# Town of Brewster Planning Board 

2198 Main St., Brewster, MA 02631

brewplan@brewster-ma.gov
(508) 896-3701 x1133

## meeting Agenda

2198 Main Street
April 10, 2024 at 6:30 PM

| Planning Board | This meeting will be conducted in person at the time and location identified above. This means that at least a quorum of the members of the public body will attend the meeting in person and members of the public are |
| :---: | :---: |
| Amanda Bebrin, Chair | welcome to attend in person as well. As a courtesy only, access to the meeting is also being provided via remote means in accordance with applicable law. Please note that while an option for remote attendance |
| Alexander Wentworth | and/or participation is being provided as a courtesy to the public, the meeting/hearing will not be suspend |
| Vice Chair | or terminated if technological problems interrupt the virtual broadcast or affect remote attendance or participation, unless otherwise required by law. Members of the public with particular interest in any specific |
| Robert Michaels Clerk | item on this agenda, which includes an applicant and its representatives, should make plans for in-person vs. virtual attendance accordingly. |
| Charlotte Degen | Members of the public who wish to access the meeting may do so in the following manner: |
| Madalyn Hillis-Dineen | Phone: Call (312) 626-6799 or (301) 715-8592. Webinar ID: 8410778 1002. Passcode: 612505. To request to speak: Press ${ }^{9}$ and wait to be recognized. |
| Antone Freitas | Zoom Webinar: https://us02web.zoom.us/i/84107781002?pwd=VTVSV1ExaUNCL253NmNZV21Gdm04dz09 Passcode: 612505. To request to speak: Tap Zoom "Raise Hand", then wait to be recognized. |
| Elizabeth Taylor | When required by law or allowed by the Chair, persons wishing to provide public comment or otherwise participate in the meeting, may do so by accessing the meeting remotely, as noted above. Additionally, the meeting will be broadcast live, in real time, via Live broadcast (Brewster Government TV Channel 18), Livestream (livestream.brewster-ma.gov), or Video recording (tv.brewster-ma.gov). |
| Town Planner Jonathon Idman | The Planning Board packet can be found on the Calendar on the Town of Brewster website (www.brewsterma.gov). Please note that the Planning Board may take official action, including votes, on any item on this |
| Senior Department | agenda. |
| Lynn St. Cyr | 1. Call to Order. <br> 2. Declaration of a Quorum. <br> 3. Meeting Participation Statement. <br> 4. Recording Statement. As required by the Open Meeting Law we are informing you that the Town will be video and audio taping as well as broadcasting this public meeting. In addition, if anyone else intends to either video or audio tape this meeting they are required to inform the Chair. <br> 5. Public Announcements and Comment. Members of the public may address the Planning Board on matters not on the meeting's agenda for a maximum of 3-5 minutes at the Chair's discretion. The Planning Board will not reply to statements made or answer questions raised during public comment but may add items presented to a future agenda. <br> PUBLIC HEARINGS: <br> 6. Special Permit and Site Plan Review Case No. 2024-04: Applicant/Owner: The Free Sea Turtle, LLC, Paul Wallace, Manager, has applied for Site Plan Review under Brewster Zoning Bylaw Article XII for a new commercial development on an undeveloped lot, and a Special Permit under Brewster Zoning Bylaw Section 179-51 for uses including building and construction trade shop or garage and a full-service restaurant, at 162 Underpass Road (Tax Map 77 Parcel 9), located within the Commercial High Density (CH) Zoning District. The Planning Board will consider and potentially vote whether to grant the Special Permit and Site Plan Approval. |



## Planning Board

Amanda Bebrin, Chair

Alexander Wentworth Vice Chair

Robert Michaels Clerk

Charlotte Degen

Madalyn Hillis-Dineen
Antone Freitas
Elizabeth Taylor

Town Planner
Jonathon Idman

Senior Department
Assistant
Lynn St. Cyr
7. Special Permit and Site Plan Review Case No. 2024-05: Applicant/Owner: 162 Underpass LLC, Charles Whitcomb III, Manager, has applied for Site Plan Review under Brewster Zoning Bylaw Article XII for a new commercial development on an undeveloped lot, and a Special Permit under Brewster Zoning Bylaw Section 179-51 for uses including building and construction trade shop or garage and (1) accessory commercial dwelling unit, at Underpass Road (Tax Map 77 Parcel 10 and 60), located within the Commercial High Density (CH) Zoning District. The Planning Board will consider and potentially vote whether to grant the Special Permit and Site Plan Approval.
8. Approval of Meeting Minutes: March 27, 2024.
9. Committee Reports.
10. For Your Information.
11. Matters Not Reasonably Anticipated by the Chair.
12. Next Meetings: April 24, 2024 and May 8, 2024.
13. Adjournment.

Date Posted:
Date Revised:
Received by Town Clerk:
04/03/24


# SPECIAL PERMIT AND SITE PLAN REVIEW CASE NO. 2024-04 

## APPLICANT/OWNER: THE FREE SEA TURTLE, LLC PAUL WALLACE, MANAGER

# PROPERTY: 162 UNDERPASS ROAD (MAP 77 PARCEL 9) 

## AND

SPECIAL PERMIT AND SITE PLAN REVIEW CASE NO. 2024-05

APPLICANT/OWNER: 162 UNDERPASS LLC CHARLES WHITCOMB III, MANAGER

PROPERTY: 0 UNDERPASS ROAD (MAP 77 PARCEL 10\&60)

## CASE NO. 2024-04 AND CASE NO. 2024-05 DOCUMENTS FOR BOTH APPLICATIONS

# J.M. O'Reilly \& Associates, Inc. 

Professional Engineering, Land Surveying © Environmental Services

Site Development • Property Line • Subdivision • Sanitary • Land Court • Environmental Permitting

February 1, 2024
JMO-6125A
Revised March 29, 2024
Brewster Planning Board
2198 Main Street
Brewster, MA 02631

## RE: Site Plan Review and Special Permit Application

The Free Sea Turtle LLC - Lot 1, 162 Underpass Road, Assessor Map 77, Parcel 9
162 Underpass LLC - Lots 2-3, 0 Underpass Road, Assessor Map 77, Parcel 10 \& 60

Dear Board Members,

On behalf of our clients, The Free Sea Turtle, LLC and 162 Underpass LLC, J.M O'REILLY \& ASSOCIATES, INC. is submitting the two applications for a Site Plan Review with Special Permit for the proposed construction of commercial buildings on the two separate properties as referenced above. In conjunction with the Site Plan and Special Permit applications we are submitting separate Stormwater Permit Applications, for each parcel for the proposed drainage improvements.

The enclosed plan set includes a Site Plan showing both parcels (Lot 1 and Lot 2-3) along with the details and notes. The site plan addresses the zoning, parking, grading, fire access and drainage of both parcels. The plan set also includes separate DRAFT sewage system plans for each property. The owners have worked with Phillip Cheney, Landscape Architect, for the landscape plans for both parcels, which are also enclosed. Lastly, we have enclosed an emergency swept path plan showing the appropriate vehicle turnaround within the property.

The following narrative should be used to outline the proposed projects.

## HISTORY AND EXISTING CONDITIONS - BOTH PARCELS:

The parcels involved are currently vacant. The previous single-family dwelling on what is now Lot 1 has been removed. Over the past year and a half, the two LLCs have worked with the Brewster Conservation Commission and Town of Brewster Planning Department to begin the development of the former 162 Underpass Road site.

The former 162 Underpass Road parcel was subject to an Order of Conditions (SE 9-1920) to allow the site cleanup of the former contractor's yard (Peter's Excavating). The Order of Conditions delineated a limit of future disturbance to 55 feet from the wetland resource. The 55 -foot setback allowed for the site cleanup to occur while protecting the resource areas.

In the process of the site cleanup, the required excavation expanded beyond the original scope of the Order of Conditions. As a result of the existing site conditions, both LLCs sought and obtained an Amended Order of Conditions (AOOC SE 9-1920), Spring 2023. Along with the Amended Order of Conditions, the owners sought and obtained a stormwater permit which in turn along with the AOOC allowed for the additional clearing and excavation as needed. The stormwater permit was limited to site grading and excavating as the required disturbed areas exceeded the limitations outlined in the Stormwater Regulations permit thresholds. The Commission granted the Stormwater Permit to allow the site cleanup to continue and be completed, (SWMC2023-01).

The clean-up of the site is just about complete and now the owners are looking to begin the development of both parcels. This past Fall Lot 2-3 (162 Underpass LLC) sought and obtained an Order of Conditions to construct the proposed commercial bay building with a two (2) bedroom apartment. Brewster Project Number OOC SE 9-1962 for the Commission's approval.

## NARRATIVE \& PROJECT DESCRIPTION:

As an aid to the Board's review, we offer the following points of information for your consideration:

## Wetland Resources:

Please refer to the Orders of Conditions (OOC SE 9-1962) for the wetland resource information. The Lot 2-3 site borders on a Bordering Vegetated Wetland (BVW), to the north. Please refer to the Site Plan for the location of the flagging and edge of wetland resources.

## Massachusetts Endangered Species Program:

- The parcel is not within a mapped area for endangered species as defined under the Natural Heritage Program.


## Zoning:

District:

- The parcels fall within the zoning district of the Commercial High-Density District (CH).


## Use:

The project includes the following uses under the Town of Brewster Table 1 Use Regulations.

- Lot 1-162 Underpass Road
- Commercial Uses
- Use item \#3, Antique shop, art gallery. (Permitted use).
- Use item \#9, Business offices and services (Permitted use).
- Use item \#21, Gift shop. (Permitted use).
- Use item \#28, Personal service establishment. (Permitted use).
- Use item \#31, Repair services. (Permitted use).
- Use item \#33, Restaurant - Full Service and lounge. (Special Permit)
- Use item \#35, Retail store. (Permitted Use).
- Use item \#36, Row Commercial. (Permitted use).
- Lot 2-3-0 Underpass Road
- Wholesale, manufacturing and industrial uses:
- Use item \#1, Building and construction trades shop or garage. (Special Permit).
- Commercial Uses:
- Use item \#40, Storage of materials for a business, including but not limited to pipes, mulch, small or heavy equipment. (Permitted use).
" Use item \#41, Storage of more than 2 commercial vehicles. (Permitted use).
- Residential Uses:
- Use item \#11, One-family security dwelling. (Permitted use).


## Dimensional Requirements:

## Lot 1-162 Underpass Road

- Area
- Lot Area $-40,000$ sf is required ( 44,200 sf provided - for Row Commercial)
- Frontage
- 150 feet of frontage is required ( 170.00 feet provided)
- Setbacks
- Front 30 feet is required ( 49.8 feet provided)
- Side 20 feet is required ( 21 feet provided to the south)
- Rear 20 feet is required ( 152 feet provided)
- Coverage:
- $40 \%$ Maximum Building Coverage is required ( $9.1 \%$ provided)


## Lot 2-3-0 Underpass Road

- Area
- Lot Area $-40,000 \mathrm{sf}$ is required ( 64,989 sf provided)
- Frontage
- 150 feet of frontage is required ( 160.00 feet provided)
- Setbacks
- Front 30 feet is required ( 69.9 feet provided)
- Side 20 feet is required ( 48.1 feet provided to the south)
- Rear 20 feet is required ( 54.2 feet provided)
- Coverage:
- 40\% Maximum Building Coverage is required ( 8.3 \% provided)


## Proposed Project Description - Lot 1; 162 Underpass Road:

The project is to construct one commercial building. The building will be metal framed building type with concrete slab foundation. The metal building will be finished like the other metal buildings along Underpass Road but will incorporate wooden siding to enhance the aesthetic of the building. The metal siding will be dark grey. The building has been located and designed to accommodate the topography of
the parcel, which slopes from the south down to the north on the parcel. The northside entry level of the building is the foundation slab and could be considered a walkout style foundation.

The building has two floors. The top floor has three commercial units while the first floor has a restaurant with access out onto a patio. As the building tenants are currently unknown, the applicant has provided a number of uses that may reside in these units.

## Proposed Project - Lot 2-3; 0 Underpass Road:

The project is to construct one commercial building with an attached security dwelling. The building will be a typical contractor bay building with a total of five (5) $50^{\prime} \times 20^{\prime}$ Bays. Each Bay will have a large commercial garage door along with a front entry door and a rear egress door. The residential unit will contain 2 bedrooms and will be finished in a similar manner to the larger commercial portion. The entire building will be metal framed building types with a concrete slab foundation. The metal building will be finished like the other metal buildings along Underpass Road.

Associated with Lot 2-3 is a rear portion of the parcel which will be used in conjunction with the building trades within the proposed commercial building. The activities in the rear of the parcel will be material storage, equipment storage and a large drainage facility which serves both parcels. The rear portion of the parcel will also contain a total of six (6) vehicle spaces including the two rear access points for the rear building for Lot 1 . The rear portion of the parcel will be finished with gravel.

NOTE: As part of the project, Lots 2 and 3 as shown on a previous Approval Not Required Plan will be combined by preparing an 81 X to expunge the common line between the town parcels. The 81 X plan will be completed and recorded prior to submission of a building permit, or as directed by the Planning Board.

## Proposed Improvement Common to Each Application:

In addition to the two buildings the project includes a paved parking area, associated drainage facilities, sewage system and utilities. The proposed parking area and the drainage facility are being designed to accommodate both proposed uses on the two lots. The owners of each parcel will provide each other with the necessary easements for both parking and drainage improvements. Copies of the executed easements will be provided to the town upon the application for the building permit.

Access Drive:

- The proposed curb cut is being shifted to the south from the existing curb cut on Underpass Road. The shift in the location of access provides improved vehicle sight distances to both the south and north along Underpass. Please refer to the enclosed Traffic Report by VHB.
Parking:
- The proposed parking area will be paved and contain a total of 49 parking spaces. Included with the 49 spaces will be 3 handicapped van accessible spaces. The HP space for lot 2-3 will be adjacent to the building on the east side. The two HP spaces for Lot 1 will be located on the south side of the parking area adjacent to the restaurant building.
- The rear gravel area is also proposed to contain six (6) spaces. These spaces will be designated for employees from either lot. The parking coordination will be coordinated between the two owners.
Bicycles:
- The project for Lot 1 calls for a bike rack adjacent to the buildings on the proposed patio. This bike rack will serve both properties.
Lighting:
- The proposal calls for wall sconces at all entry doors. The sconces will also serve as lighting for the patio area.
- The proposal calls for overhead light fixtures for the garage bays.
- The paved parking area will be illuminated with two (2) sets of double fixture light mounted on a 15 ' pole. Refer to cut sheets.
- All lighting will be 'Dark-Sky' compliant.

Trash:

- Trash enclosure is proposed on the rear of Lot 2-3.
- The trash area will consist of a concrete pad for the dumpsters and enclosed within a 6 -foothigh stockade fence and gate.
- The trash pad area has been sized for two large $\left(8^{\prime} \times 8^{\prime}\right)$ dumpsters, which will be shared by both properties.
Drainage:
- Site drainage is proposed to be controlled by a series of deep sump catch basins, a Bioretention swale, an oil/grit separator and a large subsurface leaching facility.
- The stormwater facility is sized to address the 25 -year storm.
- The drainage facility also results in the reduction of stormwater flow for the pre versus the post construction for the 100-year storm event.
- The drainage facility is designed to the MA Stormwater Handbook and the Town of Brewster Stormwater Regulations.
- The roof areas of all buildings are also being controlled by the same drainage facility as the parking areas.
- Both projects require a Major Stormwater Permit from the Planning Board.

Landscaping:

- As part of the application, we have enclosed landscape plans for both projects. The plans were prepared by Philip Cheney, Landscape Architect.
- The plan calls for the placement of eight (8) shade trees for the 49 -space paved parking area. Six of the trees are proposed within the center landscape island with two additional trees along the roadway. The landscape plan is further enhanced with shrubs and grasses.
- The rear of lot 2-3, adjacent to the Town of Brewster property (Eddy School) will be planted with a row of evergreen trees such as Leland cypress or a green giant type species.
- The remaining disturbed areas shall be loamed and seeded with a drought tolerant grass seed mix.

Sewage Disposal System:

- Each lot will be served by a separate sewage system. Each of the proposed systems is fully compliant with both the State Sanitary Code (Title 5) and the Local Board of Health requirements.
- The sewage system for Lot 1 does include a wastewater treatment unit which is intended to address the reduction of the BOD, TSS, oil/grease and Nitrogen to facilitate the longer life of the leaching facility.
- The sewage system for Lot 1 will require a review by the Board of Health due to the Alternative treatment component of the system.
- All commercial bay units, with vehicle access, will be equipped with floor drains which will be connected to a tight tank (IWHT).

Water:

- The proposed building will be served by municipal water.
- The project proposes a 6 -inch water main into the parcel which will feed the buildings with domestic water service, fire suppression service (if required) and provide the capacity to install a single fire hydrant as requested by the Fire Chief. There are two additional fire hydrants within $500^{\prime}$ of the proposed development. One on Underpass Road and one at the end of Sara Ann Lane.


## PROJECT COMPLIANCE/WAIVER OUTLINE:

## Site Plan Approval:

A. Transportation:
a. Additional traffic Anticipate: No significant increase in traffic anticipated.
b. Level of Service: No changes in Level of Service are anticipated.
c. The access curb-cuts are proposed to be shifted to the south to improve site distances to and from the lots.

## i. REFER TO THE TRANSPORTATION MEMORANDUM AS PREPARED BY VHB.

B. Trip Reduction:
a. The proposal for Lot 1 does provide a bike rack.
b. The proposal for Lot 1 includes sidewalks out to Underpass Road and a new sidewalk along the western side of the roadway which will lead to a potential crosswalk just south of the parcel. Refer to Site Plan and VHB Memorandum. The intention of the crosswalk and sidewalks is to allow bike and pedestrian access to the commercial spaces proposed.
i. The proposal for Lot 2-3 does not include any trip reduction given the nature of the use.
C. Access Standards:
a. Curb cut: The existing curb cut is being abandoned and the new curb cut is proposed just south of the existing.
b. Multiple Driveways:

Not Applicable
c. Curb cut permit from MASSDOT: Not Applicable
d. Pedestrian and bicycle access and site circulation: Refer to trip reduction notes.
e. Traffic Study: Refer to Traffic memorandum as prepared by VHB.
D. Parking Design:
a. Requesting a parking waiver: Possible waiver for required parking spaces.
i. The parking demand will vary due to the nature of the uses proposed for both properties.

1. The employees for the contractor bays will typically come to the property in the morning, leave for the day and return in the late afternoon.
2. The office/retail uses (potential) will primarily use the parking area during the daytime, with lighter traffic in the evening.
3. The restaurant use will be the largest user of the parking area. The anticipated busiest time for the restaurant will be late afternoon and into the evening.
ii. Both applicants feel the 55 spaces proposed will be sufficient for the use of the properties. The spaces and their dedicated availability will need to be coordinated between the two owners. After discussion with the Board, and if necessary, the Applicants will seek a waiver from the strict parking spaces required, as shown on the plan view.
E. Landscape, Design and Appearance:
a. The parcel will be landscaped to be in keeping with the surrounding buildings.
b. The project may need a waiver from the southern abutters. The project does not propose any landscaping to the south of the building on Lot 1 due to the easement from Underpass Road to the Town property.
F. Environmental Protection Requirements:
a. Stormwater is being controlled on site.
b. The pre versus post stormwater discharges are compliant with the MA Stormwater Handbook and the Town of Brewster Stormwater Bylaw.
c. The sewage system for Lot 1 does include an IA component to address the wastewater.
G. Plants and Animals:
a. The project is not within a mapped priority and estimated habitat area.
H. Lighting:
a. See above.
I. Noise:
a. Excessive Noise is not anticipated for the proposed use.

## Special Permit Approval:

1. The proposed uses are in keeping with the Brewster Comprehensive Plan.
2. The proposed structures are like the types of commercial buildings along Underpass Road.
3. The sites are more than suitable for the intended use. The uses are in keeping with properties and uses within the area.
4. The project has been designed to provide emergency access to the site. The proposed parking area has been designed to accommodate the emergency vehicles of the town, as requested.
5. Underpass Road is adequate for the type of use proposed. Refer to VHB Memo.
6. Project proposes sufficient parking and loading areas for the intended use.
7. The proposed building will be screened from the abutter to the west (Town).
8. The site will provide suitable disposal of wastewater. Town water is readily available along Underpass Road. The proposed grading and drainage facilities provide suitable means to manage stormwater from the proposed project.
9. All the applicable utilities exist along Underpass.
10. The proposed uses will not degrade the groundwater or coastal water quality.
11. The project does not fall within a mapped priority and estimated species habitat.
12. The proposed uses do comply with the Zoning Bylaw requirements.

We hope this narrative provides guidance to the Board in their review of the Applications. We look forward to meeting with you on April 10, 2024, to discuss the project and to answer any questions the Board may have. In the meantime, if you need any additional information, please contact my office directly.

Very truly yours,
J.M. O'REILLY \& ASSOCIATES, INC.


John O'Reilly, P.E., P.L.S.

## Principal

CC: The Free Sea Turtle LLC (c/o Paul Wallace) 162 Underpass LLC (c/o Charles Whitcomb)







## Replace traditional wallpacks with SLIM ${ }^{\text {mw }}$ LED.

Same footprint. Better performance.




- Covers footprint of most traditional wallpacks
- 37 W replaces 200 W MH; 57 W replaces 250 W MH; 62 W replaces 320 W MH
- Easy installation with hinged access, bubble level and multiple conduit entries
- Ultra-high efficiency, up to $115 \mathrm{~lm} / \mathrm{W}$
- Available as cutoffs or full cutoffs
- Tight-lock gasket keeps elements out
- 100,000-Hour LED lifespan


RATING
Dimensions and weight


Photometrics

37W-15' Mounting Height


57W-18' Mounting Height


62W-20' Mounting Height


Gide Scole: Wultiples of Mounting Height Values Shown in Footcandles Photometric Reports RABO2437, RABO2604 ond RABO2946MODSO

## Ordering information

| Product Family | Cutoff | Wattage |  | Color Temp |  | Finish |  | Driver Options |  | Photocell Options |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SLIM |  |  |  |  |  |  |  |  |  |  |  |
|  | Blank Cutoff ( $10^{\circ}$ ) | 37 | 37W | Blank | 5000K | Blank | Bronze | /BL | Bi-Leve! | IPC | 120 V Photocell |
|  | FC Full Cutoff ( $0^{\circ}$ ) | 57 | 57N | N | 4000 K | W | White | 1480 | 480 V | /PC2 | 27N Photocell |
|  |  | 62 | 62 W | $\gamma$ | 3000k |  |  |  |  | /PCS | 120 V Swivel Photocell |
|  |  |  |  |  |  |  |  |  |  | /PCS2 | 277 V swivel Photocell |
|  |  |  |  |  |  |  |  |  |  | /PCS4 | 480 V Swivel Photocell |

)ate: $30 \operatorname{Sep} 2019$
"itle : Enter the title here...
esc: Enter the description here...

For: Client's name or company...
By: Your name or company...

## Luminaire

IES Filename: rab02611mod50.ies
Description :
SLIMFC37 (FULL CUT-OFF HOOD) CAST BROWN PAINTED METAL HOUSING, EXTRUDED 2-PIECE DIFFUSE SIXTEEN WHITE MULTI-CHIP LIGHT EMITTING

Light Loss Factor: 1.00
Number of Lamps: 16

$$
\text { Lamp Lumens: } \quad-1 \mathrm{lms}
$$

$$
\text { Luminaire Watts : } \quad 37 \mathrm{~W}
$$



| Catalog <br> Number |
| :--- |
| Notes |
| Type |

## Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70 W to 400 W HID luminaires.
The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

## Ordering Information

EXAMPLE: RSX1 LED P4 40K R3 MVOLT SPA DDBXD

## RSX1 LED

| Series | Performance Package | Color <br> Temperature | Distribution |  | Voltage |  | Mounting |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RSX1 LED | P1 <br> P2 <br> P3 <br> P4 | $\begin{array}{ll} 30 \mathrm{~K} & 3000 \mathrm{~K} \\ 40 \mathrm{~K} & 4000 \mathrm{~K} \\ 50 \mathrm{~K} & 5000 \mathrm{~K} \end{array}$ | R2 <br> R3 <br> R3S <br> R4 <br> R4S <br> R5 <br> R5S <br> AFR <br> AFRR9 <br> AFRL9 | Type 2 Wide <br> Type 3 Wide <br> Type 3 Short <br> Type 4Wide <br> Type 4 Short <br> Type 5Wide ${ }^{1}$ <br> Type 5 Short ${ }^{1}$ <br> Automotive Front Row <br> Automotive Front Row Right Rotated <br> Automotive Front Row Left Rotated | MVOLT <br> HVOLT <br> XVOLT <br> (use sp options $120^{3}$ <br> $208^{3}$ <br> $240^{3}$ | $\begin{aligned} & (120 \mathrm{~V}-277 \mathrm{~V})^{2} \\ & (347 \mathrm{~V}-480 \mathrm{~V})^{3} \\ & (277 \mathrm{~V}-480 \mathrm{~V})^{4} \\ & \text { ific voltage for } \\ & \text { s noted) } \\ & 277^{5} \\ & 347^{5} \\ & 480^{5} \end{aligned}$ | SPA Square pole mounting ( $3.0^{\prime \prime} \mathrm{min}$. SQ pole for 1 at $90^{\circ}, 3.5^{\prime \prime} \mathrm{min}$. SQ pole for $2,3,4$ at $90^{\circ}$ ) <br> RPA Round pole mounting (3.2" min. dia. RND pole for $2,3,4$ at $90^{\circ}, 3.0^{\prime \prime} \mathrm{min}$. dia. RND pole for 1 at $90^{\circ}, 2$ at $180^{\circ}, 3$ at $120^{\circ}$ ) <br> MA Mast arm adaptor (fits 2-3/8" 0 D horizontal tenon) <br> IS Adjustable slipfitter (fits 2-3/8" 0D tenon) ${ }^{6}$ <br> WBA Wall bracket ${ }^{1}$ <br> WBASC Wall bracket with surface conduit box <br> AASP Adjustable tilt arm square pole mounting ${ }^{6}$ <br> AARP Adjustable tilt arm round pole mounting ${ }^{6}$ <br> AAWB Adjustable till arm with wall bracket ${ }^{6}$ <br> AAWSC Adjustable tilt arm wall bracket and surface conduit box ${ }^{6}$ |  |  |  |
| Options |  |  |  |  |  |  |  |  | Finish |  |
| Shipped Installed |  |  |  | Shipped Installed <br> *Standalone and Networked Sensors/Controls (factory default settings, see table page 9) |  |  |  |  | DDBXD | Dark Bronze |
| HS | House-side shield ${ }^{7}$ |  |  |  |  |  |  |  | DBLXD | Black |
| PE | Photocontrol, button style ${ }^{8,9}$ |  |  | NLTAIR2PIRHN nLight AlR generation 2, with Networked, Bi-Level motion/ambient sensor 9, 12, 13, 14 |  |  |  |  | DNAXD | Natural Aluminum |
| PER7 | Seven-wire twist-lock receptacle only (no controls) 9,90,11 |  |  | BAA Buy America(n) Act Compliant |  |  |  |  | DWHXD | White |
| SF | Single fuse ( $120,277,347)^{5}$ |  |  | CCE Coastal Construction ${ }^{15}$ |  |  |  |  | DDBTXD | Textured Dark Bronze |
| DF | Double fuse $(208,240,480)^{5}$ |  |  | *Note: NLTAIR2 PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted. |  |  |  |  | DBLBXD | Textured Black |
| SPD20KV | 20KV Surge pack (10K | standard) |  |  |  |  |  |  | DNATXD | Textured Natural Aluminum |
| FAO | Field adjustable output ${ }^{9}$ |  |  | Shipped Separately (requires some field assembly) |  |  |  |  | DWHGXD | Textured White |
| DMG | $0-10 \mathrm{~V}$ dimming extend out back of housing for external control (control ordered separate) ${ }^{9}$ |  |  | EGS Ex <br> EGFV Ex <br> BS Bir | External glare shield ${ }^{7}$ <br> External glare full visor ( $360^{\circ}$ around light aperture) $)^{7}$ <br> Bird spikes ${ }^{16}$ |  |  |  |  |  |

L/THONIA
LIGHTING.

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## Ordering Information

## Accessories

## RSX1HS

 RSXIHSAFRRU RSXIEGS (FINISH) U RSXIEGFV (FINISH) RSXRPA (FINISH) U RSXWBA (FINSH) U RSXSCB (FINISH)U DLL127F 1.5 JJ DLL347F 1.5 CUL JU DLL480F 1.5 CUL JU DSHORT SBKURSXI House side shield (includes 1 shield)
External glares hield (specify f ninhh)
External glare full visor (specify finish)
RSXWBA wall bracket (specify finish) ' Photocell -SSL twist-lock $(120-277 V)^{17}$
Photocell -SSL twist-lock (347V) ${ }^{17}$ Photocell -SSL twist-lock (480V) ${ }^{17}$ Shorting cap ${ }^{17}$

RSX1 House side shield for AFR rotated optics (includes 1 shield)

RSXUniversal round pole adaptor plate (specify finish)

RSX Surface conduit box (specify finish, for use with WBA, WBA not included)

NOTES
1 Any Type 5 distribution, is not available with WBA.
MVOUT driver operates on any line voltage from $120-277 \mathrm{~V}(50 / 60 \mathrm{~Hz})$.
3 HVOLT driver operates on any line voltage from $347-480 \mathrm{~V}(50 / 60 \mathrm{~Hz})$.
4 XVOLT driver not available with P1 or P2. XVOLT driver operates on any line voltage from $277 \mathrm{~V}-480 \mathrm{~V}(50 / 60 \mathrm{~Hz}$ ). XVOLT not available with fusing (SF or DF) and not available with PE.
5 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires $208 \mathrm{~V}, 240 \mathrm{~V}$ or 480 V .
6 Maximum tilt is $90^{\circ}$ above horizontal.
7 It may be ordered as an accessory.
8 Requires MVOLT or 347V.
9 Two or more of the following options cannot be combined including PE, DMG, PER7, FAO and NLTAIR2 PIRHN. (Exception: PE and FAO can be combined; also PE and DMG can be combined.)
10 Compatible with standard twist-lock photocells for dusk to dawn operation or advanced control nodes that provide 0-10V dimming
signals. Wire 4/Wire 5 wired to dimming leads on driver. Wire6/Wire7 capped inside luminaire. Twistlock photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
11 For units with option PER7, the mounting must be restricted to $+/-45^{\circ}$ from horizontal aim per ANSI C136.10-2010
12 Must be ordered with PIRHN
13 Requires MVOLT or HVOLT
4 Must be ordered with NLTAIR2. For additional information on PIRHN visit here
15 CCE option not available with WBA, WBASC, AASP, AARP, AAWB, AAWBSC, EGS, EGFV and BS
16 Must be ordered with fixture for factory pre-drilling.
17 Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

## External Shields



House Side Shield


External Glare Shield


External 360 Full Visor

## Pole/Mounting Information

Accessories including bullhorns, cross arms and other adpaters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit Accessories.

