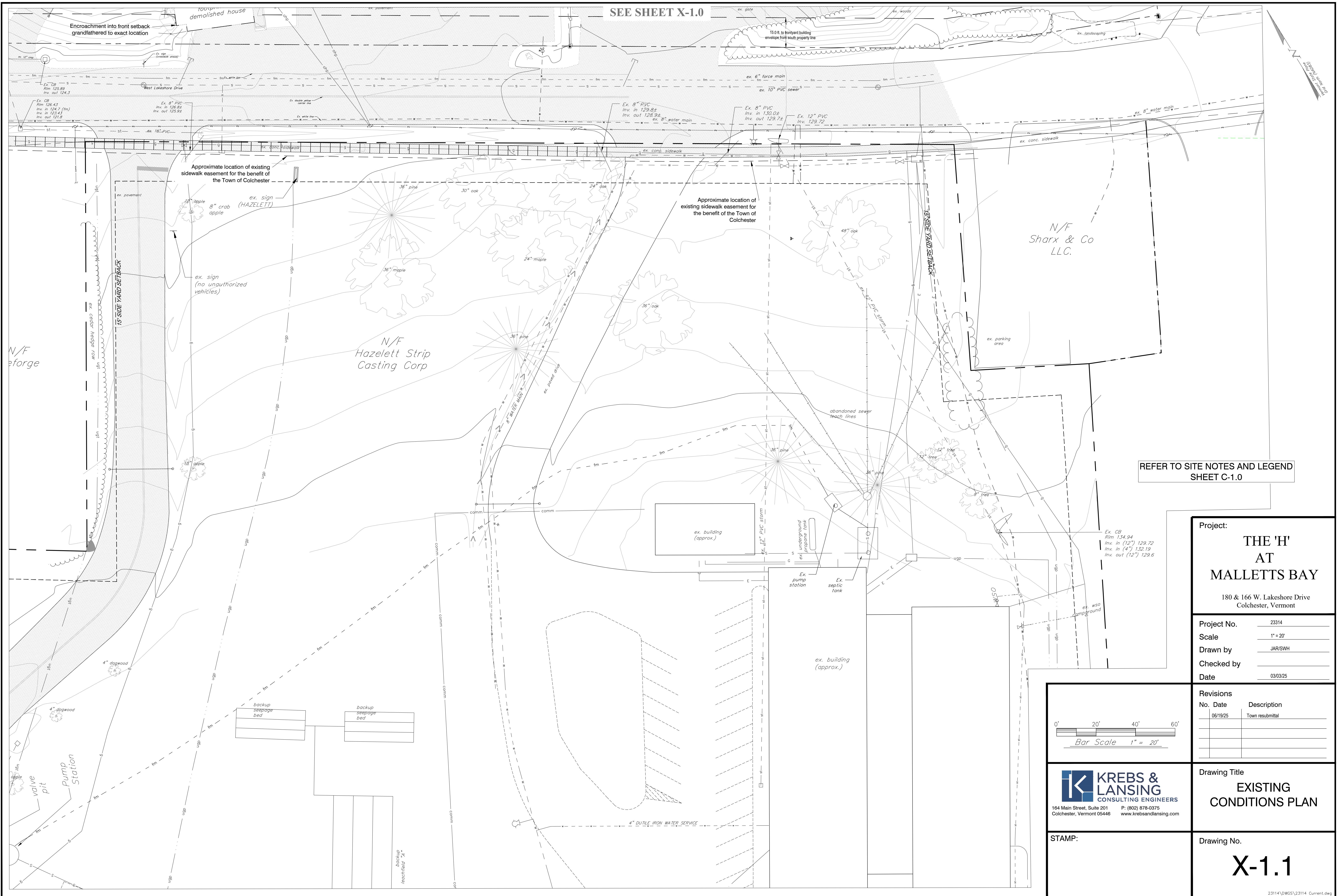


**REFER TO SITE NOTES AND LEGEND
SHEET C-1.0**

SEE SHEET X-1.1

X-1.0

23114\DWGS\23114_Current.dwg



GENERAL CONSTRUCTION NOTES:

- 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.
- THE METHODS AND MATERIALS OF CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS OF THE STATE OF VERMONT AND TOWN OF COLCHESTER, 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.
- 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.
- 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.
- THE CONTRACTOR SHALL VERIFY ALL TEMPORARY BENCH MARKS BEFORE USE.
- 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. 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 1926.655, AND APPLICABLE TO VOSHA REGULATIONS.
- THE CONTRACTOR SHALL VERIFY ALL UTILITY INTERSECTIONS AND CONTACT ENGINEER AND OWNER WITH CONFLICTS.
- THE CONTRACTOR SHALL CALL, DIG SAFE PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR SHALL COORDINATE FINAL LOCATION AND INVERTS FOR WATER, SEWER, AND STORM BUILDING CONNECTIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, AND MECHANICAL ENGINEER.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- SEE EROSION PREVENTION AND SEDIMENT CONTROL AND LOGISTICS PLANS FOR LOCATIONS OF STAGING / STORAGE AREAS.
- 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 Colchester and THE TOWN'S DEPARTMENT OF PUBLIC WORKS.
- 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.
- 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.
- 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.
- 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.
- CORE AND BOOT ALL EXISTING STRUCTURES UNLESS OTHERWISE NOTED.
- ALL NEW CATCH BASINS AND SANITARY SEWER MANHOLE MUST HAVE ONE 6" PRECAST CONCRETE GRADE RING.
- ALL WATERLINE PIPE SHALL BE DUCTILE IRON CLASS 52 OR C900 PVC. ALL BENDS AND FITTINGS SHALL HAVE POURED IN PLACE THRUST BLOCKS, MIXED ON SITE CONCRETE IS NOT ALLOWED.
- 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.
- 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.
- CONTRACTOR TO PIN CONCRETE SIDEWALK/SLABS TO ALL CONTACT POINTS WITH STAIRS, BUILDING, BIKE SLAB, RETAINING WALLS, ETC.
- CONTRACTOR SHALL MAINTAIN FULL OCCUPANCY AND FIRE DEPARTMENT ACCESS TO ALL SURROUNDING BUILDINGS. COORDINATE ALL TEMPORARY ACCESS WITH THE MUNICIPALITY.
- 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.
- REMOVAL OF ALL EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR.
- AT THE END OF THE PROJECT, CLEAN THE SUMPS OF ALL NEW AND EXISTING CATCH BASINS AND STORM MANHOLES WITHIN THE PROJECT LIMITS.
- ELECTRICAL AND LIGHTING ARE SHOWN FOR ILLUSTRATIVE/COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR DESIGN.
- SEE LANDSCAPE AND/OR STRUCTURAL PLANS FOR ALL RETAINING WALLS, UTILITY PADS, STAIRS, AND EXTERIOR CONCRETE AT DOORS.
- REFER TO PLUMBING, MECHANICAL AND/OR FIRE PROTECTION PLANS FOR WATER, SEWER AND STORM DESIGN WITHIN FIVE FEET OF THE BUILDING.

EPSC GENERAL NOTES:

- 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.
- 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 OPERATOR:
 - 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
 - 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).
- EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED TO THE EXTENT PRACTICABLE.
- A VEGETATED BUFFER SHALL BE MAINTAINED FOR WATER BODIES WHERE FEASIBLE (E.G., WETLANDS AND STREAMS).
- 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.
- 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.
- 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.
- CONCENTRATED RUNOFF SHALL NOT FLOW DOWN STEEP SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL (SEE DETAILS), FLUME, OR SLOPE DRAIN STRUCTURE.
- UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
 - NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
 - EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES, WHERE FEASIBLE, BUT NOT IN RESOURCE AREAS.
- 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:
 - LESS THAN 5% SLOPE
 - AT LEAST 100 FEET FROM ANY DOWNSLOPE WATER BODY OR CONVEYANCE TO A WATER BODY, INCLUDING A DITCH
 - VEGETATED
- 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.
- IN ADVANCE OF PREDICTED RAINFALL OR SNOWMELT, ALL EPSC MEASURES THAT ARE LOCATED IN ACTIVE AREAS OF EARTH DISTURBANCE SHALL BE INSPECTED AND REPAVED, AS NEEDED. IF NECESSARY, THIS SHALL INCLUDE TEMPORARY STABILIZATION OF ALL DISTURBED SOILS ON THE SITE IN ADVANCE OF THE ANTICIPATED RUNOFF PERIOD.
- 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 COMPAKTED 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.
- 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.
- 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 ENSURE NO DAMAGE IS DONE TO DESIGNATED TREES.
- 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.

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.

WATER & SEWER CONSTRUCTION NOTES

- THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONSTRUCTION OF WATER MAIN, STORM AND SANITARY SEWER SYSTEMS AS SHOWN ON THE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NECESSARY ADAPTERS, FITTINGS, ETC. TO MAKE CONNECTIONS TO THE EXISTING AND PROPOSED UNITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN OR IMPLIED ON THE PLANS AND/OR REFERENCED IN THE SPECIFICATIONS AND PERMITS. THE CONTRACTOR SHALL SUBMIT, FOR APPROVAL BY THE ENGINEER, ALL TYPES OF MATERIALS AND PRODUCTS USED.
- THE CONTRACTOR SHALL COORDINATE ALL WORK ON THE WATER SUPPLY SYSTEM WITH THE OWNER, THE TOWN OF COLCHESTER, COLCHESTER PUBLIC WORKS, COLCHESTER FIRE DISTRICT #2, AND THE CIVIL ENGINEER. ALL WATER INSTALLATION WORK AND WATER DISTRIBUTION MATERIALS MUST COMPLY WITH THE CURRENT COLCHESTER PUBLIC WORK SPECIFICATIONS.
- THESE PLANS ARE NOT RESPONSIBLE FOR DESIGN OF WATER AND SEWER SERVICES WITHIN 5 FEET OF THE BUILDING. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING THE SERVICES TO THE PLUMBING AND/OR FIRE SYSTEM CONNECTION WITHIN THE BUILDING. SEE PLUMBING ENGINEER, MECHANICAL ENGINEER AND/OR FIRE PROTECTION PLANS FOR SCOPE, DESIGN AND SPECIFICATIONS WITHIN 5 FT. OF THE BUILDING.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS AND APPURTENANCES TO COMPLETE THE WATERLINE CONSTRUCTION WORK. THIS INCLUDES TEMPORARY FITTINGS AND GAUGES NECESSARY TO SAFELY COMPLETE THE FLUSHING ACTIVITIES REQUIRED PRIOR TO MAKING CONNECTIONS WITH BUILDING PLUMBING.
- THE PROJECT SHALL BE CONSTRUCTED, COMPLETED, MAINTAINED, AND OPERATED IN ACCORDANCE WITH THE APPROVED PLANS. NO CHANGES SHALL BE MADE IN THE PROJECT WITH OUT THE WRITTEN APPROVAL OF THE TOWN, CFD#2, AND THE CIVIL ENGINEER. A COPY OF THE FINAL APPROVED PLANS SHALL BE SUBMITTED TO CWD AND THE TOWN PRIOR TO CONSTRUCTION OF THE WATER SYSTEM IMPROVEMENTS.
- THE TOWN AND CFD#2 SHALL BE NOTIFIED IN ADVANCE TO INSPECT ALL MECHANICAL JOINTS FITTINGS, MAIN LINE TAPS, APPURTENANCES, THRUST BLOCKS, WATER LINE CROSSINGS, AND TESTING PRIOR TO OCCURRENCE OR BACKFILLING.
- ALL DOMESTIC SERVICES AND FIRE SPRINKLER SYSTEMS THAT ARE CONNECTED TO THE PUBLIC WATER SYSTEM SHALL BE PROTECTED WITH A BACKFLOW PREVENTION ASSEMBLY, AND AN APPROPRIATE THERMAL EXPANSION SYSTEM. THE MECHANICAL CONTRACTOR SHALL COORDINATE APPROVED BACKFLOW PREVENTION WITH THE TOWN AND CFD#2.
- COLCHESTER FIRE DISTRICT #2 (CFD#2) OWNS AND OPERATES THE WATERLINE IN THE AREA OF THIS PROJECT. THE CONTRACTOR SHALL NOTIFY CFD#2 PRIOR TO ANY CONSTRUCTION.

WATER MAINS

- APPLIES TO NEW DOMESTIC WATER MAINS AND SERVICES.
- THE PIPE FOR WATER MAIN SHALL BE CL52 DUCTILE IRON, ALL D.I. PIPE SHALL BE POLYETHYLENE ENCASED. DUCTILE IRON FITTINGS SHALL CONFORM TO AWWA C110. 350 POUNDS WORKING PRESSURE. VALVES SHALL BE MANUFACTURED TO MEET ALL REQUIREMENTS OF AWWA SPECIFICATION C509 OR C515. FOUR-INCH AND SIX-INCH PIPE SHALL HAVE NO LESS THAN 2 BRASS WEDGES INSTALLED AT EACH JOINT. EIGHT-INCH AND 10" PIPE SHALL HAVE NO LESS THAN 3 WEDGES INSTALLED AT EACH JOINT.
- ALL PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C600. THE PIPE SHALL BE KEPT FREE OF FOREIGN MATTER AND DEBRIS DURING INSTALLATION. WHEN THE PROCESS OF PIPE LAYING HAS STOPPED, ANY OPEN ENDS OF PIPE SHALL BE PLUGGED. THERE SHALL BE A MINIMUM OF 6'-0" COVER OVER ALL PIPE AND SERVICE LINES. ANY PIPE DEFLECTION SHALL NOT EXCEED FIFTY (50%) PERCENT OF RECOMMENDED MANUFACTURER'S MAXIMUM DEFLECTION. BACKFILL MATERIALS AND PROCEDURES SHALL BE AS DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL SHEETING AND/OR SHORING NECESSARY TO COMPLY WITH OSHA - VOSA REGULATIONS.

- THE TESTING OF THE WATER MAIN SHALL CONSIST OF THE TESTING OF ALL INSTALLED PIPE, SERVICES AND HYDRANTS IN ACCORDANCE WITH AWWA C600. THE TESTING SHALL CONSIST OF A PRESSURE TEST AND LEAKAGE TEST. ALL TESTING SHALL BE DONE WITH POTABLE WATER AND IN THE PRESENCE OF THE ENGINEER, REPRESENTATIVES FROM THE MUNICIPALITY AND THE MUNICIPALITY PUBLIC WORKS. THE PRESSURE TEST CONSISTS OF MAINTAINING A MINIMUM INTERNAL PIPE PRESSURE OF 200 PSI FOR TWO (2) HOURS. THE TESTING ALLOWANCE SHALL BE DEFINED AS THE MAXIMUM QUANTITY OF MAKEUP WATER THAT IS ADDED INTO A PIPELINE UNDERGOING HYDROSTATIC PRESSURE TESTING, OR ANY VALVED SECTION THEREOF, IN ORDER TO MAINTAIN PRESSURE WITHIN +/- 5 PSI OF THE SPECIFIED TEST PRESSURE (AFTER THE PIPELINE HAS BEEN FILLED WITH WATER AND THE AIR HAS BEEN EXPELLED). NO PIPE INSTALLATION WILL BE ACCEPTED IF THE QUANTITY OF MAKEUP WATER IS GREATER THAN THAT DETERMINED BY THE FOLLOWING FORMULA:

$$L = \frac{SD\sqrt{P}}{148,000}$$

S = LENGTH OF PIPE TESTED, IN FEET
D = NOMINAL PIPE DIAMETER, IN INCHES
P = AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST, IN POUNDS PER SQUARE INCH (GAUGE)

- CHLORINATING OF THE SYSTEM SHALL BE ACCOMPLISHED AFTER THE WATER MAIN HAS BEEN SUCCESSFULLY PRESSURE TESTED AND THOROUGHLY FLUSHED. DISINFECTING SHALL BE IN ACCORDANCE WITH AWWA C-651. THE DISINfecting PROCESS SHALL BE DEEMED ACCEPTABLE ONLY AFTER TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES, TAKEN FROM THE FLUSHED AND DISINFECTED MAIN 24 HOURS APART, SHOWS NO EVIDENCE OF BACTERIOLOGICAL CONTAMINATION. FOR PROPER DISINFECTION USE MINIMUM 25 MG/L CHLORINE CONCENTRATION FOR 24 HOURS. THE CONCENTRATION MUST REMAIN ABOVE 10 MG/L. TABLET DISINFECTING IS NOT ACCEPTABLE. DECHLORINATING SHALL BE REQUIRED WHILE FLUSHING THE ORIGINAL CHLORINE FROM THE NEW LINE. COORDINATE WITH THE MUNICIPALITY AND THE MUNICIPALITY PUBLIC WORKS REGARDING THE DISPOSAL OF THE HIGHLY CHLORINATED WATER FLUSHED FROM THE NEW WATERLINE.
- THE WATER MAIN SHALL BE THOROUGHLY FLUSHED WITH A MINIMUM FLOW VELOCITY OF 2.5 FT/S TO FLUSH FOREIGN MATERIALS OUT OF THE VALVES AND HYDRANTS. AT LEAST 48 HOURS PRIOR TO WATERLINE FLUSHING, THE CONTRACTOR SHALL CONTACT THE OWNER, MUNICIPALITY FIRE DEPARTMENT, THE DISTRICT WATER SUPPLY COMPANY, AND THE ENGINEER.

SANITARY SEWER

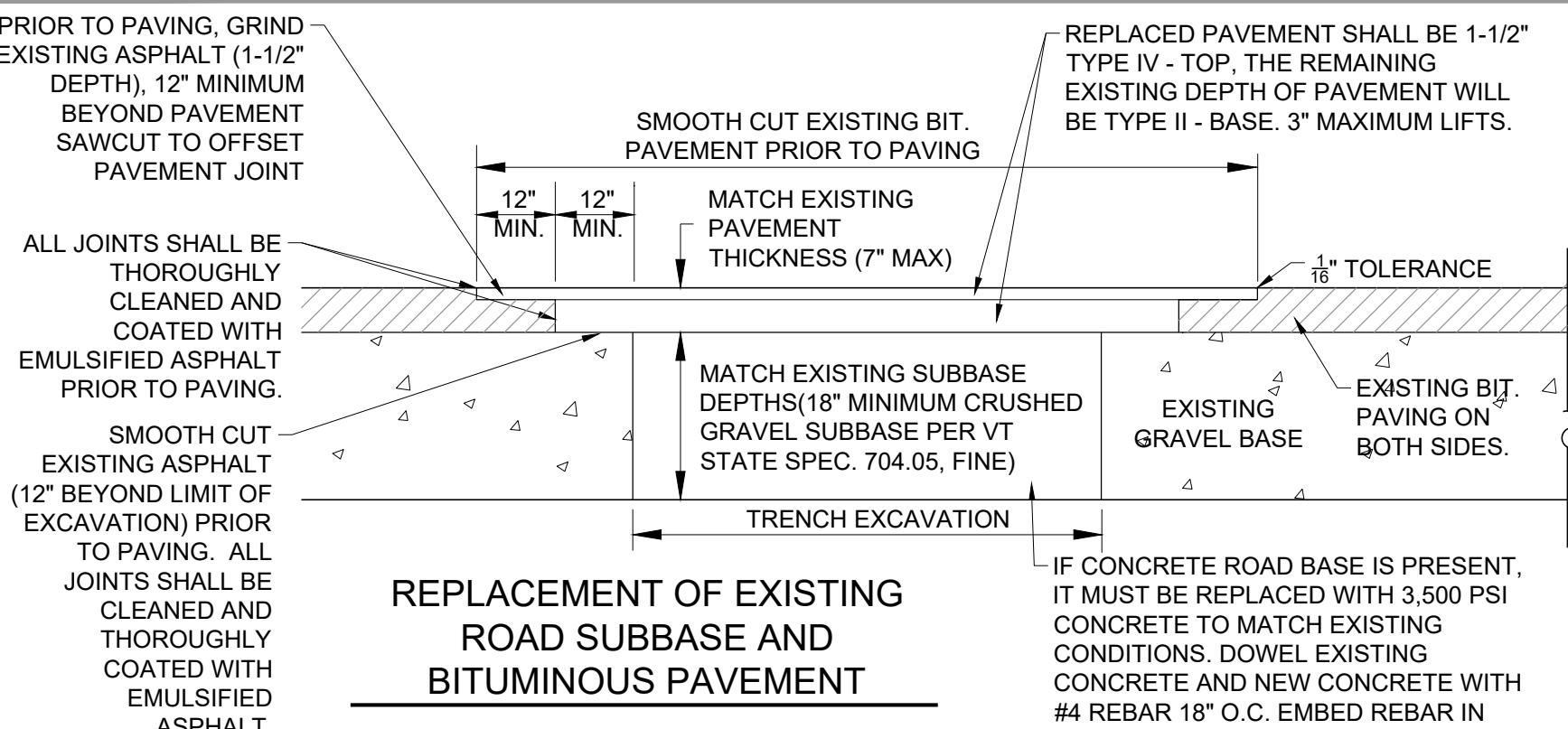
- ALL SEWER LINES AND MANHOLES SHALL BE THOROUGHLY TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION RULES (11/06/2023).
- ALL SANITARY MANHOLES SHALL BE VACUUM TESTED IN THE PRESENCE OF THE ENGINEER. THE STRUCTURE SHALL BE TESTED PRIOR TO BACKFILL WITH THE LOWEST SEAM EXPOSED. TEST PROCEDURES AND PRESSURE SHALL BE DETERMINED JOINTLY BY THE LOCAL APPROVAL AGENCY AND THE ENGINEER. FAILURE OF ANY VACUUM TEST SHALL NECESSITATE REPAIR AND/OR REPLACEMENT OF THE STRUCTURE AND RETEST. WATER TESTING MANHOLES IS NOT ACCEPTABLE.
- ALL 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.
- 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.
- THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER IF PRE-SCHEDULED TESTING AND/OR WATER/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.

ADDITIONAL NOTES AND TESTING REQUIREMENTS

- IN ADDITION TO THE ABOVE REQUIREMENTS AND APPLIES TO WATER AND SANITARY SEWER.
- ALL WATER LINES AND SEWER LINES SHALL BE THOROUGHLY TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION RULES (11/06/2023) AND THE CHAPTER 21 WATER SUPPLY RULES (03/17/2020) (THE MORE STRINGENT RULE SHALL APPLY).
- ALL PRIVATE OR MUNICIPAL WATERLINES SHALL BE TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN AWWA C600 AND/OR NFPA 24.
- NO WATER MAIN SHALL BE CLOSER THAN TEN (10) FEET TO ANY SANITARY SEWER OR SANITARY MANHOLE AND FIVE (5) FEET TO ANY CATCH BASIN OR STORM SEWER LINE. PROVIDE MINIMUM OF 18" VERTICAL SEPARATION BETWEEN WATER MAIN AND STORM/SANITARY SEWER CROSSING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AS-BUILTS TO SERVICE LOCATIONS, AND ANY WATER MAIN FITTINGS. AS-BUILTS SHALL BE RECORDED IN ACCORDANCE WITH THE OUTLINED PROCEDURES.</li

ROAD CONSTRUCTION NOTES

- ALL REFERENCES TO ROAD SHALL APPLY TO PARKING AREAS AS WELL.
- NEW ROAD SHALL BE CONSTRUCTED TO THE LINE AND GRADE SHOWN ON THE DRAWINGS. THE ROAD AND UTILITY LOCATIONS SHALL BE AS TYPICALLY DETAILED UNLESS OTHERWISE SHOWN.
- ALL ROAD AND PARKING CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE VERMONT AGENCY OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" 2018, HEREAFTER CALLED VERMONT HIGHWAY SPECIFICATIONS. SPECIFICATIONS FOUND ON THESE PLANS, AND CITY/TOWN SPECIFICATIONS. IN CASE OF CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY AS DETERMINED BY THE ENGINEER. ALL GRAVEL AND STORM SEWER STRUCTURES SHALL BE APPROVED BY TOWN ENGINEER.
- THE CONTRACTOR SHALL FOLLOW VERMONT HIGHWAY SPECIFICATIONS (2018) SECTION 203.11 FOR PLACING AND SPREADING EMBANKMENTS.
- FILL MATERIAL FOR ROAD EMBANKMENT SHALL BE APPROVED BY THE ENGINEER. FILL SHALL BE PLACED IN 12' LIFTS, WETTED AND COMPAKTED WITH SATISFACTORY COMPAKCTION EQUIPMENT TO 95% OF MAXIMUM DENSITY (STANDARD PROCTOR).
- ROAD IN FILL SECTIONS SHALL BE PLACED AND COMPAKTED A MINIMUM OF 3 FEET ABOVE TOP OF ANY UTILITY TO BE INSTALLED BEFORE TRENCH IS EXCAVATED FOR PIPE PLACEMENT. IN TRENCHES AND CUT SECTIONS, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHEETING, SHORING AND BRACING TO MAINTAIN COMPLIANCE WITH ALL OSHA/VOSHA REGULATIONS.
- METHODS FOR CONSTRUCTION OF SUBGRADE SHALL CONFORM TO VERMONT HIGHWAY SPECIFICATIONS (2018) 203.12 OR AS DETERMINED BY THE ENGINEER.
- ANY SUBGRADE OR SUBBASE DISTURBED BY CONTRACTOR, OR RENDERED UNSUITABLE BY CONSTRUCTION MACHINERY, SHALL BE REMOVED AND REPLACED WITH APPROVED GRANULAR BACKFILL AT THE CONTRACTOR'S EXPENSE. THE SUBGRADE SHALL BE COMPAKTED TO ATTAIN AT LEAST 95% OF THE MAXIMUM DENSITY (STANDARD PROCTOR).



