

Burlington Design Advisory Board

645 Pine Street
Burlington, VT 05401
www.burlingtonvt.gov/DPI/DAB
Phone: (802) 865-7188

Matthew Bushey
Ron Wanamaker
Eric Morrow
Karyn Norwood
Emily Morse
Jay White, Alt.
Kathleen Ryan, Alt.



DESIGN ADVISORY BOARD Tuesday February 9, 2021 3:00 PM REMOTE MEETING

Zoom: <https://us02web.zoom.us/j/85097224930?pwd=UXV6bXZURmNWdFVXMW9LamNvTXpPQT09>

Webinar ID: 850 9722 4930

Passcode: 923553

Or Telephone: +1 929 205 6099 or +1 301 715 8592 or +1 312 626 6799 or +1 669 900 6833 or
+1 253 215 8782 or +1 346 248 7799

Agenda

Session I – 3:00 PM – 3:30 PM

1. **21-0641CA; 2-14 King Street (DW-PT, Ward 3C) Lake Champlain Transportation Company**

Renovation to existing building to demo bathrooms to increase outdoor bar within existing footprint and add interior partitions to create new office and storage room. Construct new bathroom building with stairs and access ramp.

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Department of Permitting and Inspections

Zoning Division
645 Pine Street
Burlington, VT 05401
www.burlingtonvt.gov/pz
Phone: (802) 865-7188
Fax: (802) 865-7195

*William Ward, Director
Scott Gustin, AICP, CFM, Principal Planner
Mary O'Neil, AICP, Principal Planner
Ryan Morrison, Associate Planner
Layne Darfler, Planning Technician
Alison Davis, Zoning Clerk
Theodore Miles, Zoning Specialist
Charlene Orton, DPI Administrator*



MEMORANDUM

To: The Design Advisory Board
From: Ryan Morrison, Associate Planner
RE: ZP21-0641CA; 2-14 King Street
Date: February 9, 2021

File: ZP21-0641CA

Location: 2-14 King Street

Zone: DW-PT **Ward:** 3C/5S

Parking District: Multi Modal Mixed-Use

Date application accepted: January 25, 2021

Applicant/ Owner: Spot on the Dock / Lake Champlain Transportation Co.

Request: Renovation to existing building to demo bathrooms to increase outdoor bar area within the existing footprint and add interior partitions to create new office and storage room. Construct new bathroom building with stairs and access ramp.

Background Information:

The applicant proposes to renovate the existing Spot on the Dock restaurant building to demolish bathrooms to increase the outdoor bar area within the existing footprint and add interior partitions to create new office and storage rooms. A detached bathroom building with exterior stairs and access ramp will be constructed in front of the restaurant building.

The property sits within the Special Flood Hazard Area. This location triggers review under the SFHA criteria of Sec. 4.5.4. The project plans have been provided to the state floodplain coordinator for review and comment. The finished floor of the new restroom building is proposed to be 2 feet above the 102' base flood elevation.

Previous zoning actions for this property:

- 10/6/20, Approval for a new building and deck to replace prior structure
- 5/19/20, Approval for the construction of a shed to house a commercial ice machine.
- 8/6/19, Approval for site modifications to accommodate vehicular and pedestrian flow for the ferry basin.
- 12/4/18, Approval to relocate 2 loading ramps.
- 11/7/18, Approval for after the fact paving of gravel areas
- 10/5/17, Approval for replacement fuel tank and islands for dispensers
- 5/23/17, Approval for renovations to restaurant
- 3/7/16, Approval for replacement ticket booth
- 4/27/12, Approval for Lake Monsters Team Headquarters sign
- 6/10/11, Non-app issued for post-flood damage repairs

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- 11/30/09, Approval for trussed gable roof
- 2/19/08, Approval for conversion of retail to office space
- 2/17/05, Approval for roof renovations
- 4/13/04, Approval to install ticket window
- 5/27/03, Approval for sur pac and parking lot lighting installation
- 2/21/03, Approval to replace existing restaurant building with larger restaurant building (not acted upon)
- 2/22/01, Approval for Maritime Museum sign
- 2/22/01, Approval to change use to museum
- 8/18/00, Approval to install an interpretative marker
- 5/1/00, Approval to change portion of retail space to creemee stand
- 6/3/99, Approval to amend prior approval for 5 finger docks with marine gas float
- 2/18/99, Approval to install 5 finger docks
- 10/10/95, Approval to install vertical metal siding on maintenance shed
- 10/29/93, Approval for construction of a 20' X 20' storage structure
- 4/9/92, Approval to construct HC accessible bathroom with ramp
- 5/9/91, Approval to construct new structure containing freezer and refrigeration units

Part 1: Land Division Design Standards

No land division is proposed. Not applicable.

Part 2: Site Plan Design Standards

Sec. 6.2.2 Review Standards

(a) Protection of Important Natural Features:

The site contains no significant natural areas as identified in the Open Space Protection Plan. While the site is along the Lake Champlain waterfront, it (and the rest of the downtown waterfront) is not included in the Riparian and Littoral Conservation Zone.

(b) Topographical Alterations:

The finished elevation of the new restroom structure will be at 104' above sea level – above the 102' base flood elevation. That said, the site is basically flat and will remain so.