## Round Tenon Mount - Pole Top Slipfitters

HANDHOLE ORIENTATION


## RSX POLE DRILLING



RSX STANDARD ARM \& ADJUSTABLE ARM


| Tenon 0.D. | RSX Mounting | Single | 2at 180 ${ }^{\circ}$ | 2at $90^{\circ}$ | 3 at $120^{\circ}$ | $3 \mathrm{ta} 90^{\circ}$ | $4 \mathrm{at} 90^{\circ}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2-3/8" | RPA, AARP | AS3-5190 | AS3-5 280 | AS3-5290 | AS3-5320 | AS3-5390 | AS3-5 490 |
| 2-7/8" | RPA, AARP | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| $4{ }^{\prime \prime}$ | RPA, AARP | AST35-190 | ASTT3-280 | AST35-290 | ASTT35-320 | ASTT35-390 | ASTT35-490 |

## Drill/Side Location by Configuration Type

| Drilling Template | Mounting Option | Single | 2 @ 180 | 2 @ 90 | 3 @ 120 | $3 @ 90$ | 4 C 90 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Head Location | Side B | Side B \& D | Side B \& C | Round Pole Only | Side B, C \& D | Side A, B, C \& D |
| \#8 | Drill Nomenclature | DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |

## RSX1 - Luminaire EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

| Fixture Quantity \& Mounting Configuration |  | Single | 2 @ 90 | 2 @ 180 | 3 @90 | 3 @ 120 | 4@90 | $\begin{aligned} & 2 \text { Side } \\ & \text { by Side } \end{aligned}$ | 3 side <br> by Side | 4 Side <br> by Side |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mounting Type | Tilt |  |  |  |  |  | 1 | 1 | - | $\Gamma$ |
| SPA - Square Pole Adaptor | $0^{\circ}$ | 0.57 | 1.03 | 1.05 | 1.52 | 1.36 | 2.03 | 1.31 | 1.7 | 2.26 |
| RPA - Round Pole Adaptor |  | 0.62 | 1.08 | 1.15 | 1.62 | 1.46 | 2.13 | 1.36 | 1.8 | 2.36 |
| MA - Mast Arm Adaptor |  | 0.49 | 0.95 | 0.89 | 1.36 | 1.2 | 1.87 | 1.23 | 1.54 | 2.1 |
| IS-Integral Slipfitter AASP/AARP - Adjustable Arm Square/Round Pole | $0^{\circ}$ | 0.57 | 1.03 | 1.05 | 1.52 | 1.36 | 2.03 | 1.31 | 1.7 | 2.26 |
|  | $10^{\circ}$ | 0.68 | 1.34 | 1.33 | 2 | 1.74 | 2.64 | 1.35 | 2.03 | 2.71 |
|  | $20^{\circ}$ | 0.87 | 1.71 | 1.73 | 2.56 | 2.26 | 3.42 | 1.75 | 2.62 | 3.49 |
|  | $30^{\circ}$ | 1.24 | 2.19 | 2.3 | 3.21 | 2.87 | 4.36 | 2.49 | 3.73 | 4.97 |
|  | $40^{\circ}$ | 1.81 | 2.68 | 2.98 | 3.85 | 3.68 | 5.30 | 3.62 | 5.43 | 7.24 |
|  | $45^{\circ}$ | 2.11 | 2.92 | 3.44 | 4.2 | 4.08 | 5.77 | 4.22 | 6.33 | 8.44 |
|  | $50^{\circ}$ | 2.31 | 3.17 | 3.72 | 4.52 | 4.44 | 6.26 | 4.62 | 6.94 | 9.25 |
|  | $60^{\circ}$ | 2.71 | 3.66 | 4.38 | 5.21 | 5.15 | 7.24 | 5.43 | 8.14 | 10.86 |
|  | $70^{\circ}$ | 2.78 | 3.98 | 4.54 | 5.67 | 5.47 | 7.91 | 5.52 | 8.27 | 11.03 |
|  | $80^{\circ}$ | 2.76 | 4.18 | 4.62 | 5.97 | 5.76 | 8.31 | 5.51 | 8.27 | 11.03 |
|  | $90^{\circ}$ | 2.73 | 4.25 | 4.64 | 6.11 | 5.91 | 8.47 | 5.45 | 8.18 | 10.97 |

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Isofootcandle plots for the RSX1 LED P4 40K. Distances are in units of mounting height ( $20^{\prime}$ ).


## Performance Data

## Lumen Ambient Temperature

 (LAT) MultipliersUse these factors to determine relative lumen output for average ambient temperatures from $0-50^{\circ} \mathrm{C}\left(32-122^{\circ} \mathrm{F}\right)$.

| Ambient | Ambient | Lumen Multiplier |
| :---: | :---: | :---: |
| $0^{\circ} \mathrm{C}$ | $32^{\circ} \mathrm{F}$ | 1.05 |
| $5^{\circ} \mathrm{C}$ | $41^{\circ} \mathrm{F}$ | 1.04 |
| $10^{\circ} \mathrm{C}$ | $50^{\circ} \mathrm{F}$ | 1.03 |
| $15^{\circ} \mathrm{C}$ | $59^{\circ} \mathrm{F}$ | 1.02 |
| $20^{\circ} \mathrm{C}$ | $68^{\circ} \mathrm{F}$ | 1.01 |
| $25^{\circ} \mathrm{C}$ | $77^{\circ} \mathrm{F}$ | 1.00 |
| $30^{\circ} \mathrm{C}$ | $86^{\circ} \mathrm{F}$ | 0.99 |
| $35^{\circ} \mathrm{C}$ | $95^{\circ} \mathrm{F}$ | 0.98 |
| $40^{\circ} \mathrm{C}$ | $104^{\circ} \mathrm{F}$ | 0.97 |
| $45^{\circ} \mathrm{C}$ | $113^{\circ} \mathrm{F}$ | 0.96 |
| $50^{\circ} \mathrm{C}$ | $122^{\circ} \mathrm{F}$ | 0.95 |

Electrical Load

|  |  |  |  |  |  |  |  |  | Current (A) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Performance Package | System Watts (W) | 120 V | 208 V | 240 V | 277 V | 347 V | 480 V |  |  |  |  |  |  |  |  |
| P1 | 51 W | 0.42 | 0.25 | 0.21 | 0.19 | 0.14 | 0.11 |  |  |  |  |  |  |  |  |
| P2 | 72 W | 0.60 | 0.35 | 0.30 | 0.26 | 0.21 | 0.15 |  |  |  |  |  |  |  |  |
| P3 | 109 W | 0.91 | 0.52 | 0.45 | 0.39 | 0.31 | 0.23 |  |  |  |  |  |  |  |  |
| P4 | 133 W | 1.11 | 0.64 | 0.55 | 0.48 | 0.38 | 0.27 |  |  |  |  |  |  |  |  |

## Projected LED Lumen Maintenance

| Operating Hours | 50,000 | 75,000 | 100,000 |
| :---: | :---: | :---: | :---: |
| Lumen Maintenance Factor | $>0.97$ | $>0.95$ | $>0.92$ |

Values calculated according to IESNA TM-21-11 methodology and valid up to $40^{\circ} \mathrm{C}$.

## Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Performance | System Watts | Distribution. | $\begin{gathered} 30 \mathrm{~K} \\ (3000 \mathrm{~K}, 70 \mathrm{CRI}) \end{gathered}$ |  |  |  |  | $\begin{gathered} 40 \mathrm{~K} \\ (4000 \mathrm{~K}, 70 \mathrm{CRI}) \end{gathered}$ |  |  |  |  | $\begin{gathered} 50 \mathrm{~K} \\ (5000 \mathrm{~K}, 70 \text { CRI) } \end{gathered}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| P1 | 51W | R2 | 6,482 | 1 | 0 | 1 | 126 | 7,121 | 1 | 0 | 1 | 139 | 7,121 | 1 | 0 | 1 | 139 |
|  |  | R3 | 6,459 | 1 | 0 | 2 | 127 | 7,096 | 1 | 0 | 2 | 139 | 7,096 | 1 | 0 | 2 | 139 |
|  |  | R3S | 6,631 | 1 | 0 | 1 | 129 | 7,286 | 1 | 0 | 2 | 142 | 7,286 | 1 | 0 | 2 | 142 |
|  |  | R4 | 6,543 | 1 | 0 | 2 | 128 | 7,189 | 1 | 0 | 2 | 141 | 7,189 | 1 | 0 | 2 | 141 |
|  |  | R4S | 6,313 | 1 | 0 | 1 | 124 | 6,936 | 1 | 0 | 1 | 136 | 6,936 | 1 | 0 | 1 | 136 |
|  |  | R5 | 6,631 | 3 | 0 | 2 | 130 | 7,286 | 3 | 0 | 2 | 143 | 7,286 | 3 | 0 | 2 | 143 |
|  |  | R5S | 6,807 | 3 | 0 | 1 | 133 | 7,479 | 3 | 0 | 1 | 147 | 7,479 | 3 | 0 | 1 | 147 |
|  |  | AFR | 6,473 | 1 | 0 | 1 | 127 | 7,112 | 1 | 0 | 1 | 139 | 7,112 | 1 | 0 | 1 | 139 |
|  |  | AFRR90 | 6,535 | 2 | 0 | 2 | 127 | 7,179 | 2 | 0 | 2 | 140 | 7,179 | 2 | 0 | 2 | 140 |
|  |  | AFRL90 | 6,562 | 2 | 0 | 1 | 128 | 7,210 | 2 | 0 | 2 | 140 | 7,210 | 2 | 0 | 2 | 140 |
| P2 | 72W | R2 | 8,991 | 2 | 0 | 1 | 123 | 9,878 | 2 | 0 | 1 | 135 | 9,878 | 2 | 0 | 1 | 135 |
|  |  | R3 | 8,959 | 2 | 0 | 2 | 124 | 9,843 | 2 | 0 | 2 | 137 | 9,843 | 2 | 0 | 2 | 137 |
|  |  | R3S | 9,198 | 2 | 0 | 2 | 126 | 10,106 | 2 | 0 | 2 | 139 | 10,106 | 2 | 0 | 2 | 139 |
|  |  | R4 | 9,077 | 2 | 0 | 2 | 126 | 9,972 | 2 | 0 | 2 | 139 | 9,972 | 2 | 0 | 2 | 139 |
|  |  | R4S | 8,757 | 1 | 0 | 2 | 122 | 9,622 | 2 | 0 | 2 | 134 | 9,622 | 2 | 0 | 2 | 134 |
|  |  | R5 | 9,198 | 4 | 0 | 2 | 128 | 10,106 | 4 | 0 | 2 | 140 | 10,106 | 4 | 0 | 2 | 140 |
|  |  | R5S | 9,443 | 3 | 0 | 1 | 131 | 10,374 | 3 | 0 | 1 | 144 | 10,374 | 3 | 0 | 1 | 144 |
|  |  | AFR | 8,979 | 2 | 0 | 1 | 125 | 9,865 | 2 | 0 | 1 | 137 | 9,865 | 2 | 0 | 1 | 137 |
|  |  | AFRR90 | 9,064 | 3 | 0 | 2 | 124 | 9,959 | 3 | 0 | 2 | 137 | 9,959 | 3 | 0 | 2 | 137 |
|  |  | AFRL90 | 9,102 | 3 | 0 | 2 | 125 | 10,001 | 3 | 0 | 2 | 137 | 10,001 | 3 | 0 | 2 | 137 |
| P3 | 109W | R2 | 12,808 | 2 | 0 | 1 | 117 | 14,072 | 2 | 0 | 2 | 129 | 14,072 | 2 | 0 | 2 | 129 |
|  |  | R3 | 12,763 | 2 | 0 | 2 | 117 | 14,023 | 2 | 0 | 2 | 129 | 14,023 | 2 | 0 | 2 | 129 |
|  |  | R3S | 13,104 | 2 | 0 | 2 | 120 | 14,397 | 2 | 0 | 2 | 132 | 14,397 | 2 | 0 | 2 | 132 |
|  |  | R4 | 12,930 | 2 | 0 | 2 | 119 | 14,206 | 2 | 0 | 2 | 130 | 14,206 | 2 | 0 | 2 | 130 |
|  |  | R4S | 12,475 | 2 | 0 | 2 | 114 | 13,707 | 2 | 0 | 2 | 126 | 13,707 | 2 | 0 | 2 | 126 |
|  |  | R5 | 13,104 | 4 | 0 | 2 | 120 | 14,397 | 4 | 0 | 2 | 132 | 14,397 | 4 | 0 | 2 | 132 |
|  |  | R5S | 13,452 | 3 | 0 | 2 | 123 | 14,779 | 3 | 0 | 2 | 136 | 14,779 | 3 | 0 | 2 | 136 |
|  |  | AFR | 12,791 | 2 | 0 | 1 | 117 | 14,053 | 2 | 0 | 2 | 129 | 14,053 | 2 | 0 | 2 | 129 |
|  |  | AFRR90 | 12,913 | 3 | 0 | 3 | 118 | 14,187 | 3 | 0 | 3 | 130 | 14,187 | 3 | 0 | 3 | 130 |
|  |  | AFRL90 | 12,967 | 3 | 0 | 2 | 118 | 14,247 | 3 | 0 | 3 | 130 | 14,247 | 3 | 0 | 3 | 130 |
| P4 | 133W | R2 | 14,943 | 2 | 0 | 2 | 112 | 16,417 | 2 | 0 | 2 | 123 | 16,417 | 2 | 0 | 2 | 123 |
|  |  | R3 | 14,890 | 2 | 0 | 3 | 112 | 16,360 | 2 | 0 | 3 | 123 | 16,360 | 2 | 0 | 3 | 123 |
|  |  | R3S | 15,287 | 2 | 0 | 2 | 115 | 16,796 | 2 | 0 | 2 | 126 | 16,796 | 2 | 0 | 2 | 126 |
|  |  | R4 | 15,085 | 2 | 0 | 3 | 113 | 16,574 | 2 | 0 | 3 | 125 | 16,574 | 2 | 0 | 3 | 125 |
|  |  | R4S | 14,554 | 2 | 0 | 2 | 109 | 15,991 | 2 | 0 | 2 | 120 | 15,991 | 2 | 0 | 2 | 120 |
|  |  | R5 | 15,287 | 4 | 0 | 2 | 115 | 16,796 | 4 | 0 | 2 | 126 | 16,796 | 4 | 0 | 2 | 126 |
|  |  | R5S | 15,693 | 4 | 0 | 2 | 118 | 17,242 | 4 | 0 | 2 | 130 | 17,242 | 4 | 0 | 2 | 130 |
|  |  | AFR | 14,923 | 2 | 0 | 2 | 112 | 16,395 | 2 | 0 | 2 | 123 | 16,395 | 2 | 0 | 2 | 123 |
|  |  | AFRR90 | 15,065 | 3 | 0 | 3 | 113 | 16,551 | 3 | 0 | 3 | 124 | 16,551 | 3 | 0 | 3 | 124 |
|  |  | AFRL90 | 15,128 | 3 | 0 | 3 | 114 | 16,621 | 3 | 0 | 3 | 125 | 16,621 | 3 | 0 | 3 | 125 |

Dimensions \& Weights
Luminaire Weight by Mounting Type

| Mounting Configuration | Total Luminaire Weight |
| :---: | :---: |
| SPA | 22 lbs |
| RPA | 24 lbs |
| MA | 22 lbs |
| WBA | 25 lbs |
| WBASC | 28 lbs |
| IS | 25 lbs |
| AASP | 25 lbs |
| AARP | 27 lbs |
| AAWB | 28 lbs |
| AAWSC | 31 lbs |

## RSX1 with Round Pole Adapter (RPA)



Length: $22.8^{\prime \prime}(57.9 \mathrm{~cm})$
Width: $13.3^{\prime \prime}(33.8 \mathrm{~cm})$
Height: $3.0^{\prime \prime}(7.6 \mathrm{~cm})$ Main Body 7.2" ( 18.4 cm ) Arm

RSX1 with Mast Arm Adapter (MA)


Length: $23.2^{\prime \prime}(59.1 \mathrm{~cm})$
Width: $13.3^{\prime \prime}(33.8 \mathrm{~cm})$
Height: $3.0^{\prime \prime}(7.6 \mathrm{~cm})$ Main Body $3.5^{\prime \prime}$ ( 8.9 cm ) Arm

RSX1 with Adjustable Slipfitter (IS)


Length: 20.7" ( 52.7 cm )
Width: $13.3^{\prime \prime}(33.8 \mathrm{~cm})$
Height: $3.0^{\prime \prime}(7.6 \mathrm{~cm})$ Main Body 7.6" (19.3 cm) Arm


## Dimensions

RSX1 with Wall Bracket (WBA)


Wall Bracket (WBA) Mounting Detail


## RSX1 with Wall Bracket with Surface Conduit Box (WBASC)



Length: $25.3^{\prime \prime}(64.3 \mathrm{~cm})$
Width: $13.3^{\prime \prime}(33.8 \mathrm{~cm})$
Height: $3.0^{\prime \prime}(7.6 \mathrm{~cm})$ Main Body
$9.2^{\prime \prime}(23.4 \mathrm{~cm})$ Arm
Surface Conduit Box (SCB) Mounting Detail


## Dimensions

## RSX1 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)



Length: 25.3" (65.3 cm) AASP
$26.3^{\prime \prime}(66.8 \mathrm{~cm})$ AARP
Width: $13.3^{\prime \prime}(33.8 \mathrm{~cm})$
Height: 3.0" ( 7.6 cm ) Main Body 7.2" (18.2 cm) Arm


## Notes

AASP: Requires $3.0^{\prime \prime} \mathrm{min}$. square pole for 1 at $90^{\circ}$. Requires $3.5^{\prime \prime} \mathrm{min}$. square pole for mounting $2,3,4$ at $90^{\circ}$.
AARP: Requires $3.2^{\prime \prime} \mathrm{min}$. dia. round pole for $2,3,4$ at $90^{\circ}$. Requires $3.0^{\prime \prime} \mathrm{min}$. dia. round pole for mounting 1 at $90^{\circ}, 2$ at $180^{\circ}, 3$ at $120^{\circ}$.

## RSX1 with Adjustable Tilt Arm with Wall Bracket (AAWB)



Length: $27.1^{\prime \prime}(68.8 \mathrm{~cm})$
Width: $13.3^{\prime \prime}(33.8 \mathrm{~cm})$
Height: 3.0" ( 7.6 cm ) Main Body
$8.9^{\prime \prime}$ (22.6 cm) Arm


Wall Bracket (WBA) Mounting Detail


## Dimensions

RSX1 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)

(Example: 2@180-arrows indicate direction of light exiting the luminaire)

## nLight Control - Sensor Coverage and Settings

## nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



Top


| Motion Sensor Default Settings - Option PIRHN |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Option | Dimmed State <br> (unoccupied) | High Level <br> (when occupied) | Photocell <br> Operation | Dwell Time <br> (occupancy time delay) | Ramp-up Time <br> (from unoccupied to occupied) | Ramp-down Time <br> (from occupied to unoccupied) |  |
| NLTAIR2 PIRHN | Approx. 30\% Output | $100 \%$ Output | Enabled @ 1.5FC | 7.5 minutes | 3 seconds |  |  |

*Note: NLTAIR2 PIRHN default settings including photocell set-point, high/low dim rates, and occupancy sensor time delay are all configurable using the Clairity Pro App. Sensor coverage pattern shown with luminaire at $0^{\circ}$. Sensor coverage pattern is affected when luminaire is titled.

## FEATURES \& SPECIFICATIONS

## INTENDED USE

The RSX LED area family is designed to provide a long-lasting, energy-efficient solution for the one-for-one replacement of existing metal halide or high pressure sodium lighting. The RSX1 delivers 7,000 o 17,000 lumens and is ideal for replacing 70 W to 400W HID pole-mounted luminaires in parking lots and other area lighting applications.

## CONSTRUCTION

The RSX LED area luminaire features a rugged die-cast aluminum main body that uses heatdissipating fins and flow-through venting to provide optimal thermal management that both enhances LED performance and extends component life. Integral "no drill" mounting arm allows the luminaire to be mounted on existing pole drillings, greatly reducing installation labor. The ight engines and housing are sealed against moisture and environmental contaminants to IP66
The low-profile design results in a low EPA, allowing pole optimization. All mountings are rated for minimum 1.5 G vibration load per ANSI C136.31. 3G Mountings: Include SPA, RPA, MA, IS, AASP, and AARP rated for 3G vibration. 1.5G Mountings: Include WBA, WBASC, AAWB and AAWSC rated for 1.5 G vibration.
FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish
that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures superior adhesion as well as a minimum finish thickness of 3 mils. The result is a high-quality finish that is warrantied not to crack or peel.

## COASTAL CONSTRUCTION (CCE)

ptional corrosion resistant construction is engineered with added corrosion rotection in materials and/or pre-treatment of base material under superÝurable paint. Provides additional corrosion protection for applications nearÜoastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with cribe rating of 10. Additional lead-times apply.

## OPTICS

Precision acrylic refractive lenses are engineered for superior application efficiency, distributing the light to where it is needed most. Available in short and wide pattern distributions including Type 2, Type 3, Type 3S, Type 4, Type 4S, Type 5, Type 5S, AFR (Automotive Front Row), and AFR rotated AFRR90 and ARFL90.

## ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted on metal-core circuit boards and aluminum heat sinks to maximize heat dissipation. Light engines are IP66 rated. LED lumen maintenance is $>$ L92/100,000 hours. CCT's of $3000 \mathrm{~K}, 4000 \mathrm{~K}$ and 5000 K (minimum 70 CRI ) are available. Fixtures ship standard with $0-10 \mathrm{v}$ dimming driver. Class 1 electronic drivers ensure system power factor $>90 \%$ and THD $<20 \%$. Easily serviceable 10 kV surge protection device meet a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

## STANDARD CONTROLS

The RSX LED area luminaire has a wide assortment of control options. Dusk to dawn controls include MVOLT and 347V button-type photocells and NEMA twist-lock photocell receptacles.

## nLIGHT AIR CONTROLS

The RSX LED area luminaire is also available with nLight ${ }^{\oplus}$ AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing with photocontrol functionality and is suitable for mounting heights up to 40 feet. No commissioning is required when using factory default settings that provide basic stand-alone motion occupancy dimming that is switched on and off with a built-in photocell. See chart above for motion sensor default out-of-box settings. For more advanced wireless functionality, such as group dimming, nLight AIR can be commissioned using a smartphone and the easy-to use CLAIRITY app. nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

## NSTALLATION

Integral "no-drill" mounting arm allows for fast, easy mounting using existing pole drillings. Select the "SPA" option for square poles and the "RPA" option to mount to round poles. Note, the RPA mount can also be used for mounting to square poles by omitting the RPA adapter plate. Select the "MA" option to attach the luminaire to a $23 / 8^{\prime \prime}$ horizontal mast arm or the "IS" option for an adjustable slipfitter that mounts on a $23 / 8$ " OD tenon. The adjustable slipfitter has an integral junction box and offers easy installation. Can be tilted up to $90^{\circ}$ above horizontal. Additional mountings are available including a wall bracket, adjustable tilt arm for direct-to-pole and wall and a surface conduit box for wall mount applications.

## LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. Rated for $-40^{\circ} \mathrm{C}$ minimum ambient. DesignLights Consortium ${ }^{\oplus}$ (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified
International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only. U.S. Patent No. D882, 146S

## BUY AMERICAN ACT

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations.
Please refer to www.acuitybrands.com/buy-american for additional information.

## WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions
Note: Actual performance may differ as a result of end-user environment and application All values are design or typical values, measured under laboratory conditions at $25^{\circ} \mathrm{C}$. Specifications subject to change without notice.

To: Town of Brewster
Date: March 29, 2024

Project \#: 15934.00

From: Randall Hart, Principal

Re: Proposed Commercial Development
Traffic Assessment

## Introduction

On behalf of the Proponent, Vanasse Hangen Brustlin, Inc. (VHB) has prepared a transportation assessment of the proposed Commercial Development to be located at 162 Underpass Road in Brewster, Massachusetts. The following memo provides review of existing accident history along Underpass Road at the proposed site driveway and adjacent intersections, projections of traffic for the subdivision proposed, and review of site distance for the proposed driveway, future condition operational analyses of the driveway, and a proposed traffic demand management initiative for the site.

## Crash Summary

A detailed crash analysis was conducted to identify potential vehicle accident trends and/or roadway deficiencies in the immediate area of the proposed site driveway. The most current vehicle accident data for the traffic study area intersections were obtained from MassDOT for the years 2015 to 2020. The MassDOT database is comprised of crash data from the Massachusetts Registry of Motor Vehicles (RMV) Division primarily for use in traffic studies and safety evaluations. Data files are provided for an entire city or town for an entire year, though it is possible that some crash records may be omitted either due to individual crashes not being reported, or the city crash records not being provided in a compatible format for RMV use.

Crash rates are calculated based on the number of accidents at an intersection and the volume of traffic traveling through that intersection on a daily basis. Rates that exceed MassDOT's average for accidents at intersections in the MassDOT district in which the town or city is located could indicate safety or geometric issues for a particular intersection. For our study area, the calculated crash rates for the study area intersections were compared to the MassDOT District 5 (the MassDOT district for Brewster) average. The current MassDOT average crash rate for unsignalized and signalized intersections in District 5 is 0.57 and 0.75 crashes per million entering vehicles, respectively. In other words, on average, 0.57 crashes occurred per million vehicles entering unsignalized intersections throughout District 5.

No crashes were reported at the intersections of Underpass Road at Sara Ann Lane, Underpass Road at Site Driveway, or on Underpass Road in between Sara Ann Lane and the Site Driveway.

March 29, 2024
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## Highway Safety Improvement Program

In addition to calculating the crash rate, study area intersections should also be reviewed in the MassDOT's Highway Safety Improvement Program (HSIP) database. An HSIP-eligible cluster is one in which the total number of "equivalent property damage only" ${ }^{1}$ crashes in the area is within the top $5 \%$ of all clusters in that region. Being HSIPeligible makes the location eligible for FHWA and MassDOT funds to address the identified safety issues at these locations. As part of this effort, VHB reviewed this database and found that the intersections referenced above are not HSIP locations.

## Trip Generation

The rate at which any development generates traffic is dependent upon a number of factors such as size, location, and concentration of surrounding developments. The site is currently vacant. The proposed development consists of two lots, each with one building. The north lots building is proposed to have five contractor bays at 1,000 square feet each, and one single family attached apartment. The south building is proposed to have three upstairs business units totaling 2,592 square feet and will be used for retail, business office and services or artist galleries. There will be one downstairs unit containing a fast casual restaurant with 3,300 square feet or 75 seats.

Trip generation estimates for the proposed use were projected using trip generation rates published by the Institute of Transportation Engineers (ITE) Trip Generation, $11^{\text {th }}$ Edition ${ }^{2}$. The number of vehicle-trips generated by the residential units were estimated based on ITE LUC 215 (Single-Family Attached Housing), the number of vehicle-trips generated by the restaurant were estimated based on ITE LUC 930 (Fast Casual Restaurant), and the number of vehicle-trips generated by the retail portion were estimated based on ITE LUC 822 (Strip Retail Plaza). The estimated trip generation for the proposed project is presented below in Table 1.

[^1]
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Table 1 Trip Generation Summary


As shown in Table 1, the development is expected to generate approximately 20trips (12 entering/ 8 exiting) during the weekday morning peak hour, 70 trips ( 36 entering/ 35 exiting) during the evening peak hour, and 133 trips ( 67 entering/ 55 exiting) during the Saturday midday peak hour. As noted below, the project will include a transportation demand management program for the site which will attempt to reduce reliance on single occupancy motor vehicle access to the site. While these initiatives are likely to lessen the actual traffic generation to the proposed facility, no

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credit has been taken in the trip generation estimates or the operational analysis provided below. This represents a conservative approach to reviewing potential project impacts.

## Site Driveway Intersection Capacity Analysis

VHB conducted capacity analyses at the site driveway for the 2025 Build Condition in order to analyze the Level of Service (LOS). A 2025 Build Condition was developed using February 2023 Automatic Traffic Recorder (ATR) data along Underpass Road for a weekday and adjusted to reflect peak summer traffic conditions for Cape Cod. Saturday ATR data was not previously collected along Underpass Road. However, review of data at nearby permanent count stations on Route 124 (Harwich Road) south of Route 137, Route 137 (Long Pond Road) west of Route 124 (both approximately 1 mile southwest of the site) had both weekday and Saturday data which was reviewed. Traffic counts for average weekdays were compared to Saturday counts in August 2023 from the permanent count stations, and it was determined that Saturday data was slightly lower than weekday data for both of these locations. To provide a conservative LOS analysis for this project - weekday pm traffic data for Underpass Road was used as an estimate for Saturday midday traffic volumes at the driveway as the weekday data was observed to be higher than typical Saturday. This results in a highly conservative assessment of Saturday midday driveway operations. The nearby permanent count station data is provided in the appendix for reference. The 2023 data was then grown to 2025 to reflect a future build year. The ITE Trip Generation entering and exiting volumes were then added to the 2025 future build condition.

The evaluation criteria used to analyze area intersections in this traffic study are based on the percentile delay method for signalized intersections and the Highway Capacity Manual (HCM), $6^{\text {th }}$ Edition ${ }^{3}$ for unsignalized intersections. 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 a qualitative measure that considers several factors including roadway geometry, speed, travel delay and freedom to maneuver. LOS provides an index to the operational qualities of a roadway segment or an intersection. LOS designations range from A to F, with LOS A representing the best operating conditions and LOS F representing the worst operating conditions.

In addition to LOS, two other measures of effectiveness (MOEs) are typically used to quantify the traffic operations at intersections; volume-to-capacity ratio ( $\mathrm{v} / \mathrm{c}$ ) and delay (expressed in seconds per vehicle). For example, an existing v/c ratio of 0.90 for an intersection indicates that the intersection is operating at 90 -percent of its available capacity. A delay of 15 seconds for a particular vehicular movement or approach indicates that vehicles on the movement or approach will experience an average additional travel time of 15 seconds. For a given LOS letter designation there may be a wide range of values for both $v / c$ ratios and delay. Comparison of intersection capacity results therefore requires that, in addition to the LOS, the other MOEs should also be considered.

The LOS designations, which are based on delay, are reported differently for signalized and unsignalized intersections. For signalized intersections, the analysis considers the operation of all traffic entering the intersection and the LOS designation is for overall conditions at the intersection. For unsignalized intersections, however, 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, which is generally the left turn out of the side street or site driveway. Table 2 shows the LOS criteria for both signalized intersections and unsignalized intersections.

It should be noted that the analytical methodologies typically used for the analysis of unsignalized intersections use conservative analysis parameters, such as long critical gaps. Actual field observations indicate that drivers on minor streets generally accept shorter gaps in traffic than those used in the analysis procedures and therefore experience less delay than reported by the analysis software. The analysis methodologies also do not fully take into account the

3 Highway Capacity Manual, 6th Edition, Transportation Research Board, Washington, D.C., 2016

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Memorandum

beneficial grouping effects caused by nearby signalized intersections. The net effect of these analysis procedures is the over-estimation of calculated delays at unsignalized intersections in the study area. Cautious judgment should therefore be exercised when interpreting the capacity analysis results at unsignalized intersections.

Table 2 Level-of-Service Criteria

| Level of Service | Delay - Signalized Intersection | Delay - Unsignalized Intersection |
| :---: | :--- | :--- |
| A | 0 to 10 seconds | 0 to 10 seconds |
| B | 10 to 20 seconds | 10 to 15 seconds |
| C | 20 to 35 seconds | 15 to 25 seconds |
| D | 35 to 55 seconds | 25 to 35 seconds |
| E | 55 to 80 seconds | 35 to 50 seconds |
| F | Greater than 80 seconds | Greater than 50 seconds |
|  | Source: Highway Capacity Manual, 6th Edition. |  |

Capacity Analysis results for the Site Driveway at Underpass Road are shown in Table 3 below.

Table 3 Unsignalized Intersection Capacity Analysis (Peak Summer Season)

| Location / <br> Movement | 2025 Build Conditions |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{D}^{\text {a }}$ | $v / c^{\text {b }}$ | Del ${ }^{\text {c }}$ | LOS $^{\text {d }}$ | $95 \mathrm{Q}^{\text {e }}$ |
| Underpass Road at Site Driveway |  |  |  |  |  |
| Weekday Morning |  |  |  |  |  |
| EB L/R | 10 | 0.02 | 10 | B | 0 |
| NB L | 5 | 0.00 | 8 | A | 0 |
| Weekday Evening |  |  |  |  |  |
| EB L/R | 40 | 0.07 | 12 | B | 5 |
| NB L | 20 | 0.02 | 8 | A | 3 |
| Saturday Midday |  |  |  |  |  |
| EB L/R | 60 | 0.12 | 12 | B | 10 |
| NB L | 35 | 0.03 | 8 | A | 3 |
| a Demand |  |  |  |  |  |
| b Volume to capacity ratio. |  |  |  |  |  |
| c Ave | Average total delay, in seconds per vehicle. |  |  |  |  |
| d Leve | Level-of-service. |  |  |  |  |
| e 95th | 95 th percentile queue, in feet. |  |  |  |  |
| \# 95th | 95th percentile volume exceeds capacity, queue may be longer. |  |  |  |  |
| m Volu | Volume for 95 th percentile queue is metered by upstream signal. |  |  |  |  |

As shown in Table 3, all movements at the study area intersection operate at LOS B or better during the critical weekday morning, weekday evening, and Saturday midday peak hours for the 2025 Build Conditions.