NOTES

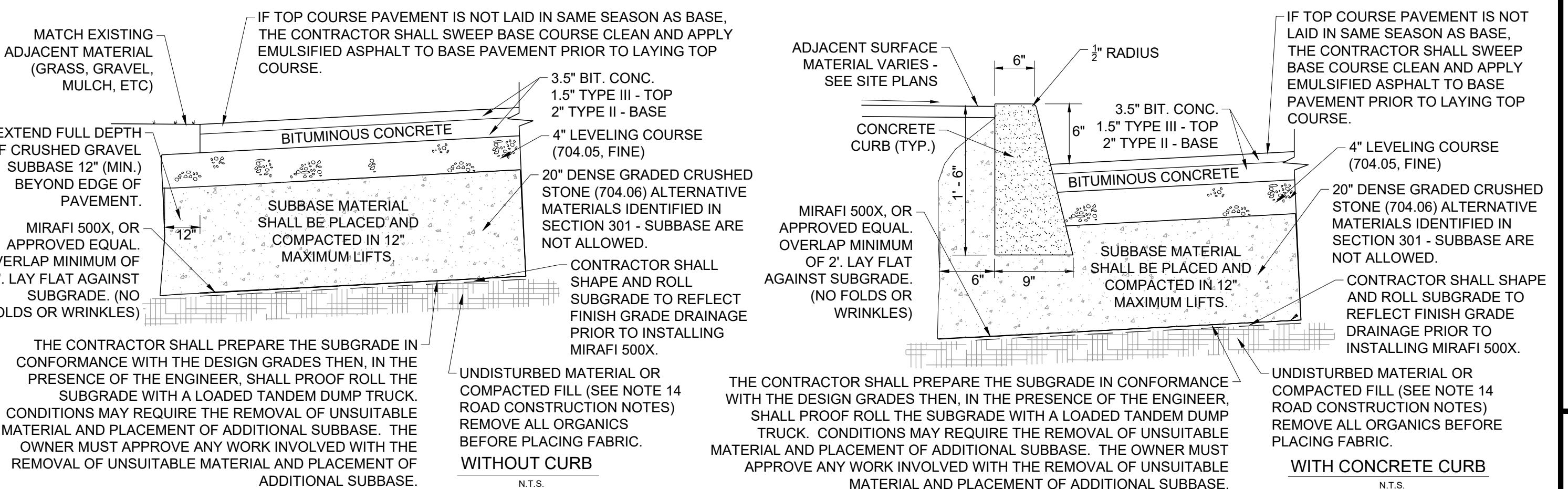
- SET UP AND MAINTAIN SIGNS AND OTHER SAFETY CONTROL DEVICES.
- RESHAPE HOLE PATCH AREA BY CUTTING WITH A CONCRETE SAW INTO SQUARE OR RECTANGULAR SHAPE AND CUT SIDE FACED VERTICALLY. RESHAPE DOWNWARD SOLID MATERIAL AND AROUND HOLE TO SOUND PAVEMENT.
- BACKFILL TRENCH IN 6" LIFTS AND COMPACT EACH TO 95% OF MAXIMUM DENSITY OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 STANDARD PROCTOR.
- REMOVE ALL LOOSE MATERIAL AND THOROUGHLY SWEEP THE HOLE AREA, CLEAN ANY MUD AND STANDING WATER.
- APPLY LIQUID ASPHALT TRACK TO VERTICAL FACES IN UNIFORM MANNER. DO NOT PUDDLE TRACK COAT ON BOTTOM HOLE.
- FILL TOP OF HOLE WITH TYPE IV BITUMINOUS CONCRETE AND COMPACT IN LIFTS NO MORE THAN 2' THICK. EACH LIFT SHOULD BE THOROUGHLY COMPAKTED WITH A VIBRATORY PLATE COMPACTOR OR A PORTABLE ROLLER. EXPERIENCE HAS SHOWN THAT 15 TO 20 PASSES WITH THE VIBRATORY ROLLER AND MIX TEMPERATURE ABOVE 250°F (121°C) ARE NECESSARY TO ENSURE GOOD COMPAKCTION. HAND TAMP SHOULD ONLY BE USED FOR SMALL AREAS LESS THAN 1 S.F.
- CLEAN UP AREA. DO NOT LEAVE EXCESS FILL OR EXCAVATED MATERIAL ON THE PAVEMENT. REMOVE SAFETY SIGNS.

BEFORE PLACING ROAD OR EMBANKMENT MATERIALS.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF COMPAKCTION IN THE ROAD AND UTILITY TRENCHES.
- SAND FILL SHALL CONFORM TO VERMONT HIGHWAY SPECIFICATIONS (2018) 703.03, TABLE 703.03A. GRANULAR BORROW SHALL CONFORM TO THE VERMONT HIGHWAY SPECIFICATIONS 703.04 GRANULAR BORROW, TABLE 703.04A.
- GRAVEL SUBBASE FOR PAVEMENT SHALL CONFORM TO VERMONT HIGHWAY SPECIFICATIONS (2018) 704.05, TABLE 704.05A, COARSE.
- LEVELING COURSE SHALL CONFORM TO VERMONT HIGHWAY SPECIFICATIONS (2018) 704.05, TABLE 704.05A, FINE. SHOULDER SHALL CONFORM TO SECTION 704.12, AGGREGATE FOR SHOULDER.
- BITUMINOUS CONCRETE PAVEMENT SHALL CONFORM TO VERMONT HIGHWAY SPECIFICATIONS (2018) SECTION 404 AND 406. BINDER COURSE SHALL BE TYPE II, AND FINISH WEARING COURSE SHALL BE TYPE III OR IV. BASE COURSE PAVING TO BE PLACED FIRST YEAR, SURFACE COURSE TO BE PLACED THE SECOND OR THIRD YEAR, DETERMINED BY THE ENGINEER.
- EMBANKMENT FILL FOR ROAD AND PARKING SHALL BE A SIEVE SPECIFICATION AS FOLLOWS:

SIEVE	% FINER
4"	100
2"	85-100
#4	60-100
#200	12 MAXIMUM

- IF PROOF ROLL FAILS, CONTRACTOR SHALL REMOVE THE SITE SOIL AND REPLACE IT WITH SAND WITH THE ABOVE SPEC. UNTIL A PROOF ROLL CAN BE PLACED WITHOUT FAILING. ENGINEER WILL JUDGE PASS/FAILURE OF PROOF ROLL, THIS WILL BE PERFORMED WITHOUT FURTHER COSTS TO THE OWNER.



GRAVEL NOTES

- THE CONTRACTOR TO TAKE SIEVE ANALYSIS OF GRAVEL AS SOON IT ARRIVES ON SITE.
- TRAVEL OVER GRAVEL WITH ANY VEHICLE TRACKING SOIL PRIOR TO PLACEMENT OF PAVEMENT IS PROHIBITED.
- 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.

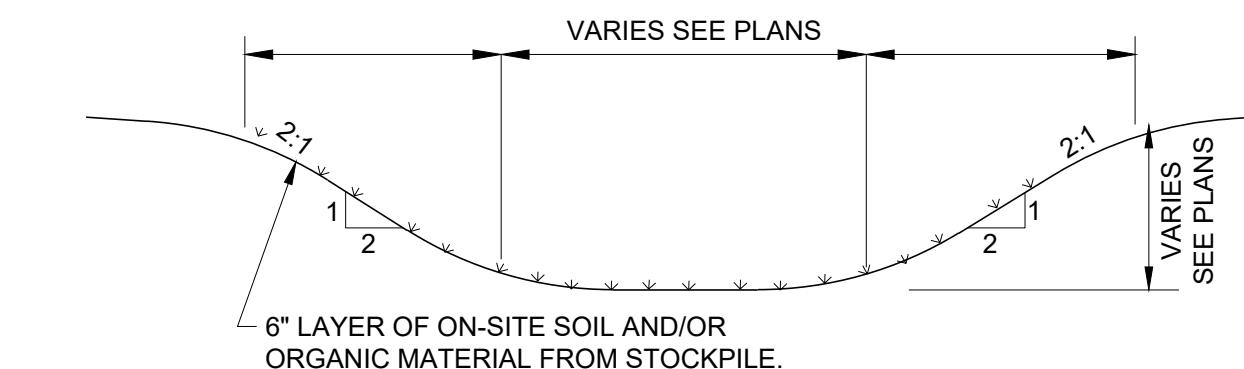
NOTES FOR CONCRETE CURB

- 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' INTERVALS.
- APPLY 2 COATS OF SPECCHEM CURESHIELD CURE/SEAL COMPOUND TO ALL CONCRETE SURFACES, PER THE MANUFACTURER'S SPECIFICATIONS.
- CONCRETE MAY 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.
- JOINT FILLER SHALL BE RESILIENT NON-EXTRUDING CELLULAR FIBER JOINT, UNIFORMLY SATURATED WITH ASPHALT, OFFERING A MINIMUM OF 70% RECOVERY AFTER COMPRESSION.
- THE ENGINEER SHALL BE CONTACTED AT LEAST 24 HOURS PRIOR TO FORMING CONCRETE CURB TO REVIEW LAYOUT.

PAVEMENT MARKING NOTES

- TYPICAL TOWN OF COLCHESTER PARKING SPACE IS 9'-0" CENTER OF LINE TO CENTER OF LINE MARKED WITH 4" WIDE YELLOW OR WHITE PAINT.
- ADA SPACE IS YELLOW/WHITE STENCIL, YELLOW/WHITE TRIM. COORDINATE EXACT REQUIREMENTS WITH TOWN OF COLCHESTER.
- PAINT FOR PAVEMENT MARKINGS SHALL BE HYDROPAINT WATERBORNE TRAFFIC PAINT BY FRANKLIN PAINT COMPANY. IT SHALL BE REFLECTIVE, VOC COMPLIANT FAST DRYING, 100% ACRYLIC WATERBORNE TRAFFIC PAINT. PAINT FOR STOP BARS AND CROSSWALKS SHALL BE WHITE. ALL OTHER LINE STRIPING SHALL BE YELLOW. CONFIRM PAINT COLOR WITH TOWN OF COLCHESTER AND OWNER.
- TRAFFIC PAINT SHALL BE APPLIED WITH A UNIFORM THICKNESS AND AT A RATE SUCH THAT NO PAVEMENT IS VISIBLE AFTER DRYING. ADDITIONAL PAINT APPLICATION WILL BE REQUIRED IF UNDERLYING PAVEMENT IS VISIBLE.

TYPICAL ROAD CROSS SECTION DETAILS - WITH CONCRETE CURBS AND WITHOUT CURBS



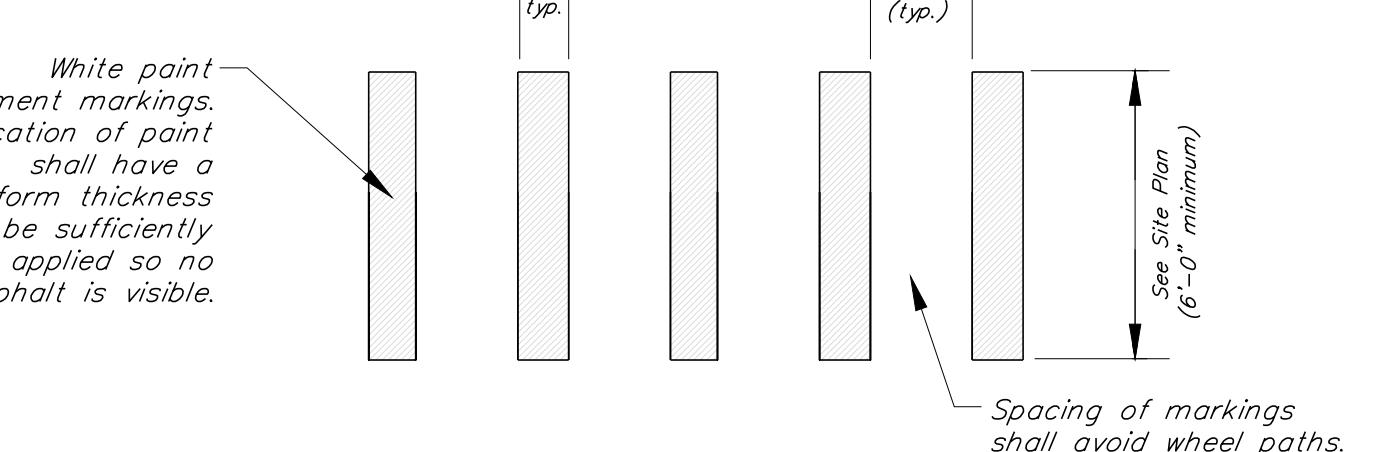
Project:
THE 'H' AT MALLETS BAY
180 & 166 W. Lakeshore Drive
Colchester, Vermont

Project No. 23314
Scale N.T.S.
Drawn by SWH
Checked by
Date 03/03/25

Revisions
No. Date Description
06/19/25 Town resubmittal, road section
10/03/25 Town Final

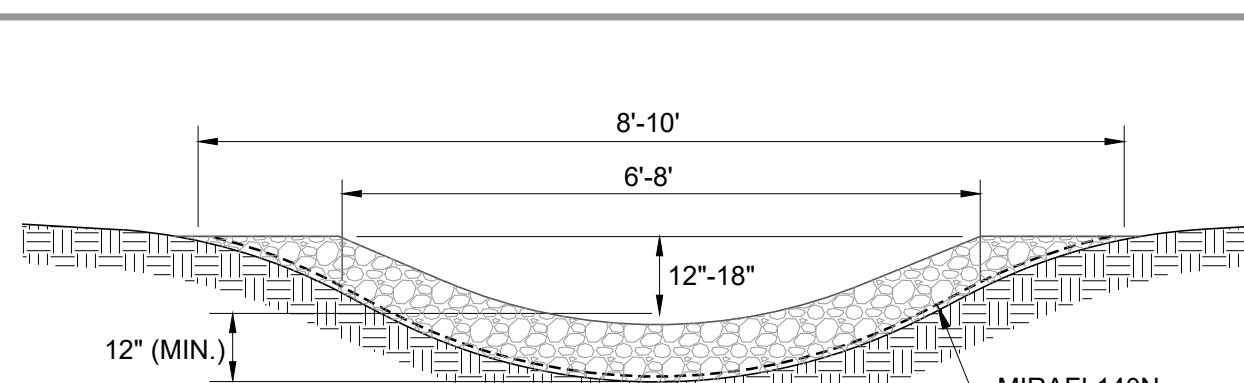
Drawing Title **CIVIL DETAILS**

Drawing No. **CD-3**



Crosswalk Pavement Marking Detail

N.T.S.



NOTES

- STONE-LINED SWALES TO BE USED ON SLOPES $\geq 5\%$. DESIGNED FOR VELOCITIES LESS THAN 10 FEET PER SECOND.
- USE RIP RAP STONE. PROVIDE QUARRY GRADATION TO ENGINEER FOR APPROVAL.
- SIDE SLOPES NOT TO EXCEED 2:1.
- STONE LINING THICKNESS SHALL BE 1.5 X MAX. STONE SIZE PLUS THE THICKNESS OF FILTER OR BEDDING.
- ALL DISTURBED AREAS SHALL BE STABILIZED AND OTHERWISE PROTECTED AGAINST SOIL EROSION.

STONE SWALE CROSS SECTION

N.T.S.

**HAZELETT
STRIP-CASTING
CORPORATION**
COLCHESTER, VT

KREBS & LANSING
CONSULTING ENGINEERS
164 Main Street, Suite 201 P: (802) 878-0375
Colchester, Vermont 05446 www.krebsandlansing.com

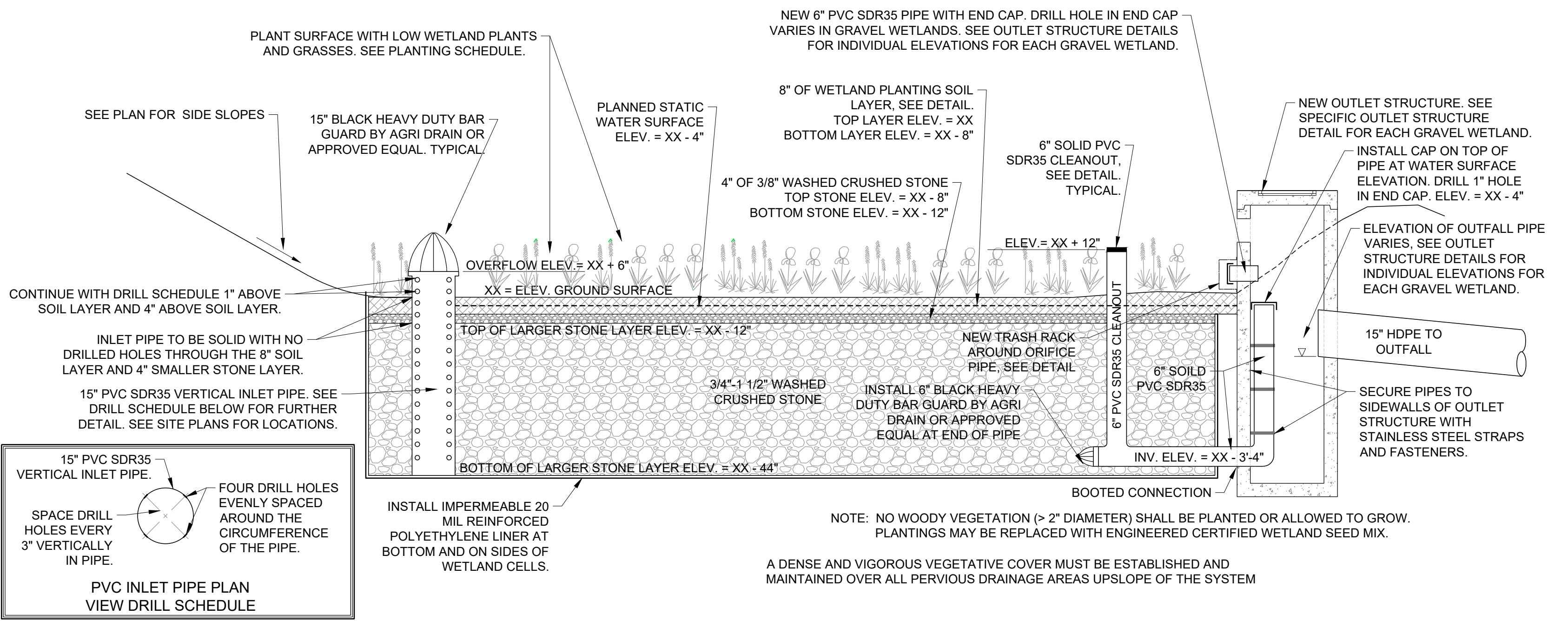
HAZELETT STRIP-CASTING CORPORATION

COLCHESTER, VT

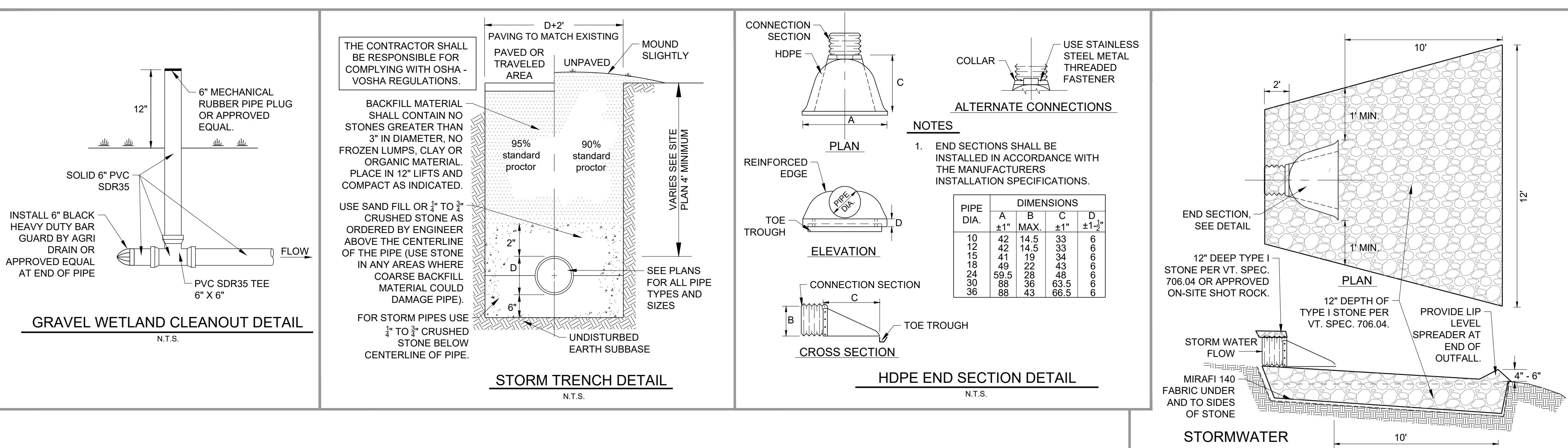


164 Main Street, Suite 201 P: (802) 878-0375
Colchester, Vermont 05446 www.krebsandlansing.com

STAMP:



Gravel Wetland Elevation 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



GRAVEL WETLAND PLANTING SOIL CHARACTERISTICS

PARAMETER	VALUE
PH RANGE	6.0 to 7.0
SOIL (LOW HYDRAULIC CONDUCTIVITY (0.1-0.01 FT/DAY) WITH SOIL TEXTURE CONFORMING TO HYDROLOGIC SOIL GROUP D)	
SIEVE SIZE	PERCENT PASSING BY WEIGHT
NO. 16	100%
NO. 40	85-100%
NO. 60	40-60%
NO. 200	5-10%

GRAVEL WETLAND SOIL SHALL CONFORM TO THE "BIORETENTION AND GRAVEL WETLAND SOIL MEDIA TESTING GUIDANCE" DOCUMENT PREPARED BY THE UNIVERSITY OF VERMONT, SEA GRANT LAKE CHAMPLAIN, AND WATERSHED CONSULTING

THE GRAVEL WETLAND SOIL SHALL BE TESTED IN ACCORDANCE WITH THE PHOSPHORUS TESTING PROCEDURE BELOW: PHOSPHORUS TESTING IS REQUIRED FOR THE UPPER MEDIA LAYER OF THE GRAVEL WETLAND SOIL. FINAL MIXES MUST HAVE A PHOSPHORUS SATURATION RATIO (PSR) LESS THAN OR EQUAL TO 0.10 AND SHALL BE TESTED IN ACCORDANCE WITH THE FOLLOWING PROTOCOL:

1. SAMPLES ARE TO BE AIR DRIED AND SIEVED THROUGH 2MM PRIOR TO TESTING.
2. AIR-DRIED, SIEVED SOIL SAMPLES ARE TO THEN BE EXTRACTED WITH THE MEHLICH-3 SOLUTION (0.2 M CH₃COOH + 0.25 M NH₄NO₃ + 0.015 M HNO₃ + 0.001 M EDTA) BY SHAKING A SOIL-SOLUTION SUSPENSION FOR 5 MINUTES AT 1:10 RATIO (SOIL MASS IN GRAMS: SOLUTION VOLUME IN ML), FOLLOWED BY FILTERING TO REMOVE PARTICLES (PORE SIZE OF 2 UM IS RECOMMENDED, MAX PORE SIZE = 8 UM).
3. EXTRACTS FROM THE MEHLICH-3 PROCEDURE ARE TO BE ANALYZED FOR P, FE, AND AL BY ICP-OES.
4. THE PHOSPHORUS SATURATION RATIO (PSR) IS CALCULATED AS FOLLOWS:

$$\text{PSR} = \frac{\left(\frac{P_{M3}}{31} \right)}{\left(\frac{Fe_{M3}}{56} \right) + \left(\frac{Al_{M3}}{27} \right)}$$

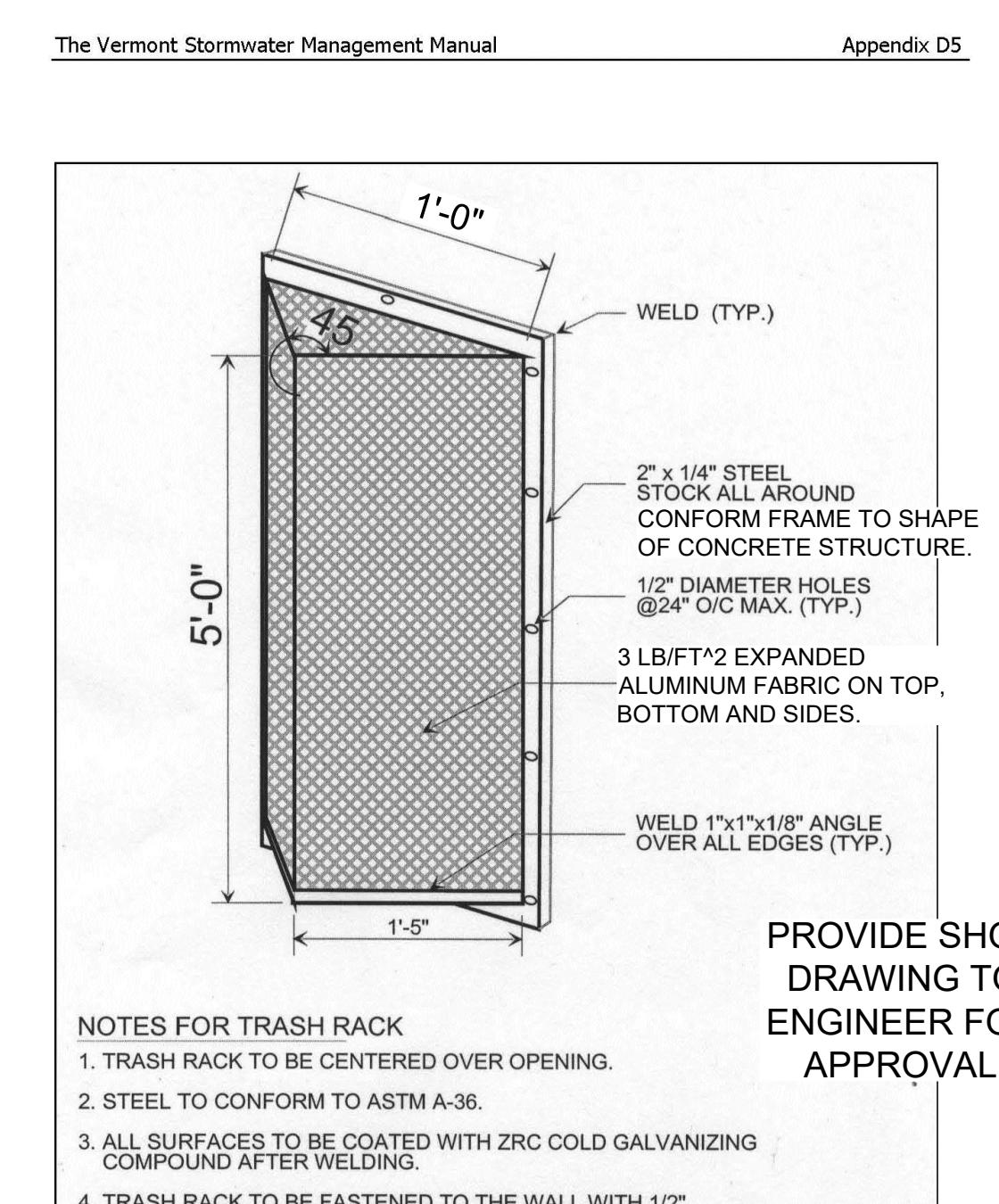
WHERE:
• P_{M3} = MEHLICH-3 P IN MG P PER KG DRY SOIL
• Fe_{M3} = MEHLICH-3 FE IN MG FE PER KG DRY SOIL
• Al_{M3} = MEHLICH-3 AL IN MG AL PER KG DRY SOIL

MEHLICH-3 EXTRactions FOLLOW THE ABOVE PROTOCOL. OTHER SOIL EXTRactions, OR EXTRactions USED TO QUANTIFY TOTAL ELEMENTS, ARE NOT ACCEPTABLE FOR THIS REQUIREMENT.

IN CASES WHERE INGREDIENT MIXING HAS NOT YET OCCURRED, INGREDIENTS CAN BE MIXED AT THE INTENDED VOLUMETRIC PROPORTIONS IN A SMALL BATCH (AT LEAST ONE QUART IN VOLUME) FOR TESTING PURPOSES. IF THIS SMALL BATCH TESTING APPROACH IS TAKEN, THE FINAL MATERIAL TO BE USED DURING INSTALLATION MUST BE RETESTED TO CONFIRM ACCEPTABLE PSR.

SOIL SAMPLES FOR P, FE, AND AL ANALYSIS VIA MEHLICH-3 EXTRACTION CAN BE SUBMITTED TO THE AGRICULTURAL AND ENVIRONMENTAL TESTING LABORATORY (AETL) LOCATED AT UVM. PLAN TO ALLOW 3-4 WEEKS FOR ANALYSIS.

HOW TO TAKE A SOIL SAMPLE [GO.UVM.EDU/SOIL-SAMPLING]
SUBMITTING A SOIL SAMPLE [GO.UVM.EDU/UVM-SOIL-LAB]



CIVIL DETAILS

Drawing No.

CD-6

Figure D.1. Trash Rack Protection for Low Flow Orifice

172

TRASH RACK DETAIL
N.T.S.