## Sight Distance

Access to the site is proposed via a single access driveway off Underpass Road north of Sara Ann Lane.

VHB conducted a sight distance analysis, conforming to guidelines of the American Association of State Highway and Transportation Officials (AASHTO) ${ }^{4}$, at the location of the proposed site driveway at 162 Underpass Lane. Sight distance is generally divided into two categories: Stopping Sight Distance (SSD) and Intersection Sight Distance (ISD). Stopping Sight Distance (SSD) is the distance required for a vehicle approaching an intersection from either direction to perceive, react and come to a complete stop before colliding with an object in the road, in this case the exiting vehicle from a driveway. In this respect, SSD can be considered as the minimum visibility criterion for the safe operation of an unsignalized intersection.

Intersection Sight Distance (ISD) is based on the time required for perception, reaction, and completion of the desired critical exiting maneuver once the driver on a minor street or driveway approach decided to execute the maneuver. Calculation for the critical ISD includes the time to (1) turn left, and to clear the half of the intersection without conflicting with the vehicles approaching from the left; and (2) accelerate to the operating speed of the roadway without causing approaching vehicles to unduly reduce their speed. In this context, ISD can be considered as a desirable visibility criterion for the safe operation of an unsignalized intersection. Essentially, while SSD is the minimum distance needed to avoid collisions, ISD is the minimum distance needed so that mainline motorists will not have to substantially reduce their speed due to turning vehicles. To maintain the safe operation of an unsignalized intersection, ISD only needs to be equal to the stopping sight distance, though it is desirable to meet ISD requirements by themselves.

To calculate the required SSD and ISD at the proposed unsignalized Site driveway intersections, a 40 miles-per-hour (mph) design speed was used based on the observed speed limit. Table 4 summarizes the sight distance analysis.

Table 4 Sight Distance Analysis Summary

|  | Stopping Sight Distance (ft) ${ }^{\text {a }}$ |  |  | Intersection Sight Distance (ft) ${ }^{\text {a }}$ |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Traveling | Required | Measured | Turning | Desired | Measured |
| Underpass Road <br> at Site Driveway | Northbound | 325 | $330 \pm$ | Looking Left | 465 | $>500 \pm$ |
|  | Southbound | 295 | $>500 \pm$ | Looking Right | 395 | $285 \pm$ |

a Based on guidelines established in A Policy on the Geometric Design of Highways and Streets, Seventh Edition(2nd Printing), American Association of State Highway and Transportation Officials (AASHTO), an observed $85^{\text {th }}$ percentile speed of 42 mph NB and 41 mph SB was used (based on a February 2023 ATR conducted at the site driveway)

As shown in Table 3, the minimum stopping sight distance (SSD), meets or exceeds the minimum requirements. It should be noted that meeting or exceeding SSD is necessary for sight distance to ensure adequate sight lines are available. As shown in the table, the desirable intersection sight distance (ISD) is met for looking left but not looking right. Meeting ISD is desirable but not necessarily a requirement. The ISD is not met for the right-turn condition due to horizonal curvature in the roadway. To the south of the driveway there is currently some vegetation and overhanging trees that will eventually have an influence on the sight distance. With that in mind, we suggest the area be trimmed back including the overhanging tree canopies. In addition, to raise awareness of the proposed driveway as well as the driveway to the north on the east side of the street, VHB recommends the installation of intersection ahead signage on the northbound approach. The sign should be placed per M.U.T.C.D guidelines.

[^2]Memorandum

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## Sidewalk and Crosswalk

VHB has been told that the town is requesting that the proponent construct a sidewalk along the site frontage and a crosswalk across Underpass Road to the sidewalk that exists on the east side of the roadway. With this in mind, VHB has assessed the potential location of a crosswalk given the vertical curves in the roadway. Based on in field measurements and review of geometry, it appears that the most appropriate place for a crosswalk is at the northwest corner of Sara Ann Lane which is at the crest of the vertical curve (shown below).


Review of sight distance in this area suggests that good visibility is available in both directions for both ISD and SSD. The approximately values are presented in Table 5 below.

Table 5 Sight Distance Analysis Summary

|  | Stopping Sight Distance (ft) ${ }^{\text {a }}$ |  |  | Intersection Sight Distance (ft) a |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Traveling | Required | Measured | Turning | Desired | Measured |
| Underpass Road <br> at Site Driveway | Northbound | 325 | $>1,000 \pm$ | Looking Left | 465 | $>1,000 \pm$ |
|  | Southbound | 295 | $>1,000 \pm$ | Looking Right | 395 | $>1,000 \pm$ |

a Based on guidelines established in A Policy on the Geometric Design of Highways and Streets, Seventh Edition(2 ${ }^{\text {nd }}$ Printing), American Association of State Highway and Transportation Officials (AASHTO), an observed $85^{\text {th }}$ percentile speed of 42 mph NB and 41 mph SB was used (based on a February 2023 ATR conducted at the site driveway)

The location of the crosswalk will need to be approved by the Town of Brewster and all pavement markings and signage will need to conform to the M.U.T.C.D guidelines. Trimming of brush in the sight line quadrants and overhead should be performed regularly to ensure that sight lines are maintained in the future.

## Transportation Demand Management Plan (TDM)

Implementation of Traffic Demand Measures (TDM) will offer alternatives to traveling in single occupancy vehicles to arrive and depart the site. This is geared toward reducing traffic and parking demand on the Site. As part of the proposed project, the following TDM measures will be implemented on Site:

- Establish a Transportation Demand Management (TDM) Program coordinator that will be responsible for the program as well as surveys of programs identified below.
- Upon moving in, all tenants will be provided a welcome package that will include descriptions of all TDM initiatives that are offered on-site. This will include a map of existing pedestrian and bicycle infrastructure in the area.
- Bike Racks will be provided in a central location on-site.
- Implement an onsite car-pool rideshare program with guaranteed ride home for employees.
- By virtue of the variety of uses on site, varied work hours would be expected by the various uses.
- Pending approval of the project, a TDM Implementation Plan will be developed for use by the transportation coordinator.

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## Attachments

Proposed Site Plan


Trip Generation

ITE TRIP GENERATION WORKSHEET
(11th Edition, Updated 2021)

LANDUSE: Specialty Trade Contractor LANDUSE CODE: 180

Independent Variable --- 1,000 Sq. Feet Gross Floor Area
SETTING/LOCATION: General Urban/Suburban

## JOB NAME:

JOB NUMBER:

$$
\text { FLOOR AREA (KSF): } \quad 5.00
$$



| SATURDAY |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RATES: | \# Studies |  | $\mathrm{R}^{\wedge} 2$ | Total Trip Ends |  |  | Independent Variable Range |  |  | Directional Distribution |  |
|  |  |  | Average | Low | High | Average | Low | High | Enter | Exit |
|  | DAILY | -- |  | -- | -- | -- | -- | -- | -- | -- | -- | -- |
|  | PEAK OF GENERATOR | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TRIPS: | DAILYPEAK OF GENERATOR |  |  | BY AVERAGE |  |  | BY REGRESSION |  |  |  |  |
|  |  |  |  | Total | Enter | Exit | Total | Enter | Exit |  |  |
|  |  |  |  | -- | -- | -- | -- | -- | -- |  |  |
|  |  |  |  | -- | -- | -- | -- | -- | -- |  |  |
| RATES: |  |  |  | SUNDAY |  |  | Independent Variable Range |  |  | Directional Distribution |  |
|  |  |  |  | Total Trip Ends |  |  |  |  |  |  |  |
|  | DAILYPEAK OF GENERATOR | \# Studies | $\mathrm{R}^{\wedge} 2$ | Average | Low | High | Average | Low | High | Enter | Exit |
|  |  | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
|  |  | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TRIPS: |  |  |  | BY AVERAGE |  |  | BY REGRESSION |  |  |  |  |
|  |  |  |  | Total | Enter | Exit | Total | Enter | Exit |  |  |
|  |  |  | DAILY | -- | -- | -- | -- | -- | -- |  |  |
|  | PEA | K OF GEN | ATOR | -- | -- | -- | -- | -- | -- |  |  |

ITE TRIP GENERATION WORKSHEET
(11th Edition, Updated 2021)

LANDUSE: Single-Family Attached Housing
LANDUSE CODE: 215
Independent Variable --- Number of Units
SETTING/LOCATION: General Urban / Suburban

## JOB NAME:

 JOB NUMBER:$\qquad$ units

| WEEKDAY |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RATES: |  |  | Total Trip Ends |  |  | Independent Variable Range |  |  | Directional Distribution |  |
|  | \# Studies | R^2 | Average | Low | High | Average | Low | High | Enter | Exit |
| DAILY | 22 | 0.94 | 7.20 | 4.70 | 10.97 | 120 | 8 | 585 | 50\% | 50\% |
| AM PEAK OF GENERATOR | 31 | 0.91 | 0.55 | 0.35 | 0.97 | 110 | 8 | 452 | 25\% | 75\% |
| PM PEAK OF GENERATOR | 34 | 0.87 | 0.61 | 0.29 | 1.25 | 110 | 8 | 452 | 62\% | 38\% |
| AM PEAK (ADJACENT ST) | 46 | 0.92 | 0.48 | 0.12 | 0.74 | 135 | 8 | 700 | 25\% | 75\% |
| PM PEAK (ADJACENT ST) | 51 | 0.91 | 0.57 | 0.17 | 1.25 | 136 | 8 | 700 | 59\% | 41\% |
| TRIPS: |  |  | BY AVERAGE |  |  | BY REGRESSION |  |  |  |  |
|  |  |  | Total | Enter | Exit | Total | Enter | Exit |  |  |
|  |  | DAILY | 7 | 4 | 4 | -43 | -21 | -21 |  |  |
| AM PE | AK OF GEN | RATOR | 1 | 0 | 0 | 1 | 0 | 1 |  |  |
| PM PE | AK OF GEN | RATOR |  | 0 | 0 | 1 | 1 | 0 |  |  |
| AM PE | AK (ADJA | NT ST) | 0 | 0 | 0 | -5 | -1 | -4 |  |  |
| PM PE | AK (ADJA | NT ST) | 1 | 0 | 0 | -3 | -2 | -1 |  |  |

## SATURDAY

| RATES: |  |  |  | Total Trip Ends |  |  | Independent Variable Range |  |  | Directional Distribution |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | \# Studies | R^2 | Average | Low | High | Average | Low | High | Enter | Exit |
|  | DAILY | 5 | 0.91 | 8.76 | 6.75 | 11.40 | 100 | 48 | 147 | 50\% | 50\% |
|  | PEAK OF GENERATOR | 7 | 0.91 | 0.57 | 0.46 | 0.93 | 182 | 48 | 462 | 48\% | 52\% |
| TRIPS: |  |  |  | BY AVERAGE |  |  | BY REGRESSION |  |  |  |  |
|  |  |  |  | Total | Enter | Exit | Total | Enter | Exit |  |  |
|  |  |  | DAILY | 9 | 4 | 4 | -431 | -216 | -216 |  |  |
|  | PEA | K OF GEN | ATOR | 1 | 0 | 0 | 2 | 1 | 1 |  |  |


| SUNDAY |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RATES: | \# Studies |  | R^2 | Total Trip Ends |  |  | Independent Variable Range |  |  | Directional Distribution |  |
|  |  |  | Average | Low | High | Average | Low | High | Enter | Exit |
|  | DAILY | 5 |  | 0.93 | 7.17 | 5.52 | 8.41 | 100 | 48 | 147 | 50\% | 50\% |
|  | PEAK OF GENERATOR | 5 | 0.83 | 0.79 | 0.54 | 1.07 | 100 | 48 | 147 | N/A | N/A |
| TRIPS: |  |  |  | BY AVERAGE |  |  | BY REGRESSION |  |  |  |  |
|  |  |  |  | Total | Enter | Exit | Total | Enter | Exit |  |  |
|  |  |  | DAILY | 7 | 4 | 4 | -252 | -126 | -126 |  |  |
|  | PEA | K OF GEN | RATOR | 1 | N/A | N/A | 12 | N/A | N/A |  |  |

ITE TRIP GENERATION WORKSHEET
(11th Edition, Updated 2021)

LANDUSE: Strip Retail Plaza (<40k)
LANDUSE CODE: 822
Independent Variable ---
SETTING/LOCATION: General Urban/Suburban

## JOB NAME:

JOB NUMBER:
FLOOR AREA (KSF): $\qquad$


ITE TRIP GENERATION WORKSHEET
(11th Edition, Updated 2021)
LANDUSE: Fast Casual Restaurant
LANDUSE CODE: 930
JOB NAME:
JOB NUMBER:

| WEEKDAY |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RATES: | \# Studies | R^2 | Total Trip Ends |  |  | Independent Variable Range |  |  | Directional Distribution |  |
|  |  |  | Average | Low | High | Average | Low | High | Enter | Exit |
| DAILY | 1 | -- | 97.14 | 97.14 | 97.14 | 1.40 | 1.40 | 1.40 | 50\% | 50\% |
| AM PEAK OF GENERATOR | 1 | -- | 5.71 | 5.71 | 5.71 | 1.40 | 1.40 | 1.40 | 63\% | 37\% |
| PM PEAK OF GENERATOR | 1 | -- | 18.57 | 18.57 | 18.57 | 1.40 | 1.40 | 1.40 | 62\% | 38\% |
| AM PEAK (ADJACENT ST) | 1 | -- | 1.43 | 1.43 | 1.43 | 1.40 | 1.40 | 1.40 | 50\% | 50\% |
| PM PEAK (ADJACENT ST) | 15 | 0.65 | 12.55 | 5.94 | 27.40 | 3.00 | 1.40 | 5.02 | 55\% | 45\% |
| TRIPS: |  |  | BY AVERAGE |  |  | BY REGRESSION |  |  |  |  |
|  |  |  | Total | Enter | Exit | Total | Enter | Exit |  |  |
|  |  | DAILY | 321 | 160 | 160 | -- | -- | -- |  |  |
| AM PE | AK OF GEN | RATOR | 19 | 12 | 7 | -- | -- | -- |  |  |
| PM PE | AK OF GEN | RATOR | 61 | 38 | 23 | -- | -- | -- |  |  |
| AM PE | EAK (ADJA | NT ST) | 5 | 2.360 | 2.36 | -- | -- | -- |  |  |
| PM PE | AK (ADJA | NT ST) | 41 | 23 | 19 | 43 | 24 | 19 |  |  |


| SATURDAY |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RATES: | \# Studies |  | $\mathrm{R}^{\wedge} 2$ | Total Trip Ends |  |  | Independent Variable Range |  |  | Directional Distribution |  |
|  |  |  | Average | Low | High | Average | Low | High | Enter | Exit |
|  | DAILY | -- |  | -- | -- | -- | -- | -- | -- | -- | -- | -- |
|  | PEAK OF GENERATOR | 2 | -- | 32.64 | 32.26 | 33.00 | 5.00 | 4.65 | 5.00 | 55\% | 45\% |
| TRIPS: |  |  |  | BY AVERAGE |  |  | BY REGRESSION |  |  |  |  |
|  |  |  |  | Total | Enter | Exit | Total | Enter | Exit |  |  |
|  |  |  | DAILY | -- | -- | -- | -- | -- | -- |  |  |
|  | PEAK OF GENERATOR |  |  | 108 | 59 | 48 | -- | -- | -- |  |  |


| SUNDAY |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RATES: |  | \# Studies | $\mathrm{R}^{\wedge} 2$ | Total Trip Ends |  |  | Independent Variable Range |  |  | Directional Distribution |  |
|  |  |  |  | Average | Low | High | Average | Low | High | Enter | Exit |
|  | DAILY | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
|  | PEAK OF GENERATOR | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TRIPS: |  |  |  | BY AVERAGE |  |  | BY REGRESSION |  |  |  |  |
|  |  |  |  | Total | Enter | Exit | Total | Enter | Exit |  |  |
|  |  |  | DAILY | -- | -- | -- | -- | -- | -- |  |  |
|  | PEAK | AK OF GEN | ATOR | -- | -- | -- | -- | -- | -- |  |  |

Intersection Capacity Analysis

Nearby Permanent Count Station Data

Location ID: 7143
Harwich Road south of Route 137
Tuesday (8/22/2023) Wednesday (8/23/2023) Weekday Average Saturday (8/26/2023)
35063631
3568.5

3244

Location ID: 7142
Route 137 (Long Pond Road) west of Route 124
Tuesday (8/22/2023) Wednesday (8/23/2023) Weekday Average
3872
3921
3562



| Location Info |  |  |  |  |  | Count Data Info |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Location <br> ID | 7142 |  |  |  |  | Start Date |  | 8/22/2023 |
| Type | I-SECTION |  |  |  |  | End Date |  | 8/23/2023 |
| Functiona I Class |  |  |  |  | 4 | $\begin{aligned} & \text { Start } \\ & \text { Time } \end{aligned}$ |  | 12:00 PM |
| Located On | LONG POND ROAD |  |  |  |  | End Time |  | 12:00 PM |
| WEST OF | Rt 124 |  |  |  |  | Direction |  |  |
| Direction | 2-WAY |  |  |  |  | Notes |  |  |
| Communi ty | Brewster |  |  |  |  | Count Source |  |  |
| MPO_ID | 41000203560 |  |  |  |  | File Name |  |  |
| HPMS ID |  |  |  |  |  | Weather |  |  |
| Agency | Massachusetts Highway Department |  |  |  |  | Study |  |  |
|  |  |  |  |  |  | Owner | tdcms |  |
|  |  |  |  |  |  | QC Status | Accept |  |
| Interval: 15 mins |  |  |  |  |  |  |  |  |
| Time | 15 Min |  |  |  | Hourly Count |  |  |  |
|  | 1st | 2nd | 3rd | 4th |  |  |  |  |
| $\begin{array}{\|l\|} \hline 00: 00- \\ 01: 00 \end{array}$ |  | 0 | 1 | 4 | 7 |  |  |  |
| $\begin{aligned} & \text { 01:00- } \\ & \text { 02:00 } \end{aligned}$ | 1 | 2 | 0 | 1 | 4 |  |  |  |
| 02:00- | 0 |  |  |  |  |  |  |  |
| 03:00 |  | 1 | 1 | 0 | 2 |  |  |  |
| $\begin{aligned} & \text { 03:00- } \\ & \text { 04:00 } \end{aligned}$ | 0 | 3 | 0 | 3 | 6 |  |  |  |
| $\begin{aligned} & \text { 04:00 - } \\ & \text { 05:00 } \end{aligned}$ | 1 | 0 | 2 | 3 | 6 |  |  |  |
| $\begin{aligned} & \text { 05:00- } \\ & \text { 06:00 } \end{aligned}$ | 10 | 5 | 6 | 12 | 33 |  |  |  |
| $\begin{aligned} & \hline 06: 00- \\ & 07: 00 \end{aligned}$ | 13 | 12 | 22 | 19 | 66 |  |  |  |
| $\begin{aligned} & \text { 07:00- } \\ & \text { 08:00 } \end{aligned}$ | 26 | 46 | 71 | 55 | 198 |  |  |  |
| $\begin{array}{\|l\|} \hline 08: 00- \\ 09: 00 \end{array}$ | 59 | 58 | 63 | 83 | 263 |  |  |  |
| $\begin{aligned} & \text { 09:00- } \\ & 10: 00 \end{aligned}$ | 69 | 75 | 84 | 80 | 308 |  |  |  |
| $\begin{aligned} & \hline 10: 00- \\ & 11: 00 \end{aligned}$ | 64 | 61 | 75 | 88 | 288 |  |  |  |
| $\begin{aligned} & \text { 11:00- } \\ & \text { 12:00 } \end{aligned}$ | 76 | 90 | 85 | 75 | 326 |  |  |  |
| $\begin{aligned} & \hline \text { 12:00- } \\ & \text { 13:00 } \end{aligned}$ | 88 | 71 | 95 | 79 | 333 |  |  |  |
| $\begin{aligned} & \hline 13: 00- \\ & 14: 00 \end{aligned}$ | 78 | 74 | 70 | 67 | 289 |  |  |  |
| $\begin{aligned} & 14: 00- \\ & 15: 00 \end{aligned}$ | 78 | 83 | 93 | 80 | 334 |  |  |  |
| $\begin{aligned} & 15: 00- \\ & 16: 00 \end{aligned}$ | 63 | 86 | 81 | 87 | 317 |  |  |  |
| $\begin{aligned} & \text { 16:00- } \\ & \text { 17:00 } \end{aligned}$ | 80 | 74 | 65 | 72 | 291 |  |  |  |
| $\begin{aligned} & \hline \text { 17:00- } \\ & \text { 18:00 } \end{aligned}$ | 82 | 80 | 93 | 65 | 320 |  |  |  |
| $\begin{aligned} & \hline 18: 00- \\ & 19: 00 \end{aligned}$ | 48 | 66 | 57 | 43 | 214 |  |  |  |
| $\begin{aligned} & 19: 00- \\ & 20: 00 \end{aligned}$ | 23 | 41 | 30 | 28 | 122 |  |  |  |
| $\begin{aligned} & \text { 20:00- } \\ & 21: 00 \end{aligned}$ | 41 | 25 | 28 | 26 | 120 |  |  |  |
| $\begin{aligned} & 21: 00- \\ & 22: 00 \end{aligned}$ | 19 | 22 | 14 | 13 | 68 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 23:00 - |  |  |  |  | 14 |  |  |  |
| TOTAL |  |  |  |  | 3970 |  |  |  |





Sight Distance

## Stopping Sight Distance and Intersection Sight Distance Calculator [v0.97] Based on 'A Policy on Geometric Design of Highways and Streets', AASHTO, 2004

Complete three sections - Sections I, II, and III - on the 'Summary' tab
Read Section IV for guidance
Enter data into cells shaded in light green only
Review/adjust all drop-down values

Ideally: Effort should be made to meet or exceed the desirable ISD measurement.
Minimally: Every intersection must meet the required SSD measurement, which in turn will equal the minimum ISD requirement.

Values in are calculated, based on the guidelines in the 2004 AASHTO 'Greenbook'
You may want to adjust the zoom percentage for a comfortable viewing area

Stopping Sight Distance and Intersection Sight Distance Calculator [v0.97] Based on 'A Policy on Geometric Design of Highways and Streets', AASHTO, 2004


## Stopping Sight Distance and Intersection Sight Distance Calculator [v0.97]

 Based on 'A Policy on Geometric Design of Highways and Streets', AASHTO, 2004ISD - Intersection sight distance is the distance that is based on the time required for perception, reaction and completion of the desired critical exiting maneuver [typically, a left turn] once the driver on a minor street approach [or a site drive] decides to execute the maneuver. Calculation for the critical ISD includes the time to [1] turn left, and to clear the near half of the intersection without conflicting with the vehicles approaching from the left; and [2] upon turning left, to accelerate to the operating speed on the roadway without causing approaching vehicles on the main road to unduly reduce their speed. In this context, ISD can be considered as a desirable visibility criterion for the safe operation of an unsignalized intersection.

SSD - Stopping sight distance is the distance required for a vehicle approaching an intersection from either direction to perceive, react, and
come to a complete stop before colliding with the exiting vehicle from a driveway. In this respect, SSD can be considered as the minimum come to a complete stop before colliding with the exiting vehicle from a driveway. In this respect, SSD can be considered as the minimum visibility criterion for the safe operation of an unsignalized intersection

## B1

(left turn from minor road)

B2
(right turn from the minor road)

B3
crossing maneuver from the minor road)
$F$
left turns from the major road)

Required ISD is the distance to a vehicle on the major street (either to the left or the right), required for a stopped vehicle on the side street to safely turn left, accelerate, and complete a left turn without unduly interfering with the major street traffic operations. Sight distances shown for case B1 should be provided in both directions for all minor street approaches with no turn restrictions.

Required ISD is the distance to a vehicle on the major street (to the left), required for a stopped vehicle on the side street to safely turn right, accelerate, and complete a right turn without unduly interfering with the major street traffic operations. Case B2 is sufficient only if left turns are restricted out of the minor street approach. Use Case B1 if left turns are allowed from the minor street approach.

Required ISD is the distance to a vehicle on the major street, required for a stopped venicle on the side street to safely cross the major street without unduly interfering with the major street traffic operations. Case B3 is fro from the minor street approach

Required ISD is the distance to a vehicle on the major street required for an opposing, left-turning vehicle on the major street to safely complete a left turn without unduly interfering with the opposing major street traffic operations

## Note:

'unduly': When intersection sight distances in conformance with $\mathrm{B} 1, \mathrm{~B} 2$, and B 3 are available, most drivers on the major street should not need to reduce their speed to less than $70 \%$ of their initial speed



# Town of Brewster 

Office of:
2198 Main Street
Brewster, MA 02631-1898
Phone: (508) 896-3701
Fax: (508) 896-8089

## REPORT

```
TO: 162 Underpass, LLC
    The Free Sea Turtle, LLC
FROM: Jon Idman, Town Planner
RE: Staff Review ##s 23-5 and 23-6, Second Round
    Brewster Code Chapter 83, Section 4(D)
    162 Underpass Road, Lot 1 (Map 77, Parcel 9)
    0 Underpass Road, Lot 2 (Map 77, Parcel 10) and Lot 3 (Map 77, Parcel 60)
    Lots 1,2 & 3 Plan Book 698 Page 25
DATE: August 11,2023
```

Proposed multi-building/ multi-unit commercial development with accessory commercial dwelling units on separate development sites along with supporting improvements (Lot 1 and Lot 2). Shared development infrastructure (parking, stormwater, etc.) on Lot 3.

CH commercial district.
Preliminary site plans for staff review 2 prepared by J.M. O'Reilly, dated 7/13/23 for Lot 1 and dated 7/14/23 for Lots 2 and 3, proposed to be combined.

As separately owned/controlled developments on separate lots, the proposed development as depicted would not require mandatory DRI referral/ review by the Cape Cod Commission.

The Staff Review meeting was held $8 / 4 / 23$ at Town Hall, Room B with the following representatives of the Applicant:

- Paul Wallace
- John O'Reilly, PE, PLS

Town Staff in attendance

- Jim Gallagher- Deputy Assessor
- Bill Grafton - Conservation Administrator
- Jon Idman - Town Planner
- Amy von Hone - Health Director
- Chris Miller - Natural Resources Director
- Robert Moran- Fire Chief
- Alex Provos- Asst. Water Superintendent
- Davis Walters - Building Commissioner
- Griffin Ryder - DPW Director
- Donna Kalinick - Asst. Town Manager


## Comments

## Conservation

1. Under the current Order of Conditions and Amended OOC/SE9-1920 a required mitigation is located in a well vegetated buffer zone about 20 feet from the wetlands and potential vernal
pool. Chris Miller and I reviewed this in the field with Paul Wallace. It appears that this mitigation might be better located within the disturbed $0-50$ foot setback.
2. Some of the conservation objectives may dovetail with the stormwater objectives by adding additional mitigation plantings where the plants might reduce stormwater adverse effects.
3. Coordinating the relocation of the current and new mitigation plantings on the site plans to be submitted to Conservation for the new NOI and to Planning for the new SWMP Permit would ensure the success of the plantings, reduce any adverse effects and help the project meet the stormwater requirements.
4. Conservation mitigation might also include some sort of berm or elevated hill extending from the existing storage corrals to prevent untreated stormwater from sheeting into the wetlands and potential vernal pool. Conservation markers might be a helpful reminder to the business owners about the presence of the wetlands and potential vernal pool.
5. The Order of Conditions/SE9-1920 and SE9-1920 Amended should be closed with a Certificate of Compliance after the Conservation Commission has approved and issued the new Order of Conditions and proof of recording has been provided to the Conservation Administrator.
6. The SWMC2023-01 (stormwater permit through Conservation) should be closed out with a Certificate of Compliance after the Planning Board has approved and issued the new SWMP Permit.
7. Below are common standard Special Conditions within the Order of Conditions that are included and should be considered by the applicants for project design purposes.

A11. Any debris, fill or excavated material on site shall be stockpiled away from designated wetlands. Unsuitable or excess excavated material shall be properly stabilized or removed from the site.

A12. All structures, facilities and equipment, as part of this project, shall be continually operated and maintained so as to comply with this permit. This provision applies specifically to all equipment used on this project. Any leakage of oil, hydraulic fluid, fuel, or any other pollutant shall be cleaned up immediately, and the defective equipment responsible for said leakage shall be immediately repaired or taken off site.

A13. Mulch shall not be a substitute for groundcover or shrubs in jurisdictional areas.
A14. Any fertilizers used within 100 feet of any wetland resources shall be listed by or comprised of organic ingredients consistent with the United States Department of Agriculture National Organic Program (NOP). Organic fertilizers shall be used in an appropriate manner for the conditions of the subject property, and applied in accordance to the manufacturer's specifications.

A15. Pesticides, herbicides and fungicides shall be prohibited within 100 feet of any wetlands.
A16. Installation of in-ground irrigation systems shall be prohibited within 100 feet of any wetland resource areas. Any components of the existing in-ground irrigation system within 100 feet of the wetland resource areas shall be removed. Temporary above ground irrigation systems may be used to establish mitigation plantings.

A17. Spotlights and floodlights shall not be installed within the 100 foot buffer zone of a resource area; nor shall any spotlight or floodlight penetrate a resource area or 100 foot buffer zone. Any existing spotlights or flood lights within 100 feet of the wetland resource areas shall be removed. Any existing spotlights or flood lights which may illuminate the 100 foot buffer shall be directed downward and shielded so the light does not illuminate wildlife habitat in jurisdictional areas.

## Planning/Zoning

1. It makes sense to do a single stormwater permit (major) that applies to both properties because it is a shared system per plan. I think it makes sense for the PB to review the SWM permit. The SWM permit can be coordinated with PB site plan review and special permit review processes.
2. I'd suggest there's an opportunity for LID in the SWM system design by introducing a raingarden or swale into the parking island, which would then convey to the subsurface leaching facility. The two proposed 'stormcepter' subsurface treatment units could probably be eliminated in favor of natural WQ treatment from a raingarden or the like.
3. Submission of a copy of the drainage/access/ parking cross-easement will be a condition of the Pl Bd permit.
4. If desired by applicants, they could request a reduction in spaces because of shared parking. Cite shared parking provision of zoning bylaw in zoning application/s.
5. Please add a plan note that Lot 4 is not part of the proposal.
6. Preferably conservation commission review would occur prior to Planning Board review.
7. An 81 X plan will be done/ recorded to merge lots $2 \& 3$. Ideally this is done before planning board review.
8. The Master Sign approval goes through the Bldg Comm unless an increase in size is requested (which requires a Pl Bd special permit).
9. Bike racks should be added (maybe on the patio?)
10. The zoning application/s should provide lighting fixture 'cut' sheets.
11. The zoning application/s should address the zoning standards for parking spaces 20 spaces or greater (wheelstops, etc).
12. The transportation study should address why the proposed driveway location is in the best possible location.
13. If no loading spaces are proposed, the reasoning should be addressed in the zoning applications.
14. A trip generation study should be conducted based on the full development of both properties.
15. Landscape should focus on the Underpass Road frontage. Consider using natives. I'm not sure there's a reason for landscaping/ screening the southern property (or the north of the site unless wetlands mitigation planting). Landscape screening should be considered for the town (school) property to the west.
16. If a fence between the properties is proposed to separate the contractor from commercial/ restaurant uses, it should be place where it makes sense for this function rather than the property line necessarily.
17. Wallace: A special permit is needed for restaurant use (please specify full or limited service, or both. Limited service has a higher parking and more frequent trip demand generally). Add a loading area for the restaurant? If outside tables or other amenities are proposed (which would be a benefit IMO), the plan should show them. I imagine that the PB will be interested in building design, at least and primarily for the restaurant building. Bollards might be proposed to prevent crashing into the bays. Ice cream is considered a limited service restaurant use.
18. Whitcomb: A special permit is needed for construction/ trades building use. Note: only four businesses/ buildings are allowed for this use as defined under the zoning bylaw. Also please list all related proposed zoning uses for completeness of application even if allowed by right, e.g. parking of two or more commercial vehicles, material/ equipment storage. Note: in the $\mathbf{C H}$ district, material/ equipment storage must be related and accessory to the businesses on site. Outside storage or wholesale material sales as a stand- alone/ principal use are not permitted.
19. The landscaping/ stormwater plans for the proposed developments should consider management of existing or potential import of invasive species.
20. Consider a shared septic system (which would be I/A under local health regulations because gallonage would be greater than 2000 gpd)?
21. Discuss Lot 5 (northerly wetlands lot under common ownership) with BCT? (BCT owns abutting land and has a trail to the former e-Spa property on Main Street).

## Health

Wallace:

1. This parcel of land lies outside the Zone II, and the District of Critical Planning Concern (DCPC) and has access to town water. The property is located within an Environmentally Sensitive Area (ESA) per our local BoH regulation. The Property would be restricted to $110 \mathrm{gpd} / 10,000 \mathrm{sf}$ of land area if there are any variances required for the proposed septic system. The total land area is $42,200 \mathrm{SF}+/$.
2. Based on the current proposal total daily flow required is $3,470 \mathrm{gpd}$, the proposed plan shows $4,736 \mathrm{gpd}$ is proposed. Since the total daily flow is greater than $2,000 \mathrm{gpd}$, local BoH regulations (Small Wastewater Treatment Facilities) requires a denitrification system to meet the 10 ppm (Nitrogen $10 \mathrm{mg} / 1$, Nitrate Nitrogen $19 \mathrm{mg} / \mathrm{l}$ ) due to lot size. A dinitrogen system has been proposed on the current plan. Soil testing and evaluation was conducted on September 27, 2022.
3. The restaurant service will require a grease trap as part of the septic system. A grease trap is represented on the plan but is not listed in the notes.
4. The plan design lists a 74 -seat restaurant and a 76 - seat restaurant. The plan notes list one $76-84$ seat restaurant X $35 \mathrm{gpd} /$ seat $=2,660 \mathrm{gpd}$. The actual number of seats will need to be determined for final review.
5. If the bays are to be accessible by vehicles, floor drains will be required in each bay and each floor drain will need to be connected to an industrial wastewater holding tank.
6. Any proposed hazardous material storage or disposal must meet appropriate requirements.
7. Prior to construction, septic plans and a Building Waiver Application will need to be submitted to the Health Department for full department review prior to final approval.
8. Septic design to be revised to accommodate 8 Bays total.
9. Any proposed outdoor seating with waiter/waitress service for the proposed restaurant must be included in the total septic capacity. Additionally, proposed outdoor food service will require approval of an Outdoor Café license through the Board of Health.
10. Nitrogen loading calculations to be submitted with the septic design and building permit applications for review (maximum 10 ppm Total Nitrogen).
11. Full Board of Health review of the proposed I/A technology system will be required.

Whitcomb:

1. This parcel of land lies outside the Zone II, and the District of Critical Planning Concern (DCPC) and has access to town water. The property is located within an Environmentally Sensitive Area (ESA) per our local BoH regulation. The Property would be restricted to $110 \mathrm{gpd} / 10,000 \mathrm{sf}$ of land area if there are any variances required for the proposed septic system. The total land area is $40,675+/-\mathrm{SF}$, wetland area is $306 \mathrm{SF}+/$-, and upland area is $40,579 \mathrm{SF}+/$ - .
2. Based on the current proposal, total daily flow required is 370 gpd , the proposed plan shows 444 gpd is proposed. Soil testing and evaluation was conducted on September 27, 2022.
3. If the bays are to be accessible by vehicles, floor drains will be required in each bay and each floor drain will need to be connected to an industrial wastewater holding tank.
4. Any proposed hazardous material storage or disposal must meet appropriate requirements.
5. Prior to construction, septic plans and a Building Waiver Application will need to be submitted to the Health Department for full department review prior to final approval.

Fire
See attached comments.

DPW

1. DPW suggests evaluating the proposed stormwater system to determine if a non-structural, vegetated treatment (potentially a rain garden or bioretention area) in lieu of the stormceptor water quality units could be incorporated into the design.
2. An additional catch basin may be required to collect the stormwater runoff generated from the gravel surface area.
3. The delineation between the gravel surface and bituminous should be clearly identified on the plans.
4. DPW recommends that a sidewalk be incorporated to connect the site to the existing sidewalk across the street. This connection would include the review and location of a new crosswalk with accessible curb ramps. This work would need to be coordinated with the DPW and would be at the expense of the developer/applicant.
5. Please double check the parking counts included on each of the plans.
6. The plans for the southern development indicate 5 commercial bays, however in the staff meeting it was clarified to be 8 bays. This should be corrected on the plans and the wastewater calculations.
7. Access to the bays on the southern development are impeded by the proposed parking as currently designed. Full access to the bays may result in the loss of parking.
8. It should be noted that the maximum vehicle size accessing the commercial bays for the northern development appears to be limited by the parking and the drive aisle in front of the bays.

## Town Administration

1. Administration requests that a site visit occur with the proponents, Town staff and school staff to discuss screening/security measures where the land borders school property.
2. Administration needs to further explore the existing town easement that borders the proponent's development.
3. There was discussion about a potential crosswalk being placed near the new proposed development. This would require traffic study, coordination with Public Works and would be at the expense of the developer, not the Town.
4. Discussion about the importance of landscaping and some type of buffer between the two proposed developments took place; we expect that this will be defined during the Planning Board process.

ENC


## Brewster Planning Department

2198 Main Street
Brewster, MA 02631-1898
508-896-3701 $\times 1133$
brewplan@brewster-ma.gov

## Staff Review

## Data Transmittal Sheet

__ James Gallagher, Assessor's Department
__ Davis Walters, Building Department/HDC
_ Bill Grafton, Conservation Department
__ Griffin Ryder, Department of Public Works
_ Chief Robert Moran, Fire DepartmentDeputy Chief Kevin Varley, Fire Department
_ Amy vol Hone, Health Department/WQRC
$\qquad$ Jill Scalise, Housing Office
_ Chris Miller, Natural Resources Department
_ Jon Idman, Planning Department
_ Lt. Charles Mawn, Police Dept
$\qquad$ Peter Lombardi, Town Manager's Office $\sum$ Donna Kalinick, Town Manager's Office _ Paul Anderson, Water Department

Date Submitted
Date Transmitted

July 20, 2023
July 24, 2023

Applicant Paul Wallace
Proposal The Applicant proposes to construct a new $90^{\prime} \times 60^{\prime}$ building with five (5) commercial bays and a new $40^{\prime} \times 60^{\prime}$ building for use as a restaurant.

Development 162 Underpass Road Lot 1 (Map 77, Lot 9)
Location
Is application material complete for your preliminary review?

If no, please indicate what additional material, documentation, or information you may wish to see prior to the meeting:
$\qquad$
$\qquad$
$\qquad$

Additional Comments:


[^3] meeting on Friday, August 4, 2023 at 10:00 am in Room B. Thank you.

## Fire Department Comments Underpass Road Wallace Staff Review

1. Commercial bay building and restaurant shall be protected by fire detection and automatic sprinkler systems in accordance with the provisions of the State Building and Fire Code.
2. The facility shall meet all requirements contained within 527 CMR 1.00 Massachusetts Comprehensive Fire Safety Code including Chapter 18 Fire Department Access (attached) and all referenced NFPA Standards.
3. A computer-generated apparatus swept path and turn simulation analysis shall be provided to the fire department for review and approval. Apparatus length for use in swept path analysis shall be $45^{\prime} 9^{\prime \prime}$.
4. Fire department access roads including roadways, fire lanes, and parking lot lanes shall be no less than 20 ' in width.
5. Minimum inside turning radius of fire department access roads shall be $25^{\prime}$. The developer may be required to increase this minimum turning radius to accommodate fire department apparatus.
6. North side of entrance shall be reduced to allow fire apparatus right and left turn access to north side of parking area.
7. Size of parking lot islands may require reduced sizing to allow fire department access.
8. All vehicles shall be parked in designated parking spaces only. Parking for restaurant food pick-up service on interior parking lot lanes shall not be allowed.
9. Dead end fire department access roads more than $150^{\prime}$ in length shall be provided with approved provisions for fire apparatus to turn around (west side of building).
10.All access and interior parking lot lanes shall be designated as fire lanes. All signage and road markings shall be approved by the fire department prior to installation and issuance of a certificate of occupancy.
10. Area in front of garage bays shall be designated as a fire lane. Parking shall not be allowed.
11. A graded gravel pathway no less than $25^{\prime}$ in width shall be installed on the exterior south side of the building to allow fire department access for fire suppression operations.
12. The developer shall install two (2) fire hydrants. The location shall be approved by the fire department prior to installation.
13. The fire department shall approve the location and type of fire department connections for the automatic sprinkler system prior to installation.
14. The fire department shall approve the location of all fire and carbon monoxide detection system reporting panels required under the State Building Code prior to installation.
15. An Emergency Responder Radio Communication System shall be installed in the building per section 916.1 of the Massachusetts State Building Code.
17.A Knox box key vault shall be installed on both buildings. Location and type shall be approved by the fire department prior to installation and issuance of a certificate of occupancy.
16. Street address and building unit numbers shall be approved by the fire department and installed prior to the issuance of a certificate of occupancy.
17. Dependent on occupancy and use of contractor bays, special fire protection/detection systems meeting the State Building and Fire Code may be required.
18. Storage of any hazardous, flammable, combustible, or explosive materials in the contractor bays shall meet the requirements set forth in 527 CMR 1.00 Massachusetts Comprehensive Fire Safety Code.
19. Placement of snow shall not impede fire department access to or travel through parking lot area.
16.8.2 Permils. Pennils, when required, shall comply with Section I.12.
16.8.3 Signs. Approved sigis shall be posted at the entrance, exit and exit access door, decontamination areas, and waste disposal areas for asbostos removal operations.
16.8.3.1 The signs shall state that astestos is being removed from the area, that astestos is a suspexted carcinogen, and that proper respiratory protection is tequired.
16.8.3.2 Signs stall have a reflective surface, and lelicoing shall be a minimum of 2 in . ( 51 mm ) high.
16.9 Floor Finishing or Refinishing. Sec M.G.L. c. 94, \& 329
relating to the prohibition of the sale and use of certain lacquer sealers .(including additives) during the course of commercial wood floor finishing operations.
16.9.1 Genernl. Floor finishing or relinishing requirements shall apply, to persons, or other entities that engage in sanding, finishing or refinishing wood floors, with or wilhout compensation, in any building or structure. No person or cntity shall apply or otherwise use any flammable floor finishing product during the course of any activity relating to the refinishing or finishing of the surface of a wood floor. This shall be in addition to the prohibitions of M.G.L. c. 94, \& 329 relating to the sale and use of certain lacquer sealers during the course of commercial wood floor finishing operations.
16.9.2 Flammable Floor Finishing Product. Flammable floor finishing producl, as used hercin shall mean any clear or pigmented wood finish, formulated with nitrocellulose or synthetic resins to dry by evaporation and without chemical reaction, having a llashpoint below $100^{\circ} \mathrm{F}$, and having a vapor pressure nol exceeding 40 psi al $100^{\circ} \mathrm{F}$, including clear lacquer sanding sealers.
16.9.3 Fire Safety Reguirements. No person shall sand, strip or re-finish wood floors where such sanding, stripping or vapor would create an explosive atmosphere from dust or vapor that when disnersed could be ignited in the air without first complying with the following firc/cxplosion safcty requirements. The requirements in (1) and (3) are not applicable if ventilation or a dust collection cquipment system is used continuously to reduce vapor or dust from accumulating in concentrations that could cause ignition or explosion:
(1) Sources of Iguition. All fires, open flames or other sources of ignition, including smoking makcials, spollights, halogen lights or appliance pilot lights stadl bo eliminated from the area or unit.
(2) Electrical Permit Required. An electrical permit is required when connecting any floor-refinishing machine directly to the electrical panel in accordance with 527 CMR 12.00:
(3) Warning Sigus. Any person or other entity sanding or stripping floors in a building containing more than one dwelling unit shall post suitable warning signs indicating the danger of dust and fire/cxplosion hazard and shall be conspicuously pasted on all doors and entrances to the building and/or unit. Such notice is to be printed in contrasting colors and shall have lettering at least two inches high and should state the name of the operator in charge, the date and time of the operation and the area or -unit where work is to be performed. Wanting signs shall be posted al least 24 hours prior to engaging in such work.
(4) No Smoking signs, featuring the international pictograph prohibiting smoking, must be posted at all entrances to the
house or building before floor sanding or finishing begins $M$ and until 24 hours after the end of all floor sanding and $A$ finishing activitics.
16.9.3.4 Waste Materials. A metal waste-can with a self closing cover shall be provided for all waste materials, including wood dust, and rags. All such materials shall be removed from the building and disposed of daily.

## Chapter 17 Wildife Urban Interface

Delete Chapter 17 in its entirety.

## Chapter 18 Fire Department Access and Water Supply

18.1 General. Fire deparment access and water supplies shall comply with this chapler.

### 18.1.1 Application.

18.1.1.1 This chapter strall apply to public and privately owned fire apparatus access roads.
18.1.1.2 This chapter shall apply to public and privacty owned fire hydrant systems.
18.1.1.3 The fire apparatus access road plans must inciude an analysis and evaluation of fire apparatus maneuvers throughoul the access roads created by swept path analysis and fum simulation software.
18.1.1.4 The fire apparatus access plans shall bear the seal and signature of the responsible registered professional enginecr.
18.1.1.5 Nothing is this Section shall reduce the requirements established by citics or lowns under M.G.L. 40 A and planning and zoning by-laws.
18.1.2 Permits. Permits, where required, shall comply with Section 1.12.
18.1.3 Plans.
18.1.3.1 Fire Apparatus Access. Plans for fire apparatus access roads shall be submitted to the fire department for review and approval prior to construction.
18.1.3.2 Fire Hydrant Systems. Plans and specifications for fire hydrant systems shall be submitted to the fire department for revicw and approval prior to construction.

### 18.2 Fire Department Access.

18.2.1 Fire department access and fire department access roads shall be provided and maintaincd in accordance with Section 18.2.
18.2.2* Access to Structures or Areas.
18.2.2.1 Access Box(cs). The AIIJ shall have the authority to require an access box(es) to be installed in an accessible location where access to or wilhin a structure or area is difficult because of security. The access box(es) shall be of an approved type listed in accordance with UL 1037.
18.2.2.1.1.1 Approval of access roads shall be subject to the AHI and capable of supporting the imposed loads of hire apparatus and shall be provided with an all-weather driving surface and sholl be maintained as provided.
18.2.2.2 Access to Gated Subdivisions or Developments. The AHI shall have the authority to require fire department access be provided to gated subdivisions or developments through the use of an approved device or system.
18.2.2.3 Access Maintenance. The owner or occupant of a structure or area, with required lire department access as specified in 18.2.2.1 or 18.2.2.2, shall notify the AHJ when the
$M$ access is modificd. in a-manner-hat could prevent life
A dopartment-aceess
18.2.3 Fire Department Access Roads.
18.2.3.1 Required Aecess.
18.2.3.1.1 Approved lire department access roads shall bo provided for every facility, building, or portion of a building hercafler constructed or relocated.
18.2.3.1.2 Fire deparment access roads shall consist of roadways, fire lanes, parking lot lanes, or a combination thereof. 18.2.3.1.3* The provisions of 18.2.3.1 through 18.2.3.2.2.1 shall be permitted to be modified by the AHI where any of the following conditions exists:
(1) One- and two-family dwellings protected by an approved automatic sprinkler system in accordance with Section 13.1
(2) Hxisting one- and two-family dwellings
(3) Private garages having an area not exceeding $400 \mathrm{~A}^{2}$
(4) Capports having an area not exceeding $400 \mathrm{ft}^{2}$
(5) Agricullural buildings having an area not exceeding $400 \mathrm{At}^{2}$
(6) Sheds and other detached buildings having an area not exceeding $400 \mathrm{n}^{2}$
18.2.3.1.4 When fire deparment access roads cannot be installed due to location on property, topography, waterways, nonnegotiable grades, or other similar conditions, the AIHJ shall be authorized to require additional fire protection fealures.
M 18.2.3.2 Access to Buildings and Facilities.
A 18.2.3.2.1 A fire department access road shall extend to within $50 \mathrm{n}(15 \mathrm{~m})$ of at least one exterior door that can be opened from the outside and that provicks access to the interior of the building.
18.2.3.2.1.1 Where a one- or two-family dwelling, or townhouso, is protected with un approved automatic sprinkler system that is installed in accordance with NFPA 13D or NFPA 13 R , as applicable, the distance in 18.2.3.2.1 shall be permitted to be increased to $150 \mathrm{ft}(46 \mathrm{~m})$.
18.2.3.2.2 Fire department access roads shall be provided such that any portion of the facility or any portion of an exterior wall of the lirst story of the building is located not more than 150 ft ( 46 m ) from fire department access roads as measured by an approved route around the exterior of the building or facility.
18.2.3.2.2.1 When buildings are protected throughout with an approved automatic sprinklor system that is installed in
in) the distunce in 182322 slall be permitio A increased to 250 feet.
18.2.3.3 Multiple Access Roads. More than one fire deparment access road shall be provided when it is determined by the Alll that access by a single road could be impaired by vehicle congestion, condition of terrain, climatic conditions, or other factors that could limit access.

### 18.2.3.4 Specifications.

### 18.2.3.4.1 Dimensions.

18.2.3.4.1.1 Fire department access roads shall have an

M unobstructed width of not less than $20 \mathrm{ft}(6.1 \mathrm{~m})$. Fire depaitment
A access roads constructed in the boulcvard-style shall be allowed
M where each lane is less than 20 fect but not less than ten feet when
A they do not provide access to a building or structure.
18.2.3.4.1.2 Fire department access roads shall have an unobstructed vertical clearance of not less than 13 ft 6 in. (4.1 m).
18.2.3.4.1.2.1 Vertical clearance shall be permitted to be reduced, provided such reduction does not impair access by fire
apparatus, and approved signs are installed and maintained indicating the established verlical clearance when approved.
18.2.3.4.1.2.2 Vertical clearances or widths shall be increased when vertical clearances or widths are not adequate to accommodate fire apparatus.
18.2.3.4.2 Surface. Fire department access roads shall bc designed and mainained in support the imposed loads of fire apparatus and shall be provided with an all-weather driving surface.
18.2.3.4.2.1 Pemeable drivable surfaces, that mect loading of 18.2.3.4.2, are allowed when approved by the AIIJ. When approved, the permeable surfaces shall be identificd by a method acceptable to the $\lambda$ HJ.
18.2.3.4.3 Turning Radius.
48.3.3.43.4 The tuming fadius-ofa fire-department aecess read thatl-be as approved-by the Adty.
18.2.3.4.3.1 The minimum inside tuming radius of a fire deparment access moad shall be 25 feet. The AHJ shall have the ability to increase the minimum inside turning radius to accommodato the AlIJ's apparatus.
18.2.3.4.3.2 Turns in fire department access roads shall maintain the minimum road width.
18.2.3.4.4 Deal Ends. Dead-end lire depariment access roads in excess of $150 \mathrm{n}(46 \mathrm{~m})$ in lengh shall be provided with approved provisions for the fire apparatus to turn around.

### 18.2.3.4.5 Bridges.

18.2.3.4.5.1 When a bridge is required to be used as part of a fire department access road, it shall be constructed and maintained in accordance with nationally recognized standards.
18.2.3.4.5.2 The bridge shall be designed for a live load sufficient to carry the imposed loads of fire apparatus.
18.2.3.4.5.3 Vehicle load limits shall be posted at both entrances to bridges, where required by the AHJ .

### 18.2.3.4.6 Grade.

18.2.3.4.6.1 The gradient for a tire department access road siall not exceed the maximm approved. $10 \%$, unless approved in writing by the AHIJ.
18.2.3.4.6.2* The angle of approach and departure for any means of lirc department access road shall not exceed l ft drop in $20 \mathrm{f}(0.3 \mathrm{~m}$ drop in 6 m ) or the design limitations of the firc apparatus of the fire department, and shall be subject to approval by the AHJ.
18.2.3.4.6.3 Fire department access roads connccting to roadways shall be provided with curb cuts extending at lcast 2 ft $(0.61 \mathrm{~m})$ beyond each edge of the fire lane.
18.2.3.4.7 Traffic Calming Devices. The design and use of traffie calming devices shall be approved by the AHJ.
18.2.3.4.8 Travel in the Opposing Lane. The use of the opposite travel lane is prohibited in the design of all new fire apparalus access roads.

### 18.2.3.5 Marking of Fire Apparatus Access Road.

18.2.3.5.1 Where required by the AHJ, approved signs, approved roadway surface markings, or other approved notices shall be provided and maintained to identify fire department access roads or to prohibit the obstruction thercof or both.
18.2.3.5.2 A marked fire apparatus access road shall also be known as a fire lane.
18.2.4* Obstruction and Control of Fire Department Access Road.

### 18.2.4.1 General.

18.2.4.1.1 The required width of a fire department access road shall not be obstructed in any manuer, including by the parking of vehicles.
18.2.4.1.2 Minimum required width and clearances established under 18.2.3.4 shall be maintained at all times.
18.2.4.1.3* Facilitics and struclures shall be maintained in a manner that docs not impair or impede accessibility for fire department operations.
18.2.4.1.4 Entrances to fire department access roads that have been closed with gates and barricrs in accordance with 18.2.4.2.1 shall not be obstructed by parked vehicles.

### 18.2.4.2 Closure of Accessways.

18.2.4.2.1 The NIIJ shall be authorized to require the installation and maintenance of gates or other approved barricades across roads, trails, or other accessways not including public streeds, alleys, or highways.
18.2.4.2.2 Where required, gates and barricades shall be secured in an approved manner.
M 48.2.4.23-Ronds, traits, and other accesswnys that have-been
A closed-and-obstructed-in the manner-preseribed by 18.2.4.3.1.
M shatl- Hot be trespassed upon-or used unlens atthorized by the
A owner and the-AlH.
M 18.2.4.2.4 Public offieers acting within their scope-oldaty shatl A be permitted to aseess restricted propety identified-in
M +8.2.4.2.1.
A 18.2.4.25-heoks, gater, doers, barrieades, chains,-cnelosures,

M 18.2.426. When whoriwe by the AfH, publie offieer-acting A within-their seepe-of duty shall-be permitled to obtain-aceess M threugh secured menns-identijied in-18.2.4.2.1.

A 18.43 .1 Decreases. Pire-flow-requirements-shall be permitted th be decreased by the Allf-for isplated-buldings-or a-group-of buildings-in-rural-areas or-suburban-areas-where- the
develepmon-offill-fife-now-reguirement-is-impractical as $M$ determined by the-AHy.
48.4.3.1.1 The AHf shall-be-atherized-to-cstablish-conditions $M$ on-fire flow reductions-approved-in-aceerdaneo-with-18.4.3.1. A ineluding, but net limited-to,-fre-sprinkler-protection, type-of $M$ eonstrtelion of the-building, eceupaney, and setbacks,
18.4.3.2 Inereases. Fife-flow shath be permitled to be-increased M by the Alll where cenditions indiente-an- thustal-susceptibility to-group-fires-or-cenflagrations. An-upwarl medification shall not be-mere-than-twiee that-refured fer the buitding under eonsideration.
18.4.4 Fire $\begin{gathered}\text { fow Aren- }\end{gathered}$
18.4.4.1-General-The-fire-fler-area shatl-be the tetal-floor area-of all floor-levels of a butding-exeept modified-in 18.4.4.4.1.

 and Type-II (222) eonstation-stall be-the-area- the three-largest sheessive-flems.
18.4.5 Fire Flow Hequirements for Buildings. $M$
18.4.5.1 One-and-Two-Family-Dwellingsi $\quad A$
18.4.5.1. Therinimurt fire flow-and flowduration requinementsfar one-and two-family diwellings having a fire flow-area hat does not weecd $5000-\mathrm{H}^{3}-\left(334.5-\mathrm{m}^{2}\right)$-ihall-be- 1000 ginm $(3785-\mathrm{H} / \mathrm{min})$ for + heter:
18.4.5.1.1 A reduction-in-required-fire-flow-of 50 pereent-shath be permitted when-the buidding is-provided-with-afl-approved antematiespinktersystem:
18.4.5-1.2 A redution-in-the required fire-flow of 25 -percent shall be permitted when the butding is-separated frem other buidings by aminimumef $30 \mathrm{ft}(9.1 \mathrm{~m})$.
48.4.5.1.3 The reduction in 18.4.5.1.1.1-and-18.4.5.1.1.2-shatl not redue the requifed fire flow to less that $500 \mathrm{gmm}(1900$ E(min):
18.4.5.1.2 lïre-flow and flow-duration-for-dwellings-having a fre flow aren in excess of $5000 \mathrm{ft}^{2}\left(334.5 \mathrm{~m}^{2}\right)$-shall met bo less than-that specified in Table-18,4.5.1.2.
18.4.5.1.2.1 Required-fire flow-shall-be redweed by 50 pereent when the buitding is-provided-with an approved-automatio sprinkler system.
48.4.5.2-Buthing-Other Thrn-One-and Two Fomily Đwellings. The minifitum fire-flow and flow duration-for buildings-other tham-one and two fantily dwellings shall be-as speeffed-in Table-18.4.5.1.2.
18.4.5.2.1 Required fife tlow-hall be-reduced by 75 percent when the building is prelected throughout by an approved atuomatic sprinkfor system. The-resulting fire-llow-shall net be less than 1000 gym ( $3785 \mathrm{~L} / \mathrm{min}$ ).
18.4.5.2.2 Requitired fire-flow-shall-be reduced-by-75 pertent when the building is protected throughout-by an-approved autematic -sprinder-system, which utilizes-quick response sprinkters throughout. The-resulting-fire-flew-shall not be less them 600 gpm $(2270$ t/min).
48.4.5.3. Fer-a building with approved fire sprink dersystem, the-fire flow-demend and the fitre-sprimkter syonth-demand shat not be-required-to-be-added-together. The-rator-supply shath-be eapable of delivering the-tager of the-individual demands:

### 18.5 Fire Hydrants.

18.5.1* The number and type of fire hydrants and conncetions to other approved water supplies shall be capable of delivering the required fire flow and shall be provided at approved locations.
18.5.2 Fire hydrants and connections to other approved water supplies shall be accessible to the fire department.
18.5.3 Clear Space Around Hydrants. A 36 in . ( 914 mm ) clear space shall be maintained around the circumference of fire hydrants except as otherwise required or approved.
18.5.4 Privale water supply systems shatl be tested and mantained in accordance with NFPA 25.
18.5.5 Where required by the AHJ, fire hydrants subject to vehicular damage shall be protecled unless located within a public right of way.
18.5.6 Where water supplies or fire hydrants are out of service for maintenance or repairs, a visible indicator acceptable to the AIIJ shall be used to indicate that the hydrant is out of service.
18.5.7-Matking of Hydrants.
48.5.7.1-Fiwe hydrants-shatl be marked with an mpproved reflecter affixed to the roadway strfate where requifed by the AHH.
48.5.7.2- Fine hydrathrsitall be markided withran approved flager other-deviec affixed to -i-proximate to the fire-hydrant-where required by the ALII.
18.5.7.3* Whture required by the AH1, fire hydrants-stall be celer-coded or otherwise-marked-with-an-approved-system
indieating the available flow eapacity.

## Chapter 19 Combustible Waste and Refuse

### 19.1 General.

19.1.1 Permits. Permits, where required, shall comply with Section 1.12.
19.1.2 Persons owning or having control of any property shall not allow any combustible waste material to accumulate in any arca or in any manner that creates a lire hazard to life or property.
19.1.3 Combustible waste or refuse shall be properly stored or disposed of to prevent unsafe conditions.
19.1.4 Firc cxtinguishing capabilitics approved by the AHJJ including, but not limited to, fire extinguishers, water supply and hose, and earth-moving equipment shall be provided at waste disposal sites.
19.1.5 Burning debris shall not be dumped at a waste disposal site except at a remote location on the sile where fire extinguishment can be accomplished before compacting, covering, or other disposal activity is canicd out. (See Section 10.11 for additional guidance.)
19.1.6 Bectrical Wiring.
19.1.6.1 Electrical wiring and equipment in any combustible fiber storage room or building shall be installed in accordance with the requirements of Section 11.1 and NFPA 70, National Electrical Code, for Class III hazardous locations.
19.1.3 Combustible waste or refuse shall be properly stored or disposed of to prevent unsafe conditions.
19.1.4 Fire extinguishing capabilitics approved by the AHJ including, but not limiled to, fire extinguishers, water supply and hose, and earth-moving equipment shall be provided at waste disposal sites.
19.1.5 Burning debris shall not be dumped at a waste disposal site except at a remote location on the site where fire
extinguishment can be accomplished before compacting, covering, or other disposal activity is carried out. (See Section 10.11 for additional guidance.)
19.1.6 Electrical Wiring.
19.1.6.1 Electrical wiring and equipment in any combustible fiber storage room or building shall be instatled in accordance with the requirements of Section 11.1 and NIPPA 70, National Electrical Code, for Class III hazardous locations.
19.1.6.2 The AHJ shall be responsible for designating the areas that require hazardous location electrical classifications and shall classify the areas in accordance with the classification system sel forth in NFPA 70.

### 19.1.7 No Smoling.

19.1.7.1 No smoking or open flame shall be permitted in any area where combustible libers are handled or stored or within 50 (l ( 15 m ) of any uncovered pile of such fibers.
19.1.7.2 "No Smoking" signs shall be posted.
19.1.8 Vehicles or Conveyances Used to Transport Combustible Waste or Refuse.
19.1.8.1 Vehicles or conveyances used to transport combustible wastc or refise over public thoroughlares stall have all cargo space covered and maintained tight enough to ensure against ignition from external fire souves and the scattering of buming and combustible debris that can come in contact will ignition sources.
19.1.8.2 Transporting buming waste or refuse shal the prohibited.
19.1.83 Trucks or automobiles, other than mectanical handing equipment and approved industrial tucks as listed in NFPA 505, Fire Safely Standard for Powered Industrial Trucks Inctuding Type Designations, Areas of Use, Conversions, Muintenance, and Operations, shall not enter any fiber storage rom or building but shall be permitted to be used at loading plat forms.

### 19.2 Combustible Waste and Refuse.

### 19.2.1 Rublish Containers.

19.2.1. General Rubbish containers kept outside of rooms or vaults slall not exceed $40.5 \mathrm{ft}^{3}\left(1.15 \mathrm{~m}^{3}\right)$ capacity.
19.2.1.1.1 Containers excooding a capucity of $5 \frac{1}{3} \mathrm{fl}^{3}\left[40 \mathrm{gal}\left(0.15 \mathrm{~m}^{3}\right)\right]$ shall be provided with lids.
19.2.1.1.2 Such containers and lids as described in 19.2.1.1.1 shall be constructed of noncombustible materials or nommetallic materials complying with 19.2.1.2.

### 19.2.1.2 Nonmetallic Containers.

19.2.1.2.1* Nonmetallic rubbish containers exceeding a capacity of $5 \frac{1}{3} \mathrm{n}^{3}$ [40 gal ( $0.15 \mathrm{~m}^{3}$ )] shall be manufactured of materials having a peak rate of heat release not excecding $300 \mathrm{~kW} / \mathrm{m}^{2}$ at a flux of $50 \mathrm{~kW} / \mathrm{m}^{2}$ when tested in the horizontal orientation, at a thickness as used in the container but not less than of 0.25 in. ( 6 mm ), in accordance with ASTM E 1354, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter, or NFPA 271, Standard Method of Test for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter.

## Brewster Planning Department

2198 Main Street
Brewster, MA 02631-1898
508-896-3701 11133
brewplan@brewster-ma.gov

## Staff Review

Data Transmittal Sheet

$\qquad$ Jill Scalise, Housing Office
_ Chris Miller, Natural Resources Department __Jon Idman, Planning Department
__ Lt. Charles Dawn, Police Dept
__ Peter Lombardi, Town Manager's Office
_ Donna Kalinick, Town Manager's Office
_ Paul Anderson, Water Department

Date Submitted
Date Transmitted

July 20, 2023
July 24, 2023

Applicant Charlie Whitcomb
Proposal The Applicant proposes to construct a new $100^{\prime} \times 50^{\prime}$ building with five (5) commercial bays and one (1) security dwelling ( $22^{\prime} \times 20^{\prime}$ ).