22195\DWGS\BVR-picnic_details.dwg

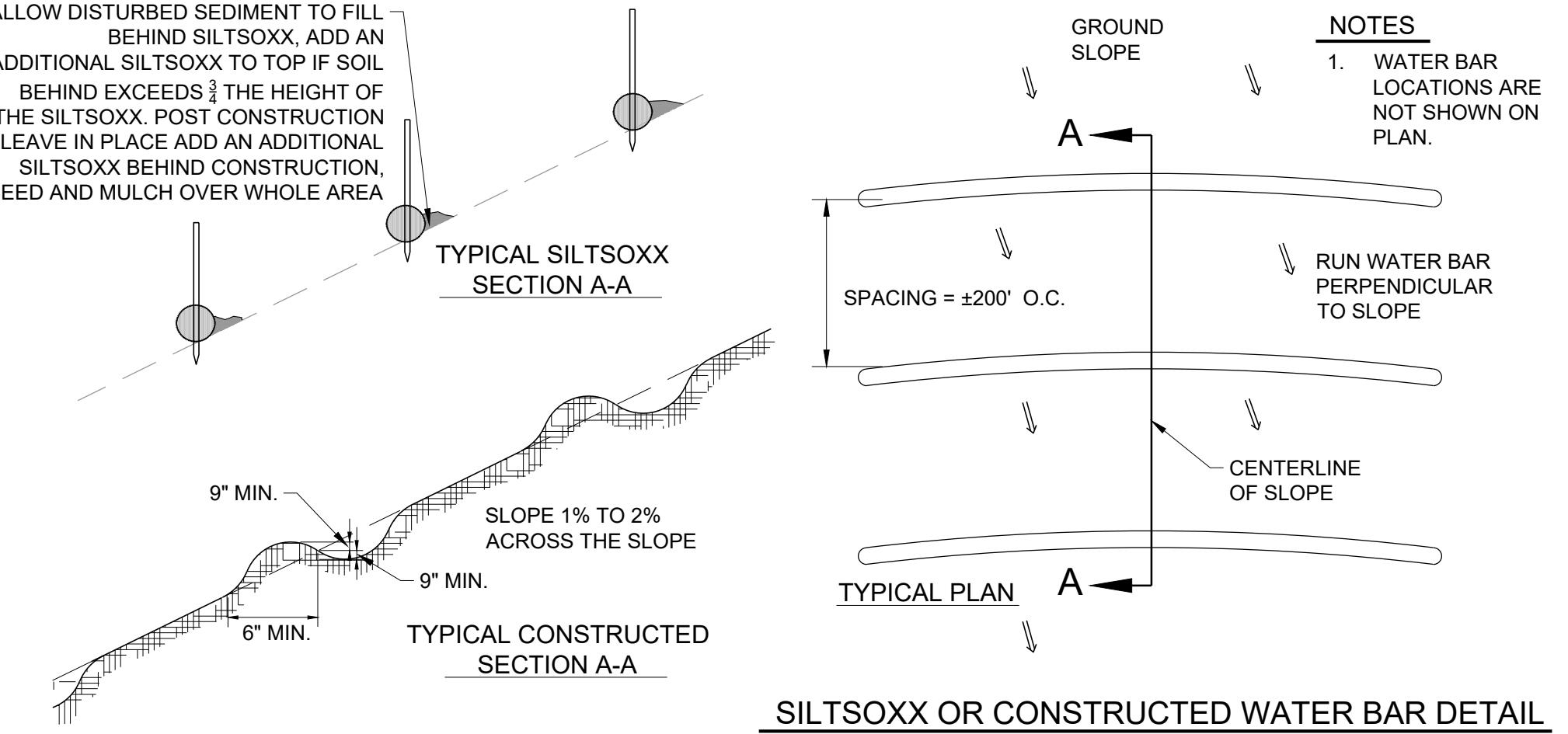
CONSTRUCTION STORMWATER DISCHARGE PERMIT INFORMATION

1. THIS PROJECT PROPOSES GREATER THAN 1 ACRE OF SOIL DISTURBANCE ON SITE. THE PROJECT WILL FOLLOW THIS CONSTRUCTION GENERAL PERMIT 3-9020.
2. 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.
3. THE MAXIMUM AREA OF EARTH DISTURBANCE AT ANY ONE TIME SHALL NOT EXCEED 5 ACRES.
4. 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).
5. PROJECT DOES PROPOSE WINTER CONSTRUCTION.
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.
7. 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.
8. APPROPRIATE SEED MIX SHALL BE APPLIED TO DESIGNATED AREAS PER THIS EPSC PLAN AND SEED SPECIFICATIONS.

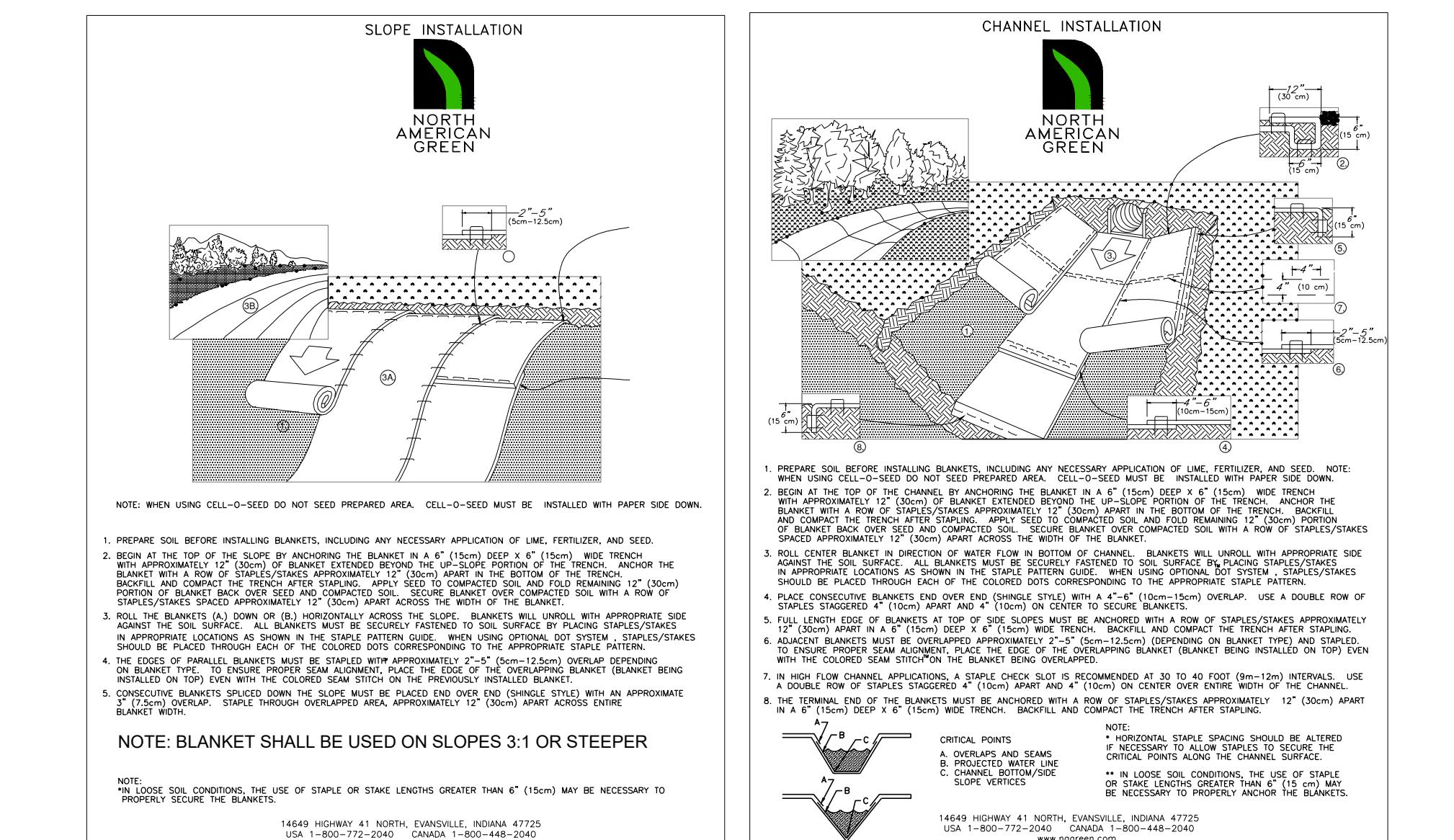
TEMPORARY & FINAL STABILIZATION NOTES

1. 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 SHALL 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).
2. THE MAXIMUM AREA OF EARTH DISTURBANCE AT ANY ONE TIME SHALL NOT EXCEED 5 ACRES.
3. 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).
4. APPROPRIATE SEED MIX SHALL BE APPLIED TO DESIGNATED AREAS PER THIS EPSC PLAN AND SEED SPECIFICATIONS (SEE DETAILS). FOR AN AREA TO BE STABILIZED BY VEGETATED COVER, SEEDING MUST BE COMPLETED BY SEPTEMBER 15.
5. AREAS TO BE STABILIZED FOR WINTER THAT DO NOT HAVE ESTABLISHED VEGETATION 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.
7. 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 CONSTRUCTION SITE, UNDER CONSTRUCTION, A PERIMETER SEDIMENT CONTROL SYSTEM (SUCH AS A 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 AUTUMN (E.G., SEPTEMBER). SEED PLANTING MAY BE CONDUCTED IF ADEQUATE RAINFALL 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 IN 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.
 - C. 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



SILTSOXX OR CONSTRUCTED WATER BAR DETAIL
N.T.S.



NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47725
USA 1-800-772-2540 CANADA 1-800-448-2040
www.nagreen.com

EROSION CONTROL BLANKET

NORTH AMERICAN GREEN S75BN

MATERIAL SPECIFICATIONS:

- EROSION CONTROL BLANKET SHALL BE A MACHINE-PRODUCED MAT OF 100% AGRICULTURAL STRAW.
- THE BLANKET SHALL BE OF CONSISTENT THICKNESS WITH THE STRAW EVENLY DISTRIBUTED OVER THE ENTIRE AREA OF THE MAT. THE BLANKET SHALL BE COVERED ON THE TOP SIDE WITH 100% BIODEGRADABLE WOVEN NATURAL ORGANIC FIBER NETTING HAVING AN APPROXIMATE 1/2" X 1" MESH AND BE SEWN TOGETHER WITH BIODEGRADABLE THREAD.
- STRAW EROSION CONTROL BLANKET SHALL BE S75BN AS MANUFACTURED BY NORTH AMERICAN GREEN, INC. (812-867-6632) OR EQUIVALENT. EROSION CONTROL BLANKET SHALL HAVE THE FOLLOWING PROPERTIES:

MATERIAL CONTENT:

- STRAW: 100% 0.50 lbs/sq.yd.(0.27 kg/m²)
- NETTING: ONE SIDE ONLY, LENO WOVEN 100% BIODEGRADABLE NATURAL ORGANIC FIBER (APPROX. WEIGHT 9.3 lbs/100 sq. ft.)
- THREAD: BIODEGRADABLE

PHYSICAL SPECIFICATIONS (ROLL):

- WIDTH: 6.67 feet (2.03 m)
- LENGTH: 108 feet (32.92 m)
- WEIGHT: 46.4 lbs. ± 10% (21.05 kg)
- AREA: 80 sq. yd. (50 m²)

RELEVANT DEFINITIONS AS DEFINED BY VT DEC (GP 3-9020, APPENDIX C)

'COMMENCEMENT OF CONSTRUCTION ACTIVITIES'

- THE INITIAL DISTURBANCE OF SOILS ASSOCIATED WITH CLEARING, GRADING, OR EXCAVATING ACTIVITIES OR OTHER CONSTRUCTION-RELATED ACTIVITIES (E.G., STOCKPILING OF FILL MATERIAL).

'CONSTRUCTION AND CONSTRUCTION-RELATED ACTIVITIES'

- ALL CLEARING, GRADING, EXCAVATION, AND STOCKPILING ACTIVITIES THAT WILL RESULT IN THE DISTURBANCE OF ONE OR MORE ACRE OF LAND AREA. EARTH DISTURBANCE THAT IS A NORMAL PART OF THE LONG-TERM USE OR MAINTENANCE OF A PROPERTY IS NOT COVERED BY [THE PERMIT] (E.G., MINING OPERATIONS, DIRT ROAD REGRADING, ROUTINE ROAD REPAIR).

'CONSTRUCTION SITE'

- THE LAND OR WATER AREA WHERE ANY FACILITY OR ACTIVITY IS PHYSICALLY LOCATED OR CONDUCTED, INCLUDING ADJACENT LAND USED IN CONNECTION WITH THE FACILITY OR ACTIVITY OR THE AREA OF EARTH DISTURBANCE DIRECTLY ASSOCIATED WITH THE PERMITTED ACTIVITY.

'DISTURBED EARTH'

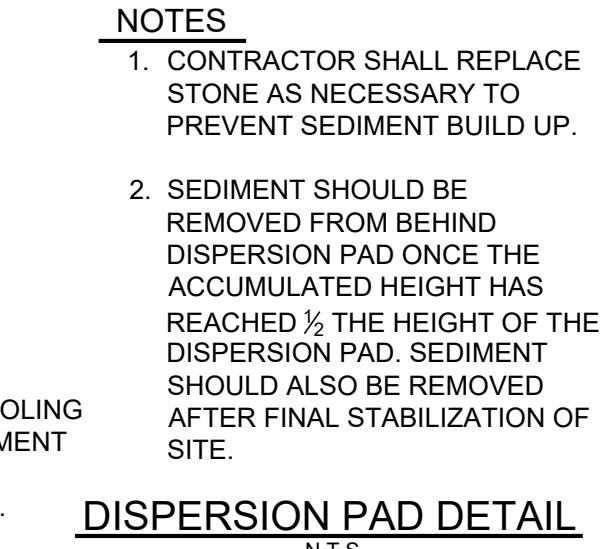
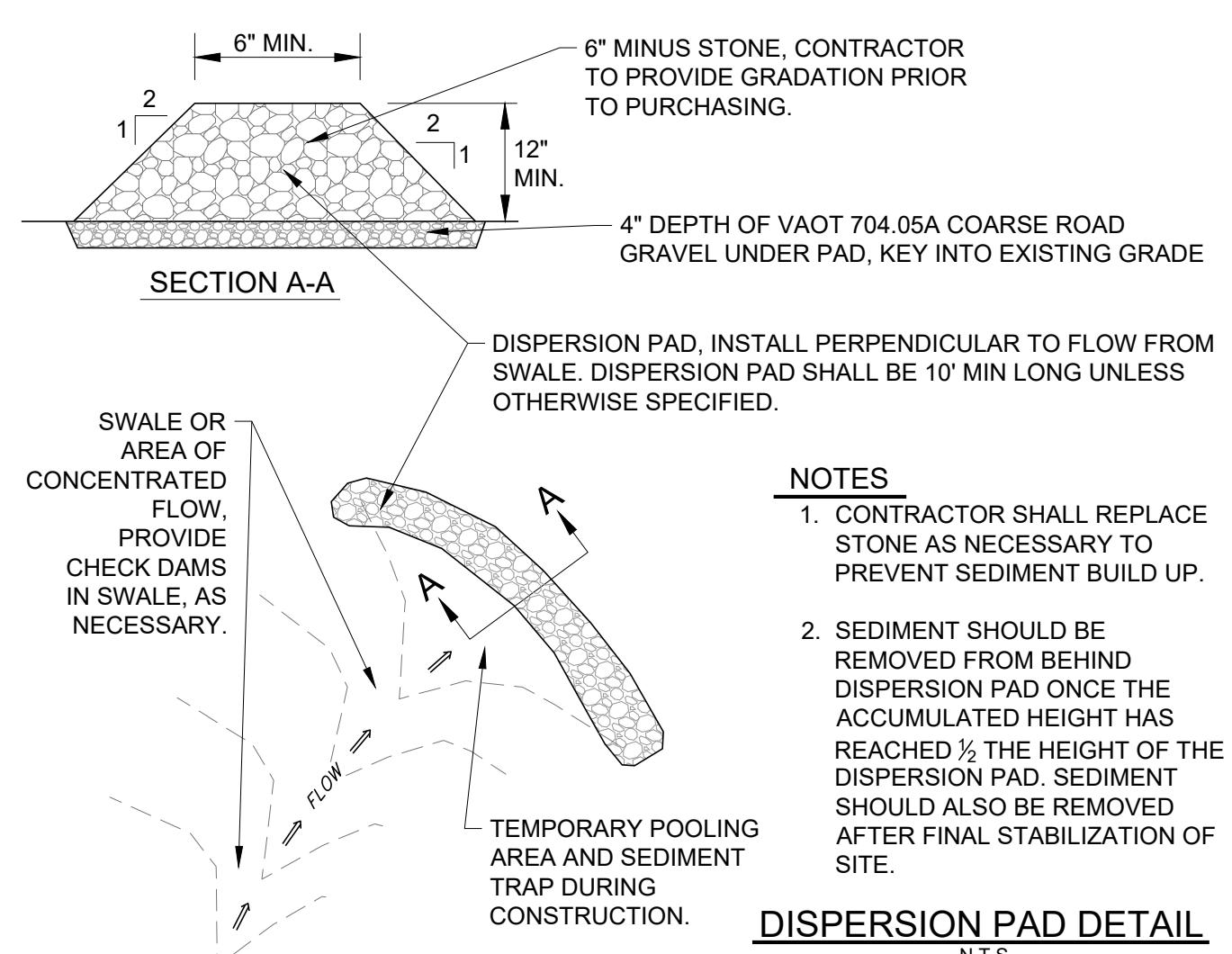
- ANY SOIL ON A CONSTRUCTION SITE OR ASSOCIATED SUPPORT ACTIVITIES (E.G., STAGING AREA, BORROW AREA, DISPOSAL SITE FOR EXCESS FILL) THAT IS EXPOSED TO EROSION EFFECTS OF WIND, RAIN, OR RUNOFF DUE TO CONSTRUCTION OR CONSTRUCTION RELATED ACTIVITIES.

'FINAL (OR PERMANENT) STABILIZATION'

- THE ACTIVITIES CONDUCTED ON THE SITE HAVE BEEN COMPLETED AND EITHER OF THE TWO FOLLOWING CRITERIA ARE MET:
 1. A UNIFORM (E.G., EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) 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 THE AUTHORITY TO 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



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 OPEN AND FREE OF SNOW AND ICE DAMS.

INSTALL SILT FENCE - SILT FENCE SHALL BE INSTALLED ON THE DOWNSHILL 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, FIELTREX 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 ENTRANCES ABILITY TO HOLD SEDIMENTS ON SITE. WINTER STABILIZATION OF DISTURBED AREAS NOT INVOLVED IN WINTER CONSTRUCTION SHALL BE AT LEAST 12" INCHES THICK AND STABILIZED BY OCTOBER 15TH. ALL DISTURBED 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 EROSION 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 FOR EROSION AND SEDIMENTATION. IF THE CONTRACTOR OR ON-SITE PLAN COORDINATOR NOTICED 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.

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

HAZELETT STRIP-CASTING CORPORATION

COLCHESTER, VT

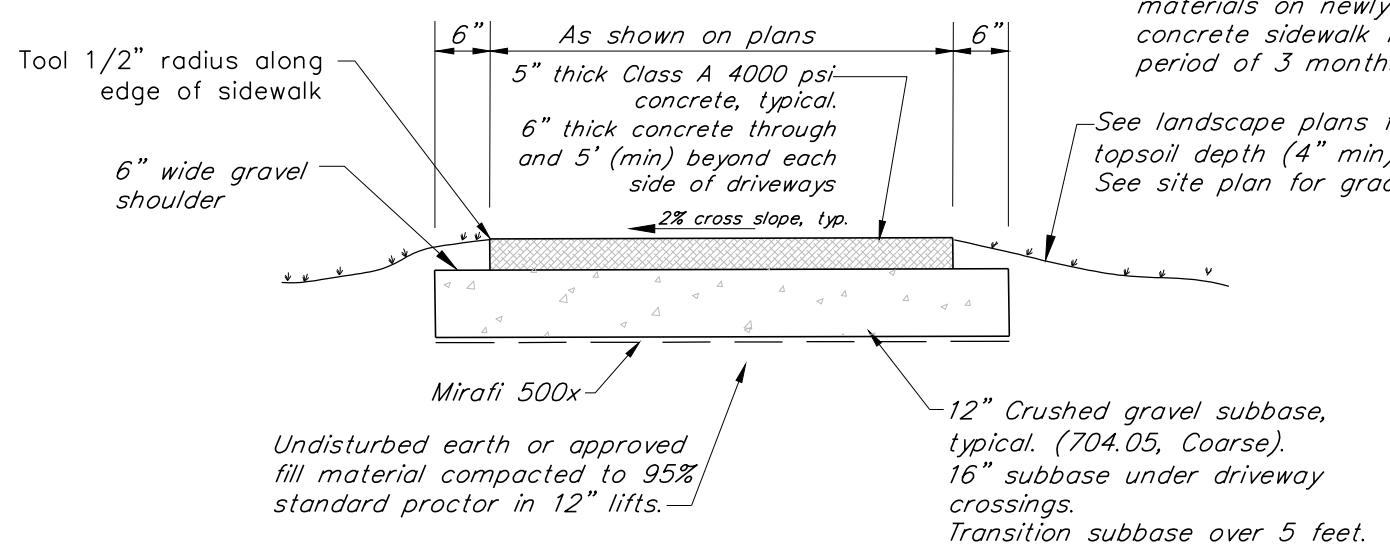


164 Main Street, Suite 201 P: (802) 878-0375
Colchester, Vermont 05446 www.krebsandlansing.com

STAMP:

Concrete Notes

- All concrete used in the construction of concrete shall be made with Portland cement. The concrete shall meet section 541 of the State of Vermont Standard Specification for Construction for Class A concrete and have 28 day compressive strength of 4,000 psi.
- Broom finish concrete
- Construction joints shall be spaced max. 20' in all directions. Joint filler shall be resilient non-extruding cellular fiber joint, uniformly saturated with asphalt, offering a minimum of 70% recovery after compression.
- Score control joints 1-1/2" depth at intervals equal to width of sidewalk. All joints shall be tooled.



New Concrete Sidewalk Detail
(For Concrete Walks 6ft. Wide or Less)

N.T.S.

Concrete Slab

Note: Owner or Contractor is not allowed to place deicing materials on newly poured concrete sidewalk for a period of 6 months.

All concrete used in the construction of Multi-Use Concrete shall be made with Portland cement. The concrete shall meet section 541 of the State of Vermont Standard Specifications for Construction, have 28 day compressive strength of 5,000 psi, and meet the following mix design.

Max. water-cement ratio (lb./lb.) 0.44
Min. cement factor (lbs/C.Y.) 705
Entrained air content (%) 5 - 7
Slump (inches, before adding HRWR) 2 - 4

Use air entrained agent conforming to ASTM C260 with 5-7% total air. Use high range water reducing agent conforming to ASTM C494 in all concrete.

Refer to Concrete Thickened Edge Detail for areas identified on Site Plan

Concrete block support (per CSI Manual of Standard Practice) (Typ.)

See landscape plans for topsoil depth (4" min). See site plan for grading

Mirafi 500x, or approved equal.

Undisturbed earth or approved fill material compacted to 95% standard proctor in 12" lifts.

Transition subbase over 5 feet.

Refer to Concrete Construction Joint/Control Joint Detail.

N.T.S.

Concrete Slab

Broom finish concrete

Construction joints shall be spaced max. 24' in all directions. See New Concrete Construction Joint Detail.

See Site Plan for construction joint layout.

All concrete used in the construction of Multi-Use Concrete shall be made with Portland cement. The concrete shall meet section 541 of the State of Vermont Standard Specifications for Construction, have 28 day compressive strength of 5,000 psi, and meet the following mix design.

Concrete may 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.

Concrete construction and curing shall conform to section 618.03 of the current VACOT Standard Specifications for Construction.

Concrete shall be installed in alternating pours at construction joints. Continuous pours through construction joints is not allowed. Refer to Concrete Construction Joint/Control Joint Detail.

Concrete shall be installed in alternating pours at construction joints. Continuous pours through construction joints is not allowed. Refer to Concrete Construction Joint/Control Joint Detail.

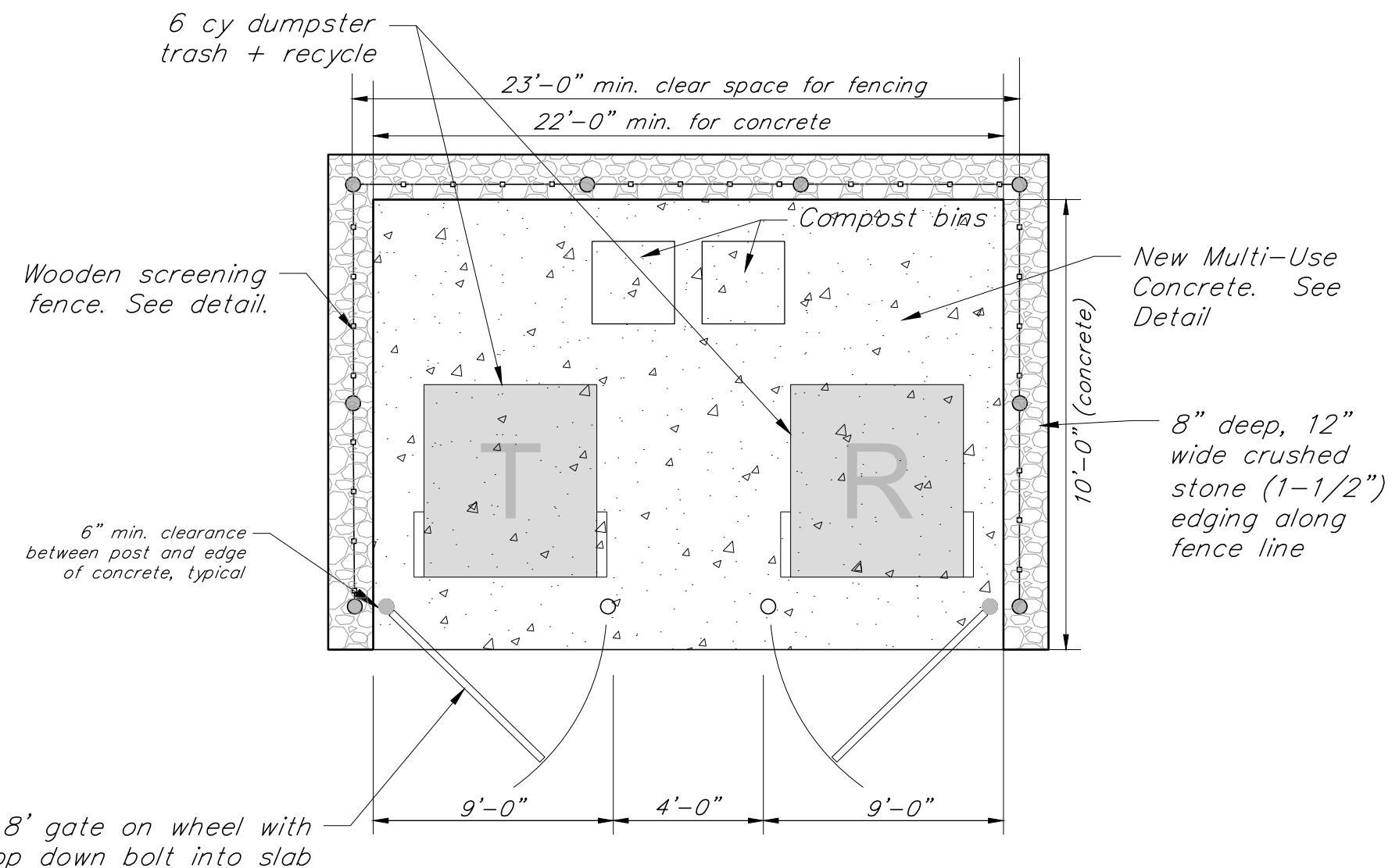
Provide expansion joint and sealer where concrete is against curb or other concrete foundation.