Development 0 Underpass Road Lots 2 and 3 (Map 77, Lots 10 and 60) Location

Is application material complete for your preliminary review?
 No

If no, please indicate what additional material, documentation, or information you may wish to see prior to the meeting:
$\qquad$
$\qquad$
$\qquad$

Additional Comments:
please see Attached FD Comments


Comments may be e-mailed to Lynn St. Cyr, Istcvr@brewster-ma.gov and provided at the Staff Review meeting on Friday, August 4, 2023 at 10:30 am in Room B. Thank you.

## Fire Department Comments Underpass Road Whitcomb Staff Review

1. Commercial bay building with security apartment shall be protected by fire detection and automatic sprinkler systems in accordance with the provisions of the State Building and Fire Code.
2. The facility shall meet all requirements contained within 527 CMR 1.00 Massachusetts Comprehensive Fire Safety Code including Chapter 18 Fire Department Access (attached) and all referenced NFPA Standards.
3. A computer-generated apparatus swept path and turn simulation analysis shall be provided to the fire department for review and approval. Apparatus length for use in swept path analysis shall be $45^{\prime \prime} 9^{\prime \prime}$.
4. Fire department access roads including roadways, fire lanes, and parking lot lanes shall be no less than $20^{\prime}$ in width.
5. Minimum inside turning radius of fire department access roads shall be $25^{\prime}$. The developer may be required to increase this minimum turning radius to accommodate fire department apparatus.
6. North side of entrance shall be reduced to allow fire apparatus right and left turn access to north side of parking area.
7. Size of parking lot islands may require reduced sizing to allow fire department access.
8. All vehicles shall be parked in designated parking spaces only.
9. Dead end fire department access roads more than $150^{\prime}$ in length shall be provided with approved provisions for fire apparatus to turn around (west side of building).
10.All access and interior parking lot lanes and roads shall be designated as fire lanes. All signage and road markings shall be approved by the fire department prior to installation and issuance of a certificate of occupancy.
11.Area in front of garage bays shall be designated as a fire lane. Parking shall not be allowed.
10. A graded gravel pathway no less than $25^{\prime}$ in width shall be installed on the exterior north side of the building to allow fire department access for fire suppression operations.
11. The developer shall install two (2) fire hydrants. The location shall be approved by the fire department prior to installation.
12. The fire department shall approve the location and type of fire department connections for the automatic sprinkler system (if required) prior to installation.
13. The fire department shall approve the location of all fire and carbon monoxide detection system reporting panels required under the State Building Code prior to installation.
14. An Emergency Responder Radio Communication System shall be installed in the building per section 916.1 of the Massachusetts State Building Code.
15. A Knox box key vault shall be installed on the building. Location and type shall be approved by the fire department prior to installation and issuance of a certificate of occupancy.
16. Street address and building unit numbers shall be approved by the fire department and installed prior to the issuance of a certificate of occupancy.
17. Dependent on occupancy and use of contractor bays, special fire protection/detection systems meeting the State Building and Fire Code may be required.
18. Storage of any hazardous, flammable, combustible, or explosive materials in the contractor bays shall meet the requirements set forth in 527 CMR 1.00 Massachusetts Comprehensive Fire Safety Code.
19. Placement of snow shall not impede fire department access to or travel through parking lot area.
16.8.2 Pernils. Permils, where required, shall comply with Section 1.12.
16.8.3 Signs. Approved sigus shall be posted at the entrance, exit and exit access door, decontamination arcas, and waste disposal arcas for asbestos removal operations.
16.8.3.1 The sigus shatl state that astestos is being nemoved from the area, that asibestos is a suspected cancinogen, and that proper respiratory protection is required.
16.8.3.2 Signs shall have a reflective surface, and lettering shall be a minimum of 2 in . ( 51 mm ) high.
16.9 Floor Finishing or Refinishing. Sec M.G.L., c. 94. § 329 relating to the prohibition of the sate and use of certain lacquer sealers (including additives) during the course of commercial wond floor finishing operations.
16.9.1 General. Floor finishing or relinishing requirements shall apply, to persons, or other entilies that engage in sanding, finishing, or refinishing wood floors, with or willout compensation, in any building or structure. No person or centity shall apply or otherwise use any fammable floor finishing product during the course of any acivily relatiog to the refinishing or finishing of the surface of a wood floor. This shall be in addition to the prohibitions of M.C.L. c. $94, \$ 329$ relating to the sale and use of certain lacquer sealers during the course of commercial wood floor finishing operations.
16.9.2 Flammable Floor Finishing Product. Flammable lloor finishing product, as used hercin shall mean any clear or pigmented wood finish, formulated with nitrocellulose or synthelic resins to dry by evaporation and without chemical reaction, having a flashpoint below $100^{\circ} \mathrm{F}$, and having a vapor pressure not exceeding 40 psi at $100^{\circ} \mathrm{F}$, including clear lacquer sanding sealers.
16.9.3 Tire Safety Requirements. No person shall sand, strip or re-finish wood floors where such sanding, stripping or vapor would create an explosive atmosphere from dust or vapor that when dispersed could be ignited in the air without first complying with the following firc/cxplosion safety requirements. The requirements in (1) and (3) are not applicable if ventilation or a dust collection equipment system is used continuously to reduce vapor or dust from accumulating in concentrations that could cause ignition or explosion:
(1) Sources of Ignition. All fires, apen flames or other sources of ignition, including smoking malcrials, spollights, halogen lights or appliance pilol lights shall be eliminated from the area or unit.
(2) Electrical Permit Required. An electrical permit is required when comnecting any floor-rcfinishing machine directly to the electrical panel in accordance with 527 CMR 12.00:
(3) Warning Sigos. Any person or other entity sanding or stripping floors in a building containing more than one dwelling unit shall post suitable warning sigus indicating the danger of dust and fire/explosion hazard and shall be conspicuously pasted on all doors and entrances to the building and/or unit. Such notice is to be printed in contrasting colors and shall have lettering at least two inches high and should state the name of the operator in charge, the date and time of the operation and the arca or -unit where work is to be performed. Wanting signs shall be posted at least 24 hours prior to engaging in such work.
(4) No Smoking signs, featuring the international pictograph prohibiting smoking, must be posted at all entrances to the
house or building before floor sanding or finishing begins $M$ and until 24 hours aller the end of all floor sanding and $A$ finishing activities. M
16.9.3.4 Waste Materials. A metal waste-can with a self closing cover shall be provided for all waste materials, including wood dust, and rags. All such materials shall be removed from he building and disposed of daily.

## Chapter 17 Wildife Urban Interface

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\begin{array}{ll}
\text { Delete Chapter } 17 \text { in its entirety. } & \mathrm{M} \\
\hline
\end{array}
$$

## Chapter 18 Fire Department Access and Water Supply

18.1 General. Fire deparment access and water supplies shall comply will this chapler.
18.1.1 Application.
18.1.1.1 This chapter shall apply to public and privately owned fue appanalus access roads.
18.1.1.2 This chapter shall apply to public and privately owned fire hydrant systerns.

### 18.1.1.3 The fire apparatus access road plans must include an analysis and evaluation of fire apparatus maneuvers throughout the access roads created by swept nath analysis and turn simulation software. <br> 18.1.1.4 The tire apparatus access plans shall bear the seal and signature of the responsible registercd professional enginecr.

18.1.1.5 Nothing is this Section shall reduce the requirements established by citics or lowns under M.G.L. $40 \Lambda$ and planning and zoning by-laws.
18.1.2 Permits. Permits, where required, shall comply with Section 1.12.

### 18.1.3 Plans.

18.1.3.1 Fire Apparatus Access. Plans for fire apparatus access roads shall be submitted to the fire deparment for review and approval prior to construction.
18.1.3.2 Fire Hydrant Systems. Plans and specilications for fire hydrant systems shall be submitted to the fire department for revicw and approval prior to construction.

### 18.2 Fire Department Access.

18.2.1 Fire depariment access and fire department access roads shall be provided and maintained in accordance with Section 18.2.
18.2.2* Access to Structures or Areas.
18.2.2.1 Access Box(es). The AIIJ shall have the authority to require an access box(es) to be installed in an accessible location where access to or within a structure or area is diffecult because of security. The access box(es) shall be of an approved type listed in accordance with UL 1037.
18.2.2.1.1.1 Approval of access roads shall be subject to the $M$ AHJ and capable of supporting the imposed loads of lire $A$ apparatus and shall be provided with an all-weather driving surface and sholl be maintained as provided.
18.2.2.2 Access to Gated Subdivisions or Developments. The AHIl shall have the authority to require fire department access be provided to gated subdivisions or developments through the use of an approved device or system.
18.2.2.3 Access Maintenance. The owner or occupant of a structure or area, with required fire department access as specified in 18.2.2. or 18.2 .2 .2, shall notify the AHJ when the
$M$ access is modificd. in a manner hat cetld-prevert life
A doparment-aceess
18.2.3 Fire Department Access Roads.
18.2.3.1 Required Access.
18.2.3.1.1 Approved fire department access roads shall be provided for every lacility, building, or portion of a building hercaller constructed or relocated.
18.2.3.1.2 Fire department access roads shall consist of roadways, fire lanes, parking lot lanes, or a combination thereof.
18.2.3.1.3* The provisions of 18.2.3.1 through 18.2.3.2.2.1 shall be permitted to be modified by the AHJ where any of the following conditions exists:
(1) One- and iwo-family dwellings protceted by an approved antomatic sprinkler system in accordance with Section 13.1
(2) Fixisting one- and two-lamily dwellings
(3) Privale garages having an area not exceeding $400 \mathrm{f}^{2}$
(4) Carports having an area not exceeding $400 \mathrm{ft}^{2}$
(5) Agricullural buildings having an area not exceeding $400 \mathrm{ft}^{2}$
(6) Sheds and other detached buildings having an area not exceeding $400 \mathrm{n}^{2}$
18.2.3.1.4 When fire department access roads camot be installed due to location on property, topography, waterways, nonnegoliable grades, or other similar conditions, the AHJ shall be authorized to requite additional fire protection fcatures.
M 18.2.3.2 Access to Buildings and Facilities.
A 18.2.3.2.1 A fire department access road shall extend to within $50 \cap(15 \mathrm{~m})$ or a least one exterior toor that can be opened from the outside and that provides access to the interior of the building.
18.2.3.2.1.1 Where a one- or two-family dwelling, or townhouse, is protected with an approved automatic sprinkler system that is installed in accordance with NFPA 13D or NFPA 13R, as applicable, the distance in 18.2.3.2.1 shall be permitted to be increased to $150 \mathrm{ft}(46 \mathrm{~m})$.
18.2.3.2.2 Fire department access roads shall be provided such that any portion of the lacility or any portion of an exterior wall of the first story of the building is localed not more than 150 ft $(46 \mathrm{~m})$ from fire department access roads as measured by an approved route around the exterior of the builling or facility.
18.2.3.2.2.1 When buildings are protected throughout with an approved automatic sprinkler system that is installed in

A distance in- 18.2 .3 .2 .2 shatthe permilled to be inereased to-450-A
M $(137 \mathrm{~m})$. the distance in 18.2.3.2.2 shall be permitted to be
A increased to 250 feet.
18.2.3.3 Multiple Access Roads. More than one fire department aceess road shall be provided when it is determined by the AHJ that access by a single road could be impaired by vehicle congestion, condition of terrain, climatic conditions, or other factors that could limit access.

### 18.2.3.4 Specifications.

### 18.2.3.4.1 Dimensions.

18.2.3.4.1.1 Fire department access roads shall have an M unobstructed width of not less than $20 \mathrm{ft}(6.1 \mathrm{~m})$. Fire department
A access roads constructed in the boulcvard-style shall be allowed
$M$ where each lane is less than 20 fect but nol less than ten feet when
A they do not provide access to a building or structure.
18.2.3.4.1.2 life department access roads shall have an unobstructed vertical clearance of not less than 13 ft 6 in . (4.1 im).
18.2.3.4.1.2.1 Vertical clearance shall be permitted to be reduced, provided such reduction does not impair access by fire
apparatus, and approved signs are installed and maintained indicating the established verlical clearance when approved.
18.2.3.4.1.2.2 Vertical clearances or widths shall be increased when vertical clearances or widths are not adequate to accommodate lire apparatus.
18.2.3.4.2 Surface. Fire department access roads shall bo designed and maintained to support the imposed loads of fire apparatus and shall be provided with an all-weather driving surface.
18.2.3.4.2.1 Permeable drivable surfaces, that mect loading of 18.2.3.4,2, are allowed when approved by the AHJ. When approved, the permcable surfaces shall be identificd by a method acceptable to the AHJ .

### 18.2.3.4.3 Turning Radius.

18.2.3.4.3.1-The-turning radius- of a fire-department neecst foad shall be as approved by the Ally.
18.2.3.4.3.1 The minimum inside turning radius of a fire deparment access road shall be 25 feet. The AHJ shall have the ability to increase the minimum inside turning radius to accommodate the Alll's apparalus.
18.2.3.4.3.2 Turns in fire department access roads shall maintain the minimum road width.
18.2.3.4.4 Dead Ends. Dead-end lire department access roads in excess of $150 \mathrm{ft}(46 \mathrm{~m})$ in lengh shall be provided with approved provisions for the fire apparatus to tum around.

### 18.2.3.4.5 Bridges.

18.2.3.4.5.1 When a bridge is required to be used as part of a fire department access road, it shall be constructed and maintained in accordance with nationally recognized standards.
18.2.3.4.5.2 The bridge shall be designed for a live load sufficient to carry the imposed loads of fire apparatus.
18.2.3.4.5.3 Vehicle load limits shall be posted at both entrances to bridges, where required by the AHJ .

### 18.2.3.4.6 Grade.

18.2.3.4.6.1 The gradient for a tire department access road shall not exceed the-maximmm approved $10 \%$, unless approved in writing by the AHY.
18.2.3.4.6.2* The angle of approach and departure for any means of firc department access road shall not excecd ift drop in $20 \mathrm{ff}(0.3 \mathrm{~m}$ drop in 6 m ) or the design limitations of the fire apparalus of the fire department, and shall be subject to approval by the AHJ.
18.2.3.4.6.3 Fire department access roads connccting to roadways shall be provided with curb cuts extending at least 2 ft ( 0.61 m ) beyond each edge of the fire lane.
18.2.3.4.7 Traffic Calming Devices. The design and use of traffic calming devices shall be approved by the $\Lambda \mathrm{H} J$.
18,2.3.4.8 Travel in the Opposing Lane. The use of the opposite travel lane is prohibited in the design of all new tire apparatus access roads.
18.2.3.5 Marking of Fire Apparatus Access Road.
18.2.3.5.1 Where required by the AHJ, approved signs, approved roadway surface markings, or other approved notices shall be provided and maintained to identify lire department access roads or to prohibit the obstruction thereof or both.
18.2.3.5.2 A marked fire apparatus access road shall also be known as a fire lane.
18.2.4* Obstruction and Control of Fire Department Access Road.

### 18.2.4.1 General.

18.2.4.1.1 The required width of a lire department aceess road shall not be obstructed in any mamer, including by the parking of vchicles.
18.2.4.1.2 Minimum required widths and elearances established under 18.2.3.4 shall be maintained at all times.
18.2.4.1.3* Facilities and structures shall be maintained in a manner that docs not impair or impede accessibility for fire department operations.
18.2.4.1.4 Entrances to fire department access roads that have been closed with gates and barriers in accordance with 18.2.4.2.1 shall not be obstructed by parked vehicles.

### 18.2.4.2 Closure of Accessways.

18.2.4.2.1 The Alll shall be authorized to require the installation and maintenance of gates or other approved barricades across roads, trails, or other accessways not including public strects, alleys, or highways.
18.2.4.2.2 Where required, gales and barricades shall be secured in an approved mamer.
18.2.4.2.3-Rosds, trails, nand other-aceessways that have been

A elosed and-obstructed-in the manner prescribed by 18.2.4.2.1.
$M$ shall-not be trespassed upen-or wsed-umless attherized by the
A owner and lhe Ally.
M 88.2.4.2.4 Public fifieess acting within their-scope of duty-shall
A be permitled to-wecess restrieted properfy identified-in
M 48.2.4.2.1.
A 48.2 .4 .2 .5 t.eoks, gates, doers, barrieades, ehains, enelosures,
$M$ signs, lage, or-seats that have been-installed by-the-fire
A tepartmentor by its-order or under-its eentrol- shall not be
M remored, untoeked, destreyed, tampered-with,-or otherwise *andalized in any manner;
482.4.2.6 When atherized by the Ath, public offieers-acting withir their seepe-of duty-shatl-be permitted to obtain-access threugh securedmenns-identijedin-18.2.4.2.1.

### 18.3 Water-Supplies:

183.1: An-approved-water-sitpply comable of strpitying the required fire-flow-Gor fire preteetion shath-be-providect to ath premises 1 una whiek-faellities, buildings, or-portions-of buthlings are herafter eonstuctector-nevectinte the jutistietion. Thic-appioved wattersitpply shall-be-innecerdanee-with-Seetion-18.4.
483.1.5* Whewe no adequate or-retiable water distribution
 tatks, firedepartment tanker shulles;, or otherapproved system, capathe-of previding the required fire flowshath he-pxamitted.
18.4 Firo-flow-Requirements for-Buildings. 18.4.4* Seope:
18.4.1.1* The precedtre-determining tire flow-requivements for buildinge hereufer vonstruted or moved into the jurisdietion shall be in-decordane-with Section-18.4.
18.4.1.2 Section 18.4 shall not-apply-to-struetures-other than buildings
 and 3.3-120, Firc Flow.
18.43-Modifications.

48,4.3.1-Decreases. Fire-fon-requipements-shall be pemitted 4 be-deereased by the AII for-isolated buildingrer-a-greup of buitdings in wurat areas of suburban-afcas-where-the
dovelopment of full-fire flow requirements-is-impractical as ..... M
determined by the AHy. ..... A
48.43.1. The-AHJ-shall-be-autherized-to-establisi-conditions ..... M
on firc How-reductions-approved-in-aceordanee-with-18.4.3.1. ..... A
inetuding, but net-linited to, fire sprinkter protection, type of ..... M
eonstrtetion the-building oceupaney, and-setbacks. ..... A
18.4.3.2 Inereases. Fire flow-shall-bo-permittethobe-increased ..... Aby the-AII where-cenditions-indiente-cif-thenstht-strseptibilityto-group-fires-or-eenflagrations. An-upwart medification-shatl
net-be-mefo-than-twiee that-reytired for the buidding- under ..... AM cemsideration.

### 18.4.4- Fire Flow-Aren:

18.4.4.4-General-The-fite-flow-area-shatl be the tetal-floor Hea of all floor levels of a building exeept as modifited in 18.4.4.1.1.
18.4.4.1.1 TypeI (443), Тype I(332), and Type-II-(222) Construetion:
 and Type-II (222) constretion-shall be-ho wrea-efthe brec-largest suewevive fleors.

18.4.5 Fire Flew Requirements for-Buthlings:
18.4.5.1.1 Theminimuth fine fow-and flow- firation requinementoler one-and two family dwellings having a fire flew-area that does not
 heur.
18.4.5.1.1 A reduction-in-required-fire flow-of-50-peremt-shat be pernited whe the bilding is prowided with ant-approved antematic-sprinkier syctem.
48.4.5.1.2 A redtrion in the required-fire-flow of 25 -poreent shall be-permitted-when the building-is-sepurated from-other buildings by minimam of $30 \mathrm{f}(9.1 \mathrm{~m})$.
48.4.5.1.3 The reduction in 18.4.5.1.1.t and 18.4 .5 .1 .1 .3 shat not reduce the required fire flow to less then- 500 -gim ( 4900 (mini):
18.4.5.1.2 ture flow and flew-dtratien-for-dwellings-having a fife flow-area in-ereess of $5000-\mathrm{f}^{2}-\left(334.5-\mathrm{m}^{2}\right)$-shall not be less than that specified in Table-18.4.5.1.2.
18.4.5.1.2.t Required fire flow-hith be redueed by 50 pereent when-the butding is-previded-with an-approved automatio sprinkler system:
18.4.5.2-Bhilthings-Other Than-One-and Two-Family Bwellings.-The minifnum fire flow and flow-duration-for butdings other than ane and-twe fatmity dwellings shall be as speeified in Fable-18.4.5.12.
48.4.5.2.1 Required fire flew-shall be-redweed by 75 -pereent when the building is protected throughout by an-appreved antomatic sprinkter system. The resulting fire-flow-shath net be less than 1000 gimn ( $3785 \mathrm{~L} / \mathrm{min}$ ).
18.4.5.2.2 Required-fife flow shall bo reduced-by-75 pereent when the butlding is protected thretrghout by an approved atumatic sprinklef-system,-which -utitizes quiek respense sprinklex throughout. The-resulting-fife-flew-shall not be less than 600 gpm $(2270 \mathrm{~L} / \mathrm{mmin})$,
48.4.5.3t For a brildint with an approved fire sprinkler-system, the-fire-flew-demand and the-fire-sprinkler-systent demand-strath net be-required to be added together. The-water stuply shath be eapable of detivering the-targer of the individual demands:

### 18.5 Fire Flydrants.

18.5.1* The number and type of fire hydrants and conncetions to other approved water supplies shall be capable of delivering the required fire flow and shall be provided at approved locations.
18.5.2 Fire hydrants and connections to other approved water supplies shall be accessible to the fire department.
18.5.3 Clear Space Around Hydrants. A 36 in . ( 914 mm ) clear space shall be maintained around the circumference of fire hydrants except as otherwise required or approved.
18.5.4 Private water supply systems shall be tested and manained in accordance with NFPA 25.
18.5.5 Where required by the AIIJ, fire hydrants subject to vehicular damage shall be protected unless located within a public right of way.
18.5.6 Where water supplies of fire hydrants are out of service for maintenance or repairs, a visible indicator acceptable to the AIIJ shall be used to indicate that the hydrant is out of service.

### 18.5.7-Marking ef Hydients.

48.5.7.1- Firv-hydrants shatl-be marked-with an-apponved refleetor affi*ed to the fotdwry striface where required by the AH.
18.5.7.2-Fitie hydramb-shall ऐe matked with-an approved flog of ether deviee affined or proximate to the fire-hydrant where required by heAdH.
18.5.7.3* Where rextured by-the Afll, fife-hydrants-shall-be celor-ceded of-otherwise-murket-with an appored-system indieating the araitable llow enpacity.

## Chapter 19 Combustible Waste and Refuse

### 19.1 General.

19.1.1 Permits. Permits, where required, shall comply with Section 1.12.
19.1.2 Persons owning or having control of any property shall not allow any combustible waste material to accumulate in any area or in any manner that creates a fire hazard to life or property.
19.1.3 Combustible waste or refuse shall be properly stored or disposed of to prevent unsafe conditions.
19.1.4 Fire extinguishing capabilitics approved by the AHI including, but not limited to, fire extinguishers, water supply and hose, and earih-moving equipment shall be provided at waste disposal sites.
19.1.5 Buming debris shall not be dumped at a waste disposal site except at a remote location on the site where fire extinguishment can be accomplished before compacting, covering, or other disposal activity is carried out. (See Section 10.11 for additional guidance.)

### 19.1.6 Electrical Wiring.

19.1.6.1 Blectrical wiring and equipment in any combustibic fiber storage room or building shall be installed in accordance with the requirements of Section 11.1 and NFPA 70, National Electrical Corte, for Class Ill hazardous locations.
19.1.3 Combustible waste or refuse shall be properly stored or disposed of to prevent unsafe conditions.
19.1.4 Fire extinguishing capabilities approved by the AHJ including, but not limited to, fire extinguishers, water supply and hose, and earth-moving equipment shall be provided at waste disposal sites.
19.1.5 Burning debris shall not be dumped at a waste disposal site except at a remote location on the site where fire
extinguishment can bo accomplished before compacing, covering, or other disposal activity is carried out, (See Section 10.11 for additional guidance.)

### 19.1.6 Electrical Wiring.

19.1.6.1 Electrical wiring and equipment in any combustible fiber storage room or building shall be installed in accordance with the requirements of Section 11.1 and NFPA 70, National Electrical Code, for Class III hazardous locations.
19.1.6.2 The AHJ shall be responsible for designating the areas that require hazardous location electricol classifications and shall classify the areas in accordance with the classification system sel forth in NFPA 70 .

### 19.1.7 No Smoking.

19.1.7.1 No smoking or open flame shall be permitted in any arca where combustible libers are handled or stored or within 50 $\mathrm{f}(15 \mathrm{~m})$ ol' any uncovered pile of such fibers.
19.1.7.2 "No Smoking" signs slaall be posted.
19.1.8 Vehicles or Conveyances Used to Transport Combustible Waste or Refuse.
19.1.8.1 Vehicles or conveyances used to transport combustible waste or refise over public thomughfares shall have all cargo space covered and maintained tight enoug to ensure against ignition from external fire sources and the scattering of buming and combustible debris that can come in contact with ignition sources.
19.1.8.2 Transporting burning waste or refiuse shall be prohibited.
19.1.83 Trucks or automobiles, other than medranical handling equipment and approved industrial trucks as listed in NIPA 505, Fire Safety Standard for Powered Industrial Tructs Inciuding Type Designations, Areas of Use, Conversions, Maintenance, and Operations, shall not enter any fiber storage rom or building but shall le permitted to be used at loading plat forms.

### 19.2 Combustible Waste and Refuse.

## 19,2.1 Rubbish Containers.

19.2.1.1 General. Rubbish containers kept outside of rooms or valils shall not exceed $40.5 \AA^{3}\left(1.15 \mathrm{~m}^{3}\right)$ capacity.
19.2.1.1.1 Containers exceoding a capucity of $5 \frac{1}{3} \mathrm{n}^{3}\left[40 \mathrm{gal}\left(0.15 \mathrm{~m}^{3}\right)\right]$ shall be provided with fick.
19.2.1.1.2 Such containers and lids as described in 19.2.1.1.1 shall be constructed of noncombustible materials or nonmetallic materials complying with 19.2.1.2.

### 19.2.1.2 Nommetallic Containers.

19.2.1.2.1* Nonmetalic rubbish containers exceeding a capacity of $5 \frac{1}{3} \mathrm{n}^{3}$ [ $\left.40 \mathrm{gal}\left(0.15 \mathrm{~m}^{3}\right)\right]$ shall be manutactured of materials having a peak rate of heat release not cxcecding $300 \mathrm{~kW} / \mathrm{m}^{2}$ at a flux of $50 \mathrm{~kW} / \mathrm{m}^{2}$ when tested in the horizontal orientation, at a thickness as used in the container but not less than of 0.25 in . ( 6 mm ), in accordance with ASTM E 1354, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter, or NPPA 271, Standard Method of Test for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter.

# Town of Brewster 

Office of:
2198 Main Street
Planning Board
Brewster, MA 02631-1898
Planning Dept.
Phone: (508) 896-3701
Fax: (508) 896-8089

## REPORT

TO: $\quad 162$ Underpass, LLC<br>The Free Sea Turtle, LLC<br>FROM: Jon Idman, Town Planner<br>RE: $\quad$ Staff Review \#\#s 23-2 and 23-3, Brewster Code Chapter 83, Section 4(D)<br>162 Underpass Road (Map 77, Lot 9)<br>Lots 1, 2 \& 3 Plan Book 698 Page 25<br>DATE: January 18, 2023

Proposed multi-building/ multi-unit commercial development with accessory commercial dwelling units on separate development sites along with supporting improvements (Lot 1 and Lot 2). Shared development infrastructure (parking, stormwater, etc.) on Lot 3.

## CH commercial district

Preliminary site plans for staff review (separate for Lot 1 and Lot 2) prepared by J.M. O'Reilly, dated 1/6/23

As separately owned/ controlled developments on separate lots, the proposed development as depicted would not require mandatory DRI referral/ review by the Cape Cod Commission.

The Staff Review meeting was held 1/20/23 at Town Hall, Room B with the following representatives of the Applicant:

- Charlie Whitcomb
- Paul Wallace
- John O'Reilly, PE, PLS

Town Staff in attendance

- Bill Grafton - Conservation Administrator
- Jon Idman - Town Planner
- Sherrie McCullough - Asst. Health Director
- Chris Miller - Natural Resources Director
- Robert Moran- Fire Chief
- Alex Provos- Asst. Water Superintendent


## Comments

- See attached written comments from DPW, the Fire Department, and the Health Department.
- A major stormwater permit will be required for proposed development on each Lot 1 and Lot 2 . ConsCom will likely be the authority for Lot 2 , and Planning Board for Lot 1 , because of wetlands jurisdiction.
- Another major stormwater permit may be required prior to any proposed development or permitting for the same, in order to do site work in advance. Such stormwater permit will deal exclusively with erosion control rather than permanent stormwater BMPs and facilities because no impervious surface would be proposed with the initial major stormwater permit for site work/ land disturbance.
- Zoning
- Contractor and Trades Building use has to be done in its own separate building/s on the site rather than as Row Commercial. The foregoing are separate and distinct uses. The lots are large enough/ have minimum lot area for either Row Commercial and/ or Contractor and Trades Building uses. The restaurant could not be located in the same trades use building proposed on lot 1 but would have to be in a separate building.
- It was confirmed that the restaurant use did not contain a brewery, which is a manufacturing use.
- Lot 1 shows a multi-family dwelling as defined in the Bylaw because three or more dwelling units are proposed in the building. That said, the Bylaw does not limit ACDUs to one per site as is the case with ADUs. ACDUs could be dispersed in various buildings on site per the total number of commercial units or operations proposed per Lot.
- Lot 3 is proposed to be developed with supporting infrastructure for both Lots 1 and 2. Per the definition of "Lot" in the Bylaw, Lot 3 would have to be joined with either Lot 1 or Lot 2, or split between them, through an ANR or perimeter plan, as applicable. Shared infrastructure could be accomplished through easements.
- Even if uses are allowed by right in the district, the application should specifically request them, e.g. outside storage, commercial vehicle parking, etc.
- Site plan review will be required for each Lot development.
- Staff would recommend to the planning board that some level of transportation study be provided dealing with trip generation, access, and turning movements.
- Driveway separation from other drives and roads should be provided per the site plan review standards. As is proposed, a single shared access point is generally preferred and to accommodate the same, the Bylaw allows for setback waivers for parking spaces, etc.
- Some landscape buffering will be required though it may not necessarily mean a continuous vegetated buffer of at least 10 ' around the entirety of the Lots.
- Development on Lot 2 should be mindful of wetlands and the conservancy district (including soils) to the north. As is proposed, minimum required zoning distance from a building to a wetland is $50^{\prime}$.
- We expect to have more detailed discussion including about parking and site plan review standards as the proposed development comes more into focus.

ENC


## Brewster Planning Department

2198 Main Street
Brewster, MA 02631-1898
508-896-3701 $\times 1133$
brewplan@brewster-ma.gov

Staff Review
Data Transmittal Sheet
_ James Gallagher, Assessor's Department
_ Davis Walters, Building Department/HDC
_ Bill Grafton, Conservation Department
$\underline{\text { Griffin Ryder, Department of Public Works }}$
_ Chief Robert Moran, Fire Department
_ Deputy Chief Kevin Varley, Fire Department
_ Amy von Hone, Health DepartmentNQRRC
_ Jill Scalise, Housing Office
_ Chris Miller, Natural Resources Department
_ Jon Idman, Planning Department
__ Lt. Charles Mawn, Police Dept
_ Peter Lombardi, Town Administration
_ Donna Kalinick, Town Administration
_ Paul Anderson, Water Department

| Date Submitted | January 10,2023 | Application Number 23-02 |
| :--- | :--- | :--- |
| Date Transmitted | January 13,2023 |  |


| Applicant | Paul Wallace |
| :--- | :--- |
| Proposal | The Applicant proposes to construct a new $140^{\prime} \times 60$ ' building with five (5) commercial bays, one (1) <br> restaurant space, one (1) two-bedroom security dwelling and four (4) one-bedroom accessory <br> commercial dwelling units. |
| Development 162 Underpass Road Lot 1 (Map 77, Lot 9) <br> Location  | Is application material complete for your preliminary review? Yes |

If no, please indicate what additional material, documentation, or information you may wish to see prior to the meeting:

## Additional Comments:

A DRIVEMry Curdevr PERMIr lalle BE REquICD fMOM RE DPW.


 THAT rHE DOIVEWAY IS SAFE.


Comments may be e-mailed to Lynn St. Cyr, Istcyr@brewster-ma.gov and/or provided at the Staff Review meeting on Friday, January 20, 2023 at 10:00 am in Room A. Thank you.

| From: | Sherrie McCullough |
| :--- | :--- |
| Sent: | Thursday, January 19, 2023 12:40 PM |
| To: | Lynn St. Cyr |
| Subject: | Staff Review Application \#23-02 for 162 Underpass Road, Lot 1, Map 77 Parcel 9 |

Applicant Paul Wallace proposes to construct a new $140^{\prime} \times 60^{\prime}$ building with five ( 5 ) commercial bays, restaurant space with 76 seats, one (1) two-bedroom security dwelling, and four (4) one-bedroom commercial accessory dwelling unit (ADU's)

Health Department comments based on information provided at this time.

- This parcel of land lies outside the Zone II, and the District of Critical Planning Concern (DCPC) and has access to town water. The property is located within an Environmentally Sensitive Area (ESA) per our local BoH regulation. The Property would be restricted to $110 \mathrm{gpd} / 10,000 \mathrm{sf}$ of land area if there are any variances required for the proposed septic system. The total land area is $42,200 \mathrm{SF}+/$ -
- Based on the current proposal total daily flow required is $3,470 \mathrm{gpd}$, the proposed plan shows $4,736 \mathrm{gpd}$ is proposed. Since the total daily flow is greater than $2,000 \mathrm{gpd}$, local BoH regulations (Small Wastewater Treatment Facilities) requires a denitrification system to meet the 10 ppm (Nitrogen $10 \mathrm{mg} / \mathrm{I}$, Nitrate Nitrogen $19 \mathrm{mg} / \mathrm{l})$ due to lot size. A dinitrogen system has been proposed on the current plan. Soil testing and evaluation was conducted on September 27, 2022.
- The restaurant service will require a grease trap as part of the septic system. A grease trap is represented on the plan but is not listed in the notes.
- The plan design lists a 74 -seat restaurant and a 76 - seat restaurant. The plan notes list one $76-84$ seat restaurant $\times 35 \mathrm{gpd} /$ seat $=2,660 \mathrm{gpd}$. The actual number of seats will need to be determined for final review.
- If the bays are to be accessible by vehicles, floor drains will be required in each bay and each floor drain will need to be connected to an industrial wastewater holding tank.
- Any proposed hazardous material storage or disposal must meet appropriate requirements.
- Prior to construction, septic plans and a Building Waiver Application will need to be submitted to the Health Department for full department review prior to final approval.

Respectfully submitted,
Sherrie

## Sherryic McCullaght R.S.

Assistant Health Director
Town of Brewster

Beginning March 21, Brewster Town Offices will be open to the public Monday through Thursday from 8:30 to 4:00pm, and by appointment on Fridays. For the latest updates on Town services, please visit www.brewster-ma.gov.


Brewster Planning Department<br>2198 Main Street<br>Brewster, MA 02631-1898<br>508-896-3701 $\times 1133$<br>brewplan@brewster-ma.gov<br>\section*{2198 Main Street}<br>\section*{Data Transmittal Sheet}

## JAN 1 a ~03

BRFMNM
BO.


If no, please indicate what additional material, documentation, or information you may wish to see prior to the meeting:

## Additional Comments:

## SEE FD COMmENTS ATTACHed



Comments may be e-maifed to Lynn St. Syr, Istcyr@brewster-ma.gov and/or provided at the Staff Review meeting on Friday, January 20, 2023 at 10;00 am in Room A. Thank you.

# Fire Department Comments Underpass Road Wallace Staff Review 

1. Per MGL Chapter 48 Section 26G buildings totaling more than 7,500 gross square feet shall be protected by an adequate system of automatic sprinklers in accordance with the provisions of the State Building Code.
2. The facility shall meet all requirements contained within 527 CMR 1.00 Massachusetts Comprehensive Fire Safety Code including all referenced NFPA Standards.
3. A computer-generated apparatus swept path and turn simulation analysis shall be provided to the fire department for review and approval.
4. Fire department access roads including roadways, fire lanes, and parking lot lanes shall be no less than $20^{\prime}$ in width.
5. Minimum inside turning radius of fire department access roads shall be $25^{\prime}$. The developer may be required to increase this minimum turning radius to accommodate fire department apparatus.
6. All vehicles shall be parked in designated parking spaces only. Parking for restaurant food pick-up service on interior parking lot lanes shall not be allowed.
7. Dead end fire department access roads in excess of $150^{\prime}$ in length shall be provided with approved provisions for fire apparatus to turn around (west side of building).
8. All access and interior parking lot lanes shall be designated as fire lanes. All signage and road markings shall be approved by the fire department prior to installation and issuance of a certificate of occupancy.
9. Area in front of garage bays shall be designated as a fire lane. Parking shall not be allowed.
10. A graded gravel pathway no less than 25 ' in width shall be installed on the exterior south side of the building to allow fire department access for fire suppression operations.
11. The developer shall install two (2) fire hydrants. The location shall be approved by the fire department prior to installation.
12. The fire department shall approve the location and type of fire department connections for the automatic sprinkler system prior to installation.
13. The fire department shall approve the location of all fire and carbon monoxide detection system reporting panels required under the State Building Code prior to installation.
14. An Emergency Responder Radio Communication System shall be installed in the building per section 916.1 of the Massachusetts State Building Code.
15. A Knox box key vault shall be installed on the building. Location and type shall be approved by the fire department prior to installation and issuance of a certificate of occupancy.
16. Street address and building unit numbers shall be approved by the fire department and installed prior to the issuance of a certificate of occupancy.
17. Dependent on occupancy and use of contractor bays special fire protection/detection systems meeting the State Building Code may be required.
18. Storage of any hazardous, flammable, combustible, or explosive materials in the contractor bays shall meet the requirements set forth in 527 CMR 1.00 Massachusetts Comprehensive Fire Safety Code.


## Staff Review <br> Data Transmittal Sheet

__ James Gallagher, Assessor's Department
__ Davis Waiters, Building Department/HDC
_ Bill Grafton, Conservation Department
X Griffin Ryder, Department of Public Works
_ Chief Robert Moran, Fire Department
_ Deputy Chief Kevin Varley, Fire Department
_ Amy vo Hone, Health Department/WQRC
__ Jill Scalise, Housing Office
_ Chris Miller, Natural Resources Department
__ Jon Adman, Planning Department
_ Lt. Charles Dawn, Police Dept
_ Peter Lombardi, Town Administration
_ Donna Kalinick, Town Administration
_ Paul Anderson, Water Department

23-03
Date Submitted January 10, 2023 Application Number 23-03

Date Transmitted January 13, 2023

## Applicant Charlie Whitcomb

Proposal The Applicant proposes to construct a new 100' $\times 50^{\prime}$ building with five ( 5 ) commercial bays and one (1) security dwelling.

Development 162 Underpass Road Lot 2 (Map 77, Lot 9) Location
Is application material complete for your preliminary review? Yes $\quad X$ No _-

If no, please indicate what additional material, documentation, or information you may wish to see prior to the meeting:

Additional Comments:
A DRWEWAY/Cuns cur PERMT Wire BE REquite from ter DPW.


 THE DRIVEWAY LOCATING IS SAFE.


Comments may be e-mailed to Lynn St. Cyr, Istcyr@brewster-ma.gov and/or provided at the Staff Review
meeting on Friday, January 20, 2023 at 11:00 am in Room A. Thank you.

| From: | Sherrie McCullough |
| :--- | :--- |
| Sent: | Thursday, January 19, 2023 12:47 PM |
| To: | Lynn St. Cyr |
| Subject: | Staff Review Application \#23-03 for 162 Underpass Road, Lot 2, Map 77 Parcel 9 |

Applicant Charlie Whitcomb proposes to construct a new $100^{\prime} \times 50^{\prime}$ building with five (5) commercial bays for trade shop or garage use, and one (1) two-bedroom security dwelling.

Health Department comments based on information provided at this time.

- This parcel of land lies outside the Zone II, and the District of Critical Planning Concern (DCPC) and has access to town water. The property is located within an Environmentally Sensitive Area (ESA) per our local BoH regulation. The Property would be restricted to $110 \mathrm{gpd} / 10,000 \mathrm{sf}$ of land area if there are any variances required for the proposed septic system. The total land area is $40,675+/-\mathrm{SF}$, wetland area is $306 \mathrm{SF}+/$, and upland area is $40,579 \mathrm{SF}+/$-.
- Based on the current proposal, total daily flow required is 370 gpd , the proposed plan shows 444 gpd is proposed. Soil testing and evaluation was conducted on September 27, 2022.
- If the bays are to be accessible by vehicles, floor drains will be required in each bay and each floor drain will need to be connected to an industrial wastewater holding tank.
- Any proposed hazardous material storage or disposal must meet appropriate requirements.
- Prior to construction, septic plans and a Building Waiver Application will need to be submitted to the Health Department for full department review prior to final approval.

Respectfully submitted,
Sherrie

## Sherrie McCallough R.S.

Assistant Health Director
Town of Brewster

Beginning March 21, Brewster Town Offices will be open to the public Monday through Thursday from 8:30 to 4:00pm, and by appointment on Fridays. For the latest updates on Town services, please visit www.brewster-ma.gov.


## Brewster Planning Department

2198 Main Street Brewster, MA 02631-1898 508-896-3701 $\times 1133$ brewplan@brewster-ma.gov

## Staff Review

Data Transmittal Sheet
__ James Gallagher, Assessor's Department
__ Davis Walters, Building Department/HDC
Bill Grafton, Conservation Department
Griffin Ryder Department of Public. Works

- Chief Robert Moran, Fire Department
_ Deputy Chief Kevin Varley, Fire Department -Amy vol Hone, Health Department/WQRC
$\qquad$ Jill Scalise, Housing Office
_ Chris Miller, Natural Resources Department _ Jon Idman, Planning Department
Lt. Charles Mawn, Police Dept
_ Peter Lombardi, Town Administration Donna Kalinick, Town Administration Paul Anderson, Water Department

| Date Submitted | January 10,2023 | Application Number |
| :--- | :--- | :--- |
| Date Transmitted | January 13,203 |  |


| Applicant | Charlie Whitcomb |
| :--- | :--- |
| Proposal | The Applicant proposes to construct a new $100^{\circ} \times 50^{\prime}$ building with five (5) commercial bays and one <br> (1) security dwelling. |
| Development 162 Underpass Road Lot 2 (Map 77, Lot 9 ) <br> Location  |  |
| Is application material complete for your preliminary review? Yes _- No _- |  |

If no, please indicate what additional material, documentation, or information you may wish to see prior to the meeting:

Additional Comments:


Comments may be e-malled to Lynn St. Syr, Istcyr@brewster-ma.gov and/or provided at the Staff Review meeting on Friday, January 20, 2023 at 11:00 am in Room A. Thank you.

## Fire Department Comments Underpass Road Whitcomb

 Staff Review1. Occupancy and proposed mixed residential/commercial use of building may require the installation of an automatic sprinkler system in accordance with the provisions of the State Building Code.
2. The facility shall meet all requirements contained within 527 CMR 1.00 Massachusetts Comprehensive Fire Safety Code including all referenced NFPA Standards.
3. A computer-generated apparatus swept path and turn simulation analysis shall be provided to the fire department for review and approval.
4. Fire department access roads including roadways, fire lanes, and parking lot lanes shall be no less than $20^{\prime}$ in width.
5. Minimum inside turning radius of fire department access roads shall be 25'. The developer may be required to increase this minimum turning radius to accommodate fire department apparatus.
6. All vehicles shall be parked in designated parking spaces only. Area in front of garage bays shall be designated as a fire lane. Parking shall not be allowed.
7. Dead end fire department access roads in excess of 150 in length shall be provided with approved provisions for fire apparatus to turn around (west end of parking lot lanes and access road)
8. All interior parking lot lanes and roads shall be designated as fire lanes. All signage and road markings shall be approved by the fire department prior to installation and issuance of a certificate of occupancy.
9. The developer shall install one (1) fire hydrant. The location shall be approved by the fire department prior to installation.
10. The fire department shall approve the location and type of fire department connections for any required automatic sprinkler system prior to installation.
11. The fire department shall approve the location of all fire and carbon monoxide detection system reporting panels required under the State Building Code prior to installation.
12. An Emergency Responder Radio Communication System shall be installed in the building per section 916.1 of the Massachusetts State Building Code.
13. A Knox box key vault shall be installed on the building. Location and type shall be approved by the fire department prior to installation and issuance of a certificate of occupancy.
14. Street address and building unit numbers shall be approved by the fire department and installed prior to the issuance of a certificate of occupancy.
15. Dependent on occupancy and use of contractor bays special fire protection/detection systems meeting the State Building Code may be required.
16. Storage of any hazardous, flammable, combustible, or explosive materials in the contractor bays shall meet the requirements set forth in 527 CMR 1.00 Massachusetts Comprehensive Fire Safety Code.
17. A graded gravel pathway no less than $25^{\prime}$ in width shall be installed on the exterior north side of the building to allow fire department access for fire suppression operations.

## CASE NO. 2024-04 ONLY

DOCUMENTS FOR
THE FREE SEA TURTLE, LLC PAUL WALLACE, MANAGER 162 UNDERPASS ROAD

Town of Brewster
Office of:
2198 Main Street
Planning Board
Brewster, MA 02631-1898
Planning Dept.
Phone: (508) 896-3701
Fax: (508) 896-8089

## STAFF REPORT

TO: Planning Board<br>FROM: Town Planner<br>Re: $\quad$ Special Pemit \& Site Plan Review: Case No. PB24-4<br>162 Underpass Road (Map 77, Lot 9), The Free Sea Turtle, LLC<br>Plan Book 698, Page 25, "Lot 1"<br>DATE: April 2, 2024

This is not intended to be a comprehensive or final report on the project, but rather preliminary comments that will be supplemented and revised throughout the pendency of review.
Specifically, I plan to provide my recommendations and opinions about the project's consistency with site plan review and special permit standards later in the hearing/ review period.

Copies of comments from the formal, pre-filing Staff Review process have also been provided to assist the Board, though these comments refer to iterative project designs elements that may now have been revised in the application plan set.

## General

- The property is located in the CH (commercial) district.
- A single, two-story building is proposed, with a footprint of $3,300+/-$ square feet. Four total units are proposed in the building, one on the ground floor and three on the second floor.
- Because of the new uses and floor area size proposed, the proposed development is subject to site plan review.
- The proposed development underwent formal Staff Review, as required.
- The property is currently vacant, is largely disturbed and was previously used for an excavation business.
- Small "Lot 4" shown on the site plans and Plan Book 698, Page 25 is not included in the development proposal.
- There is a significant change in grade throughout the lot, and a retaining wall is proposed along the property's southern boundary.
- Because of the grade of the lot, access to the second floor of the building is via a walk to the rear of the building.
- No floodplains, impaired watershed, Zone II or wetlands areas are located on the lot.


## Uses

- The main site use is "Row Commercial," which in turn allows individual uses allowed in the district to be undertaken within the constituent units. Row Commercial is allowed by right in the district.
- The full-service restaurant use, proposed to occupy the entire first floor, requires a special permit in the district. Outdoor seasonal dining is proposed on the patio, accessory to the restaurant use.
- The menu of proposed uses for the three, second floor units are allowed by right in the CH district: retail; gift shop; art gallery; antique store; personal services; business offices; and repair services (not automotive).
- Storage of commercial vehicles would also be allowed on the lot, as proposed.
- The plans appear to meet all ROW Commercial requirements set out in Section 179-38 of the Zoning Bylaw, including maximum building coverage ( $25 \%$ ) and minimum vegetated 'green' area ( $25 \%$ ).
- The building appears to meet setback requirements.


## Infrastructure

- The proposed development has received a Stormwater Management Permit. The approved stormwater management system is consistent with stormwater management standards under site plan review.
- In addition to stormwater management, the proposed development shares infrastructure and improvements with the development proposed on abutting Lot $2 / 3$ (pending case PB24-5): access and driveways; landscaping; signage; bike rack; dumpsters; and parking.


## Landscaping

- The application states that there is a proposed evergreen buffer along the western property line with the abutting town property (Eddy School). This is not shown or referenced on the landscape plan but should be.
- The landscape plan uses native species or species appropriate to the area and context. It appears that in addition to the existing vegetation, the proposed plantings would create a continuous buffer along Underpass Road; the Board should confirm the sufficiency of this buffer.
- The proposed lawn areas should be confirmed as turf-type tall fescue.
- The landscape details sheet in the site plan set should be revised to recognize that the water quality swale will be planted with shrubs, not turf, thus reference to loam and seed should be revised.


## Building Design

- Two master signs are proposed, both on 'Lot 1,' presumably to serve both Lot 1 and Lot $2 / 3$. The Building Commissioner is the master sign permitting authority. Depending on their proposed size, the master signs may require a special permit from the Planning Board.
- The application generally states the exterior building finishes. The application suggests that the building will be a typical metal space building, but also refers to wood siding. The Board might want more specific details on materials.
- The building design appears to be much more interesting, complex and attractive than a 'typical' metal space building.
- The lighting fixtures selected can be ordered as "fully shielded, full cut-off." Any approval should condition the lighting to be full-shielded and full cut-off.


## Parking

- The Zoning Bylaw allows the Board through site plan review to waive or modify parking and drive aisle width requirements (including parking space setbacks and number of spaces), especially useful in cases where parking and access is to be shared. The proposal requests and relies on such flexibility for parking setbacks and driveway width. See Zoning Bylaw Sections 179-23A and 179-66(B) \& (D).
- The proposed number of shared spaces proposed between the two abutting developments (55) is consistent with the Board's parking policy (September 11, 2013), as calculated in the site plan set.
- It appears that parking is curbed, so no wheel stops are necessary.


## Traffic/ Access

- The applicant's engineer has met with the Fire Chief to confirm adequate site access and circulation for emergency service vehicles (see 'swept path analysis' in site plan set).
- The Applicant provided a transportation assessment by VHB for the proposed developments, including trip generation, level of service, crash data and sight line analyses. It concludes that the proposed access drive is located in the safest possible location and has sufficient sight lines; there is not a crash history in the area of locus; and that the resulting level of service in the roadways under proposed development conditions remains acceptable.
- Trip reduction measures are proposed to mitigate new trip generation. For trip reduction measures, the Applicant is proposing a travel demand management (TDM) program, which would, as a condition of any approval, be implemented onsite amongst the various tenants/ users when the project is completed and buildings occupied.
- The TDM program would include a proposed sidewalk on-site along Underpass Road, along with a crosswalk, to connect with the sidewalk system along the east side of the road. The proposed new site access drive and crosswalk is towards the southern end of the property, in proximity to the new curb cut/ access drive. A bike rack is also proposed on the restaurant patio. The TDM program should take note that the CCRTA has a fixed route along Underpass Road, with a stop only a short distance to the south of the property at the intersection of Snow Road and Underpass Road.
- The Board might want to consider how many bike rack spaces should be provided, as they will serve both proposed developments.
- The site dumpsters are shared, located on Lot $2 / 3$, and access to them appears adequate.
- A loading zone for the restaurant is provided east of the building, near the proposed outdoor freezer.
- A curbcut/ driveway permit will be required from DPW; construction access and activities (including the proposed sidewalk and crosswalk on Underpass Road) should be coordinated with DPW prior to any commencement of work.

| From: | Victor Staley |
| :--- | :--- |
| Sent: | Thursday, March 7, 2024 11:54 AM |
| To: | Lynn St. Cyr |
| Cc: | Richard Leibowitz; Jonathon Idman; Erika Glidden; Victor Staley |
| Subject: | FW: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass |
|  | Road (Map 77, Parcel 10 \& 60) |
| Attachments: | PB\#2024-04 and PB\#2024-05 combined application.pdf; Staff Report 23-2 and 23-3 |
|  | Underpass Rd 011823.pdf; Staff Review Report 23-5 and 23-6 Underpass Rd 081123.pdf |

Hello Lynn,
The Building Comments are as follows.
This review does not include the proposed signage as there was not enough information to assist in commenting on Zoning Bylaw compliance. All Sections identified are from the Brewster Zoning Bylaw unless otherwise noted.

## Lot 1 application.

1. The list of proposed uses is accurate pursuant to Table 1 , Table of Uses. If this petition is considered as Row Commercial, then the maximum building coverage is $25 \%$ rather than the $40 \%$ as presented. I could not determine of Lot 1 has a minimum of $25 \%$ green space. Please refer to Section 38.
2. All buildings and spaces open to the general public (including clients) shall satisfy the accessibility standards of 521 CMR.
3. Depending upon the actual uses to be introduced the MA State Building Code may require the building sprinkled, alarmed, or otherwise protected by fire rated assemblies.
4. The stair system identified at the rear of both buildings shall not exceed four (4) feet in height including hand/guardrail systems. Table 2 , Note 5.

## Lots 2 \& 3 application.

1. The list of proposed uses is accurate pursuant to Table 1, Table of Uses. It would be my opinion that a Building and Construction Trades Shop or Garage (BCTSG) cannot be combined with the other two (2) uses proposed as they are mutually exclusive of each other pursuant to definition in Section 2.
2. There are five (5) bays identified in the plans which gives a confusing aspect to the limitation to having only four (trades) on a property. See definition Section 2.
3. The proposed parking appears to violate setbacks pursuant to Section 23-A.
4. The mixed-use building contains a residential unit which automatically requires the entire building to be sprinkled. MA State Building Code amendments Chapter 9.

Thank you,

## Victor

## Victor Staley

Alternate Building Commissioner
508-896-3701 ext. 1125

| From: | Sherrie McCullough |
| :--- | :--- |
| Sent: | Tuesday, March 5, 2024 9:40 AM |
| To: | Lynn St. Cyr |
| Subject: | Special Permit and Site Plan Review Case No. 2024-04, Map 77, Parcel 9 |

Hi Lynn,
Health Department comments are as follows based upon information provided at this time.

- This parcel of land lies outside the Zone II, and the District of Critical Planning Concern (DCPC). The parcel lies within the Cape Cod Bay Watershed and has access to town water.
- The proposed septic system shall be fully compliant with both the State Sanitary Code (Title 5) and the Local Brewster Board of Health requirements and may require review by the Brewster Board of Health.
- Any proposed outdoor seating with waiter/waitress service for the proposed restaurant must be included in the total septic capacity. Additionally, any proposed outdoor food service will require approval of an Outdoor Café License through the Board of Health.
- Any proposed hazardous material storage or disposal must meet appropriate requirements.
- Prior to construction, septic plans and a Building Waiver Application will need to be submitted to the Health Department for a full department review prior to final approval.

Respectfully submitted,
Sherrie

## Sherrie McCullough R.S.

Assistant Health Director
Town of Brewster

Beginning March 21, Brewster Town Offices will be open to the public Monday through Thursday from 8:30 to 4:00pm, and by appointment on Fridays. For the latest updates on Town services, please visit www. brewster-ma.gov.

From:<br>Sent:<br>To:<br>Subject:<br>Attachments:<br>\section*{Robert Moran}<br>Friday, March 1, 2024 3:38 PM<br>Lynn St. Cyr; James Gallagher; Richard Leibowitz; Victor Staley; William Grafton; Griffin Ryder; Kevin Varley; Scott Romer; Amy von Hone; Erika Glidden; Chris Miller; Jonathon Idman; Charles Mawn; Peter Lombardi; Donna Kalinick; Paul Anderson RE: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road (Map 77, Parcel $10 \& 60$ )<br>Whitcomb-Staff-Review-Underpass-3-24.docx; Wallace-Staff-Review-Underpass-3-24.docx

Hi Lynn, fd comments remain the same and are attached. I am meeting with John O'Reilly Wednesday regarding parking lot access and egress.

Robert Moran
Fire Chief/Emergency Management Director
Brewster Fire/Rescue Department
1671 Main Street
Brewster, MA 02631
(W) 508-896-7018
(F) 508-896-4245

From: Lynn St. Cyr [|stcyr@brewster-ma.gov](mailto:%7Cstcyr@brewster-ma.gov)
Sent: Tuesday, February 27, 2024 11:58 AM
To: James Gallagher [jgallagher@brewster-ma.gov](mailto:jgallagher@brewster-ma.gov); Richard Leibowitz [rleibowitz@brewster-ma.gov](mailto:rleibowitz@brewster-ma.gov); Victor Staley [vstaley@brewster-ma.gov](mailto:vstaley@brewster-ma.gov); William Grafton [wgrafton@brewster-ma.gov](mailto:wgrafton@brewster-ma.gov); Griffin Ryder [gryder@brewster-ma.gov](mailto:gryder@brewster-ma.gov); Robert Moran [rmoran@brewster-ma.gov](mailto:rmoran@brewster-ma.gov); Kevin Varley [kvarley@brewster-ma.gov](mailto:kvarley@brewster-ma.gov); Scott Romer [sromer@brewster-ma.gov](mailto:sromer@brewster-ma.gov); Amy von Hone [avonhone@brewster-ma.gov](mailto:avonhone@brewster-ma.gov); Erika Glidden [eglidden@brewsterma.gov](mailto:eglidden@brewsterma.gov); Chris Miller [cmiller@brewster-ma.gov](mailto:cmiller@brewster-ma.gov); Jonathon Idman [jldman@brewster-ma.gov](mailto:jldman@brewster-ma.gov); Charles Mawn [cmawn@brewster-ma.gov](mailto:cmawn@brewster-ma.gov); Peter Lombardi [plombardi@brewster-ma.gov](mailto:plombardi@brewster-ma.gov); Donna Kalinick [dkalinick@brewsterma.gov](mailto:dkalinick@brewsterma.gov); Paul Anderson [panderson@brewster-ma.gov](mailto:panderson@brewster-ma.gov)
Subject: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road (Map 77, Parcel 10 \& 60)
Good morning,
Attached please find applications for:

## Special Permit and Site Plan Review Case No. 2024-04

Applicant The Free Sea Turtle, LLC, Paul Wallace, Manager, for property located at 162 Underpass Road (Map 77, Parcel 9) in the Commercial High Density (CH) Zoning District. The Applicant proposes to construct two commercial buildings. The larger western building is proposed to have two floors and contain eight commercial units. There are several proposed uses for the commercial units. Please see the narrative included with application for further detail on these uses. The second commercial building is proposed as a full-service restaurant and lounge.

## Special Permit and Site Plan Review Case No. 2024-05

Applicant 162 Underpass LLC, Charles Whitcomb III, Manager, for property located at Underpass Road (Map 77, Parcel 10\&60) in the Commercial High Density (CH) Zoning District. The Applicant proposes one commercial building with five bays with a proposed use of building and construction trades shop or garage. Additionally, outside storage of business materials and more than two commercial vehicles are also proposed on site. An attached two-bedroom security dwelling is also proposed.

## Fire Department Comments Underpass Road Wallace Staff Review

1. Per MGL Chapter 48 Section 26G buildings totaling more than 7,500 gross square feet shall be protected by an adequate system of automatic sprinklers in accordance with the provisions of the State Building Code.
2. The facility shall meet all requirements contained within 527 CMR 1.00 Massachusetts Comprehensive Fire Safety Code including all referenced NFPA Standards.
3. A computer-generated apparatus swept path and turn simulation analysis shall be provided to the fire department for review and approval.
4. Fire department access roads including roadways, fire lanes, and parking lot lanes shall be no less than $20^{\prime}$ in width.
5. Minimum inside turning radius of fire department access roads shall be $25^{\prime}$. The developer may be required to increase this minimum turning radius to accommodate fire department apparatus.
6. All vehicles shall be parked in designated parking spaces only. Parking for restaurant food pick-up service on interior parking lot lanes shall not be allowed.
7. Dead end fire department access roads in excess of 150 ' in length shall be provided with approved provisions for fire apparatus to turn around (west side of building).
8. All access and interior parking lot lanes shall be designated as fire lanes. All signage and road markings shall be approved by the fire department prior to installation and issuance of a certificate of occupancy.
9. Area in front of garage bays shall be designated as a fire lane. Parking shall not be allowed.
10. A graded gravel pathway no less than $25^{\prime}$ in width shall be installed on the exterior south side of the building to allow fire department access for fire suppression operations.
11. The developer shall install two (2) fire hydrants. The location shall be approved by the fire department prior to installation.
12. The fire department shall approve the location and type of fire department connections for the automatic sprinkler system prior to installation.
13. The fire department shall approve the location of all fire and carbon monoxide detection system reporting panels required under the State Building Code prior to installation.
14. An Emergency Responder Radio Communication System shall be installed in the building per section 916.1 of the Massachusetts State Building Code.
15. A Knox box key vault shall be installed on the building. Location and type shall be approved by the fire department prior to installation and issuance of a certificate of occupancy.
16. Street address and building unit numbers shall be approved by the fire department and installed prior to the issuance of a certificate of occupancy.
17. Dependent on occupancy and use of contractor bays special fire protection/detection systems meeting the State Building Code may be required.
18. Storage of any hazardous, flammable, combustible, or explosive materials in the contractor bays shall meet the requirements set forth in 527 CMR 1.00 Massachusetts Comprehensive Fire Safety Code.

From:
Sent:
To:
Subject:

Charles Mawn
Friday, March 1, 2024 1:50 PM.
Lynn St. Cyr
Re: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road (Map 77, Parcel 10 \& 60)

Lynn,
Police Dept. has no comments

## Lt. Charles Mawn

Brewster Police Dept.
631 Harwich Rd.
Brewster, MA. 02631
Phone: (508) 896-7011
Fax: (508) 896-4525
Email: cmawn@brewster-ma.gov


From: Lynn St. Cyr [lstcyr@brewster-ma.gov](mailto:lstcyr@brewster-ma.gov)
Sent: Tuesday, February 27, 2024 11:57 AM
To: James Gallagher [jgallagher@brewster-ma.gov](mailto:jgallagher@brewster-ma.gov); Richard Leibowitz [rleibowitz@brewster-ma.gov](mailto:rleibowitz@brewster-ma.gov); Victor Staley [vstaley@brewster-ma.gov](mailto:vstaley@brewster-ma.gov); William Grafton [wgrafton@brewster-ma.gov](mailto:wgrafton@brewster-ma.gov); Griffin Ryder [gryder@brewster-ma.gov](mailto:gryder@brewster-ma.gov); Robert Moran [rmoran@brewster-ma.gov](mailto:rmoran@brewster-ma.gov); Kevin Varley [kvarley@brewster-ma.gov](mailto:kvarley@brewster-ma.gov); Scott Romer [sromer@brewster-ma.gov](mailto:sromer@brewster-ma.gov); Amy von Hone [avonhone@brewster-ma.gov](mailto:avonhone@brewster-ma.gov); Erika Glidden [eglidden@brewsterma.gov](mailto:eglidden@brewsterma.gov); Chris Miller [cmiller@brewster-ma.gov](mailto:cmiller@brewster-ma.gov); Jonathon Idman [jldman@brewster-ma.gov](mailto:jldman@brewster-ma.gov); Charles Mawn [cmawn@brewster-ma.gov](mailto:cmawn@brewster-ma.gov); Peter Lombardi [plombardi@brewster-ma.gov](mailto:plombardi@brewster-ma.gov); Donna Kalinick [dkalinick@brewsterma.gov](mailto:dkalinick@brewsterma.gov); Paul Anderson [panderson@brewster-ma.gov](mailto:panderson@brewster-ma.gov) Subject: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road (Map 77, Parcel 10 \& 60)

Good morning,
Attached please find applications for:
Special Permit and Site Plan Review Case No. 2024-04
Applicant The Free Sea Turtle, LLC, Paul Wallace, Manager, for property located at 162 Underpass Road (Map 77, Parcel 9) in the Commercial High Density (CH) Zoning District. The Applicant proposes to construct two commercial buildings. The larger western building is proposed to have two floors and contain eight commercial units. There are several proposed uses for the commercial units. Please see the narrative included with application for further detail on these uses. The second commercial building is proposed as a full-service restaurant and lounge.