Hold reinforcing back 3" from all sides.

21" thick crushed gravel subbase (704.05, coarse). Subbase shall be from natural gravels and crushed quarried rock only. Blended concrete or recycled asphalt is not allowed.

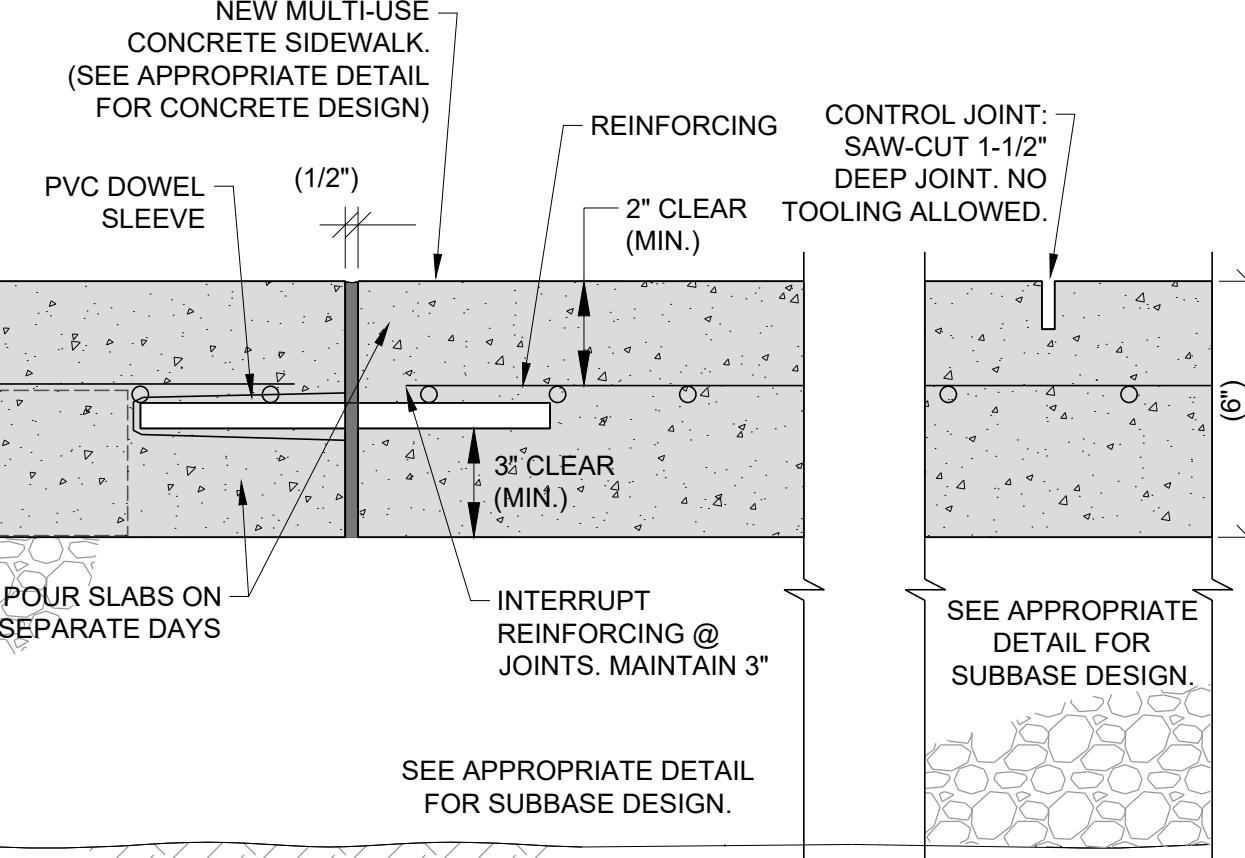
Refer to Concrete Construction Joint/Control Joint Detail.

N.T.S.



Trash Enclosure Detail

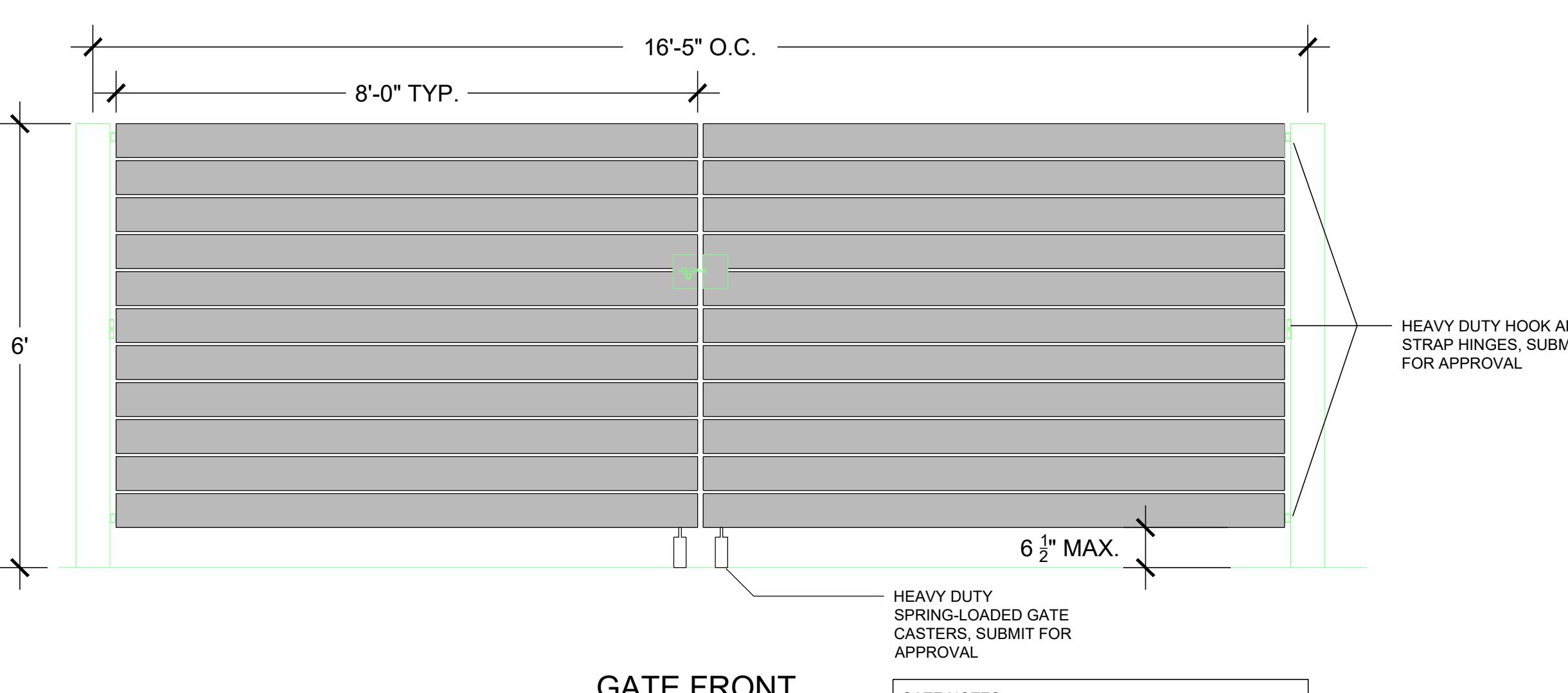
N.T.S.



CONTRACTOR TO USE THIS PINNING DETAIL TO PIN NEW CONCRETE TO NEW CONCRETE (WALK TO WALK, WALK TO RETAINING WALLS, STAIRS, ETC).

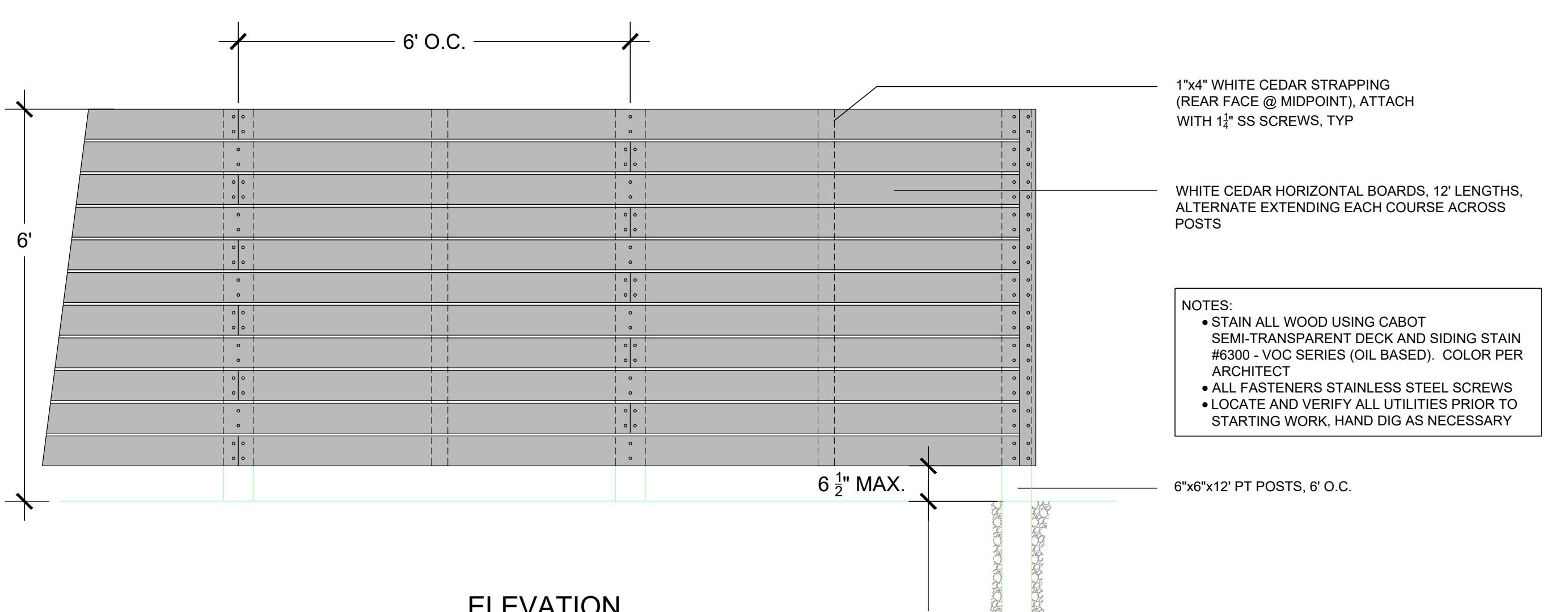
NEW CONCRETE CONSTRUCTION JOINT/CONTROL JOINT DETAIL

N.T.S.



GATE FRONT

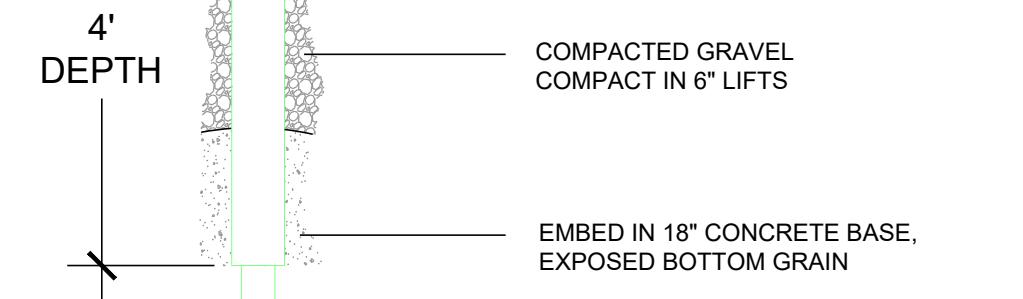
HEAVY DUTY SPRING-LOADED GATE HINGES AND LATCHING MECHANISM, MATCH HORIZONTAL BOARD SPACING OF ADJACENT PANELS, PROVIDE HEAVY-DUTY SPRING-LOADED GATE CASTERS, SUBMIT FOR APPROVAL, ALL FASTENERS STAINLESS STEEL SCREWS, LOCATE AND VERIFY ALL UTILITIES PRIOR TO STARTING WORK, HAND DIG AS NECESSARY



ELEVATION

Wooden Screening Fence

N.T.S.



Project:
THE 'H'
AT
MALETT'S BAY

180 & 166 W. Lakeshore Drive
Colchester, Vermont

Project No.	23314	
Scale	N.T.S.	
Drawn by	SWH	
Checked by		
Date	10/03/25	
Revisions		
No.	Date	Description

Drawing Title

CIVIL DETAILS

Drawing No.

CD-10

FINAL 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 is a main building with a 40-seat restaurant at the main level, event space, and spa facilities for guests. A new bathhouse will be constructed as well to enable beach users to use the facilities without having to go back to 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 8" water line will be tapped from the existing main on West Lakeshore Drive and extended to the property so that a new hydrant can be installed for fire protection. From the hydrant, a 4" line will be 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. The proposed bathhouse building will be accessed via key code available only to employees and guests of the Inn.

In addition to the Inn use, the project provides water and wastewater services for the existing marina use at the site. Bathrooms will be provided at the proposed Support Building located on the opposite side of West Lakeshore Drive. These bathrooms will have a separate key code, made available to marina slip/mooring holders. The sewer connection will be via gravity to the stub installed as part of the Mallets Bay Sewer project. A new manhole will provide a future connection point for the other existing uses at 135 West Lakeshore Drive. We have presented a worksheet showing that the flows associated with the marina use fit within the previously permitted flows at 135 West Lakeshore Drive.

Section 9.05-I Site Preservation and Landscaping

The project proposes grading and site improvements for 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 screen and surround the north foundations and landscaped courtyards between buildings. Between buildings, the proposed dense, mixed plantings mimic the way plants grow together naturally, fomenting a 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 invasive black locust trees that currently exist. A survey of the existing trees with greater than 1" caliper has been conducted and included with the application.

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 west end of the site, and the exit will be on the east end. The entrance curb cut will align with an existing curb cut 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. A drop off lane is proposed in front of the main building. These will be for check-in and drop off purposes, with the main parking areas being located across the road.

Access to the marina area will be maintained via a reconfigured driveway. This driveway will be 2-way and have room for a turnaround, and 4 parking spaces. The existing driveway to the recreation area to the east 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 slope 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.

In addition to the interior sidewalks proposed, the project will provide an easement for a future sidewalk/recreation path easement on the opposite side of West Lakeshore Drive. The easement has been sized to accommodate a recreation path, as well as a possible stormwater management bioswale.

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 Vermont 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 an existing municipal road.

Section 9.05-S Aesthetics

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

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.



Project Overview: "The H"

The vision for "The H" is to establish a unique hospitality destination that attracts visitors to Mallett's 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:**
 - Five cottage-style buildings, housing a total of **20 guest units**, ranging from studio units and one- and two-bedroom suites to a single freestanding cottage.
- **Main Building (Project Centerpiece):**
 - A **40-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 as well as flex space for guests.
 - **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**.

Operational Overview

- **Restaurant:**
 - Restaurant staffing varies by shift and level of service. It is estimated that the restaurant employee count for the H will be **6-12 employees** dependent on shift and volume. Breakfast/Lunch periods will be at the lower end of this volume with Dinner periods being at the higher end.

Estimated breakdown:

Breakfast – 1 cook, 1 server, 1 expo

Lunch – 2 cooks, 4 servers, 1 expo, 1 bartender

Dinner – 3 cooks, 5-6 servers, 1 expo, 1 bartender, 1 host

- **Inn:**

- The Inn operation will have one **fulltime hospitality director** who will manage booking and the majority of check in and check out. Late check in and check out will be managed by a part time hospitality staff member and/or the restaurant host (common with Inn operations). This coverage will provide a minimum of **12 hours per day of onsite employee coverage** to serve Inn clients with adequate staffing for extended coverage beyond 12 hours when required.
- Maintenance staffing will vary by season. **Summer** will require **full time maintenance staffing** for guest concerns, waterfront operations and general maintenance. Winter will be less intensive and may be a structure where the H contracts with Hazelett Stripcasting for plowing and Maintenance services. This will largely depend on winter volume.
- Housekeeping and spa services will be a third party contract.

*Events will be managed on a case by case basis utilizing restaurant and management staff as needed to serve the needs of any events being held onsite.

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.

MEMORANDUM

TO: Benjamin Avery

FROM: Christopher D. Roy, Esq.
Downs Rachlin Martin, PLLC

DATE: October 3, 2025

RE: The H Project's Compliance with Town Definition of "Inn"

You asked me to analyze the question of whether Hazelett's proposed "The H" project (the "Project") satisfies the definition of "inn" set forth in the Development Regulations (the "Regulations") of the Town of Colchester (the "Town"). For the following reasons, I conclude that it does.

Description of the Project

In its Decision, the Town's Development Review Board (the "DRB") described the Project's design and use as follows:

The proposed project includes a 20-room Inn. The applicant has included 5 cottage buildings (Sheets A6, A7, and A8). Cottage buildings 1, 2, and 4 will have a two-bedroom suite on the upper level, 2 studio units on the ground floor, and 2 studio units on lower level. Cottage 3 will have 2 2-bedroom suites, 1 studio unit, and a 1-bedroom unit (with kitchen). Cottage 5 will be a standalone 2-bedroom unit. The total number of rooms for rent will be 20, which the Board finds to comply with this definition. In reviewing the floorplans, the 1-bedroom unit in Cottage 3 is the only unit with a kitchen, although a kitchen is labeled in Cottage 5 (10% of rooms vs. maximum 40%). The Board finds that only up to 10% of the rooms for rent contained typical apartment furnishings, and the rooms did not appear to be able to support individual occupancy similar to that of a dwelling unit. The main building includes a reception desk on the ground floor, and at least 12 hours of on-site registration will be available. A restaurant will be available to the guests, as well as a massage area and fitness room.

DRB Decision at 38. In addition, "[t]he proposed project includes a main building (Sheet A4) that includes three seminar rooms on the ground floor, as well as a board room and kitchenette on the upper level." *Id.*

Compliance with the Definition of "Inn"

One question to be determined by the DRB as part of its review of the Project is whether it satisfies the definition of "inn" for the purposes of allowed uses under the Regulations. An "inn" is allowed as a conditional use within the Town's Lakeshore One and Shoreland Overlay districts. As noted above, in its preliminary approval decision, the DRB concluded that the

Project does satisfy the definition. Upon review of the Project and the relevant provisions of the Regulations, I agree with the DRB's analysis.

Under the Regulations, an “inn” use for zoning purposes is defined as follows:

INN: An establishment containing at least 6 rooms, but no more than 20 (twenty) rooms for living or sleeping accommodations primarily for transient occupancy for compensation available to the general public. No more than 40% of the rooms may contain typical apartment type furnishings such as a kitchen, bath, living space and separate bedroom. Units must be available on a daily, weekly and monthly basis and shall not be rented to the same occupant for more than thirty (30) days in any three hundred sixty-five (365) day period. An inn shall offer services typical to the use, including at least 12 hours per day of on-site registration and similar hosting services, as well as housekeeping. Inns shall provide for at least one indoor common area available to all guests and of sufficient size, attraction, and usability, such as a dining area, lounge, game room or library. Permitted accessory (and clearly incidental) uses include restaurants or other public dining facility, bars or lounges, meeting rooms, pools, and recreational facilities customary to such use.

A review of each element of this provision demonstrates that the Project satisfies the definition of “inn” set forth in the Regulations.

- *“An establishment containing at least 6 rooms, but no more than 20 (twenty) rooms for living or sleeping accommodations primarily for transient occupancy for compensation available to the general public.”* Cottages 1, 2 and 4 of the Project each include one two-bedroom and four studio rooms for a total of fifteen rooms. Cottage 3 includes two two-bedroom, one one-bedroom, and one studio room for a total of four rooms. Finally, Cottage 5 includes a single room with multiple bedrooms. Thus, the Project includes a total of twenty rooms.¹
- *“No more than 40% of the rooms may contain typical apartment type furnishings such as a kitchen, bath, living space and separate bedroom.”* Since the Project includes 20 rooms, 40% of that number equals 8 rooms. Presently, only a single room in Cottage 5 expressly includes an apartment-like kitchen area. Even if one considers the five two-bedroom units and single one-bedroom unit as having “typical apartment type furnishings” due to the presence of separate bedrooms, that would add an additional six rooms with “typical apartment type furnishings” and still remain within the definitional limit of eight units with “typical apartment type furnishings.”

¹ The term “room” as used in the definition of “inn” does not refer to discrete physical rooms *per se*. Instead, the Regulations expressly contemplate “room” as referring more broadly to a single “unit” within the inn that encompasses multiple rooms such as “a kitchen, bath, living space and separate bedroom.”

- “*Units must be available on a daily, weekly and monthly basis and shall not be rented to the same occupant for more than thirty (30) days in any three hundred sixty-five (365) day period.*” The Project satisfies this prerequisite.
- “*An inn shall offer services typical to the use, including at least 12 hours per day of on-site registration and similar hosting services, as well as housekeeping.*” The Project satisfies this prerequisite.
- “*Inns shall provide for at least one indoor common area available to all guests and of sufficient size, attraction, and usability, such as a dining area, lounge, game room or library.*” The Project’s board room, seminar rooms and restaurant satisfy this prerequisite.
- “*Permitted accessory (and clearly incidental) uses include restaurants or other public dining facility, bars or lounges, meeting rooms, pools, and recreational facilities customary to such use.*” The Project’s proposed accessory uses satisfy this prerequisite.

In reviewing and interpreting zoning provisions, the Vermont Supreme Court recently instructed as follows in a case involving the interpretation of uses under a zoning bylaw:

The goal in interpreting a zoning ordinance is to effectuate the intent of the drafters by examining the plain language of the ordinance at issue and the “whole of the ordinance.” *In re Tyler Self-Storage Unit Permits*, 2011 VT 66, ¶ 13, 190 Vt. 132, 27 A.3d 1071 (quotation omitted). We are bound by the plain language of the bylaws unless the language “leads to an irrational result.” *In re Wright & Boester Conditional Use Application*, 2021 VT 80, ¶ 16, 215 Vt. 593, 267 A.3d 659 (quotation omitted). ***Any uncertainty must be resolved in favor of the property owner because “zoning ordinances limit common law property rights.”*** *In re Bjerke Zoning Permit Denial*, 2014 VT 13, ¶ 22, 195 Vt. 586, 93 A.3d 82.

In re Pederzani Admin. Appeal, 2024 VT 82, ¶ 7 (emphasis added).

In considering whether the Project is properly considered an “inn,” it is helpful to look at the definitions of other uses to determine whether it would potentially constitute some other use. First, the Project cannot fairly be characterized as a “multi-unit dwelling.” The Regulations define “dwelling units” as “[o]ne or more rooms, designed, occupied or intended for occupancy as separate living quarters, with cooking, sleeping and sanitary facilities provided within the dwelling unit for the exclusive use of a single household.” As noted above, up to 40% of the Project’s rooms are allowed to have “typical apartment type furnishings.” The Project satisfies that limit, with the remaining rooms lacking the necessary elements of a stand-alone dwelling unit for the exclusive use of a single household. Thus, the Project is not a “multi-unit dwelling.”

On the other hand, “hotels and motels” are not an allowed use within the Lakeshore One and Shoreland Overlay districts. The Regulations define a “hotel” use as follows:

HOTEL: An establishment in which (a) living or sleeping accommodations are primarily for transient occupancy on a daily basis for compensation available to the general public, ***and (b) one or more common entrances serve all such living or sleeping units.*** Hotel services may include 24 hour desk service, housekeeping, or other similar services. Permitted accessory uses include restaurants or other public dining facility, bars or lounges, public banquet halls, ballrooms, meeting rooms, pools, and recreational facilities customary to such use.

(Emphasis added). The Project's cottage-based layout does not conform with this definition as there are not one or more common entrances serving "all such living or sleeping units." Therefore, the Project is not a "hotel."

The Regulations, in turn, define a "motel" use as follows:

An establishment which (A) contains six or more rooms containing living and sleeping accommodations used primarily for transient occupancy to the general public on a daily basis for compensation, with the exception of the manager's or caretaker's unit, and (B) ***has convenient access to parking spaces for the use of the unit's occupants by way of separate entrances or groups of separate entrances, outside the main building, into the individual units.***

(Emphasis added). Part B of this provision references the classic defining feature of a traditional motel. Again, the Project's layout and design do not incorporate the classic motel configuration with single rooms having an exterior door providing convenient access to a parking space directly in front of the room.

If one views the Regulations as a single harmonious whole, with any uncertainty being resolved in favor of the landowner, one cannot reasonably conclude that the Project entails either a multi-unit dwelling, hotel or motel use. Instead, the use definition that applies most directly to the Project is the definition of an "inn." For the reasons set forth above, the Project satisfies each prerequisite of that definition. Therefore, the DRB was correct in concluding that the Project falls within the definition of "inn" under the Regulations.

HAZELETT INN (THE "H") WASTEWATER FLOWS WORKSHEET

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

(Per WW-C-0671 for a 166 seat restaurant serving 2 meals/day))

PROPOSED PROJECT

Dining

- 40 seats x 27 gpd (2 meals/day) = 1080 gpd

Meeting Space

- 60 participants x 4 gpd/participant = 240 gpd

Spa

- 1 massage therapist x 32 gpd = 32 gpd
- Only guests will use the spa, therefore no additional flows for users.

Guest Rooms

- **Main Building**
Staff Manager/Owner Bedroom = 140 gpd
- **Cottages**
54 TOTAL sleeping spaces x 50 gpd = 2700 gpd

Meals Served Only to Guests

- 54 sleeping spaces x 5 gpd = 270 gpd

TOTAL PROPOSED DESIGN FLOW = 4,462 gpd

**HAZELETT FACTORY (135 WEST LAKESHORE DRIVE) AND MARINA WASTEWATER FLOWS
WORKSHEET**

10-03-25

EXISTING ALLOCATION = 3,000 GALLONS/DAY (gpd)

(Per WW-C-0475 FOR 148 employees at 13.5 gpd + 1,002 reserve capacity)

PROPOSED FLOWS (Using current rules)

EXISTING EMPLOYEES (“Office, Factory, Welcome Centeer, and Place of Employment, with showers”)

- 75 employees x 20 gpd = 1500 gpd

EXISTING EMPLOYEES (“Office, Factory, Welcome Center, and Place of Employment, without showers”)

- 75 employees x 15 gpd = 1125 gpd

EXISTING MARINA (with no showers)

- 60 slips,moorings x 4 gpd/slip,mooring = 240 gpd

TOTAL PROPOSED DESIGN FLOW = 2,865 gpd



To: Greenfield Growth Consulting
c/o Benjamin Avery

Date: ~~January 21, 2025~~
~~Revised May 5, 2025~~
~~Revised June 11, 2025~~
~~Revised Oct. 6, 2025~~
Revised Oct. 23, 2025

Memorandum

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 40-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.