Applicant 162 Underpass LLC, Charles Whitcomb III, Manager, for property located at Underpass Road (Map 77, Parcel 10\&60) in the Commercial High Density (CH) Zoning District. The Applicant proposes one commercial building with five bays with a proposed use of building and construction trades shop or garage. Additionally, outside storage of business materials and more than two commercial vehicles are also proposed on site. An attached two-bedroom security dwelling is also proposed.

The Applicants have submitted separate applications, building plans, and landscaping plans for their projects. They have submitted a joint plan set, traffic memorandum, and lighting specifications for their projects. All are included in the attached "PB\#2024-04 and PB\#2024-05 combined application" pdf.

Also attached for reference are the staff reports from the two previous staff review meetings (January 2023 and August 2023) on these projects.

All referenced documents are also available for review in the Planning Department.
These applications have been scheduled for hearing before the Planning Board on Wednesdav, March 13, 2024. If possible, please provide your comments on these applications by Fridav, March 8, 2024.

Thank you,
Lynn

## Lynn St. Cyr

Senior Department Assistant, Planning Department
Town of Brewster
2198 Main Street, Brewster, MA 02631
T: 508-896-3701 $\times 1233$
Brewster Town Offices will be open to the public Monday through Thursday from 8:30 am to 4:00 pm, and by appointment on Fridays. For the latest updates on Town services, please visit www.brewster-ma.gov.

## From:

## Sent:

To:
Subject:

Chris Miller
Tuesday, February 27, 2024 12:20 PM
Lynn St. Cyr
RE: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road (Map 77, Parcel $10 \& 60$ )

Hi Lynn, no specific comments from Natural Resources; Bill will respond separately for Conservation.

Chris Miller, Director
Brewster Department of Natural Resources
508-896-4546 $\times 4244$
cmiller@brewster-ma.gov
Brewster Town Offices are open to the public Monday through Thursday from 8:30 am to 4:00 pm , and by appointment on Fridays. For the latest updates on Town services, please visit www.brewster-ma.gov

From: Lynn St. Cyr [lstcyr@brewster-ma.gov](mailto:lstcyr@brewster-ma.gov)
Sent: Tuesday, February 27, 2024 11:58 AM
To: James Gallagher [jgallagher@brewster-ma.gov](mailto:jgallagher@brewster-ma.gov); Richard Leibowitz [rleibowitz@brewster-ma.gov](mailto:rleibowitz@brewster-ma.gov); Victor Staley [vstaley@brewster-ma.gov](mailto:vstaley@brewster-ma.gov); William Grafton [wgrafton@brewster-ma.gov](mailto:wgrafton@brewster-ma.gov); Griffin Ryder [gryder@brewster-ma.gov](mailto:gryder@brewster-ma.gov); Robert Moran [rmoran@brewster-ma.gov](mailto:rmoran@brewster-ma.gov); Kevin Varley [kvarley@brewster-ma.gov](mailto:kvarley@brewster-ma.gov); Scott Romer [sromer@brewster-ma.gov](mailto:sromer@brewster-ma.gov); Amy von Hone [avonhone@brewster-ma.gov](mailto:avonhone@brewster-ma.gov); Erika Glidden [eglidden@brewsterma.gov](mailto:eglidden@brewsterma.gov); Chris Miller [cmiller@brewster-ma.gov](mailto:cmiller@brewster-ma.gov); Jonathon Idman [jldman@brewster-ma.gov](mailto:jldman@brewster-ma.gov); Charles Mawn [cmawn@brewster-ma.gov](mailto:cmawn@brewster-ma.gov); Peter Lombardi [plombardi@brewster-ma.gov](mailto:plombardi@brewster-ma.gov); Donna Kalinick [dkalinick@brewsterma.gov](mailto:dkalinick@brewsterma.gov); Paul Anderson [panderson@brewster-ma.gov](mailto:panderson@brewster-ma.gov) Subject: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road (Map 77, Parcel 10 \& 60) Good morning,

Attached please find applications for:
Special Permit and Site Plan Review Case No. 2024-04
Applicant The Free Sea Turtle, LLC, Paul Wallace, Manager, for property located at 162 Underpass Road (Map 77, Parcel 9) in the Commercial High Density (CH) Zoning District. The Applicant proposes to construct two commercial buildings. The larger western building is proposed to have two floors and contain eight commercial units. There are several proposed uses for the commercial units. Please see the narrative included with application for further detail on these uses. The second commercial building is proposed as a full-service restaurant and lounge.

Special Permit and Site Plan Review Case No. 2024-05
Applicant 162 Underpass LLC, Charles Whitcomb III, Manager, for property located at Underpass Road (Map 77, Parcel 10\&60) in the Commercial High Density (CH) Zoning District. The Applicant proposes one commercial building with five bays with a proposed use of building and construction trades shop or garage. Additionally, outside storage of business materials and more than two commercial vehicles are also proposed on site. An attached two-bedroom security dwelling is also proposed.

The Applicants have submitted separate applications, building plans, and landscaping plans for their projects. They have submitted a joint plan set, traffic memorandum, and lighting specifications for their projects. All are included in the attached "PB\#2024-04 and PB\#2024-05 combined application" pdf.

Also attached for reference are the staff reports from the two previous staff review meetings (January 2023 and August 2023) on these projects.

All referenced documents are also available for review in the Planning Department.
These applications have been scheduled for hearing before the Planning Board on Wednesday, March 13, 2024. If possible, please provide your comments on these applications by Friday, March 8, 2024.

Thank you,
Lynn

Lynn St. Cyr
Senior Department Assistant, Planning Department
Town of Brewster
2198 Main Street, Brewster, MA 02631
T: 508-896-3701 x1233
Brewster Town Offices will be open to the public Monday through Thursday from 8:30 am to 4:00 pm, and by appointment on Fridays. For the latest updates on Town services, please visit www.brewster-ma.gov.


162 Underpass Road
Street Address

Map 77, Parcel 9
Assessors Map ls) and Parcels)

Book 35532, Page 98
Deed/ Title Reference

Zone CH
Zoning District (s)

Applicant:
The Free Sea Turtle, LLC
Name
21 Crosby Lane, Brewster, MA 02631
Mailing Address

508-246-2892
Phone Number
paulwallace@outerbarco.com
Email Address

Property Owner (if different than Applicant):

Same
Name

Mailing Address

Phone Number
Email Address

Professional Representative:

John O'Reilly, P.E., P.L.S., of J.M. O'REILLY \&A SSOCAITES, INC.
Name
P.O. Box 1773, Brewster, MA 02631

Mailing Address

508-896-6601
Phone Number
joreilly@jmoreillyassoc.com

Email Address

Type of Application (Check as applicable):
$\qquad$ Special Permit
(Zoning Bylaw Section 179-51 or list other or different Zoning Bylaw Sections, as applicable, below)
$\qquad$ Site Plan Review (Zoning Bylaw Section 179-63)
__ Decision Modification (Provide relevant case number/s below)
Decision Extension (Provide relevant case number/s below)
Other (List Zoning Bylaw Section/s below)

Brief Project Description:__The project proposes two commercial buildings along with associated
parking and landscape. The proposed uses on the parcel are a restaurant space (front Building)
and a second building for Commercial spaces / contractor bay (rear building). The parking area will be shared with 0 Underpass Road (162 Underpass LLC) Signatures


> Property Owner (if different than Applicant)

Date


If the Applicant is not the Owner, the Application materials shall include the Owner's written consent or authorization to make application, or evidence that the Applicant's interest in the property is sufficient to make application (e.g. lease, $P \& S$ Agreement, etc.).

The burden is on the applicant to provide accurate, sufficient and complete information in the application. Attached is a checklist of materials and information required to be submitted for a complete application. Incompleteness could be cause for delays in review or denial of an application.

By making application, the Owner and Applicant hereby authorize the Planning Board and its agents to conduct site visits, at reasonable times, to assist in review of the application.

Please refer to current Planning Board schedule for application filing deadlines and associated meeting dates. The Board will make best efforts to work within this filing schedule but is not obligated to do so; the Board's review timelines are established under the Brewster Code and Massachusetts General Laws. In its discretion, the Board may agenda matters, which do not require public hearings, for the next available meeting even if received after the respective filing deadline.

## Submit to: Brewster Planning Department Town Offices- 2198 Main Street Brewster, Massachusetts 02631-1898 <br> (508) 896-3701 x 1133 <br> brewplan@brewster-ma.gov



Both, 162 UNDERPASS ELE, a Massachusetts Limited Piafility Company with a mailing address of 76 Aunt Sophie RDad, Brewster, MA 02631 and FHE FREE SEA TURTLE LLC, a Massachusetts LinitEd 耳iabilfy Cofnpany with a mailing address Loffel $_{1}$ LCrosby Lane, Brewster, MA 02631, C O P Y

C O P Y
for consideration paid in the amount ONE and 00/100 (\$1.00) DOLLAR,
grant to THE FREE SEA TURTLE LLC, a Massachusetts Limited Liability Company with a mailing address of 21 Crosby Lane, Brewster, MA 02631,

WITH QUITCLAIM COVENANTS, the land, with buildings thereon, situated in Brewster, Barnstable County, Massachusetts, described as follows:

## LOT 1 <br> PLAN BOOK 698, PAGE 25

Containing an area of 44,200 square feet of land, more or less, and being shown as Lot 1 on Plan entitled, "Plan of Land in Brewster Massachusetts at 162 Underpass Road" as surveyed and prepared for The Free Sea Turtle, LLC and 162 Underpass, LLC Scale $1 \mathrm{in} .=30 \mathrm{ft}$. October 19, 2022, J.M. O'Reilly \& Associates, Inc., 1573 Main Street, P.O. Box 1773, Brewster, Massachusetts 02631", recorded with Barnstable County Registry of Deeds in Plan Book 698, Page 25.

The above-described premises are conveyed subject to and together with the benefit of any rights, rights of way, reservations, restrictions, easements and other matters of record, insofar as the same are in force and applicable.

For title, see Deeds recorded with Barnstable County Registry of Deeds in Book 35100, Page 13.
Grantors release any and all homestead rights to the within premises, whether created by declaration or operation of law, and further states under the pains and penalties of perjury that the herein described premises were not the primary residence of the grantors or their spouses and that there are no other individuals entitled to homestead rights to the property being conveyed herein.


NOT
A N
OF F IC I AL
CO P Y


162 UNDERPASS LDC


Charles Whitcomb, III, Manager

## COMMONWEALTH OF MASSACHUSETTS

On the above date, before me, the undersigned notary public, personally appeared Charles Whitcomb, III, Manager of 162 Underpass LLC who proved to me through satisfactory evidence of identification, which was a photographic identification with signature issued by a federal or state governmental agency, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose and who swore or affirmed to me that the contents of the attached document are truthful and accurate to the best of his knowledge and belief.



Executed as a sealed instramern in under the pains and penalties $\stackrel{\mathrm{N}}{\mathrm{N}} \mathrm{f}^{\mathrm{T}}$ perjury this $2^{\text {nd }}$ day of December, ${ }^{2022}$ O F F I C I A L


## COMMONWEALTH OF MASSACHUSETTS

Barnstable, ss
December 2,2022

On the above date, before me, the undersigned notary public, personally appeared Charles Whitcomb, II, Manager of 162 Underpass LLC who proved to me through satisfactory evidence of identification, which was a photographic identification with signature issued by a federal or state governmental agency, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose and who swore or affirmed to me that the contents of the attached document are truthful and accurate to the best of his knowledge and belief.


William Francis Calvin Secretary of the Commonwealth

## The Gommonwealth of Massachusetts

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CO P Y
CO P Y
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OF F I CI AL OF F IC I A L TO WHOM IT MAY CONCERT: CO P Y

I hereby certify that a certificate of organization of a Limited Liability Company was filed in this office by

## 162 UNDERPASS LC

in accordance with the provisions of Massachusetts General Laws Chapter 156C on May 5, 2022.

I further certify that said Limited Liability Company has filed all annual reports due and paid all fees with respect to such reports; that said Limited Liability Company has not filed a certificate of cancellation; that there are no proceedings presently pending under the Massachusetts General Laws Chapter 156C, § 70 for said Limited Liability Company's dissolution; and that said Limited Liability Company is in good standing with this office.

I also certify that the names of all managers listed in the most recent filing are:

## CHARLES WHITCOMB III

I further certify, the names of all persons authorized to execute documents filed with this office and listed in the most recent filing are: CHARLES WHITCOMB III

The names of all persons authorized to act with respect to real property listed in the most recent filing are: CHARLES WHITCOMB III


In testimony of which,
I have hereunto affixed the
Great Seal of the Commonwealth on the date first above written.


William Francis Gavin Secretary of the
Commonwealth

## The Gommonwealth of Massachusetts

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CO BY
CO P Y
$\mathrm{N} \circ \mathrm{T}$
A N December 5, 2022 A N
OFFICIAL
OFFICIAL
CO P Y

I hereby certify that a certificate of organization of a Limited Liability Company was filed in this office by

## THE FREE SEA TURTLE LLD

in accordance with the provisions of Massachusetts General Laws Chapter 156C on April 20, 2022.

I further certify that said Limited Liability Company has filed all annual reports due and paid all fees with respect to such reports; that said Limited Liability Company has not filed a certificate of cancellation; that there are no proceedings presently pending under the Massachusetts General Laws Chapter 156C, § 70 for said Limited Liability Company's dissolution; and that said Limited Liability Company is in good standing with this office.

I also certify that the names of all managers listed in the most recent filing are: PAUL WALLACE

I further certify, the names of all persons authorized to execute documents filed with this office and listed in the most recent filing are: PAUL WALLACE

The names of all persons authorized to act with respect to real property listed in the most recent filing are: PAUL WALLACE


In testimony of which,
I have hereunto affixed the
Great Seal of the Commonwealth
on the date first above written.
Helkinntraning Pain
Secretary of the Commonwealth


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| aty botancal name | Common name | $\underline{\text { SIIE }}$ |
| :---: | :---: | :---: |
| trees |  |  |
| Acer rubrum 'Frank Jr.' TM | Redpointe Red Maple | 8-10' clump |
| Betula nigra 'Heritage' | Heritage River Birch | 5 gal |
| Ulmus parvifolia 'Allee` | Allee Lacebark Elm | 5 gal |
| CONIFERS |  |  |
| Thuja standishii x plicata 'Green Giant' | Green Giant Arborvitae | 8-10 |
| SHRUBS |  |  |
| Hydrangea arborescens 'Abetwo' | Incrediball Hydrangea | *egal |
| 11 \|lex crenata 'Hellerii' | Heller Japanese Holly | 5 gal |
| 16 llex glabra 'Densa' | Dense Inkberry Holly | 3 gal |
| Myrica pensylvanica | Werthern Bayberry | 5 gal |
| Viburnum dentatum 'Chicago Luster' | Chicago Luster Arrowwood | 5 gal |

## CASE NO. 2024-05 ONLY

 DOCUMENTS FOR 162 UNDERPASS LLCCHARLES WHITCOMB III, MANAGER 0 UNDERPASS ROAD

Town of Brewster
Office of:
2198 Main Street
Planning Board
Planning Dept.
Brewster, MA 02631-1898
Phone: (508) 896-3701
Fax: (508) 896-8089

## STAFF REPORT

TO: Planning Board<br>FROM: Town Planner<br>Re: $\quad$ Case No. PB24-5: Special Pemit \& Site Plan Review 0 Underpass Road (M 77 PCLs $10 \& 60$ ), 162 Underpass, LLC Plan Book 698, Page 25, Lots 2 \& 3 ("Lot 2/3")<br>DATE: April 2, 2024

This is not intended to be a comprehensive or final report on the project, but rather preliminary comments that will be supplemented and revised throughout the pendency of review.
Specifically, I plan to provide my recommendations and opinions about the project's consistency with site plan review and special permit standards later in the hearing/ review period.

Copies of comments from the formal, pre-filing Staff Review process have also been provided to assist the Board, though these comments refer to iterative project designs elements that may now have been revised in the application plan set.

## General

- The property is located in the CH (commercial) district.
- Because of the new uses and floor area proposed, the proposed development is subject to site plan review.
- The proposed development underwent formal Staff Review, as required.
- The development lot is composed of Lots $2 \& 3$ shown on Plan Book 698, Page 25. As a condition of any approval, the applicant will be required to prepare a so-called " 81 X " perimeter plan of the property to effectively merge the parcels.
- Wetlands and wetland buffer zones exist onsite. The proposed development has received an Order of Conditions from the Conservation Commission.
- Efforts have been made to place as much development as possible outside wetlands buffer areas; the septic system is located entirely outside the wetlands buffer.
- No floodplains, impaired marine watershed area, or Zone II areas are located on the lot.
- Some of the lot has mapped conservancy soils; however, building development is not proposed within these mapped areas.
- There is a significant change in grade throughout the property, and a retaining wall is proposed along the property's western boundary.
- The property is currently vacant, is largely disturbed and was previously used for an excavation business.
- Small "Lot 4" shown on the site plans and Plan Book 698, Page 25 is not included in the development proposal.


## Uses

- The proposed uses are allowed in the CH district: Building and Construction Trades (special permit) \& security dwelling (by right).
- One, single story 5000 sq ft gfa building is proposed (exclusive of the security dwelling which is proposed to be connected/ joined to the metal space building). 5 contractor units/ bays are proposed ( 1000 sq ft each).
- The security dwelling is limited to use and occupancy (owner/ caretaker) as described in the Zoning Bylaw.
- The Building and Construction Trades use ${ }^{1}$ allows up to four contractor businesses on a site, in one or more buildings of no more than 6000 sq ft floor area total. Five bays/ units are proposed. Thus, any approval should be conditioned that there be no more than four building and construction trades businesses on-site.
- Material and equipment storage is also proposed, accessory to the principal contractor uses. As shown on the site plan, there is what appears to be three bulk material storage bins (formed with retaining walls), as well as 'equipment storage,' in the western part of the lot.
- The Planning Board will need to decide whether the material bins constitute storage as allowed in the CH district and/ or as part of a defined Building and Construction Trades use. ${ }^{2}$
- If the materials storage bins are deemed allowed and appropriate, it appears that some or all of the six gravel parking spaces proposed should be eliminated or relocated to avoid space or safety conflicts. It is my opinion that even without these six spaces, there are sufficient shared spaces proposed (49) to serve the abutting developments, and that the Board would have the authority to approve the same. The Board may also consider whether trees/ shrubs should be proposed to buffer the materials bin, perhaps along the curb shown abutting the proposed gravel parking spaces.
- In addition, the Applicant should clarify/ provide details about the "proposed equipment storage" shown on the plan. The storage should be enclosed, such as in a storage container, and as such is also subject to yard setback requirements, compliance with which should be confirmed.
- At any rate, it appears that as might be allowed, the equipment and material storage needs to be related to a contractor business on the site, rather than operate as a separate or independent use or business.
- Storage of commercial vehicles would also be allowed on the lot, as proposed.

[^4]
## Infrastructure

- The proposed development has received a Stormwater Management Permit. The approved stormwater management system is consistent with stormwater management standards under site plan review.
- In addition to stormwater management, the proposed development shares infrastructure and improvements with the development proposed on abutting Lot 1 (pending case PB244): access and driveways; landscaping; signage; bike rack; dumpsters; and parking.


## Landscaping

- The application states that there is a proposed evergreen buffer along the western property line with the abutting town property (Eddy School). This is not shown or referenced on the landscape plan but should be.
- There are infill plantings proposed within the area of the former curbcut to be abandoned (which is north of the new proposed curbcut).
- The landscape plan includes restoration planting of the wetlands buffer, as reviewed and approved by the Conservation Commission.
- The landscape plan uses native species or species appropriate to the area and context. It appears that in addition to the existing vegetation, the proposed plantings would create a continuous buffer along Underpass Road; the Board should confirm the sufficiency of this buffer.
- The proposed lawn areas should be confirmed as turf-type tall fescue.
- The landscape details sheet in the site plan set should be revised to recognize that the water quality swale will be planted with shrubs, not turf, thus reference to loam and seed should be revised.


## Building Design

- Two master signs are proposed, both on 'Lot 1,' presumably to serve both Lot 1 and Lot $2 / 3$. The Building Commissioner is the master sign permitting authority. Depending on their proposed size, the master signs may require a special permit from the Planning Board.
- The application generally states the exterior building finishes. The Board might want more specific details on materials.
- The lighting fixtures selected can be ordered as "fully shielded, full cut-off." Any approval should condition the lighting to be fully shielded and full cut-off.


## Parking

- The Zoning Bylaw allows the Board through site plan review to waive or modify parking and drive aisle width requirements (including parking space setbacks and number of spaces), especially useful in cases where parking and access is to be shared. The proposal requests and relies on such flexibility for parking setbacks and driveway width. See Zoning Bylaw Sections 179-23A and 179-66(B) \& (D).
- The proposed number of shared spaces proposed between the two abutting developments (55) is consistent with the Board's parking policy (September 11, 2013), as calculated in the site plan set.
- It appears that parking is curbed, so no wheel stops are necessary.
- All units will have overhead doors, which is sufficient for required loading zones.


## Traffic/ Access

- The applicant's engineer has met with the Fire Chief to confirm adequate site access and circulation for emergency service vehicles (see 'swept path analysis' in site plan set).
- The Applicant provided a transportation assessment by VHB for the proposed developments, including trip generation, level of service, crash data and sight line analyses. It concludes that the proposed access drive is located in the safest possible location and has sufficient sight lines; there is not a crash history in the area of locus; and that the resulting level of service in the roadways under proposed development conditions remains acceptable.
- Trip reduction measures are proposed to mitigate new trip generation. For trip reduction measures, the Applicant is proposing a travel demand management (TDM) program, which would, as a condition of any approval, be implemented onsite amongst the various tenants/ users when the project is completed and buildings occupied.
- The TDM program would include a proposed sidewalk on-site along Underpass Road, along with a crosswalk, to connect with the sidewalk system along the east side of the road. The proposed new site access drive and crosswalk is towards the southern end of the property, in proximity to the new curb cut/ access drive. A bike rack is also proposed on the restaurant patio. The TDM program should take note that the CCRTA has a fixed route along Underpass Road, with a stop only a short distance to the south of the property at the intersection of Snow Road and Underpass Road.
- The Board might want to consider how many bike rack spaces should be provided, as they will serve both proposed developments.
- The site dumpsters are shared, located on Lot $2 / 3$, and access to them appears adequate.
- A curbcut/ driveway permit will be required from DPW; construction access and activities (including the proposed sidewalk and crosswalk on Underpass Road) should be coordinated with DPW prior to any commencement of work.


## From:

Sent:
To:
Cc:
Subject:

William Grafton
Monday, March 11, 2024 12:29 PM
Lynn St. Cyr
Jonathon Idman
RE: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road (Map 77, Parcel 10 \& 60)

Lynn, sorry for the delayed response.
The applicants submitted a new Notice of Intent that was approved by the Brewster Conservation Commission as Order of Conditions/SE9-1962. This application was for the development of the property as summarized: The approved work includes the construction of a commercial building and stormwater features as well mitigation plantings associated with SE9-1920. A review of the approved Conservation Commission site plan dated 11/22/2023 prepared by J.M. O'Reilly \& Associates, Inc. signed and stamped by John O'Reilly, PLS \& RPE to the submitted site plan/Sheet 1 of 5 dated 02/02/2024 prepared by J.M. O'Reilly \& Associates, Inc. indicates that the proposed work/activity within the 100 -foot buffer to the wetlands does not require any further Conservation Permitting than what is already in place.
8. Final Approved Plans and Other Documents (attach additional plan or document references as needed):
Proposed Site \& Sewage Disposal Plan (Lot $2 \& 3$ at 0 Underpass Road, Brewster, MA)
a. Plan Title
J.M. O'Relly \& Associates, Inc. John O'Reilly, PLS \& RPE
b. Prepared By
c. Signed and Stamped by

11/22/2023
As Noted
d. Final Revision Date
e. Scale

Landscape/Mitigation 162 Underpass, LLC Lot 2 @ 162
11/202/2023
Underpass Road, Brewster prepared by Philip L. Cheney g. Date

The following SE9-1962/OOC Special Conditions are good reminders:
A13. Heavy equipment is permitted for use in the placement of fill and landscape grading. Vegetation management shall be completed by hand or with hand tools. No machinery shall be operated on the wetland side of the limit of work.
A22. Any fill materials used for project activities shall be clean. Fill shall not contain any trash, refuse, rubbish, or debris. The source, volume, and characterization of these materials shall be submitted prior to placement. A23. After grading activities are completed, the areas of open soil shall be seeded with native grasses/plantings and stabilized. See the Vegetation Notes on the approved site plan dated $3 / 31 / 2023$ referenced in A. General Information Item 8 of this Order of Conditions/WPA Form 5 SE9-1920 Amended for guidance.
A24. Mitigation plantings shall be in accordance with the approved mitigation planting plan and protocols referenced in A. General Information, Item 8 of these Order of Conditions (WPA Form 5/SE9-1962). The (38) thirtyeight native trees and shrubs shall be planted the first planting season following the completion of the commercial building within Conservation jurisdictional boundaries.

These Conservation Comments from the August 11, 2023 Staff Review are still relevant.
5. The Order of Conditions/SE9-1920 and SE9-1920 Amended should be closed with a Certificate of Compliance after the Conservation Commission has approved and issued the new Order of Conditions and proof of recording has been provided to the Conservation Administrator.
6. The SWMC2023-01 (stormwater permit through Conservation) should be closed out with a Certificate of Compliance after the Planning Board has approved and issued the new SWMP Permit.

Hope this is helpful.

Respectfully,

Bill Grafton
Brewster Conservation Administrator
1657 Main Street
Brewster, MA 02631
Phone (508) 896-4546 ext. 4242

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From: Lynn St. Cyr [lstcyr@brewster-ma.gov](mailto:lstcyr@brewster-ma.gov)
Sent: Tuesday, February 27, 2024 11:58 AM
To: James Gallagher [jgallagher@brewster-ma.gov](mailto:jgallagher@brewster-ma.gov); Richard Leibowitz [rleibowitz@brewster-ma.gov](mailto:rleibowitz@brewster-ma.gov); Victor Staley [vstaley@brewster-ma.gov](mailto:vstaley@brewster-ma.gov); William Grafton [wgrafton@brewster-ma.gov](mailto:wgrafton@brewster-ma.gov); Griffin Ryder [gryder@brewster-ma.gov](mailto:gryder@brewster-ma.gov); Robert Moran [rmoran@brewster-ma.gov](mailto:rmoran@brewster-ma.gov); Kevin Varley [kvarley@brewster-ma.gov](mailto:kvarley@brewster-ma.gov); Scott Romer [sromer@brewster-ma.gov](mailto:sromer@brewster-ma.gov); Amy von Hone [avonhone@brewster-ma.gov](mailto:avonhone@brewster-ma.gov); Erika Glidden [eglidden@brewsterma.gov](mailto:eglidden@brewsterma.gov); Chris Miller [cmiller@brewster-ma.gov](mailto:cmiller@brewster-ma.gov); Jonathon Idman [jldman@brewster-ma.gov](mailto:jldman@brewster-ma.gov); Charles Mawn [cmawn@brewster-ma.gov](mailto:cmawn@brewster-ma.gov); Peter Lombardi [plombardi@brewster-ma.gov](mailto:plombardi@brewster-ma.gov); Donna Kalinick [dkalinick@brewsterma.gov](mailto:dkalinick@brewsterma.gov); Paul Anderson [panderson@brewster-ma.gov](mailto:panderson@brewster-ma.gov)
Subject: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road (Map 77, Parcel 10 \& 60)

Good morning,

Attached please find applications for:

## Special Permit and Site Plan Review Case No. 2024-04

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## Special Permit and Site Plan Review Case No. 2024-05

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Also attached for reference are the staff reports from the two previous staff review meetings (January 2023 and August 2023) on these projects.

All referenced documents are also available for review in the Planning Department.

These applications have been scheduled for hearing before the Planning Board on Wednesday, March 13, 2024. If possible, please provide your comments on these applications by Fridav, March 8, 2024.

Thank you,
Lynn
Lynn St. Cyr
Senior Department Assistant, Planning Department
Town of Brewster
2198 Main Street, Brewster, MA 02631
T: 508-896-3701 x1233
Brewster Town Offices will be open to the public Monday through Thursday from 8:30 am to 4:00 pm, and by appointment on Fridays. For the latest updates on Town services, please visit www.brewster-ma.gov.

## From:

Sent:
TO:
Cc:
Subject:

Attachments:

Victor Staley
Thursday, March 7, 2024 11:54 AM
Lynn St. Cyr
Richard Leibowitz; Jonathon Idman; Erika Glidden; Victor Staley
FW: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass
Road (Map 77, Parcel 10 \& 60)
PB\#2024-04 and PB\#2024-05 combined application.pdf; Staff Report 23-2 and 23-3
Underpass Rd 011823 .pdf; Staff Review Report 23-5 and 23-6 Underpass Rd 081123.pdf

Hello Lynn,
The Building Comments are as follows.
This review does not include the proposed signage as there was not enough information to assist in commenting on Zoning Bylaw compliance. All Sections identified are from the Brewster Zoning Bylaw unless otherwise noted.

## Lot 1 application.

1. The list of proposed uses is accurate pursuant to Table 1, Table of Uses. If this petition is considered as Row Commercial, then the maximum building coverage is $25 \%$ rather than the $40 \%$ as presented. I could not determine of Lot 1 has a minimum of $25 \%$ green space. Please refer to Section 38.
2. All buildings and spaces open to the general public (including clients) shall satisfy the accessibility standards of 521 CMR.
3. Depending upon the actual uses to be introduced the MA State Building Code may require the building sprinkled, alarmed, or otherwise protected by fire rated assemblies.
4. The stair system identified at the rear of both buildings shall not exceed four (4) feet in height including hand/guardrail systems. Table 2, Note 5.

## Lots 2 \& 3 application.

1. The list of proposed uses is accurate pursuant to Table 1, Table of Uses. It would be my opinion that a Building and Construction Trades Shop or Garage (BCTSG) cannot be combined with the other two (2) uses proposed as they are mutually exclusive of each other pursuant to definition in Section 2.
2. There are five (5) bays identified in the plans which gives a confusing aspect to the limitation to having only four (trades) on a property. See definition Section 2.
3. The proposed parking appears to violate setbacks pursuant to Section 23-A.
4. The mixed-use building contains a residential unit which automatically requires the entire building to be sprinkled. MA State Building Code amendments Chapter 9.

Thank you,

Victor

Victor Staley
Alternate Building Commissioner
508-896-3701 ext. 1125

From:
Sent:
To:
Subject:

Sherrie McCullough
Monday, March 4, 2024 5:12 PM
Lynn St. Cyr
Special Permit and Site Plan Review Case No. 2024-05, Map 77 Parcel 10 \& 60

Hi Lynn,
Health Department comments are as follows based upon information provided at this time.

- This parcel of land lies outside the Zone II, and the District of Critical Planning Concern (DCPC). The parcel lies within the Cape Cod Bay Watershed and has access to town water. The property is located within an Environmentally Sensitive Area (ESA) per our local Board of Health regulation. The Property would be restricted to $110 \mathrm{gpd} / 10,000$ sf of land area if there are any variances required for the for the proposed septic system.
- The proposed septic system shall be fully compliant with both the State Sanitary Code (Title 5) and the Local Brewster Board of Health requirements and may require review by the Brewster Board of Health.
- If the bays are to be accessible by vehicles, floor drains will be required in each bay and each floor drain will need to be connected to an industrial wastewater holding tank.
- Any proposed hazardous material storage or disposal must meet appropriate requirements.
- Prior to construction, septic plans and a Building Waiver Application will need to be submitted to the Health Department for full department review prior to final approval.

Respectfully submitted,
Sherrie

## Sherrie McCullough R.S.

Assistant Health Director

Town of Brewster

Beginning March 21, Brewster Town Offices will be open to the public Monday through Thursday from 8:30 to 4:00pm, and by appointment on Fridays. For the latest updates on Town services, please visit www.brewster-ma.gov.