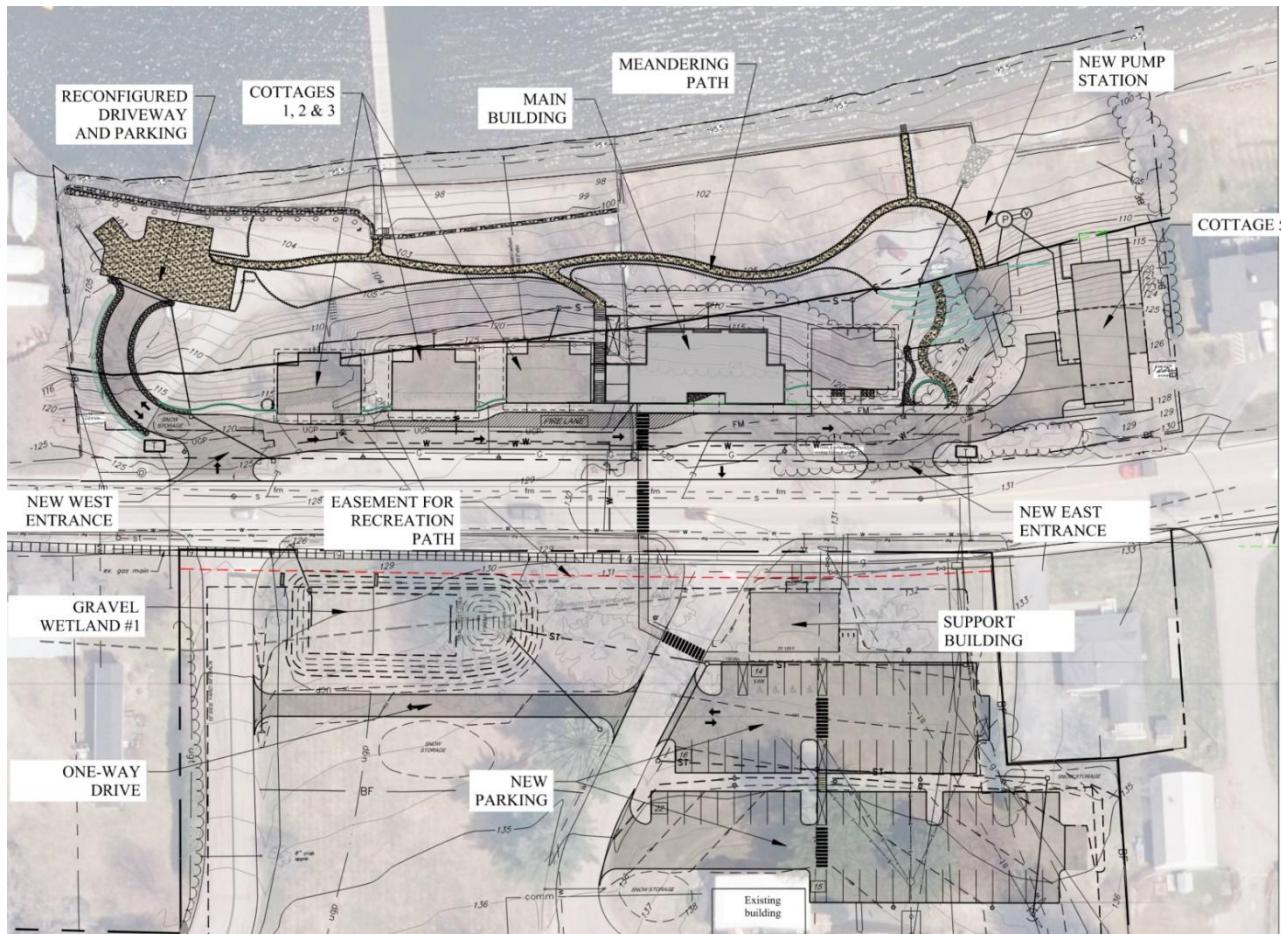
Access and Circulation

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 proposed entrance, located at the west end of the site, will align with the west curb cut on the Hazelett property across the street, creating one four-way intersection. The proposed exit will be located at the east end of the site, slightly offset to the east of the Hazelett property east driveway across the street.

The one-way driveway will lead to 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

D001

- › 2024 DHV-30: 1,429
- › April 30, 2024, Peak Hour Volume: 1,380
- › Adjustment Factor = 1.036

D040

- › 2024 DHV-30: 1,749
- › April 30, 2024, Peak Hour Volume: 1,668
- › Adjustment Factor = 1.049

Because both continuous count stations showed similar adjustment factors, an average was taken between the two to come up with an adjustment factor for the counts (1.043).

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 40 restaurant seats. In addition, the housing land use code selected is more conservative than using a land use for a more recreational housing style. To remain conservative, the peak hour trips of the restaurant (which may occur later than the roadway peak hour of 4:30 to 5:30 PM) were selected to be added to the peak roadway traffic presenting a worst case scenario. The total unadjusted trip generation of the site is anticipated to be 45 AM and 53 PM peak hour trips. The trip generation data is provided in Table 1 below.

Table 1 Trip Generation Summary

Peak Period	Residential (LUC 210) 20 Dwelling Units	Restaurant (LUC 932) 40 Seats	Total Trips
AM Peak Hour			
Enter	6	14	20
Exit	<u>15</u>	<u>10</u>	<u>25</u>
Total	21	24	45
PM Peak Hour			
Enter	15	16	31
Exit	<u>8</u>	<u>14</u>	<u>22</u>
Total	23	30	53

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.

Trip Distribution and Assignment

Travel patterns of project trips to and from the proposed site are based on existing travel patterns along West Lakeshore Drive as shown in Table 2 and are based on the turning movements counts collected on April 29, 2025.

Table 2 Trip Distribution

	AM Peak Hour	PM Peak Hour
West Lakeshore Drive Westbound	40%	60%
West Lakeshore Drive Eastbound	60%	40%

All project trips are assumed to be primary trips. With no pass-by trips, all project trips are expected to start or end at the proposed driveways on West Lakeshore Drive. New vehicle trips were assigned based on the distribution above.

Traffic Analysis

The operations at the Site Driveways with West Lakeshore Drive and Hazelett driveways 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 3 Level of Service and Delay Summary – Unsignalized Intersections

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

Intersection Operations Analysis Results

The following Tables 4-6 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 4) show that during both the AM and PM peak hours, approaches on West Lakeshore Drive operate at LOS A, while the movement from the Hazelett property operates at a LOS B during both peak hours.

Similarly, the capacity analysis at the site exit (Table 5) shows that during the AM and PM peak hours, the site exit operates at LOS A and LOS B respectively. The capacity analysis at the east Hazelett Property driveway (Table 6) shows that during the AM and PM peak hours, the Hazelett driveway operates at LOS B in the AM peak hour and LOS A in the PM peak hour. 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 driveways 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.

Table 4 West Lakeshore Drive / Site Entrance Capacity Analysis Results

Approach	2025 Build		
	Delay ¹	LOS ²	Q95 ³
AM Peak Hour			
West Lakeshore Drive EB	2.2	A	72
West Lakeshore Drive WB	1.0	A	79
Hazelett Property NB	12.2	B	36
PM Peak Hour			
West Lakeshore Drive EB	2.1	A	105
West Lakeshore Drive WB	0.8	A	29
Hazelett Property NB	14.4	B	57

¹Delay expressed in seconds per vehicle

²Level of Service

³95th percentile queue length expressed in vehicle length

Table 5 West Lakeshore Drive / Site Exit Capacity Analysis Results

Approach	2025 Build		
	Delay ¹	LOS ²	Q95 ³
AM Peak Hour			
West Lakeshore Drive EB	0.3	A	0
West Lakeshore Drive WB	1.0	A	48
Site Exit SB	5.0	A	42
PM Peak Hour			
West Lakeshore Drive EB	0.2	A	0
West Lakeshore Drive WB	2.3	A	137
Site Exit SB	13.1	B	57

¹Delay expressed in seconds per vehicle

²Level of Service

³95th percentile queue length expressed in vehicle length

Table 6 West Lakeshore Drive / Hazelett Capacity Analysis Results

Approach	2025 Build		
	Delay ¹	LOS ²	Q95 ³
AM Peak Hour			
West Lakeshore Drive EB	0.7	A	21
West Lakeshore Drive WB	0.5	A	56
Hazelett Property NB	11.4	B	34
PM Peak Hour			
West Lakeshore Drive EB	0.6	A	20
West Lakeshore Drive WB	0.6	A	69
Hazelett Property NB	8.5	A	49

¹Delay expressed in seconds per vehicle

²Level of Service

³95th percentile queue length expressed in vehicle length

Event Facility Sensitivity Analysis

The second floor of the proposed main building will include approximately 2,000 square feet of mixed-use space that may occasionally be used as event facility supported by the on-site restaurant, with room for up to 60 people. To assess the impact of these events in addition to the regular traffic generated by the restaurant and lodging, a secondary operational analysis was performed. Trip generation was calculated using LUC 931 (Fine Dining Restaurant) with a variable of 60 seats, resulting in an additional nine trips during the AM peak hour and 17 trips during the PM peak hour. It was assumed that all additional trips generated by the event facility would use the auxiliary parking lot on the south side of W Lakeshore Drive, and to be conservative, that they would utilize the eastern entrance/exit as it is located more closely to the proposed parking lot. The synchro analysis described above was repeated for a condition including an event on site. These additional trips are anticipated to have negligible effect on the operations of through traffic on West Lakeshore Drive and will not increase delay for drivers exiting the proposed site parking lot by more than six seconds during the peak hours, maintaining an acceptable LOS.

Pedestrian Accommodations

The site plan shown in Figure 1 proposes a new mid-block crosswalk between the main building and cottages on the north side of West Lakeshore Drive and the auxiliary parking lots on the south side. Pedestrian-activated rectangular rapid flashing beacons (RRFBs) are proposed to supplement the pedestrian crossing warning signs on both sides of the crosswalk. RRFBs are generally recommended for consideration at any crosswalk where vehicle traffic is not controlled by stop signs, yield signs, or signals, and RRFBs are present at several existing mid-block crossings on West Lakeshore Drive. Due to the anticipated increase in pedestrian traffic associated with the proposed development, and the existing high volumes of traffic on West Lakeshore Drive, RRFBs are an appropriate measure to enhance pedestrian safety at the proposed crossing.

The proposed site plan also includes additional lighting in the vicinity of the new crosswalk. The existing Town-owned streetlight directly adjacent to the southern end of the proposed crosswalk will be upgraded, and three new light fixtures are proposed in the vicinity of the crosswalk. Per ANSI/IES (RP-8-14), the Illumination Engineering Society of North America (IESNA) recommends an average vertical illuminance level of 2.0 footcandles measured five feet above the roadway surface for mid-block crossings. As shown in the proposed site's Lighting Plan dated 10/07/2025, T.J. Boyle Associates commits to provide the required light level at the crosswalk.

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 collected 2025 turning movement count data at both existing three-way intersections of West Lakeshore Drive and Hazelett property driveways. A seasonal adjustment factor was developed based on data from continuous VTrans count stations and applied to the measured traffic volumes to establish typical year-round volumes at the site.
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.



Memorandum

Appendix

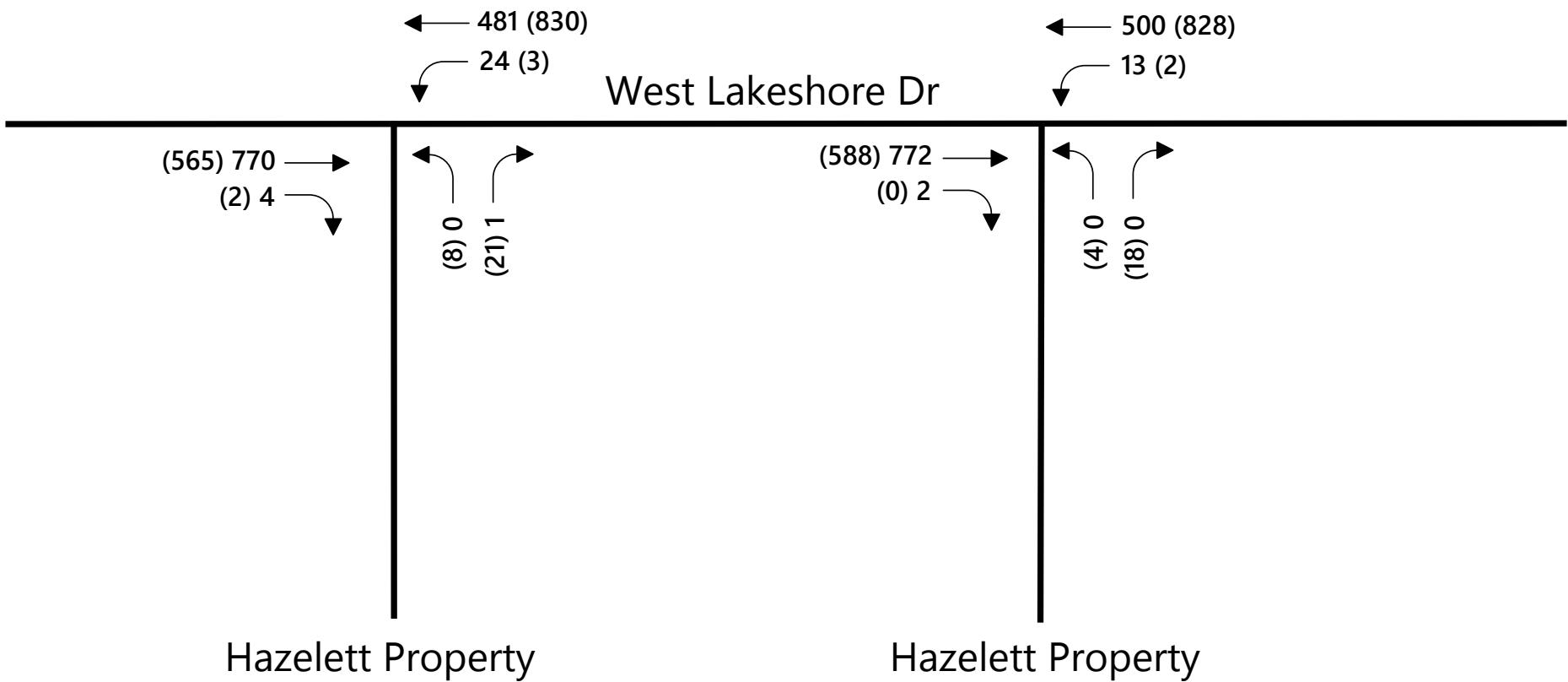
Peak Hour Traffic Volumes

Existing Conditions																			
Peak Hour		Volumes (Cars + Heavy Vehicles)																	
		Northbound (Hazelett Driveway)				Southbound (Site)				Eastbound (W Lakeshore Dr)				Westbound (W Lakeshore Dr)					
West Driveway (Site Entrance)																			
U Turns	Left	Thru	Right	U Turns	Left	Thru	Right	U Turns	Left	Thru	Right	U Turns	Left	Thru	Right	U Turns	Left	Thru	Right
AM 7:15 AM to 8:15 AM	0	0	0	1	0	0	0	0	0	738	4	0	23	461	0				
PM 4:30 PM to 5:30 PM	0	8	0	20	0	0	0	0	0	542	2	0	3	796	0				
East Driveway (Site Exit)																			
AM 7:15 AM to 8:15 AM	0	0	0	0	0	0	0	0	0	740	2	0	12	479	0				
PM 4:30 PM to 5:30 PM	0	4	0	17	0	0	0	0	0	564	0	0	2	794	0				

Total
1227
1371
1233
1381

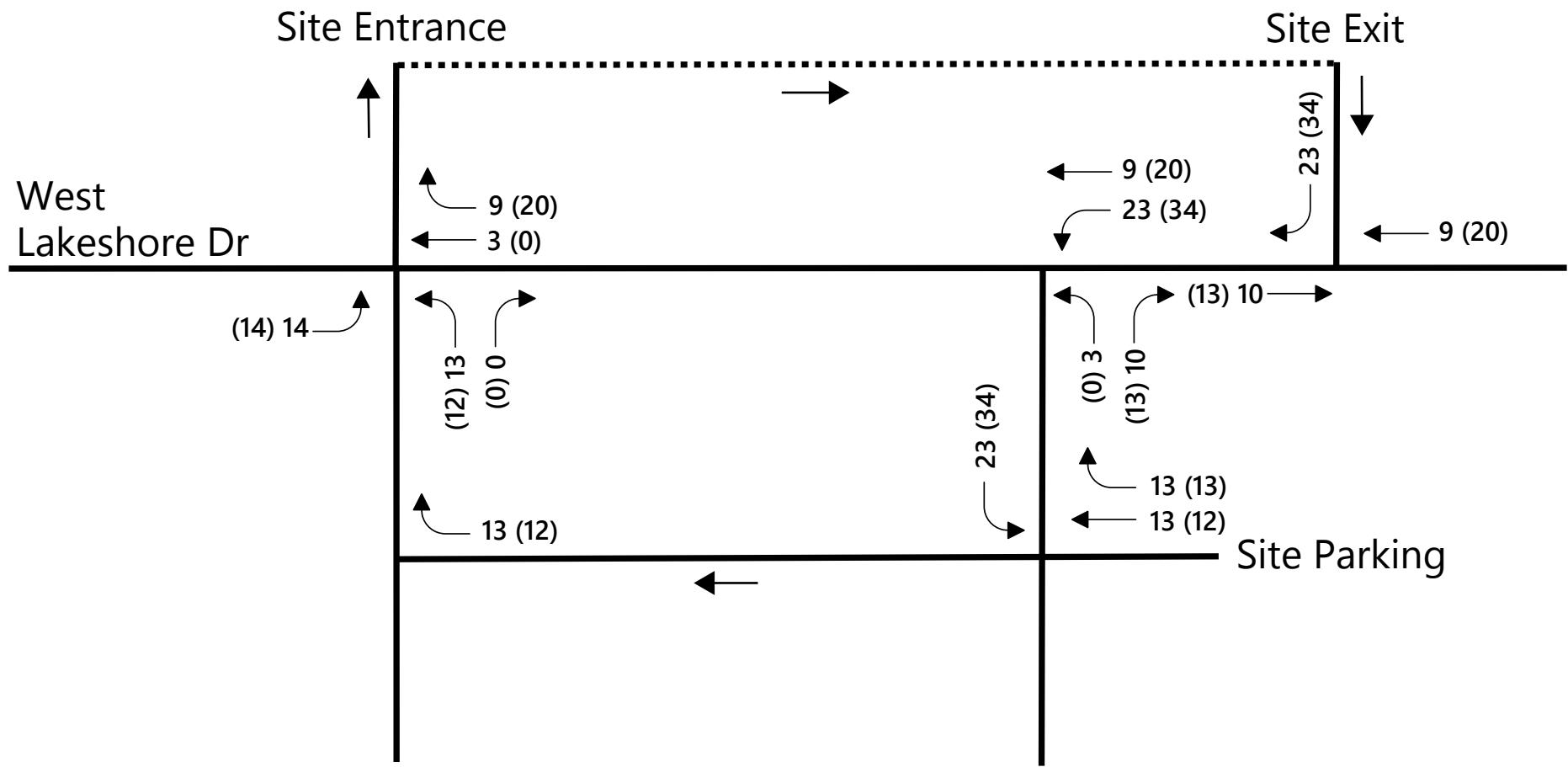
Seasonal Adjustment																			
Peak Hour		Volumes (Cars + Heavy Vehicles)																	
		Northbound (Hazelett Driveway)				Southbound (Site)				Eastbound (W Lakeshore Dr)				Westbound (W Lakeshore Dr)					
West Driveway (Site Entrance)																			
U Turns	Left	Thru	Right	U Turns	Left	Thru	Right	U Turns	Left	Thru	Right	U Turns	Left	Thru	Right	U Turns	Left	Thru	Right
AM 7:15 AM to 8:15 AM	0	0	0	1	0	0	0	0	0	770	4	0	24	481	0				
PM 4:30 PM to 5:30 PM	0	8	0	21	0	0	0	0	0	565	2	0	3	830	0				
East Driveway (Site Exit)																			
AM 7:15 AM to 8:15 AM	0	0	0	0	0	0	0	0	0	772	2	0	13	500	0				
PM 4:30 PM to 5:30 PM	0	4	0	18	0	0	0	0	0	588	0	0	2	828	0				

Seasonal adjustment factor = 1.043



No Build

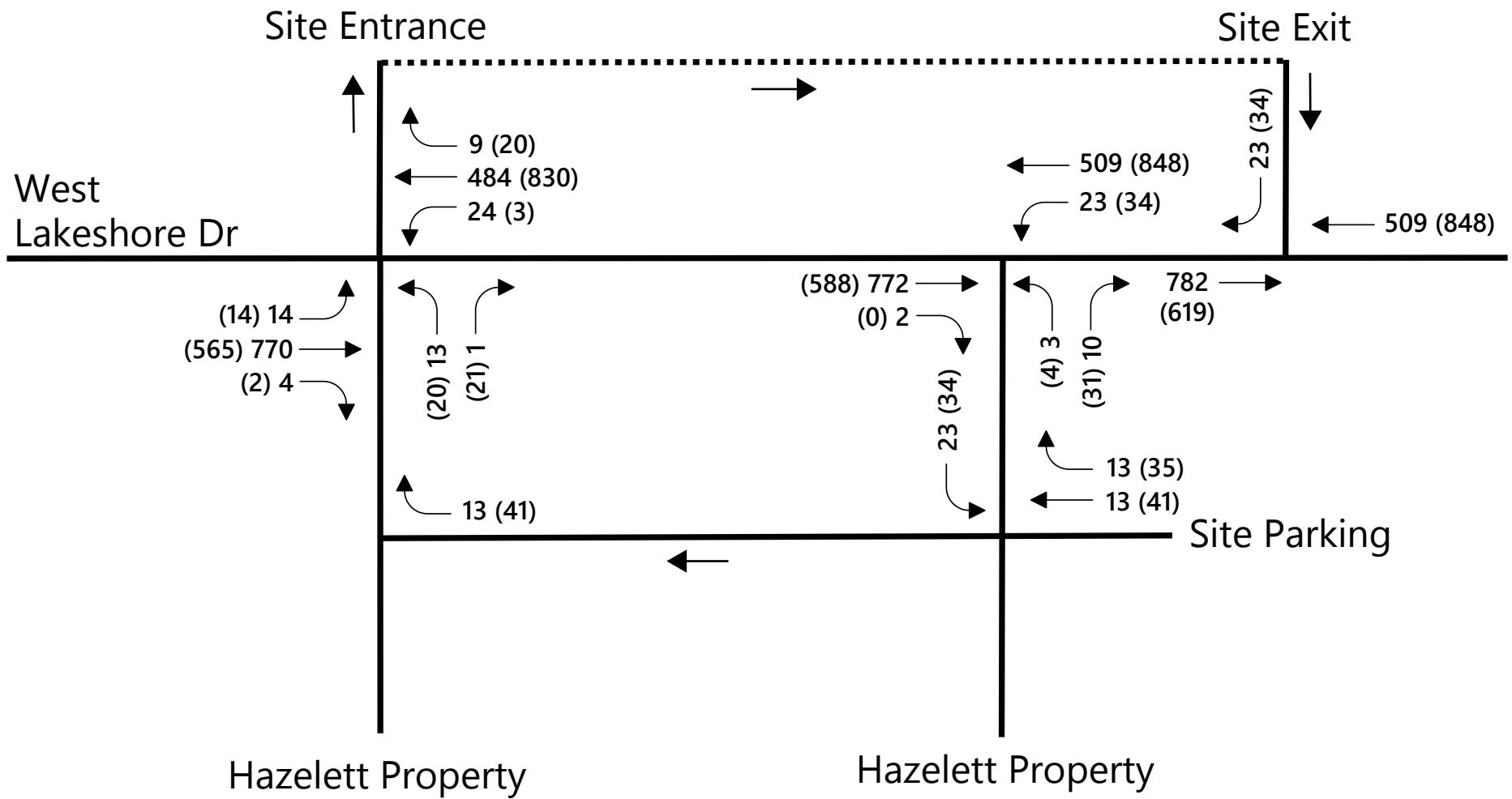
Legend:
XX = AM Peak Hour
(XX) = PM Peak Hour



	AM	(PM)
In	23	(34)
Out	26	(25)
Total	49	(59)

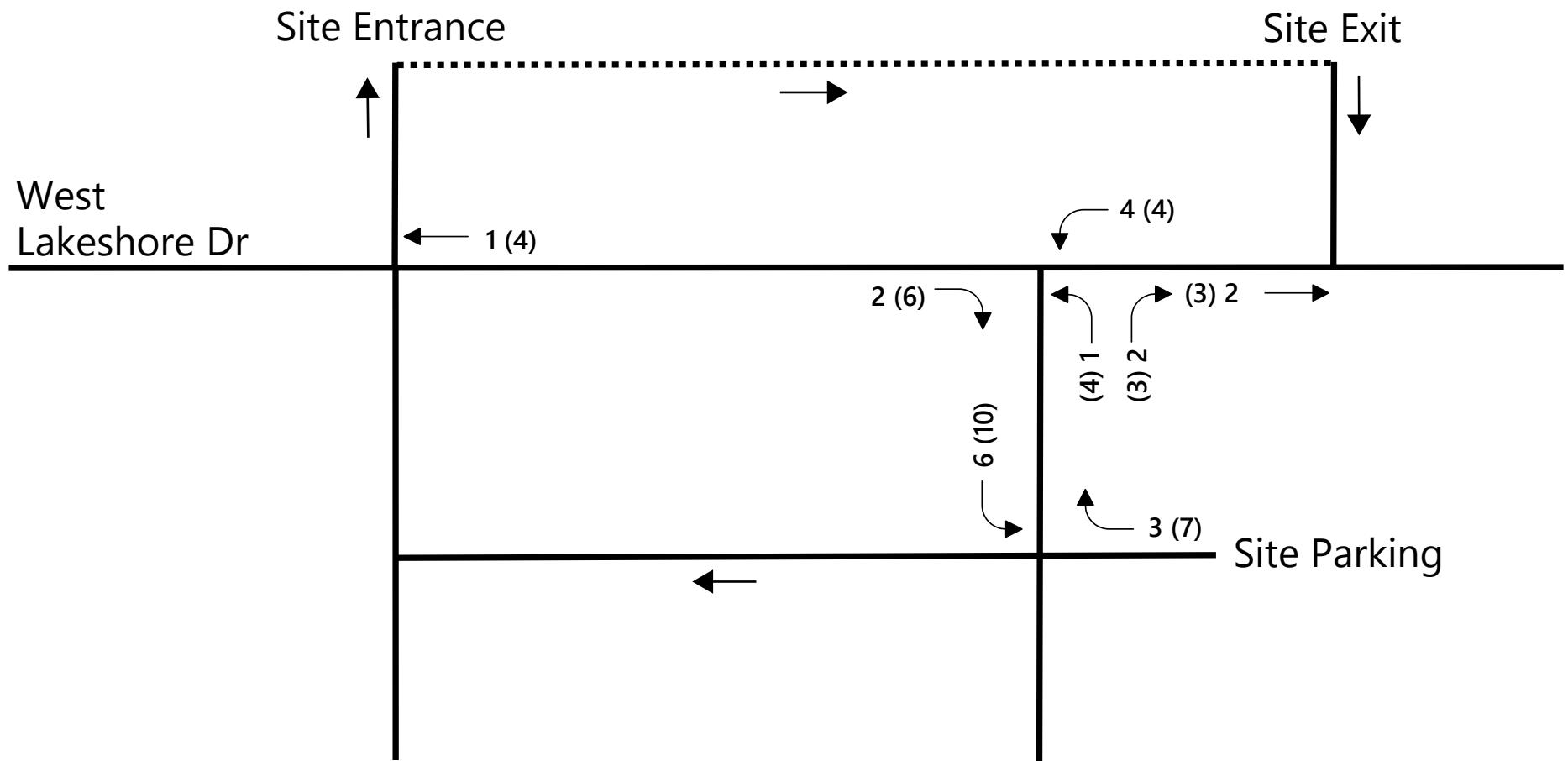
Trip Assignment - Daily Traffic

Legend:
 XX = AM Peak Hour
 (XX) = PM Peak Hour



Legend:
XX = AM Peak Hour
(XX) = PM Peak Hour

Build



	AM	(PM)	
In	6	(10)	Hazelett Property
Out	3	(7)	Hazelett Property
Total	9	(17)	

Trip Assignment - Daily Traffic

Legend:
 XX = AM Peak Hour
 (XX) = PM Peak Hour

WEST LAKESHORE DRIVE / HAZELETT EASTERN DRIVEWAY

Date	Time	Westbound					Northbound					Eastbound							
		U Turns	Left Turns	Straight Through	Right Turns	NB Crosswalk Crossings	SB Crosswalk Crossings	U Turns	Left Turns	Straight Through	Right Turns	EB Crosswalk Crossings	WB Crosswalk Crossings	U Turns	Left Turns	Straight Through	Right Turns	NB Crosswalk Crossings	SB Crosswalk Crossings
4/29/2025	0:00	0	0	7	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
4/29/2025	0:15	0	0	5	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
4/29/2025	0:30	0	0	3	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
4/29/2025	0:45	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2025	1:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
4/29/2025	1:15	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
4/29/2025	1:30	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
4/29/2025	1:45	0	0	6	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
4/29/2025	2:00	0	0	2	0	0	0	0	0	0	6	0	0	0	0	0	1	0	0
4/29/2025	2:15	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
4/29/2025	2:30	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0
4/29/2025	2:45	0	0	4	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
4/29/2025	3:00	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0
4/29/2025	3:15	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
4/29/2025	3:30	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	4	0	0
4/29/2025	3:45	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
4/29/2025	4:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
4/29/2025	4:15	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0
4/29/2025	4:30	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0
4/29/2025	4:45	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	18	1	0
4/29/2025	5:00	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0
4/29/2025	5:15	0	1	9	0	0	0	0	0	0	0	2	2	0	0	0	20	1	0
4/29/2025	5:30	0	3	11	0	0	0	0	0	0	0	1	1	0	0	0	43	1	0
4/29/2025	5:45	0	2	20	0	0	0	0	0	0	0	0	0	0	0	0	31	0	0
4/29/2025	6:00	0	2	23	0	0	0	0	0	0	1	0	0	0	0	0	41	0	0
4/29/2025	6:15	0	6	32	0	0	0	0	0	0	0	0	0	0	0	0	68	0	0
4/29/2025	6:30	0	2	30	0	0	0	0	0	0	0	0	0	0	0	0	85	0	0
4/29/2025	6:45	0	2	70	0	0	0	0	0	0	2	0	0	0	0	0	104	0	0
4/29/2025	7:00	0	1	55	0	0	0	0	0	0	0	0	1	0	0	0	154	0	0
4/29/2025	7:15	0	3	96	0	0	0	0	0	0	0	0	1	0	0	0	184	2	0
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4/29/2025	7:45	0	1	149	0	0	0	0	0	0	0	1	2	0	0	0	192	0	0
4/29/2025	8:00	0	3	124	0	0	0	0	0	0	0	2	0	0	0	0	173	0	0
4/29/2025	8:15	0	1	121	0	0	0	0	0	0	0	3	1	0	0	0	150	0	0
4/29/2025	8:30	0	1	124	0	0	0	0	1	0	1	0	1	0	0	0	103	0	0
4/29/2025	8:45	0	1	84	0	0	0	0	0	0	0	0	0	0	0	0	96	0	0
4/29/2025	9:00	0	1	91	0	0	0	0	0	0	0	0	0	0	0	0	83	0	0
4/29/2025	9:15	0	0	75	0	0	0	0	0	0	1	3	2	0	0	0	86	0	0
4/29/2025	9:30	0	0	98	0	0	0	0	0	0	0	0	0	0	0	0	111	0	0
4/29/2025	9:45	0	0	82	0	0	0	0	0	0	0	0	0	0	0	0	95	0	0
4/29/2025	10:00	0	0	75	0	0	0	0	1	0	0	0	0	0	0	0	97	0	0
4/29/2025	10:15	0	1	90	0	0	0	0	0	0	0	0	0	0	0	0	81	0	0
4/29/2025	10:30	0	0	92	0	0	0	0	1	0	2	0	0	0	0	0	98	0	0
4/29/2025	10:45	0	0	89	0	0	0	0	1	0	0	0	1	1	0	0	99	1	0
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4/29/2025	12:30	0	1	88	0	0	0	1	0	0	1	0	2	0	0	0	87	1	0
4/29/2025	12:45	0	0	109	0	0	0	0	0	0	2	1	0	0	0	0	77	0	0
4/29/2025	13:00	0	0	110	0	0	0	0	0	0	0	1	1	0	0	0	97	1	0
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4/29/2025	13:45	0	2	89	0	0	0	0	0	0	0	2	0	0	0	0	102	0	0
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4/29/2025	14:15	0	0	127	0	0	0	0	1	0	0	0	0	1	0	0	104	0	0
4/29/2025	14:30	0	0	133	0	0	0	0	0	0	0	0	1	0	0	0	131	0	0
4/29/2025	14:45	0	0	133	0	0	0	0	0	1	0	2	0	0	0	0	156	0	0
4/29/2025	15:00	0	1	132	0	0	0	0	1	0	2	0	0	0	0	0	134	0	0
4/29/2025	15:15	0	0	145	0	0	0	0	0	0	0	0	0	0	0	0	142	0	0
4/29/2025	15:30	0	0	178	0	0	0	0	1	0	1	0	0	0	0	0	170	0	0
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4/29/2025	16:45	0	0	198	0	0	0	0	3	0	0	0	0	0	0	0	139	0	0
4/29/2025	17:00	0	0	189	0	0	0	0	1	0	7	0	0	0	0	0	132	0	0
4/29/2025	17:15	0	0	207	0	0	0	0	0	0	2	0	0	0	0	0	121	0	0
4/29/2025	17:30	0	0	157	0	0	0	0	0	0	1	1	0	0	0	0	121	0	0
4/29/2025	17:45	0	0	160	0	0	0	0	0	0	2	0	2	0	0	0	96	0	0
4/29/2025	18:00	0	0	123	0	0	0	0	0	0	1	0	0	0	0	0	107	0	0
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4/29/2025	20:15	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	33	0	0
4/29/2025	20:30	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
4/29/2025	20:45	0	1	47	0	0	0	0	0	0	1	0	0	0	0	0	39	0	0
4/29/2025	21:00	0</td																	

WEST LAKESHORE DRIVE / HAZELETT WESTERN DRIVEWAY

Date	Time	Westbound						Northbound						Eastbound						
		U Turns	Left Turns	Straight	Right	NB Crosswalk	SB Crosswalk	U Turns	Left Turns	Straight	Right	EB Crosswalk	WB Crosswalk	U Turns	Left Turns	Straight	Right	NB Crosswalk	SB Crosswalk	
4/29/2025	0:00	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
4/29/2025	0:15	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
4/29/2025	0:30	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
4/29/2025	0:45	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2025	1:00	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
4/29/2025	1:15	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
4/29/2025	1:30	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
4/29/2025	1:45	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
4/29/2025	2:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
4/29/2025	2:15	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
4/29/2025	2:30	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
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4/29/2025	4:15	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0
4/29/2025	4:30	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0
4/29/2025	4:45	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0
4/29/2025	5:00	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0
4/29/2025	5:15	0	0	9	0	0	0	0	0	0	0	2	2	0	0	0	21	0	2	2
4/29/2025	5:30	0	1	10	0	0	0	0	0	0	0	1	1	0	0	0	44	0	0	0
4/29/2025	5:45	0	5	15	0	0	0	0	0	0	0	0	0	0	0	0	31	0	0	0
4/29/2025	6:00	0	4	19	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	0
4/29/2025	6:15	0	2	30	0	0	0	0	0	0	0	0	0	0	0	0	58	3	0	0
4/29/2025	6:30	0	2	28	0	0	0	0	0	0	1	0	0	0	0	0	84	1	0	0
4/29/2025	6:45	0	7	65	0	0	0	0	1	0	0	0	0	0	0	0	104	3	0	0
4/29/2025	7:00	0	5	49	0	0	0	0	0	0	0	1	0	0	0	0	157	0	0	0
4/29/2025	7:15	0	4	95	0	0	0	0	0	0	0	0	1	0	0	0	182	2	0	0
4/29/2025	7:30	0	4	107	0	0	0	0	0	0	0	0	0	0	0	0	193	1	0	0
4/29/2025	7:45	0	5	144	0	0	0	0	0	0	1	1	2	0	0	0	191	1	0	0
4/29/2025	8:00	0	10	115	0	0	0	0	0	0	0	2	0	0	0	0	172	0	0	0
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4/29/2025	8:30	0	4	121	0	0	0	0	0	0	1	0	0	0	0	0	102	2	0	0
4/29/2025	8:45	0	1	83	0	0	0	0	0	0	0	0	0	1	0	0	97	0	0	0
4/29/2025	9:00	0	3	88	0	0	0	0	2	0	0	0	0	0	0	0	84	0	0	0
4/29/2025	9:15	0	1	74	0	0	0	0	1	0	2	1	0	0	0	0	85	2	0	0
4/29/2025	9:30	0	3	93	0	0	0	0	1	0	3	0	0	0	0	0	107	0	0	0
4/29/2025	9:45	0	0	82	0	0	0	0	1	0	0	0	0	0	0	0	94	1	0	0
4/29/2025	10:00	0	1	76	0	0	0	0	2	0	1	0	0	0	0	0	95	1	0	0
4/29/2025	10:15	0	3	88	0	0	0	0	0	0	2	0	0	0	0	0	80	2	0	0
4/29/2025	10:30	0	5	86	0	0	0	0	2	0	0	0	0	0	0	0	99	0	0	0
4/29/2025	10:45	0	0	92	0	0	0	0	0	0	0	0	0	0	0	0	98	0	0	0
4/29/2025	11:00	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0	97	1	0	0
4/29/2025	11:15	0	4	94	0	0	0	0	0	0	2	0	0	0	0	0	58	0	0	0
4/29/2025	11:30	0	1	94	0	0	0	0	2	0	3	1	1	0	0	0	94	0	0	0
4/29/2025	11:45	0	1	95	0	0	0	0	2	0	1	1	1	0	0	0	87	1	0	0
4/29/2025	12:00	0	1	83	0	0	0	0	6	0	4	0	0	0	0	0	81	2	0	0
4/29/2025	12:15	0	1	101	0	0	0	0	1	0	3	1	1	0	0	0	113	4	0	0
4/29/2025	12:30	0	2	88	0	0	0	0	0	0	3	0	0	0	0	0	86	1	0	0
4/29/2025	12:45	0	4	102	0	0	0	0	0	0	0	0	0	0	0	0	76	2	0	0
4/29/2025	13:00	0	1	108	0	0	0	0	2	0	0	0	1	1	0	0	98	0	0	0
4/29/2025	13:15	0	0	110	0	0	0	0	0	0	0	1	2	0	0	0	101	1	0	0
4/29/2025	13:30	0	0	79	0	0	0	0	1	0	3	1	1	0	0	0	92	0	0	0
4/29/2025	13:45	0	0	90	0	0	0	0	1	0	0	0	0	0	0	0	102	0	0	0
4/29/2025	14:00	0	2	110	0	0	0	0	0	0	1	0	0	2	0	0	119	0	0	0
4/29/2025	14:15	0	2	127	0	0	0	0	0	0	2	0	0	1	0	0	101	0	0	0
4/29/2025	14:30	0	1	133	0	0	0	0	0	0	0	0	0	0	0	0	131	0	0	0
4/29/2025	14:45	0	0	130	0	0	0	0	2	0	1	0	0	1	0	0	154	0	0	0
4/29/2025	15:00	0	0	134	0	0	0	0	1	0	4	1	2	0	0	0	131	1	0	0
4/29/2025	15:15	0	1	146	0	0	0	0	1	0	3	0	0	0	0	0	138	1	0	0
4/29/2025	15:30	0	0	179	0	0	0	0	1	0	2	0	0	0	0	0	172	1	0	0
4/29/2025	15:45	0	1	160	0	0	0	0	2	0	2	0	0	1	0	0	143	0	0	0
4/29/2025	16:00	0	0	164	0	0	0	0	1	0	10	1	1	0	0	0	140	0	0	0
4/29/2025	16:15	0	0	173	0	0	0	0	0	0	0	0	1	0	0	0	151	0	0	0
4/29/2025	16:30	0	0	201	0	0	0	0	2	0	4	0	0	0	0	0	167	2	0	0
4/29/2025	16:45	0	2	200	0	0	0	0	2	0	3	0	0	0	0	0	134	0	0	0
4/29/2025	17:00	0	1	190	0	0	0	0	3	0	9	3	0	0	0	0	123	0	0	0
4/29/2025	17:15	0	0	205	0	0	0	0	1	0	4	3	0	0	0	0	118	0	0	0
4/29/2025	17:30	0	0	159	0	0	0	0	1	0	3	1	0	0	0	0	116	0	0	0
4/29/2025	17:45	0	2	158	0	0	0	0	0	0	0	0	2	0	0	0	100	0	0	0
4/29/2025	18:00	0	2	121	0	0	0	0	0	0	0	0	0	0	0	0	105	0	0	0
4/29/2025	18:15	0	0	132	0	0	0	0	0											



MEMORANDUM

To: Zachary Maia, Development Manager
From: Michael J. Buscher
Date: October 31, 2025
Re: Hazelett Inn – Shared Parking Summary

The Hazelett Property, including the Hazelett Inn ("The H"), utilizes a shared parking strategy to efficiently manage off-street parking demand across mixed-use components. Shared parking is endorsed by the Urban Land Institute and the Institute of Transportation Engineers as a best practice for reducing unnecessary parking development when uses have offsetting peak times

Regulatory Baseline

- **Colchester Regulations (Section O, Table 10-2)** require **339 parking spaces** for all individual uses on the property, both existing and proposed.

<u>Use</u>	<u>Requirement</u>	<u>-</u>	<u>Parking</u>
Hotel - Leisure	1.5 / bedroom	+2	32
Spa	2 / station		2
Meeting Space	0.33 / Occupant		20
Manufacturing	0.5 / 1,000 GFA	+1 / Emp	100
Office	0.5 / 1,000 GFA	+1 / Emp	92
Marina	0.8 / boat berth		49
Fine Dining	22 / 1,000 GFA		44
Total Parking Required			339.0

Shared Parking Methodology

- Time-of-day demand factors were sourced from:
 - *Urban Land Institute Shared Parking, Second Edition* (Tables 2-5 and 2-6)
 - *ITE Parking Generation Manual, Fifth Edition*
- These factors account for staggered peak usage across uses such as dining, lodging, manufacturing, marina, office, and event space.

Peak Demand Analysis

- The highest projected demand occurs at **2:00 PM on a weekday**, with a calculated need for **277 spaces**.
- **289 spaces are proposed**, resulting in a **surplus of 12 spaces** during peak conditions.

Note: Time-of-day factors are conservatively applied. The analysis assumes ideal seasonal conditions for marina operations.

The 'H' at Mallets Bay - Shared Parking Calculations

Prepared by: T.J. Boyle Associates

July 11, 2025

Use	Requirement	-	Parking
Hotel - Leisure	1.5 / bedroom	+2	32
Spa	2 / station		2
Meeting Spce	0.33 / Occupant		20
Manufacturing	0.5 / 1,000 GFA	+1 / Emp	100
Office	0.5 / 1,000 GFA	+1 / Emp	92
Marina	0.8 / boat berth		49
Fine Dining	22 / 1,000 GFA		44
Total Parking w/o shared use			339.0
Share Parking Reductions			62.7
Total Parking needed WITH shared use			276.3
Total Parking Provided			289
Total Surplus / Shortage (Shortage if negative)			12.7

Recommended Time-of-Day Factors for Weekdays

Use	Parking Demand	6am	7am	8am	9am	10am	11am	12pm	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm	9pm	10pm	11pm	12am
Hotel - Leisure		95%	95%	90%	80%	70%	70%	65%	65%	70%	70%	75%	80%	85%	85%	90%	95%	95%	100%	
Spa		0%	0%	90%	90%	100%	100%	30%	90%	100%	100%	90%	80%	67%	30%	15%	0%	0%	0%	
Meeting Space		0%	0%	30%	60%	60%	60%	65%	65%	65%	65%	65%	100%	100%	100%	100%	100%	50%	0%	
Manufacturing		15%	55%	76%	82%	84%	85%	90%	99%	100%	95%	58%	36%	15%	12%	11%	9%	9%	8%	
Office		3%	30%	75%	95%	100%	100%	90%	90%	100%	90%	50%	25%	10%	7%	3%	1%	0%	0%	
Marina		34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	34%	
Fine Dining		0%	3%	8%	11%	26%	48%	77%	77%	69%	45%	54%	79%	96%	100%	100%	96%	77%	27%	
Hotel - Leisure	32	30.40	30.40	28.80	25.60	22.40	22.40	20.80	20.80	22.40	22.40	24.00	25.60	27.20	27.20	28.80	30.40	30.40	32.00	
Spa	2	0.00	0.00	1.80	1.80	2.00	2.00	0.60	1.80	2.00	2.00	1.80	1.60	1.34	0.60	0.30	0.00	0.00	0.00	
Meeting Space	20	0.00	0.00	6.00	12.00	12.00	12.00	13.00	13.00	13.00	13.00	20.00	20.00	20.00	20.00	20.00	10.00	0.00	0.00	
Manufacturing	100	15.00	55.00	76.00	82.00	84.00	85.00	90.00	99.00	100.00	95.00	58.00	36.00	15.00	12.00	11.00	9.00	9.00	8.00	
Office	92	2.76	27.60	69.00	87.40	92.00	92.00	82.80	82.80	92.00	82.80	46.00	23.00	9.20	6.44	2.76	0.92	0.00	0.00	
Marina	49	16.66	16.66	16.66	16.66	16.66	16.66	16.66	16.66	16.66	16.66	16.66	16.66	16.66	16.66	16.66	16.66	16.66	16.66	
Fine Dining	44	0.00	1.32	3.30	4.95	11.55	20.90	33.99	33.99	30.25	19.91	23.65	34.65	42.13	44.00	44.00	42.13	33.66	11.66	
Total	339	64.82	130.98	201.56	230.41	240.61	250.96	257.85	268.05	276.31	260.97	219.91	180.51	145.33	129.66	127.20	122.82	109.11	90.32	65.32

Recommended Time-of-Day Factors for Weekends

Use	Parking Demand	6am	7am	8am	9am	10am	11am	12pm	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm	9pm	10pm	11pm	12am
Hotel - Leisure		95%	95%	90%	80%	70%	70%	65%	65%	70%	70%	75%	80%	85%	85%	90%	95%	95%	100%	
Spa		0%	0%	90%	90%	100%	100%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Meeting Space		0%	0%	30%	60%	60%	60%	65%	65%	65%	65%	100%	100%	100%	100%	100%	50%	0%	0%	
Manufacturing*		15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	12%	11%	9%	9%	8%	
Office		0%	2%	6%	8%	9%	10%	9%	8%	6%	4%	2%	1%	1%	0%	0%	0%	0%	0%	
Marina		74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	
Fine Dining		0%	3%	5%	9%	11%	24%	54%	58%	50%	50%	50%	66%	92%	96%	100%	92%	89%	50%	
Hotel - Leisure	32	30.40	30.40	28.80	25.60	22.40	22.40	20.80	20.80	22.40	22.40	24.00	25.60	27.20	27.20	28.80	30.40	30.40	32.00	
Spa	2	0.00	0.00	1.80	1.80	2.00	2.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Meeting Space	20	0.00	0.00	6.00	12.00	12.00	12.00	13.00	13.00	13.00	13.00	20.00	20.00	20.00	20.00	20.00	10.00	0.00	0.00	
Manufacturing	100	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	12.00	11.00	9.00	9.00	8.00	
Office	92	0.00	1.84	5.52	7.36	8.28	9.20	8.28	7.36	5.52	3.68	1.84	0.92	0.92	0.00	0.00	0.00	0.00	0.00	
Marina	49	36.26	36.26	36.26	36.26	36.26	36.26	36.26	36.26	36.26	36.26	36.26	36.26	36.26	36.26	36.26	36.26	36.26	36.26	
Fine Dining	44	0	1.32	1.98	3.96	4.95	10.56	23.65	25.52	21.78	21.78	21.78	29.04	40.26	42.13	44	40.26	40.26	39.27	
Total	339	81.66	84.82	95.36	101.98	100.89	107.42	117.59	117.94	113.96	112.12	111.88	126.82	139.64	137.59	140.06	135.92	125.92	115.53	95.26

*Recommended time-of-day factors were derived from the Urban Land Institute Shared Parking, Second Edition, tables 2-5 and 2-6 and the Institute of Transportation Engineers Parking Generation Manual, Fifth Edition

The H

Planting Schedule

Prepared by T.J. Boyle Associates, LLC

Planting Schedule: Trees

Trees (deciduous)									
Quantity									
Inside Lake Setback	Outside Lake Setback	Code	Scientific Name	Common Name	Native Range	Size	Unit Price	Subtotal	Installed
1	0	AR	ACER rubrum	Red Maple	VT	4" cal	\$ 382	\$ 382	\$ 1,146.00
1	0	AP	ACER pensylvanicum	Striped Maple	VT	2" cal	\$ 202	\$ 202	\$ 606.00
2	8	ASGM	ACER saccharum 'Green Mountain'	Green Mountain Sugar Maple	VT	3" cal	\$ 317	\$ 3,170	\$ 9,510.00
0	5	AF	ACER x freemanii 'Autumn Blaze'	Autumn Blaze Hybrid Maple	VT	3" cal	\$ 295	\$ 1,475	\$ 4,425.00
0	5	BN	BETULA nigra 'Cully'	Cully River Birch	VT	3" cal	\$ 317	\$ 1,585	\$ 4,755.00
11	2	BP	BETULA populifolia 'Whitespire'	Gray Birch	Northeast	3" cal	\$ 317	\$ 4,121	\$ 12,363.00
0	2	CeO	CELTIS occidentalis	Hackberry	VT	3" cal	\$ 338	\$ 676	\$ 2,028.00
2	5	CCG	CRATAEGUS crus-galli inermis 'Cruzam'	Crusader Thornless Cockspur Hawthorn	VT	2"	\$ 177	\$ 1,239	\$ 3,717.00
0	5	GT	GLEDTISIA tricanthos var. inermis 'Shademaster'	Shademaster Thornless Honeylocust	Southeast	3" cal	\$ 317	\$ 1,585	\$ 4,755.00
0	3	NS	NYSSA sylvatica	Tupelo	VT	3" cal	\$ 414	\$ 1,242	\$ 3,726.00
0	3	OV	Ostrya virginiana	American Hop hornbeam	VT	2" cal	\$ 207	\$ 621	\$ 1,863.00
6	0	PV	PRUNUS virginiana	Chokecherry	VT	4" cal	\$ 371	\$ 2,226	\$ 6,678.00
0	1	QR	QUERCUS rubra	Red Oak	VT	3"	\$ 373	\$ 373	\$ 1,119.00
1	0	SN	SALIX nigra	Black Willow	VT	10'	\$ 192	\$ 192	\$ 576.00
1	5	TA	TILIA americana	Basswood	VT	3"	\$ 295	\$ 1,770	\$ 5,310.00
Total qty:		25	44					Subtotal	\$ 62,577.00

Evergreen trees and shrubs									
Quantity									
Inside Lake Setback	Outside Lake Setback	Code	Scientific Name	Common Name	Native Range	Size	Unit Price	Subtotal	Installed
1	12	AB	ABIES balsamea	Balsam Fir	VT	7"	\$ 193	\$ 2,509	\$ 7,527.00
6	3	IG	ILEX glabra 'Shamrock'	Inkberry Holly	VT	5'	\$ 135	\$ 1,215	\$ 3,645.00
0	22	JS	JUNIPERUS 'Sea Green'	Sea Green Juniper	VT	7"	\$ 193	\$ 4,246	\$ 12,738.00
1	5	JV	JUNIPERUS virginiana	Eastern Red Cedar	VT	10'	\$ 389	\$ 2,334	\$ 7,002.00
0	4	PG	PICEA glauca	White Spruce	VT	8"	\$ 266	\$ 1,064	\$ 3,192.00
0	9	PJM	RHODODENDRON 'PJM Elite'	PJM Rhododendron	Not Native	30"	\$ 59	\$ 529	\$ 1,586.25
0	5	TxH	TAXUS x 'Hicksii'	Hick's Yew	Not Native	36"	\$ 84	\$ 421	\$ 1,263.75
6	0	TO	THUJA occidentalis	White Cedar	New England	#7	\$ 82	\$ 492	\$ 1,476.00
0	7	TON	THUJA occidentalis 'Nigra'	Dark American Arborvitae	VT	8"	\$ 266	\$ 1,862	\$ 5,586.00
0	12	TOS	THUJA occidentalis 'Smaragd'	Emerald Green Arborvitae	Not Native	30"	\$ 49	\$ 588	\$ 1,764.00
0	2	TCP	TSUGA canadensis 'Pendula'	Dwarf Weeping Hemlock	VT	5-6' B&B	\$ 595	\$ 1,190	\$ 3,570.00
Total qty:		14	81					Subtotal	\$ 49,350.00