## Lynn St. Cyr

## From:

Sent:
To:

## Subject:

Attachments:

## Robert Moran

Friday, March 1, 2024 3:38 PM
Lynn St. Cyr; James Gallagher; Richard Leibowitz; Victor Staley; William Grafton; Griffin Ryder; Kevin Varley; Scott Romer; Amy von Hone; Erika Glidden; Chris Miller; Jonathon Idman; Charles Mawn; Peter Lombardi; Donna Kalinick; Paul Anderson RE: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road (Map 77, Parcel 10 \& 60)
Whitcomb-Staff-Review-Underpass-3-24.docx; Wallace-Staff-Review-
Underpass-3-24.docx

Hi Lynn, fd comments remain the same and are attached. I am meeting with John O'Reilly Wednesday regarding parking lot access and egress.

Robert Moran
Fire Chief/Emergency Management Director
Brewster Fire/Rescue Department
1671 Main Street
Brewster, MA 02631
(W) 508-896-7018
(F) 508-896-4245

From: Lynn St. Cyr [lstcyr@brewster-ma.gov](mailto:lstcyr@brewster-ma.gov)
Sent: Tuesday, February 27, 2024 11:58 AM
To: James Gallagher [jgallagher@brewster-ma.gov](mailto:jgallagher@brewster-ma.gov); Richard Leibowitz [rleibowitz@brewster-ma.gov](mailto:rleibowitz@brewster-ma.gov); Victor Staley [vstaley@brewster-ma.gov](mailto:vstaley@brewster-ma.gov); William Grafton [wgrafton@brewster-ma.gov](mailto:wgrafton@brewster-ma.gov); Griffin Ryder [gryder@brewster-ma.gov](mailto:gryder@brewster-ma.gov); Robert Moran [rmoran@brewster-ma.gov](mailto:rmoran@brewster-ma.gov); Kevin Varley [kvarley@brewster-ma.gov](mailto:kvarley@brewster-ma.gov); Scott Romer [sromer@brewster-ma.gov](mailto:sromer@brewster-ma.gov); Amy von Hone [avonhone@brewster-ma.gov](mailto:avonhone@brewster-ma.gov); Erika Glidden [eglidden@brewsterma.gov](mailto:eglidden@brewsterma.gov); Chris Miller [cmiller@brewster-ma.gov](mailto:cmiller@brewster-ma.gov); Jonathon Idman [jldman@brewster-ma.gov](mailto:jldman@brewster-ma.gov); Charles Mawn [cmawn@brewster-ma.gov](mailto:cmawn@brewster-ma.gov); Peter Lombardi [plombardi@brewster-ma.gov](mailto:plombardi@brewster-ma.gov); Donna Kalinick [dkalinick@brewsterma.gov](mailto:dkalinick@brewsterma.gov); Paul Anderson [panderson@brewster-ma.gov](mailto:panderson@brewster-ma.gov)
Subject: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road (Map 77, Parcel 10 \& 60)
Good morning,
Attached please find applications for:

## Special Permit and Site Plan Review Case No. 2024-04

Applicant The Free Sea Turtle, LLC, Paul Wallace, Manager, for property located at 162 Underpass Road (Map 77, Parcel 9) in the Commercial High Density (CH) Zoning District. The Applicant proposes to construct two commercial buildings. The larger western building is proposed to have two floors and contain eight commercial units. There are several proposed uses for the commercial units. Please see the narrative included with application for further detail on these uses. The second commercial building is proposed as a full-service restaurant and lounge.

## Special Permit and Site Plan Review Case No. 2024-05

Applicant 162 Underpass LLC, Charles Whitcomb III, Manager, for property located at Underpass Road (Map 77, Parcel 10\&60) in the Commercial High Density (CH) Zoning District. The Applicant proposes one commercial building with five bays with a proposed use of building and construction trades shop or garage. Additionally, outside storage of business materials and more than two commercial vehicles are also proposed on site. An attached two-bedroom security dwelling is also proposed.

The Applicants have submitted separate applications, building plans, and landscaping plans for their projects. They have submitted a joint plan set, traffic memorandum, and lighting specifications for their projects. All are included in the attached "PB\#2024-04 and PB\#2024-05 combined application" pdf.

Also attached for reference are the staff reports from the two previous staff review meetings (January 2023 and August 2023) on these projects.

All referenced documents are also available for review in the Planning Department.
These applications have been scheduled for hearing before the Planning Board on Wednesday, March 13, 2024. If possible, please provide your comments on these applications by Friday, March 8, 2024.

Thank you,
Lynn
Lynn St. Cyr
Senior Department Assistant, Planning Department
Town of Brewster
2198 Main Street, Brewster, MA 02631
T: 508-896-3701 x1233
Brewster Town Offices will be open to the public Monday through Thursday from 8:30 am to 4:00 pm, and by appointment on Fridays. For the latest updates on Town services, please visit www.brewster-ma.gov.

## Fire Department Comments Underpass Road Whitcomb Staff Review

1. Occupancy and proposed mixed residential/commercial use of building may require the installation of an automatic sprinkler system in accordance with the provisions of the State Building Code.
2. The facility shall meet all requirements contained within 527 CMR 1.00 Massachusetts Comprehensive Fire Safety Code including all referenced NFPA Standards.
3. A computer-generated apparatus swept path and turn simulation analysis shall be provided to the fire department for review and approval.
4. Fire department access roads including roadways, fire lanes, and parking lot lanes shall be no less than $20^{\prime}$ in width.
5. Minimum inside turning radius of fire department access roads shall be 25 '. The developer may be required to increase this minimum turning radius to accommodate fire department apparatus.
6. All vehicles shall be parked in designated parking spaces only. Area in front of garage bays shall be designated as a fire lane. Parking shall not be allowed.
7. Dead end fire department access roads in excess of $150^{\prime}$ in length shall be provided with approved provisions for fire apparatus to turn around (west end of parking lot lanes and access road)
8. All interior parking lot lanes and roads shall be designated as fire lanes. All signage and road markings shall be approved by the fire department prior to installation and issuance of a certificate of occupancy.
9. The developer shall install one (1) fire hydrant. The location shall be approved by the fire department prior to installation.
10. The fire department shall approve the location and type of fire department connections for any required automatic sprinkler system prior to installation.
11. The fire department shall approve the location of all fire and carbon monoxide detection system reporting panels required under the State Building Code prior to installation.
12. An Emergency Responder Radio Communication System shall be installed in the building per section 916.1 of the Massachusetts State Building Code.
13. A Knox box key vault shall be installed on the building. Location and type shall be approved by the fire department prior to installation and issuance of a certificate of occupancy.
14. Street address and building unit numbers shall be approved by the fire department and installed prior to the issuance of a certificate of occupancy.
15. Dependent on occupancy and use of contractor bays special fire protection/detection systems meeting the State Building Code may be required.
16. Storage of any hazardous, flammable, combustible, or explosive materials in the contractor bays shall meet the requirements set forth in 527 CMR 1.00 Massachusetts Comprehensive Fire Safety Code.
17. A graded gravel pathway no less than $25^{\prime}$ in width shall be installed on the exterior north side of the building to allow fire department access for fire suppression operations.

## From:

Sent:
To:
Subject:

Charles Mawn
Friday, March 1, 2024 1:50 PM .
Lynn St. Cyr
Re: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road
(Map 77, Parcel $10 \& 60$ )

Lynn,
Police Dept. has no comments

## Lt. Charles Mawn

Brewster Police Dept.
631 Harwich Rd.
Brewster, MA. 02631
Phone: (508) 896-7011
Fax: (508) 896-4525
Email: cmawn@brewster-ma.gov


From: Lynn St. Cyr [lstcyr@brewster-ma.gov](mailto:lstcyr@brewster-ma.gov)

## Sent: Tuesday, February 27, 2024 11:57 AM

To: James Gallagher [jgallagher@brewster-ma.gov](mailto:jgallagher@brewster-ma.gov); Richard Leibowitz [rleibowitz@brewster-ma.gov](mailto:rleibowitz@brewster-ma.gov); Victor Staley [vstaley@brewster-ma.gov](mailto:vstaley@brewster-ma.gov); William Grafton [wgrafton@brewster-ma.gov](mailto:wgrafton@brewster-ma.gov); Griffin Ryder [gryder@brewster-ma.gov](mailto:gryder@brewster-ma.gov); Robert Moran [rmoran@brewster-ma.gov](mailto:rmoran@brewster-ma.gov); Kevin Varley [kvarley@brewster-ma.gov](mailto:kvarley@brewster-ma.gov); Scott Romer [sromer@brewster-ma.gov](mailto:sromer@brewster-ma.gov); Amy von Hone [avonhone@brewster-ma.gov](mailto:avonhone@brewster-ma.gov); Erika Glidden [eglidden@brewsterma.gov](mailto:eglidden@brewsterma.gov); Chris Miller [cmiller@brewster-ma.gov](mailto:cmiller@brewster-ma.gov); Jonathon Idman [jldman@brewster-ma.gov](mailto:jldman@brewster-ma.gov); Charles Mawn [cmawn@brewster-ma.gov](mailto:cmawn@brewster-ma.gov); Peter Lombardi [plombardi@brewster-ma.gov](mailto:plombardi@brewster-ma.gov); Donna Kalinick [dkalinick@brewsterma.gov](mailto:dkalinick@brewsterma.gov); Paul Anderson [panderson@brewster-ma.gov](mailto:panderson@brewster-ma.gov)
Subject: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road (Map 77, Parcel 10 \& 60)
Good morning,
Attached please find applications for:

## Special Permit and Site Plan Review Case No. 2024-04

Applicant The Free Sea Turtle, LLC, Paul Wallace, Manager, for property located at 162 Underpass Road (Map 77, Parcel 9) in the Commercial High Density (CH) Zoning District. The Applicant proposes to construct two commercial buildings. The larger western building is proposed to have two floors and contain eight commercial units. There are several proposed uses for the commercial units. Please see the narrative included with application for further detail on these uses. The second commercial building is proposed as a full-service restaurant and lounge.

Applicant 162 Underpass LLC, Charles Whitcomb III, Manager, for property located at Underpass Road (Map 77, Parcel $10 \& 60$ ) in the Commercial High Density ( CH ) Zoning District. The Applicant proposes one commercial building with five bays with a proposed use of building and construction trades shop or garage. Additionally, outside storage of business materials and more than two commercial vehicles are also proposed on site. An attached two-bedroom security dwelling is also proposed.

The Applicants have submitted separate applications, building plans, and landscaping plans for their projects. They have submitted a joint plan set, traffic memorandum, and lighting specifications for their projects. All are included in the attached "PB\#2024-04 and PB\#2024-05 combined application" pdf.

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These applications have been scheduled for hearing before the Planning Board on Wednesday, March 13, 2024. If possible, please provide your comments on these applications by Friday, March 8, 2024.

Thank you, Lynn

Lynn St. Cyr
Senior Department Assistant, Planning Department
Town of Brewster
2198 Main Street, Brewster, MA 02631
T: 508-896-3701 x1233

Brewster Town Offices will be open to the public Monday through Thursday from 8:30 am to 4:00 pm, and by appointment on Fridays. For the latest updates on Town services, please visit www.brewster-ma.gov.

| From: | Chris Miller |
| :--- | :--- |
| Sent: | Tuesday, February 27, 2024 12:20 PM |
| To: | Lynn St. Cyr |
| Subject: | RE: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road |
|  | (Map 77, Parcel 10 \& 60) |

Hi Lynn, no specific comments from Natural Resources; Bill will respond separately for Conservation.

```
--
Chris Miller, Director
Brewster Department of Natural Resources
508-896-4546 x4244
cmiller@brewster-ma.gov
```

Brewster Town Offices are open to the public Monday through Thursday from 8:30 am to 4:00 pm, and by appointment on Fridays. For the latest updates on Town services, please visit www.brewster-ma.gov

From: Lynn St. Cyr [lstcyr@brewster-ma.gov](mailto:lstcyr@brewster-ma.gov)
Sent: Tuesday, February 27, 2024 11:58 AM
To: James Gallagher [jgallagher@brewster-ma.gov](mailto:jgallagher@brewster-ma.gov); Richard Leibowitz [rleibowitz@brewster-ma.gov](mailto:rleibowitz@brewster-ma.gov); Victor Staley [vstaley@brewster-ma.gov](mailto:vstaley@brewster-ma.gov); William Grafton [wgrafton@brewster-ma.gov](mailto:wgrafton@brewster-ma.gov); Griffin Ryder [gryder@brewster-ma.gov](mailto:gryder@brewster-ma.gov); Robert Moran [rmoran@brewster-ma.gov](mailto:rmoran@brewster-ma.gov); Kevin Varley [kvarley@brewster-ma.gov](mailto:kvarley@brewster-ma.gov); Scott Romer [sromer@brewster-ma.gov](mailto:sromer@brewster-ma.gov); Amy von Hone [avonhone@brewster-ma.gov](mailto:avonhone@brewster-ma.gov); Erika Glidden [eglidden@brewsterma.gov](mailto:eglidden@brewsterma.gov); Chris Miller [cmiller@brewster-ma.gov](mailto:cmiller@brewster-ma.gov); Jonathon Idman [jldman@brewster-ma.gov](mailto:jldman@brewster-ma.gov); Charles Mawn [cmawn@brewster-ma.gov](mailto:cmawn@brewster-ma.gov); Peter Lombardi [plombardi@brewster-ma.gov](mailto:plombardi@brewster-ma.gov); Donna Kalinick [dkalinick@brewsterma.gov](mailto:dkalinick@brewsterma.gov); Paul Anderson [panderson@brewster-ma.gov](mailto:panderson@brewster-ma.gov)
Subject: Request for Comments-162 Underpass Road (Map 77, Parcel 9) and Underpass Road (Map 77, Parcel 10 \& 60)
Good morning,
Attached please find applications for:

## Special Permit and Site Plan Review Case No. 2024-04

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## Special Permit and Site Plan Review Case No. 2024-05

Applicant 162 Underpass LLC, Charles Whitcomb III, Manager, for property located at Underpass Road (Map 77, Parcel 10\&60) in the Commercial High Density ( CH ) Zoning District. The Applicant proposes one commercial building with five bays with a proposed use of building and construction trades shop or garage. Additionally, outside storage of business materials and more than two commercial vehicles are also proposed on site. An attached two-bedroom security dwelling is also proposed.

The Applicants have submitted separate applications, building plans, and landscaping plans for their projects. They have submitted a joint plan set, traffic memorandum, and lighting specifications for their projects. All are included in the attached "PB\#2024-04 and PB\#2024-05 combined application" pdf.

Also attached for reference are the staff reports from the two previous staff review meetings (January 2023 and August 2023) on these projects.

All referenced documents are also available for review in the Planning Department.
These applications have been scheduled for hearing before the Planning Board on Wednesday, March 13, 2024. If possible, please provide your comments on these applications by Friday, March 8, 2024.

Thank you,
Lynn
Lynn St. Cyr
Senior Department Assistant, Planning Department
Town of Brewster
2198 Main Street, Brewster, MA 02631
T: 508-896-3701 x1233
Brewster Town Offices will be open to the public Monday through Thursday from 8:30 am to 4:00 pm, and by appointment on Fridays. For the latest updates on Town services, please visit www.brewster-ma.gov.

Project Location:


0 Underpass Road
Street Address

Map 77, Parcel 10 \& 60
Assessors Map (s) and Parcels)

Book 35532, Page 93
Deed/ Title Reference

## Zone CH

Zoning District (s)

Applicant:
162 Underpass LLC
Name
76 Aunt Sophies Road, Brewster, MA 02631
Mailing Address

774-413-5659
Phone Number
cwhitcomb80@icloud.com
Email Address

Property Owner (if different than Applicant):
Same
Name

Mailing Address

Phone Number
Email Address
Professional Representative:

John O'Reilly, P.E., P.L.S., of J.M. O'REILLY \&A SSOCAITES, INC.
Name
P.O. Box 1773, Brewster, MA 02631

Mailing Address

508-896-6601
joreilly@jmoreillyassoc.com

Type of Application (Check as applicable):

* Special Permit
(Zoning Bylaw Section 179-51 or list other or different Zoning Bylaw Sections, as applicable, below)
Site Plan Review (Zoning Bylaw Section 1.79-63)
Decision Modification (Provide relevant case number/s below)
Decision Extension (Provide relevant case number/s below)
........ Other (List Zoning Bylaw Section/s below)

Brief Project Description:__The project proposes one commercial building with apartment along with
the associated parking and landscape. The proposed use on the parcel will be commercial contractor
bay (a total of 5 bays proposed). The parking area will be shared with 162 Underpass (Sea Turtle LIC)

Signatures


Porperty Owner (II diliferent than Applicant)
Date


If the Applicant is not the Owner, the Application materials shall include the Owner's written consent or authorization to make application, or evidence that the Applicont's interest in the property is sufficient to make application (e.g. lease, P\&S Agrecment, etc.).

The burden is on the applican to provide accurate, sufficient and complete information in the application. Attached is a checklist of materials and information required to be submitted for a complete application. incompleteness could be cause for delays in review or denial of an application.

By making applicalion, the Owner and Applicant hereby authorize the Planning Board and its agents to conduct site visits, at reasonable times, to assist in review of the application.

Please refer to current flanning Board schedule for application filing deadines and associated meeting dates. The Board will make best efforts to work within this filing schedule but is not obligated to do so; the Board's review limelines are established under the Brewster Code and Massachusetts General Laws. In Its discretion, the Board may agenda matters, which do not require public hearings, for the next available meeting even if received after the. respective filing deadline.

```
Submit to: Brewster Planning Department
    Town Offices-2198 Main Street
    Brewster, Massachusetts 02631-1898
    (508) 896-3701 x 1133
    brewplan@brewster-ma.gov
```


## QUITCLAIM DEED

Both, 162 UNDERPASS LLC, a Massachusetts Limited Liability Company with a mailing address of 76 Aunt Sophies Road, Brewster, MA 02631 and THE FREE SEA TURTLE LLC, a Massachusetts Limited Liability Company with a mailing address of 21 Crosby Lane, Brewster, MA 02631,
for consideration paid in the amount ONE and 00/100 (\$1.00) DOLLAR,
grant to 162 UNDERPASS LLC, a Massachusetts Limited Liability Company with a mailing address of 76 Aunt Sophies Road, Brewster, MA 02631,

WITH QUITCLAIM COVENANTS, the land, with buildings thereon, situated in Brewster, Barnstable County, Massachusetts, described as follows:

## LOT 2 <br> PLAN BOOK 698, PAGE 25

Containing an area of 40,675 square feet of land, more or less, and being shown as Lot 2 on Plan entitled, "Plan of Land in Brewster Massachusetts at 162 Underpass Road" as surveyed and prepared for The Free Sea Turtle, LLC and 162 Underpass, LLC Scale $1 \mathrm{in} .=30 \mathrm{ft}$. October 19, 2022, J.M. O'Reilly \& Associates, Inc., 1573 Main Street, P.O. Box 1773, Brewster, Massachusetts 02631 ", recorded with Barnstable County Registry of Deeds in Plan Book 698, Page 25.

The above-described premises are conveyed subject to and together with the benefit of any rights, rights of way, reservations, restrictions, easements and other matters of record, insofar as the same are in force and applicable.

For title, see Deeds recorded with Barnstable County Registry of Deeds in Book 35100, Page 13.
Grantors release any and all homestead rights to the within premises, whether created by declaration or operation of law, and further states under the pains and penalties of perjury that the herein described premises were not the primary residence of the grantors or their spouses and that there are no other individuals entitled to homestead rights to the property being conveyed herein.

Executed as a sealed instrument under the pains and penalties of perjury this $2^{\text {nd }}$ day of December, 2022.

## 162 UNDERPASS LLD



Charles Whitcomb, II, Manager

## COMMONWEALTH OF MASSACHUSETTS

Barnstable, ss
December 2, 2022
(County)
On the above date, before me, the undersigned notary public, personally appeared Charles Whitcomb, III, Manager of 162 Underpass LLC who proved to me through satisfactory evidence of identification, which was a photographic identification with signature issued by a federal or state governmental agency, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose and who swore or affirmed to me that the contents of the attached document are truthful and accurate to the best of his knowledge and belief.


Executed as a sealed instrument under the pains and penalties of perjury this $2^{\text {nd }}$ day of December, 2022.


## COMMONWEALTH OF MASSACHUSETTS

Barnstable, ss
December 2,2022 (County)

On the above date, before me, the undersigned notary public, personally appeared Charles Whitcomb, III, Manager of $\mathbf{1 6 2}$ Underpass LLC who proved to me through satisfactory evidence of identification, which was a photographic identification with signature issued by a federal or state governmental agency, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose and who swore or affirmed to me that the contents of the attached document are truthful and accurate to the best of his knowledge and belief.


## The Commonwealth of Massachusetts Secretary of the Commonwealth

 State Rouse, Boston, Massachusetts 0273:TO WHOM IT MAY CONCERN:
I hereby certify that a certificate of organization of a Limited Liability Company was filed in this office by

## 162 UNDERPASS LC

in accordance with the provisions of Massachusetts General Laws Chapter 156C on May 5, 2022.

I further certify that said Limited Liability Company has filed all annual reports due and paid all fees with respect to such reports; that said Limited Liability Company has not filed a certificate of cancellation; that there are no proceedings presently pending under the Massachusetts General Laws Chapter 156C, § 70 for said Limited Liability Company's dissolution; and that said Limited Liability Company is in good standing with this office.

I also certify that the names of all managers listed in the most recent filing are: CHARLES WHITCOMB III

I further certify, the names of all persons authorized to execute documents filed with this office and listed in the most recent filing are: CHARLES WHITCOMB III

The names of all persons authorized to act with respect to real property listed in the most recent filing are: CHARLES WHITCOMB III


In testimony of which, I have hereunto affixed the Great Seal of the Commonwealth on the date first above written.


Secretary of the Commonwealth

The Gommonwealth of Massachusetts Secretary of the Commonwealth State Mouse, Boston, Massachusetts, $02188^{\circ}$

William Francis Galvin Secretary of the Commonwealth

December 5, 2022
TO WHOM IT MAY CONCERN:
I hereby certify that a certificate of organization of a Limited Liability Company was filed in this office by

## THE FREE SEA TURTLE LC

in accordance with the provisions of Massachusetts General Laws Chapter 156C on April 20, 2022.

I further certify that said Limited Liability Company has filed all annual reports due and paid all fees with respect to such reports; that said Limited Liability Company has not filed a certificate of cancellation; that there are no proceedings presently pending under the Massachusetts General Laws Chapter 156C, § 70 for said Limited Liability Company's dissolution; and that said Limited Liability Company is in good standing with this office.

I also certify that the names of all managers listed in the most recent filing are: PAUL WALLACE

I further certify, the names of all persons authorized to execute documents filed with this office and listed in the most recent filing are: PAUL WALLACE

The names of all persons authorized to act with respect to real property listed in the most recent filing are: PAUL WALLACE


In testimony of which,
I have hereunto affixed the
Great Seal of the Commonwealth
on the date first above written.
Ivelienntraming Pain
Secretary of the Commonwealth





| PLANT SCHEDULE MITIGATION |  |  |  |
| :---: | :---: | :---: | :---: |
| OTY | botanical name | Common Name | SI2E |
| NATVE TREES |  |  |  |
| 3 | Juniperus virginiana | Eastern Red Cedar | 4-5 |
| 1 | Nyssa sylvaica | Tupelo | 15 gal |
| native Shrubs |  |  |  |
| 9 | Clethra alififolia | Summersweet Clethra | 3 gal |
| 10 | Rosa virginiana | Virginia Rose | 2 gal |
| 10 | Vaccinium corymbosum | Highbush Blueberry | 3 gal |
| 5 | Viburnum dentatum | Arrowwood | 3 gal |

## DRAFT MEETING MINUTES DATED MARCH 27, 2024

Brewster Planning Board<br>2198 Main Street<br>Brewster, MA 02631-1898<br>(508) 896-3701 x1133<br>brewplan@brewster-ma.gov MEETING MINUTES<br>Wednesday, March 27, 2024 at 6:30 pm<br>Brewster Town Office Building

Chair Amanda Bebrin convened a meeting of the Planning Board at $6: 31 \mathrm{pm}$ with the following members participating: Charlotte Degen, Tony Freitas, Rob Michaels, Elizabeth Taylor, and Alex Wentworth. Madalyn Hillis-Dineen was not present. Also participating: Jon Idman, Town Planner, and Lynn St. Cyr, Senior Department Assistant. Bebrin declared that a quorum of the Planning Board was present. The Meeting Participation Statement and Recording Statement were read.

## 6:32 PM PUBLIC ANNOUNCEMENTS AND COMMENT

None.

## 6:33 PM PUBLIC HEARING

Special Permit and Site Plan Review Case No. 2024-04: Applicant/Owner: The Free Sea Turtle, LLC, Paul Wallace, Manager, has applied for Site Plan Review under Brewster Zoning Bylaw Article XII for a new commercial development on an undeveloped lot, and a Special Permit under Brewster Zoning Bylaw Section 179-51 for uses including building and construction trade shop or garage and a full-service restaurant, at 162 Underpass Road (Tax Map 77 Parcel 9) located within the Commercial High Density (CH) Zoning District.

## Documents:

- 03/21/24 Request to Continue

Motion by Degen to Open Public Hearing on Special Permit and Site Plan Review Case No. 2024-04. Second by Michaels. Vote: 6-0-0. Idman stated that an application has been filed but the Applicant has asked to revise the application and is requesting a continuance so he may submit a revised application. Motion by Michaels to Continue Special Permit and Site Plan Review Case No. 2024-04 to April 10, 2024. Second by Degen. Vote 6-0-0.

## 6:36 PM PUBLIC HEARING

Special Permit and Site Plan Review Case No. 2024-05: Applicant/Owner: 162 Underpass LLC, Charles Whitcomb III, Manager, has applied for Site Plan Review under Brewster Zoning Bylaw Article XII for a new commercial development on an undeveloped lot, and a Special Permit under Brewster Zoning Bylaw Section 179-51 for uses including building and construction trade shop or garage and (1) accessory commercial dwelling unit, at Underpass Road (Tax Map 77 Parcel 10 and 60) located within the Commercial High Density (CH) Zoning District.
Documents:

- 03/21/24 Request to Continue

Motion by Degen to Open Public Hearing on Special Permit and Site Plan Review Case No. 2024-05. Second by Wentworth. Vote: 6-0-0. The Planning Board discussed the format for the public hearing as Case Nos. 2024-04 and 2024-05 share infrastructure, access, landscaping, and parking. Idman explained that the applications and public hearings are separate and each application should be considered on its own merits. Idman further stated that since the applications share infrastructure and other elements and because the Applicants are using the same engineer, there may be discussion on both applications at the same time. Motion by Michaels to Continue Special Permit and Site Plan Review Case No. 2024-05 to April 10, 2024. Second by Wentworth. Vote 6-0-0.

## 6:40 PM APPROVAL OF MEETING MINUTES

Approval of Meeting Minutes: March 13, 2024.
The Board reviewed the March 13, 2024 meeting minutes. Motion by Degen to Approve March 13, 2024 Meeting Minutes. Second by Wentworth. Vote: 6-0-0.

## 6:41 PM COMMITTEE REPORTS

Freitas summarized a recent joint meeting of the Affordable Housing Trust and Housing Partnership including an update on the sale of the Yankee Drive property. There was also discussion on future housing opportunities and options. Freitas also mentioned the upcoming book program through the Brewster Ladies Library which will have a segment on housing. He suggested Planning Board members read "Arbitrary Lines" which is a book on the recommended reading list. Bebrin mentioned an upcoming Housing 101 session that would be offered through the Housing Office.

Degen summarized the March $11^{\text {th }}$ Select Board Meeting including approval of a liquor license for a mini golf venue which may be the only mini golf venue with a liquor license in the area; upcoming tours of the Bay and Pond properties; the Brewster Ladies Library community reading program; a salary scale for part time and seasonal employees; Community Preservation Act funds up for vote at Spring Town Meeting; the Senior and Veteran Tax Work Off Program; an Interim Access Policy for the Brewster Pond property; and appointment of alternate committee members.

Taylor stated that the Community Preservation Committee met to discuss warrant articles for the Spring Town Meeting and their project list.

Bebrin mentioned the upcoming tours planned for the Sea Camps properties and noted that registration is required for the Pond Property due to limited parking on site. There will be shuttles available from Captains Golf Course for those interested in attending the tours on April $6^{\text {th }}$ and April $10^{\text {th }}$. The Bay Property will be open for tours on April $17^{\text {th }}$ and April $27^{\text {th }}$. There will be two separate warrant articles at Spring Town Meeting one related to the Pond Property and one related to the Bay Property.

## 6:53 PM FOR YOUR INFORMATION

The Planning Board received mail regarding a proposed seasonal dock at 104 Canoe Pond Drive. Idman noted that under Chapter 91, the Planning Board is required to receive notice of the license application. A public hearing notice from the Harwich Planning Board for April 9, 2024 was also received.

6:53 PM MATTERS NOT REASONABLY ANTICIPATED BY THE CHAIR
None.
Motion by Wentworth to Adjourn. Second by Degen. Vote: 6-0-0. The meeting adjourned at 6:54 PM.
Next Planning Board Meeting Date: April 10, 2024.

Respectfully submitted,

[^5]FOR YOUR INFORMATION

## HARWICH PLANNING BOARD PUBLIC HEARING NOTICE

The Harwich Planning Board will hold public hearings beginning no earlier than 6:30 PM, Tuesday, April 23, 2024, in the Donn B. Griffin Room, Town Hall, 732 Main Street, Harwich, MA 02645 to consider the following matters. Any member of the public looking to provide testimony on any of these matters should plan on attending. Written comments may also be submitted to the Board prior to the hearing by mailing them to the Planning Department, Town Hall, 732 Main Street, Harwich, MA 02645 or by emailing them to the Planning Assistant, Shelagh Delaney at shelagh.delaney@harwich-ma.gov

## Case \# PB2024-11 Rowoliver Nominee Trust, David Crosbie \& Steven Farnsworth,

 Trustees, through their agent, Attorney Benjamin E. Zehnder seek a Site Plan Review Special Permit for a mixed use, multi-family and to develop a portion of the property as a self-storage unit pursuant to the Harwich Zoning Bylaw Sections 325-55. The property is located at 481 Depot Street, Map 36, Parcel B1 in the IL and RR Zoning Districts.Documents and plans related to these applications may be viewed on the Planning Board's home page: www.harwich-ma.gov/planning-board and are on file with the Town Clerk and may be viewed at the Planning Department, Town Hall, 732 Main Street, Harwich, MA 02645 during regular Town Hall hours. For additional information contact the Planning Assistant, Shelagh Delaney at sdelaney@harwich-ma.gov

Duncan Berry, Chair

Cape Cod Chronicle Print Dates: April 4 and April 11, 2024

## RECEIVED

MAF 282024


[^0]:    COMMERCIAL OUTDOOR

[^1]:    1 "Equivalent property damage only" is a method of combining the number of crashes with the severity of the crashes based on a weighted scale. Crashes involving property damage only are reported at a minimal level of importance, while collisions involving personal injury (or fatalities) are weighted more heavily.
    2 Trip Generation, 11th Edition, Institute of Transportation Engineers, Washington D.C., 2021.

[^2]:    4 A Policy on the Geometric Design of Highways and Streets, American Association of State Highway and Transportation Officials, 2011.

[^3]:    Comments may be e-mailed to Lynn St. Cyr, Istcyr@brewster-ma.gov and provided at the Staff Review

[^4]:    ${ }^{1}$ BUILDING AND CONSTRUCTION TRADES SHOP OR GARAGE: A single structure or up to four separate structures, the combined square footage of which shall not exceed 6,000 square feet, housing up to four building-trade-related businesses, such as construction, electrical, heating or plumbing contracting, but not including excavation or septic installer. All business activities shall be confined to within the structure(s). (Emphasis added.)
    ${ }^{2}$ "Open storage of construction equipment and structures for storing such equipment" are allowed in the Industrial District but not the CH district. (Emphasis added.) "Storage of materials for a business, including but not limited to pipes, mulch, small or heavy equipment" is allowed both in the Industrial and CH Districts.

[^5]:    Lynn St. Cyr, Senior Department Assistant, Planning