Planting Schedule: Shrubs and Perennials

Shrubs and Woody Groundcovers									
Quantity									
Inside Lake Setback	Outside Lake Setback	Code	Scientific Name	Common Name	Native Range	Size	Unit Price	Subtotal	Installed
0	51	AU	ARCTYSTAPHYLOS uva-ursi	Bearberry	VT	6" #1	\$ 14	\$ 714	\$ 2,142.00
54	22	AM	ARONIA melanocarpa	Black Chokeberry	VT	4" B&B	\$ 83	\$ 6,308	\$ 18,924.00
24	8	CSAF	CORNUS sericea 'Arctic Fire'	Arctic Fire Dogwood	VT	#7	\$ 62	\$ 1,984	\$ 5,952.00
21	9	CA	CORYLUS americana	American Hazelnut	VT	36" #5	\$ 119	\$ 3,570	\$ 10,710.00
33	11	DL	DIERVILLA lonicera	Bush Honeysuckle	VT	#5	\$ 31	\$ 1,364	\$ 4,092.00
12	18	FG	FOTHERGILLA gardenii	Dwarf Witch-Alder	Southeast	4-5' B&B	\$ 38	\$ 1,225	\$ 3,375.00
2	2	HV	HAMAMELIS virginiana	Witch-hazel	VT	8" B&B	\$ 224	\$ 896	\$ 2,688.00
4	22	HA	HYDRANGEA arborescens	Smooth Hydrangea	Southeast	#5	\$ 31	\$ 806	\$ 2,418.00
0	6	PO	PHYSOCARPUS opulifolius	Common Ninebark	VT	24" #5	\$ 246	\$ 1,476	\$ 4,428.00
0	19	PF	POTENTILLA fruticosa 'Pink Beauty'	Shrubby Cinquefoil	VT	#5	\$ 35	\$ 665	\$ 1,995.00
0	24	RAG	RHUS aromatica 'Grow Low'	Grow Low Fragrant Sumac	VT	6" #1	\$ 300	\$ 7,200	\$ 21,600.00
27	0	SS	SALIX exigua ssp. 'Interior'	Sandbar Willow	VT	7" B&B	\$ 138	\$ 3,726	\$ 11,178.00
18	0	SC	SAMBUCUS canadensis	Black Elderberry	VT	#3	\$ 70	\$ 1,260	\$ 3,780.00
0	16	STO	SPIREA tomentosa	Steeplebush	VT	2 Gal	\$ 245	\$ 3,920	\$ 11,760.00
7	3	ST	STAPHYLEA trifolia	Bladdernut	VT	#5	\$ 24	\$ 240	\$ 720.00
23	8	SA	SYMPHORICARPOS albus	Snowberry	VT	#2	\$ 39	\$ 1,209	\$ 3,627.00
0	3	SV	SYRINGA vulgaris 'Monge'	Dark Purple Common Lilac	Not native	6" B&B	\$ 28	\$ 84	\$ 252.00
99	0	VAN	VACCINIUM angustifolium 'Brunswick'	Low Sweet Blueberry	VT	#3	\$ 14	\$ 1,386	\$ 4,158.00
20	3	VA	VIBURNUM acerifolium	Maple-leaved Viburnum	VT	#3	\$ 69	\$ 1,587	\$ 4,761.00
Total qty:		344	225					Subtotal	\$ 118,560.00

Shade Perennial Matrix (S.P.M.)									
Quantity									
Inside Lake Setback	Outside Lake Setback	Code	Scientific Name	Common Name	Native Range	Size	Unit Price	Subtotal	Installed
112	274	A	CAREX pensylvanica	Pennsylvania Sedge	VT	2 qt	\$ 14.00	\$ 5,404	\$ 14,590.80
71	183	B	ATHYRIUM felix-femina	Lady Fern	VT	2 qt	\$ 14.00	\$ 3,556	\$ 9,601.20
35	67	E	CAREX blanda	Common wood sedge	New England	2 Qt	\$ 17.00	\$ 1,734	\$ 4,681.80
79	153	D	CAREX platyphylla	Broad-leaved sedge	VT	2 Qt	\$ 17.00	\$ 3,944	\$ 10,648.80
84	146	C	DRYOPTERIS marginalis	Marginal Wood Fern	Northeast	2 Qt	\$ 14.00	\$ 3,220	\$ 8,694.00
21	61	F	TIARELLA cordifolia	Foamflower	VT	1 qt	\$ 9	\$ 738	\$ 1,992.60
Total qty:		402	884					Subtotal	\$ 50,209.20

Other Perennials									
Qty.	Code	Scientific Name	Common Name	Size	Unit Price	Subtotal	Installed		
0	11	AMT	ACHILLEA millefolium 'Salmon Beauty'	Salmon Beauty Yarrow	VT	1 gal	\$ 11.00	\$ 121	\$ 326.70
0	15	CB	CALAMAGROSTIS brachytricha	Korean Feather Reed Grass	VT	#2	\$ 15.00	\$ 225	\$ 607.50
0	18	CAP	CLEMATIS alpina 'Pamela Jackman'	Alpine Clematis	Not native	#2	\$ 38.00	\$ 684	\$ 1,846.80
0	20	CV	COREOPSIS verticillata 'Moonbeam'	Moonbeam Tickseed	Southeast	#2	\$ 12.50	\$ 250	\$ 675.00
0	33	FGE	FESTUCA glauca 'Elijah Blue'	Blue Fescue	Not native	#1	\$ 12.00	\$ 396	\$ 1,069.20
0	71	NWL	NEPETA x faassenii 'Walker's Low'	Walker's Low Catmint	Not native	#2	\$ 13.75	\$ 976	\$ 2,635.88
0	84	OC	OSMUNDA cinnamomea	Cinnamon Fern	Not native	#1	\$ 12	\$ 1,008	\$ 2,721.60
Total qty:		0	252					Subtotal	\$ 9,882.68

Seed Mixes									
Qty.	Code	Scientific Name	Application Rate	Unit Size	Price/unit	Subtotal	Installed		
3		Vermont Wetland Hummock Mix	20lbs per acre	VT	Pound	\$ 140.00	\$ 420		\$ 500.00
3		Shortgrass Woods Edge or Savanna Seed Mix	10 lbs per acre	Northeast	1000 sf coverage	\$ 73.00	\$ 219		\$ 300.00
14		VT Native Custom Steep Slope Erosion Control Mix (10,000 sf)	60 lbs/ acre	VT	Pound	\$ 17	\$ 238		\$ 300.00
								Subtotal	\$ 1,100.00

TOTAL \$ 291,678.88

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 is 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 to 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.

The “H” at Mallets Bay
Stormwater Narrative

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 = 1.26 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. Pre-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 an existing sandy loam topsoil layer on the site ranging from 7-13 inches in depth. Given that much of the finish site

The “H” at Mallets Bay
Stormwater Narrative

will be covered in building or paving, there will be an excess of existing topsoil to restore 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: WQv 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.

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Stormwater Narrative

- **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 \$2106.20 to “State of Vermont”.

The “H” at Mallets Bay
Stormwater Narrative

Location Map

[Insert project specific location map here. You may download topographic map from the [Natural Resource Atlas](#). 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.

The “H” at Mallets Bay
Stormwater Narrative

Soils Map

[Insert project specific soils map here. Soils information can be found at the [Web Soil Survey](#) 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)]

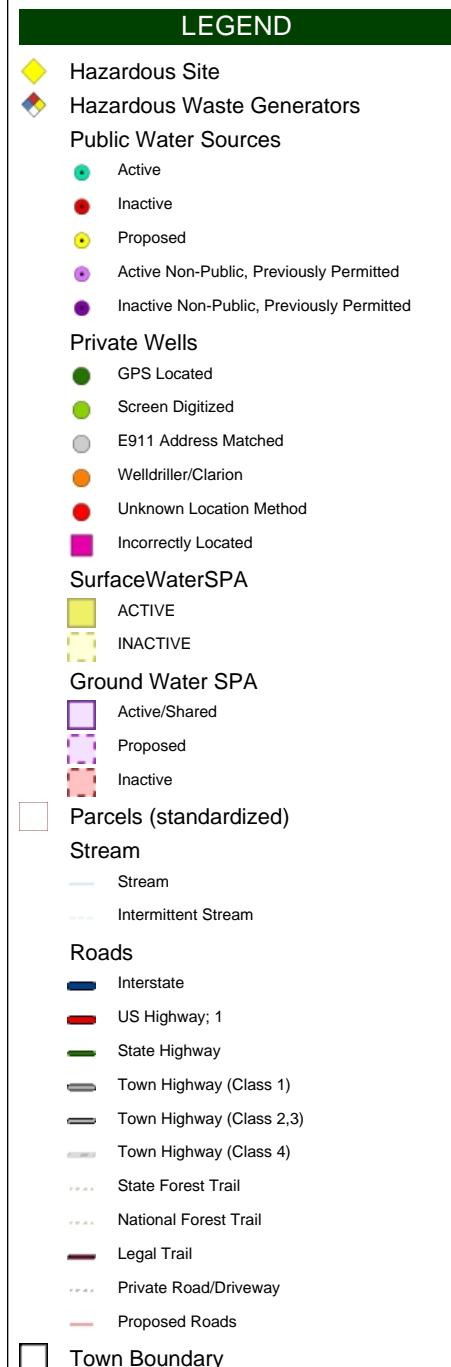
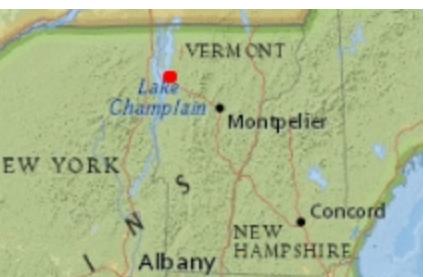
See Attached Soils Map.



The H at Mallets Bay Location Map

Vermont Agency of Natural Resources

vermont.gov



1: 15,630

1in = 1302 ft.
1cm = 156 meters



794.0 0 397.00 794.0 Meters
WGS_1984/Web/Mercator/Auxiliary_Sphere

© Vermont Agency of Natural Resources. February 27, 2025

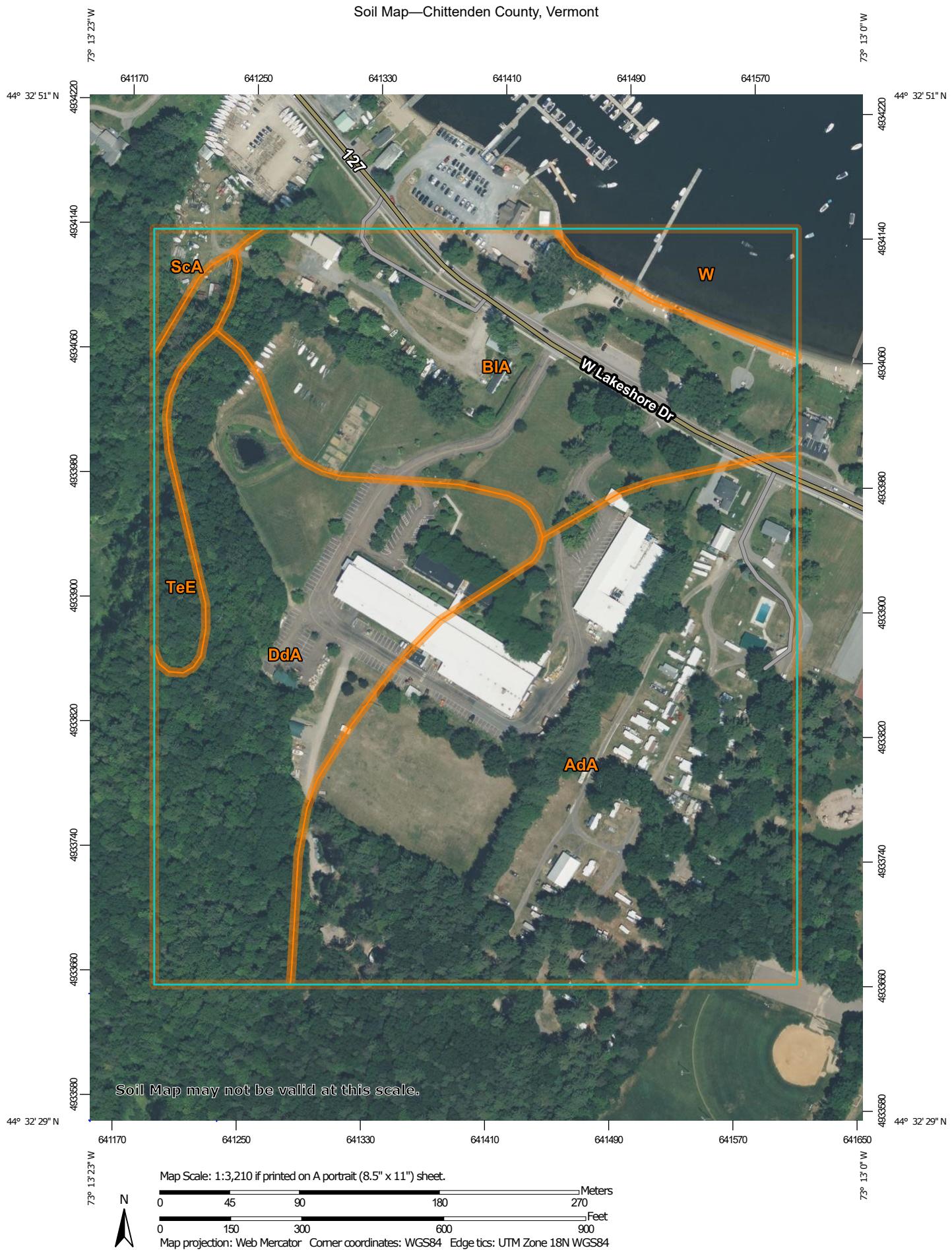
DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

NOTES

Map created using ANR's Natural Resources Atlas

Soil Map—Chittenden County, Vermont

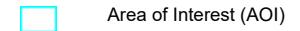


Soil Map may not be valid at this scale.

Map Scale: 1:3,210 if printed on A portrait (8.5" x 11") sheet.



Meters
0 45 90 180 270
Feet
0 150 300 600 900
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND**Area of Interest (AOI)**

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

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 soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed 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 projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the 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 as 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 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 18, 2020—Jun 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.



Map Unit Legend

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%



Outlook

RE: The "H" at Malletts Bay

From Haenke, Brodie <Brodie.Haenke@vermont.gov>

Date Wed 10/1/2025 4:53 PM

To Scott Homsted <scott.homsted@krebsandlansing.com>

Cc Benjamin Avery <ben@greenfieldgrowthllc.com>; Purcell, Terry <Terry.Purcell@vermont.gov>

Hello Scott,

Thanks for following up, we did take some time to review the materials you sent regarding your stormwater treatment strategy for both the expansion/redevelopment project as well as the 3-acre application. As you know, final approval for the stormwater treatment plan on this site will be dependent on the details and supporting documents provided in a full operational stormwater permit application. but based on this initial assessment and the calculations you provided, we are comfortable with you moving ahead with submitting an application that incorporates site balancing into your treatment strategy given the site constraints in the redevelopment/expansion project area.

A few notes to consider for your full application:

- Should the road segments in the southern portion of the 3-acre site be isolated road segments? Will stormwater runoff from these roads intermingle with the other impervious surfaces?
- We would like to see a distinction between the rooftop and non-rooftop impervious surfaces being used for site balancing. This could be done in a table similar to the one already provided. This is to make clear that any expanded/redeveloped non-rooftop impervious surfaces are not being balanced with the treatment of existing rooftop impervious surfaces.
- We will also want to see the stormwater conveyance details for all the impervious included in the large drainage area for the planned retrofitted gravel wetland.

Please be in touch with Terry and I with any questions as you work on a full permit application.

Thanks,

Brodie Haenke | Environmental Analyst

Vermont Agency of Natural Resources | Department of Environmental Conservation

Watershed Management Division | Stormwater Program

Davis 3, 1 National Life Dr | Montpelier, VT 05620-3901

802-461-6028 | brodie.haenke@vermont.gov

<https://dec.vermont.gov/watershed/stormwater>

From: Scott Homsted <scott.homsted@krebsandlansing.com>

Sent: Tuesday, September 30, 2025 5:33 PM

To: Haenke, Brodie <Brodie.Haenke@vermont.gov>

Cc: Benjamin Avery <ben@greenfieldgrowthllc.com>; Purcell, Terry <Terry.Purcell@vermont.gov>
Subject: Re: The "H" at Malletts Bay

EXTERNAL SENDER: Do not open attachments or click on links unless you recognize and trust the sender.

Hi Brodie,

Writing to be a squeaky wheel about this project. We don't need a full review, but we need to be comfortable with our approach in order to submit our Town applications. Thanks for your help.

Scott

Scott Homsted, P.E.
Krebs & Lansing Consulting Engineers, Inc.
164 Main Street
Colchester, Vermont 05446
O: (802) 878-0375
Scott.Homsted@krebsandlansing.com

From: Scott Homsted <scott.homsted@krebsandlansing.com>
Sent: Friday, September 19, 2025 2:37 PM
To: Haenke, Brodie <brodie.haenke@vermont.gov>
Cc: Benjamin Avery <ben@greenfieldgrowthllc.com>; Purcell, Terry <terry.purcell@vermont.gov>
Subject: The "H" at Malletts Bay

Hi Brodie,

I am writing in regard to a project located across from the Hazelett facility in Malletts Bay, Colchester. The applicant proposes a redevelopment of the Hazelett waterfront parcels located at 166 and 180 West Lakeshore Drive, entitled "The H at Malletts 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 is a main building with a 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 to the cottages/main building. New parking and a support building will be constructed across the street at 135 West Lakeshore Drive.

The stormwater design is complex, as it involves site balancing and 3-acre requirements for the existing parcel at 135 West Lakeshore Drive. The Town of Colchester has requested documentation that the use of site balancing is appropriate for this project. I have attached an Engineering Feasibility Analysis outlining the design strategy for the site and why site balancing is appropriate. I've also attached plans showing the "types" (new, redeveloped etc.) of impervious surface at the site, and the proposed site plans.

At this point, we are only looking for concurrence that site balancing is appropriate. We will follow up with full design materials and an application in the near future.

Please let me know if you would like to discuss or hop on a videoconference. Thanks for your help!

Scott

Scott Homsted, P.E.
Krebs & Lansing Consulting Engineers, Inc.
164 Main Street
Colchester, Vermont 05446
O: (802) 878-0375
Scott.Homsted@krebsandlansing.com

WQv Modeling

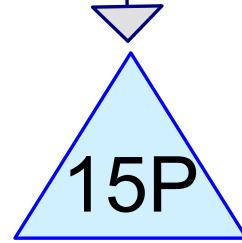
WQv



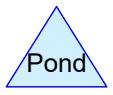
Forebay



H-Post1



Gravel Wet#1



Routing Diagram for The-H

Prepared by Krebs & Lansing Consulting Engineers, Inc., Printed 3/3/2025
HydroCAD® 10.00 s/n 06429 © 2013 HydroCAD Software Solutions LLC

Project Notes

The H at Malletts Bay
Post Development Stormwater Model

Summary for Subcatchment 5S: H-Post1

Runoff = 3.19 cfs @ 12.04 hrs, Volume= 0.189 af, Depth= 0.56"

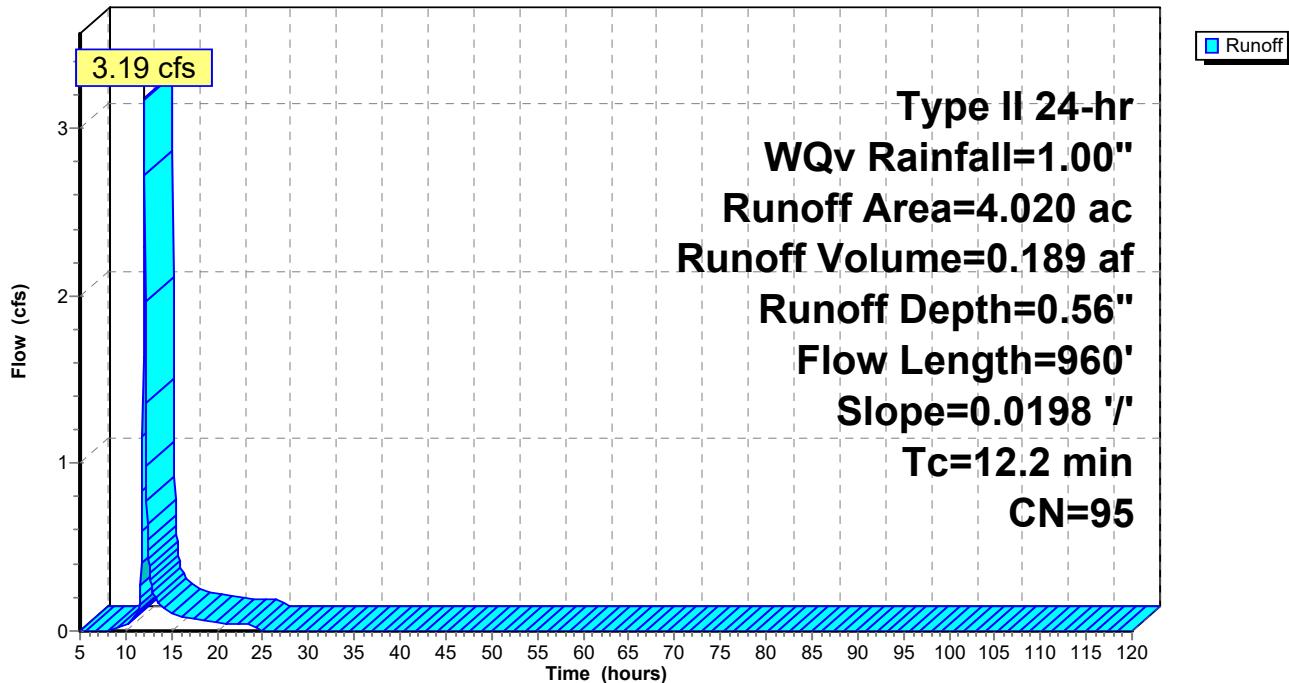
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-120.00 hrs, dt= 0.05 hrs
Type II 24-hr WQv Rainfall=1.00"

Area (ac)	CN	Description
* 4.020	95	watershed area
4.020		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	960	0.0198	1.31		Lag/CN Method, lag CN

Subcatchment 5S: H-Post1

Hydrograph



Summary for Pond 15P: Gravel Wet#1

Inflow Area = 4.020 ac, 0.00% Impervious, Inflow Depth = 0.56" 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	Invert	Avail.Storage	Storage Description
#1	122.33'	3,168 cf	Custom Stage Data (Prismatic) Listed below (Recalc) 7,920 cf Overall x 40.0% Voids
#2	125.33'	177 cf	Custom Stage Data (Prismatic) Listed below (Recalc) 1,769 cf Overall x 10.0% Voids
#3	126.00'	14,045 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
			17,390 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
122.33	2,640	0	0
125.33	2,640	7,920	7,920

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
125.33	2,640	0	0
126.00	2,640	1,769	1,769

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
126.00	2,640	0	0
127.00	4,354	3,497	3,497
128.00	5,260	4,807	8,304
129.00	6,222	5,741	14,045

Device	Routing	Invert	Outlet Devices
#1	Primary	125.67'	15.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 125.67' / 125.33' S= 0.0170 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#2	Device 1	125.67'	2.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	127.30'	30.0" W x 6.0" H Vert. Orifice/Grate C= 0.600

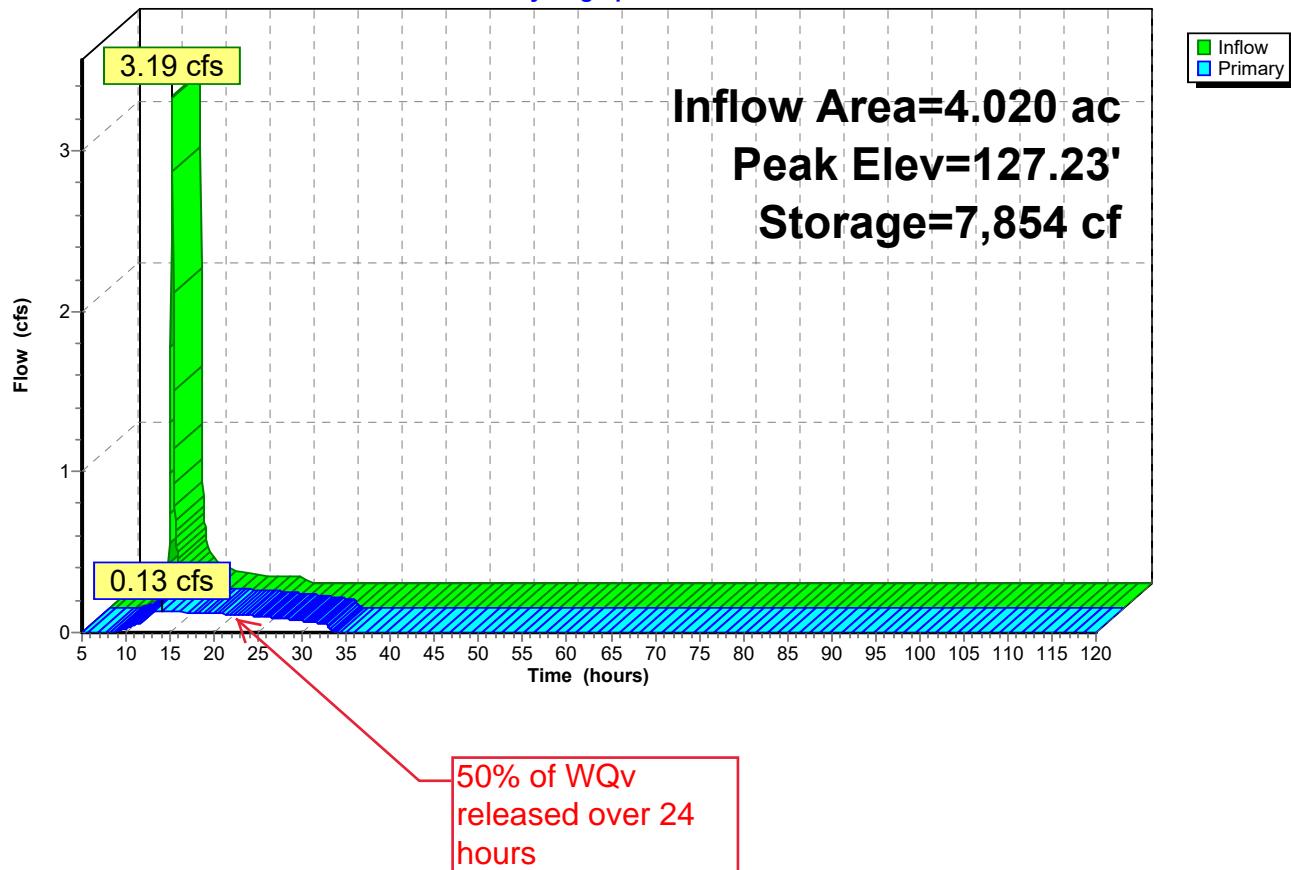
Primary OutFlow Max=0.13 cfs @ 14.13 hrs HW=127.23' (Free Discharge)

↑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)

50% of WQv in
stone voids

Pond 15P: Gravel Wet#1**Hydrograph**

Summary for Pond 263P: Forebay

Volume	Invert	Avail.Storage	Storage Description
#1	123.00'	1,096 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
123.00	96	0	0
124.00	244	170	170
125.00	449	347	517
126.00	710	580	1,096

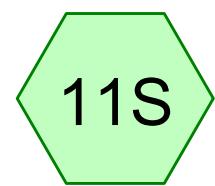
10% of WQv in
forebay

25 Year Storm
Modeling

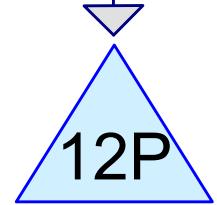
25Yr



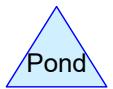
H-Pre1



H-Post1



Gravel Wet#1



Routing Diagram for The-H

Prepared by Krebs & Lansing Consulting Engineers, Inc., Printed 3/3/2025
HydroCAD® 10.00 s/n 06429 © 2013 HydroCAD Software Solutions LLC

Project Notes

The H at Malletts Bay
Post Development Stormwater Model

Summary for Subcatchment 11S: H-Post1

Runoff = 14.34 cfs @ 12.06 hrs, Volume= 0.950 af, Depth> 2.84"

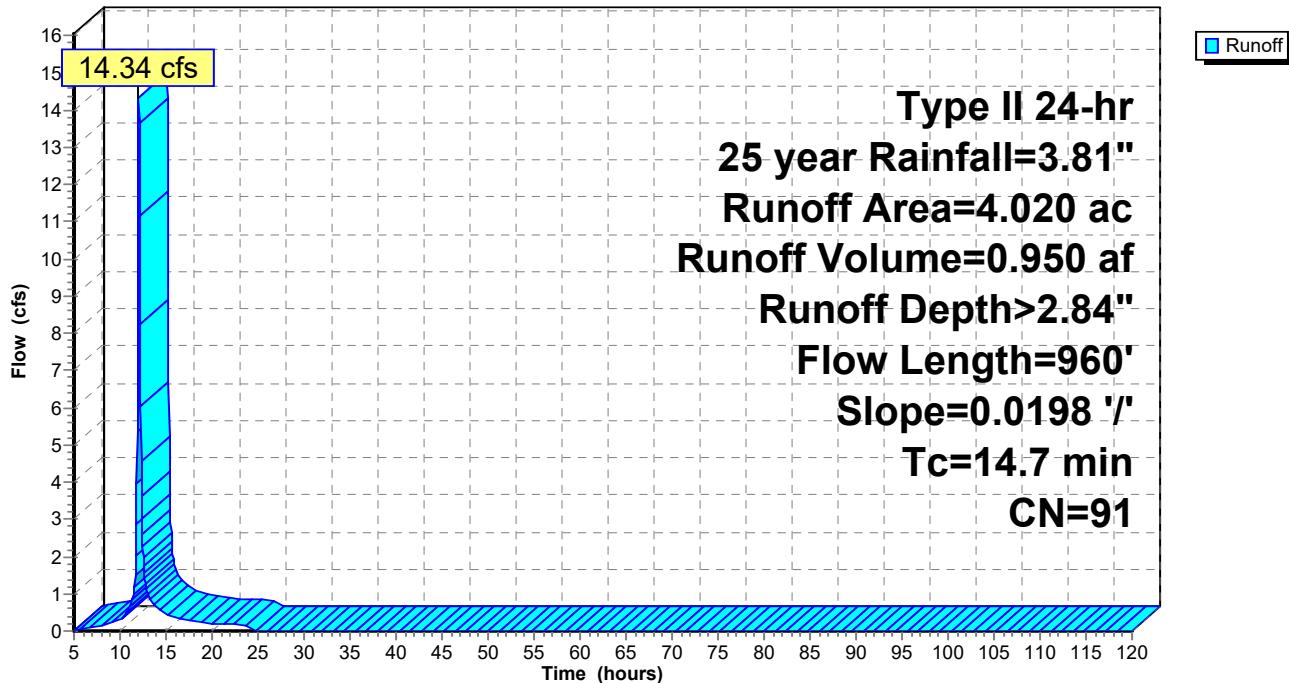
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-120.00 hrs, dt= 0.05 hrs
Type II 24-hr 25 year Rainfall=3.81"

Area (ac)	CN	Description
* 4.020	91	watershed area
4.020		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.7	960	0.0198	1.09		Lag/CN Method, lag CN

Subcatchment 11S: H-Post1

Hydrograph



Summary for Subcatchment 14S: H-Pre1

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

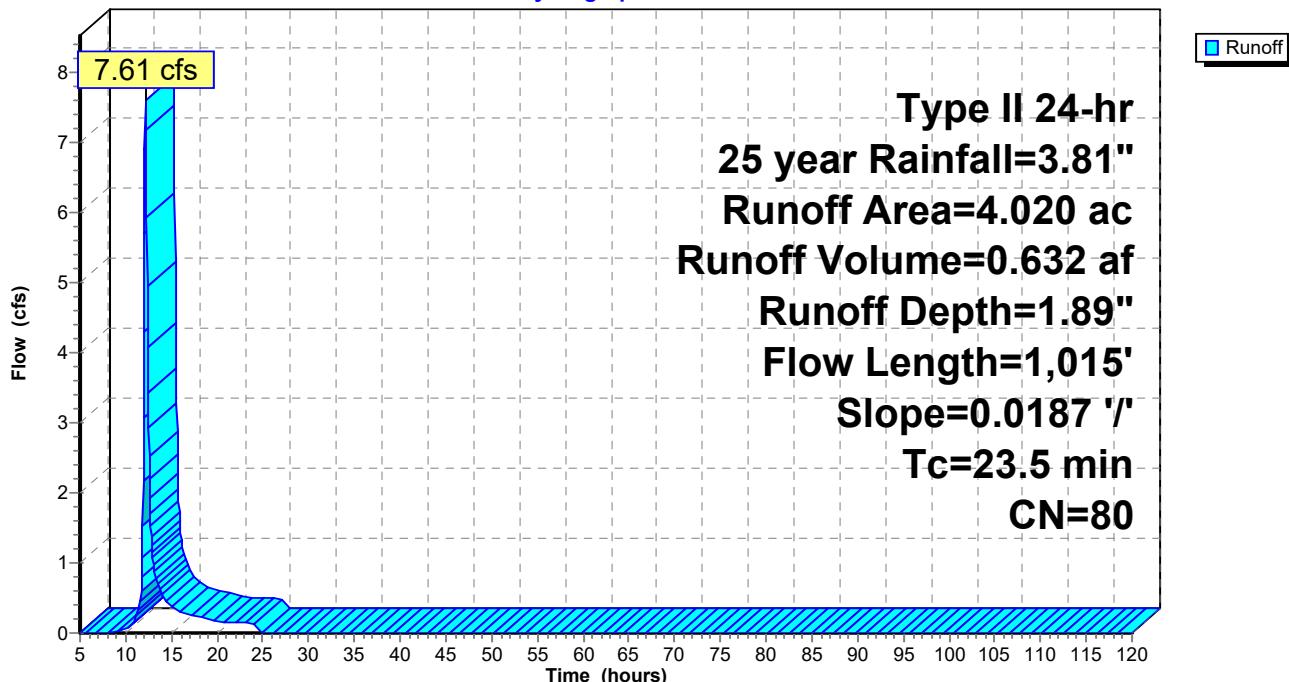
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-120.00 hrs, dt= 0.05 hrs
Type II 24-hr 25 year Rainfall=3.81"

Area (ac)	CN	Description
* 4.020	80	watershed area
4.020		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.5	1,015	0.0187	0.72		Lag/CN Method, lag CN

Subcatchment 14S: H-Pre1

Hydrograph



Summary for Pond 12P: Gravel Wet#1

Inflow Area = 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.Storage	Storage Description
#1	122.33'	3,168 cf	Custom Stage Data (Prismatic) Listed below (Recalc) 7,920 cf Overall x 40.0% Voids
#2	125.33'	177 cf	Custom Stage Data (Prismatic) Listed below (Recalc) 1,769 cf Overall x 10.0% Voids
#3	126.00'	14,045 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
			17,390 cf Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
122.33	2,640	0	0
125.33	2,640	7,920	7,920

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
125.33	2,640	0	0
126.00	2,640	1,769	1,769

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
126.00	2,640	0	0
127.00	4,354	3,497	3,497
128.00	5,260	4,807	8,304
129.00	6,222	5,741	14,045

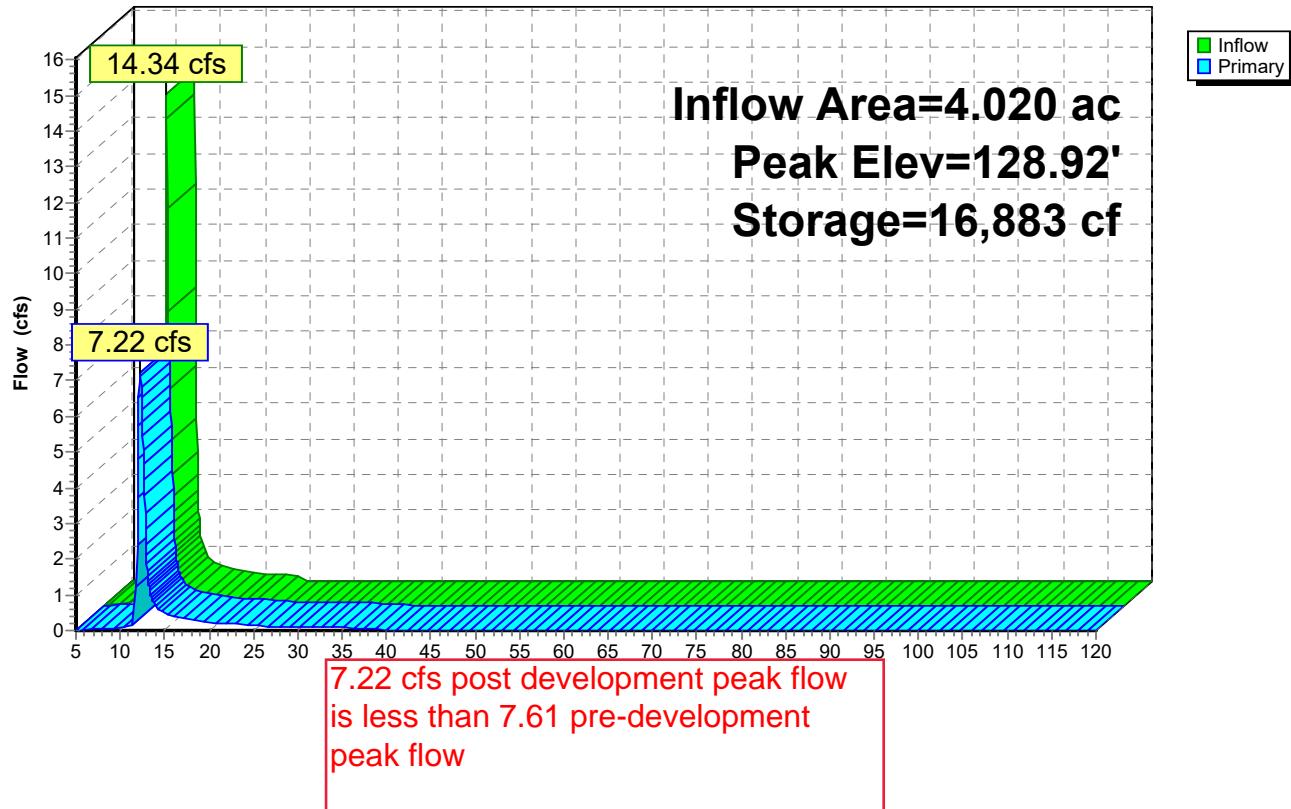
Device	Routing	Invert	Outlet Devices
#1	Primary	125.67'	15.0" Round Culvert L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 125.67' / 125.33' S= 0.0170 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#2	Device 1	125.67'	2.0" Vert. Orifice/Grate C= 0.600
#3	Device 1	127.30'	30.0" W x 6.0" H Vert. Orifice/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**Hydrograph**

Vermont Operational Stormwater Permit - Standards Compliance Workbook

General Discharge Point Information

Project name	The H at Mallets Bay		
Discharge point serial number (e.g. S/N 001)	S/N 001		
Name of receiving water	Lake Champlain		
Latitude (decimal degrees to five decimal places)	44.54664		
Longitude (decimal degrees to five decimal places)	-73.21928		

Precipitation Data

* Precipitation values shall be obtained from [NOAA Atlas 14](#)

Storm	WQ Storm	1 yr, 24 hr	10 yr, 24 hr	100 yr, 24 hr
Precipitation (inches)	1.00	1.87	3.19	4.76

Drainage Area Information

Pre Development Land Use (acres)

Landuse	A	B	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 authorized under 2002 VSMM (not included in calculations)					0.000
Total Pre Site Area					4.020

Post Development Land Use (acres)

Landuse	A	B	C	D	Total	%
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	
New Impervious	0.000	0.000	0.000	1.145	1.145	28.5%
Existing for Permit Coverage (Treated to New Standards)	0.000	0.000	0.000	1.025	1.025	25.5%
Existing Impervious Not for Permit Coverage					0.000	0.0%
Redeveloped Impervious					0.000	0.0%
Impervious previously authorized under 2002 VSMM					0.000	
Total Site Area					4.020	
Total Impervious for Permit Coverage					2.170	
Net Reduced Impervious					0.000	0.0%
Reduced Existing Impervious (for redevelopment)					0.000	0.0%

Information for Calculating T_c by the Watershed Lag Method

	Average Catchment Slope, Y (%)	Hydraulic Length, l (ft)
Pre Development	1.87	1015.00
Post Development	1.98	960.00

Vermont Operational Stormwater Permit - Standards Compliance Workbook

Runoff Calculations	1 yr, 24-hr	10 yr, 24-hr	100 yr, 24-hr
Predevelopment runoff volume (ac-ft)	0.2616	0.6006	1.0564
Pre-routed, post development runoff volume (ac-ft)	0.3723	0.7498	1.2319

Tier 1/Runoff Reduction Practices

List all Tier 1 practices below with the associated treatment volume (T_V). The T_V will be applied to all treatment standards, except for Green Roofs, which do not receive recharge or water quality credit. Please include the appropriate STP worksheet(s) with the application.

Practice	T_V (ac-ft)	Practice	T_V (ac-ft)
Simple Disconnection	0.003		

Runoff Reduction Calculations

Standard	Re	WQ	CP	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

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?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Reason recharge not required (if No is selected):	HSG D Soils
Re_V	0.0000		
Standard met with Tier 1 Practices?	n/a		
Recharge Notes:			

Vermont Operational Stormwater Permit - Standards Compliance Workbook

Water Quality Treatment Standard (WQ)

	(ac-ft)	Apply Reduction?
WQ _V - New & Existing	0.1795	% Net Reduction <input type="text" value="0.0%"/> <input checked="" type="radio"/> No <input type="radio"/> Yes
WQ _V - Redevelopment	0.0000	% Removed Existing Impervious (Redevelopment) <input type="text" value="0.0%"/> <input checked="" type="radio"/> No <input type="radio"/> Yes
Total WQ _V	0.1795	
WQ _V met with Tier 1 practices	0.0029	Is all impervious treated by disconnection? <input checked="" type="radio"/> No <input type="radio"/> Yes (WQ _V met)
WQ _V to be met with Tier 2 and/or Tier 3 practices	0.1766	

NOTE: Please include a copy of the appropriate STP worksheet(s) with the application.

Tier 2 & 3 Water Quality Practice	WQ _V Provided (ac-ft)	Tier
Gravel Wetland	0.1795	Tier 2
Total WQ _V Provided (ac-ft)	0.1795	ac-ft
Is the WQ _V Standard met?	Yes	

Water Quality Notes:

Channel Protection Standard (CP)

Standard Applicable? <input type="radio"/> Yes <input checked="" type="radio"/> No	Waiver (if No is selected): Direct discharge to drainage area \geq 10 sq.mi
Standard Met with HCM? No	<i>The channel protection standard has not been fully met. Either increase T_v credit to fully meet HCM or provide extended detention.</i>
Provide Extended Detention for: ac-ft	
Warm or Cold Water Fishery? <input checked="" type="radio"/> Cold <input type="radio"/> Warm	→
See the Vermont Water Quality Standards for warm and cold water designations	Provide: 12 hours of extended detention
Extended Detention STP:	OR <input type="checkbox"/> The Alternative Extended Detention Method (§2.2.5.4) is being used.

Modeling Info: When demonstrating CP compliance with extended detention in a hydrologic model, use the CN and T_c below if the practice being modelled is not 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'.

CN _{Adj}	92	Post Development T _c (min)	14.3	(Watershed Lag Method)
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Channel Protection Notes:

Vermont Operational Stormwater Permit - Standards Compliance Workbook

Overbank Flood Protection (Q_{P10})

Standard Applicable?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Waiver (if No is selected):	Direct discharge to drainage area ≥ 10 sq.mi										
Standard Met with HCM?	No	<i>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.</i>											
STP used:													
Pre-development peak discharge rate (cfs)													
Pre-routed, post-development peak discharge rate (cfs)													
Routed, post-development peak discharge rate (cfs)													
<p><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'.</p> <table border="1"> <tr> <td>Pre-Development CN (Flow-weighted composite)</td> <td>86</td> <td>Pre Development T_c (min)</td> <td>19.5</td> <td>(Watershed Lag Method)</td> </tr> <tr> <td>CN_{Adj}</td> <td>91</td> <td>Post Development T_c (min)</td> <td>14.8</td> <td></td> </tr> </table>				Pre-Development CN (Flow-weighted composite)	86	Pre Development T _c (min)	19.5	(Watershed Lag Method)	CN _{Adj}	91	Post Development T _c (min)	14.8	
Pre-Development CN (Flow-weighted composite)	86	Pre Development T _c (min)	19.5	(Watershed Lag Method)									
CN _{Adj}	91	Post Development T _c (min)	14.8										
Overbank Flood Notes:													

Extreme Flood Protection (Q_{P100})

Standard Applicable?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Waiver (if No is selected):	<10 acres impervious										
Standard Met with HCM?	No	<i>The extreme standard has not been fully met. Provide additional STPs to ensure post development peak runoff does not exceed pre development peak runoff for the 100 yr, 24 hour storm event.</i>											
STP used:													
Pre-development peak discharge rate (cfs)													
Pre-routed, post-development peak discharge rate (cfs)													
Routed, post-development peak discharge rate (cfs)													
<p><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'.</p> <table border="1"> <tr> <td>Pre-Development CN (Flow-weighted composite)</td> <td>85</td> <td>Pre Development T_c (min)</td> <td>19.9</td> <td>(Watershed Lag Method)</td> </tr> <tr> <td>CN_{Adj}</td> <td>90</td> <td>Post Development T_c (min)</td> <td>15.2</td> <td></td> </tr> </table>				Pre-Development CN (Flow-weighted composite)	85	Pre Development T _c (min)	19.9	(Watershed Lag Method)	CN _{Adj}	90	Post Development T _c (min)	15.2	
Pre-Development CN (Flow-weighted composite)	85	Pre Development T _c (min)	19.9	(Watershed Lag Method)									
CN _{Adj}	90	Post Development T _c (min)	15.2										
Extreme Flood Notes:													

STP Selection Matrix

Version 5/8/2017

Project Name:	The H at Mallets Bay
Discharge Point:	1

Step 1: Is the Water Quality Treatment Standard entirely managed with one or more of the following Tier 1 practices?

Infiltration Basins/ Trenches/ Chambers
Drywells
Bioretention (designed to infiltrate)
Filters (designed to infiltrate)
Reforestation¹

Simple Disconnection
Disconnection to Filter Strips and Vegetated Buffers
Dry Swales (designed to infiltrate)
Permeable Pavement¹

Yes No

Proceed to Step 2

1. These practices do not require specific justification due to feasibility limitations

Step 2: Assess the feasibility of using Tier 1 Practices

Complete the matrix below in its entirety for each drainage 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 Treatment? 		Not Feasible	Not Feasible	Not Feasible	Yes	Yes	Not Feasible	Not Feasible
Feasibility Restriction	Response	Practice Availability Based on Restrictions						
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?	<input checked="" type="radio"/> Yes <input type="radio"/> 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?	<input type="radio"/> Yes <input checked="" type="radio"/> 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?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Available	Available	Available	Available	Available	Available	Available
Is the slope of the vegetated buffer greater than 15%	<input type="radio"/> Yes <input checked="" type="radio"/> No	n/a	n/a	n/a	Available	Available	n/a	n/a
Is the slope of the filter strip greater than 15%	<input type="radio"/> Yes <input checked="" type="radio"/> No	n/a	n/a	n/a	Available	n/a	n/a	n/a
Is the slope of the vegetated buffer greater than 8%	<input type="radio"/> Yes <input checked="" type="radio"/> 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%	<input type="radio"/> Yes <input checked="" type="radio"/> No	Available	n/a	Available	n/a	n/a	Available	Available
Bottom of practice would be below seasonal high water table	<input type="radio"/> Yes <input checked="" type="radio"/> No	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.	<input type="radio"/> Yes <input checked="" type="radio"/> 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.	<input type="radio"/> Yes <input checked="" type="radio"/> No	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?	<input type="radio"/> Yes <input checked="" type="radio"/> No	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?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Available	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?	<input type="radio"/> Yes <input checked="" type="radio"/> No	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?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Available	Available	Available	n/a	n/a	Available	Available
Will the practice be located within 200 feet of non-transient non-community groundwater source?	<input type="radio"/> Yes <input checked="" type="radio"/> No	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?	<input type="radio"/> Yes <input checked="" type="radio"/> No	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?

Yes No

Stop. No further justification is needed.

If 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 1 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 feasibility justification below or list attachments

Treatment Wetlands (4.3.5)

Project Name: Hazelett

Discharge Point: S/N 001

Treatment Wetland #1

Practice Drainage Area		For Permit Coverage	Not for Permit Coverage	Total to 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 value on the Standards

Compliance Workbook

5	Practice Type	<input type="radio"/> Shallow surface wetland <input checked="" type="radio"/> Gravel wetland
6	Discharges to Cold or Warm Water Fishery?	<input checked="" type="radio"/> Cold <input type="radio"/> Warm

Note: Designers may use the Practice Drainage Area Runoff Calculator (second tab) for calculation of practice-specific 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?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Plan Sheet C-2.1
8	Has a low for orifice been provided to meet the the WQ _V and CP _V extended	<input checked="" type="radio"/> Yes <input type="radio"/> No	Detail Sheet CD-6
9	Have the outfalls and the conveyance to the discharge point been designed and protected to avoid erosion?	<input checked="" type="radio"/> Yes <input type="radio"/> 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	<input checked="" type="radio"/> Yes <input type="radio"/> No	Detail Sheet CD-6
11*	Have inlet pipes been set at the permanent pool or the base of the gravel bed?	<input checked="" type="radio"/> Yes <input type="radio"/> 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?	<input checked="" type="radio"/> Yes <input type="radio"/> 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?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Detail CD-6

Pre-Treatment (4.3.6.3)		Response	Attachment location
14	Has pretreatment been provided for non-rooftop runoff?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Sheet C-2.1

15	What type of pretreatment is being used?	<input type="checkbox"/> Swale <input checked="" type="checkbox"/> Forebay (10% WQ _V) <input type="checkbox"/> Proprietary <input type="checkbox"/> Filter Strip <input type="checkbox"/> Deep Sump Catch Basins	
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	Treatment (4.3.6.4)	Response	Attachment location
16	What is the volume stored in the forebay or other volumetric pre-treatment if used? (minimum 10% WQ _V)	ft ³ 782	N/A
17	What is the volume stored in the permanent pool?	ft ³ 3149	WQ _V Modeling
18	What is the total WQ _V stored at the normal water level (pre-treatment + permanent pool)?	ft ³ 3931	WQ _V Modeling
19*		<input type="radio"/> Yes <input checked="" type="radio"/> No	
20*		<input type="radio"/> Yes <input type="radio"/> No	
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?	<input checked="" type="radio"/> Yes <input type="radio"/> No	N/A
23	Has a minimum flow path at normal water level of 3:1 been provided?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Plan Sheet C-2.1
24	What is the Storage Volume of the practice. Include the permanent pool and any volume used for providing extended detention.	ac-ft 0.0547	Enter this on the eNOI

	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?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Plan Sheet C-2.1
26	Has an aquatic been provided that extends at least 5 feet inward from the normal water edge and is no more than 18 inches deep?	<input checked="" type="radio"/> Yes <input type="radio"/> 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?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Detail CD-6
28	Has a setback been provided that extends 25 feet from the maximum design water surface elevation of the practice?	<input checked="" type="radio"/> Yes <input type="radio"/> 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?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Detail CD-6
30	Are any donor organic soils used in the practice obtained from a source other than natural wetlands?	<input checked="" type="radio"/> Yes <input type="radio"/> No	N/A

Attachment location: 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

Simple Disconnection (4.2.2)

Project Name: The H at Mallets Bay

Discharge Point: 1

Disconnection Area #: 1

Disconnected Area		For Permit Coverage	Not for Permit Coverage	Total to Practice	
1	Total Area (acres)	0.070	0.000	0.070	
2	Impervious (acres)	0.035	0.000	0.035	
		WQ _V for credit	WQ _V not for credit	Total WQ _V	
3	WQ _V to practice	0.0029	0.0000	0.0029	Modified CN for WQ _V (1.0") storm 94
4	Disconnected Area Type	<input type="checkbox"/> >10 ft, or conveyed by downspout <input checked="" type="checkbox"/> 10 ft contributing length or less			

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

Feasibility (4.2.2.1)		Response	Attachment location
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?		<input checked="" type="radio"/> Yes <input type="radio"/> No	Sidewalk/RecPath
6*		<input type="radio"/> Yes <input checked="" type="radio"/> No	
7*		<input type="radio"/> Yes <input checked="" type="radio"/> No	
8	Do the underlying soils of the disconnection area meet the Post-Construction Soil Depth and Quality Standard?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
9*		<input type="radio"/> Yes <input checked="" type="radio"/> No	
10*	Is the maximum flow path length from the contributing impervious area 10 feet or less?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
11	Are disconnection areas configured such that there is no overlap between adjacent disconnection areas?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
12	Is the maximum slope of the disconnection area no steeper than 15%?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
13	For sites with septic systems, is the disconnection flow path cross-gradient or down-gradient of the leachfield?	<input type="radio"/> Yes <input checked="" type="radio"/> No	NA

Conveyance (4.2.2.2)		Response	Attachment location
14	Is the runoff conveyed as sheet flow across the disconnection area for the applicable design storms and prevented from channelizing?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
15	Is the disconnection surface directed away from buildings so as to protect foundations and basements?	<input checked="" type="radio"/> Yes <input type="radio"/> No	

16*		<input type="radio"/> Yes <input type="radio"/> No	
17*		<input type="radio"/> Yes <input type="radio"/> 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?	<input checked="" type="radio"/> Yes <input type="radio"/> No	

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?	<input checked="" type="radio"/> Yes <input type="radio"/> 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	acres	0.00
21*	$f_c \geq 1 \text{ in/hr}$ for $T_V = HC_V$ $f_c \geq 0.5 \text{ in/hr}$ for $T_V = WQ_V$ $f_c < 0.5 \text{ in/hr}$ for $T_V = WQ_V$	<input type="radio"/> A <input type="radio"/> A/B <input type="radio"/> C/D	
22*		<input type="radio"/> <8% <input type="radio"/> 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 ≤ 10 ft 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?		<input checked="" type="radio"/> <8% <input type="radio"/> 8-15%
29*	Is the disconnection area on A soils ($f_c \geq 1 \text{ in/hr}$)?		<input type="radio"/> Yes <input checked="" type="radio"/> 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-ft)	127.05	
34	What is the treatment volume provided by the STP?	T_V (ac-ft)	0.0029	

↑ Enter this value on the Standards Compliance Worksheet

Treatment (4.2.2.4)		Response	Attachment location
35*		<input type="radio"/> Yes <input type="radio"/> No	

Landscaping (4.3.2.5)		Response	Attachment location
36	Is a dense vegetative cover specified for the disconnection area on the plan sheet/detail sheet?	<input checked="" type="radio"/> Yes <input type="radio"/> No	

Attachment location: 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 each discharge point in which use of this waiver is sought.

Channel Protection Standard (CP_V) 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):

Guidance: "Pre-routed post development discharge" means the runoff after development, including post-development 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.

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.

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.

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?

Yes No

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

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 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 each discharge point in which use of this waiver is sought.

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

1. 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 Point (square miles): 8234

2. The impervious on site or otherwise associated within a common plan of development, constructed 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 verified?

Yes No

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

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/N 002 may be still eligible for Waiver 1.