(c) Protection of Important Public Views:

There are significant public views from the project site across the lake and towards the Adirondacks. The replacement of the restroom building in front of the existing restaurant will not adversely impact these views.

(d) Protection of Important Cultural Resources:

The project site is located on fill soils. The site has no archaeological significance.

(e) Supporting the Use of Renewable Energy Resources:

No part of the application will preclude the use of wind, water, solar, geothermal or other renewable energy resource.

(f) Brownfield Sites:

The site is included on the Vermont DEC Hazardous Site List. Gasoline associated with an underground storage tank was the source of contamination. It appears that remediation activities have been completed.

(g) Provide for nature's events:

Special attention shall be accorded to stormwater runoff so that neighboring properties and/or the public stormwater drainage system are not adversely affected. All development and site disturbance shall follow applicable city and state erosion and stormwater management guidelines in accordance with the requirements of Art 5, Sec 5.5.3.

While the new restroom building will be placed on existing hard surface, the applicant will be required to submit an Erosion Prevention and Sediment Control plan and a stormwater plan to the Stormwater Program Manager for review and approval.

Design features which address the effects of rain, snow, and ice at building entrances, and to provisions for snow and ice removal or storage from circulation areas shall also be incorporated.

The expanded, open-air outdoor bar area will be sheltered from inclement weather. The restroom building will have a covered entrance as well. The site provides various snow storage areas that will not impede pedestrian or vehicular circulation.

(h) Building Location and Orientation:

The large property (257,332 sf in area) is developed with various buildings and the Lake Champlain Ferry docks. The proposed restroom building is set back a considerable distance from the nearest public street, so it will not negatively affect the streetscape. Placed in front of the primary restaurant structure, and just to the side of the restaurant's front door, it should not detract from an identifiable pedestrian entrance, even considering one has to be well into the property to see this entrance.

(i) Vehicular Access:

No change to existing vehicular access is proposed. With the exception of ferry traffic, public vehicular circulation within the property is setback significantly from the new development.

(j) Pedestrian Access:

No changes to existing pedestrian access to the restaurant are proposed. A new walkway on the east side of the restroom building, between the existing front walkway to the restaurant and the existing walkway along the south side of the restaurant building, will be constructed. The new restroom building will have stair and ramp access.

(k) Accessibility for the Handicapped:

The building inspector has jurisdiction over ADA requirements. The plans include a handicap ramp to access the new restroom building.

(l) Parking and Circulation:

No changes to the existing parking and circulation are proposed, nor needed.

(m) Landscaping and Fences

The proposal includes planting three shrubs in the existing yard space in front of the new restroom building (east). A new stockade fence will be constructed along a portion of the new path in front of the restroom building, to prevent pedestrians from accessing a small area between buildings.

(n) Public Plazas and Open Space:

The site already offers open space in the form of lakefront walkways and green space. No changes are proposed.

(o) Outdoor Lighting:

Where exterior lighting is proposed the applicant shall meet the lighting performance standards as per Sec 5.5.2.

The elevation plans show two wall-mounted light fixtures on the north wall of the new restroom building that will provide illumination for pedestrian access. Recessed light fixtures will be installed into the ceiling for the outdoor bar area.

(p) Integrate infrastructure into the design:

Exterior storage areas, machinery and equipment installations, service and loading areas, utility meters and structures, mailboxes, and similar accessory structures shall utilize setbacks, plantings, enclosures and other mitigation or screening methods to minimize their auditory and visual impact on the public street and neighboring properties to the extent practicable.

Utility and service enclosures and screening shall be coordinated with the design of the principal building, and should be grouped in a service court away from public view. On-site utilities shall be placed underground whenever practicable. Trash and recycling bins and dumpsters shall be located, within preferably, or behind buildings, enclosed on all four (4) sides to prevent blowing trash, and screened from public view.

Any development involving the installation of machinery or equipment which emits heat, vapor, fumes, vibration, or noise shall minimize, insofar as practicable, any adverse impact on neighboring properties and the environment pursuant to the requirements of Article 5, Part 4 Performance Standards.

The plans indicate electrical service at the rear of the new restroom building, out of view from pedestrian walkways. No other new utilities or above ground infrastructure is proposed. If so, the plans will need to be revised to show locations and specs.

Part 3: Architectural Design Standards

Sec. 6.3.2 Review Standards

(a) Relate development to its environment:

1. Massing, Height and Scale:

While the new restroom building will be located foremost as part of the restaurant use, the applicant has made an effort to ease any monotony that may be created. The elevation plans

show the new restroom building at a height taller than the existing restaurant building. However, the front façade (east), will be broken up with two different siding types, a new sign for Spot on the Dock, and windows, all in an effort to provide relief from what could be a monotonous façade. Given that this development is located deep within a highly developed property, impacts to nearby public streets and other development will be negligible.

2. Roofs and Rooflines.

The roofline over the existing restaurant bathrooms will remain unchanged after that area is converted to additional outdoor bar area. The new restroom structure will have two inward sloped roofs – one over the men’s restroom and one over the women’s restrooms. Given existing development on the property, this roof type will not create an anomaly.

3. Building Openings

The new restroom structure will have three windows on both ends (west and east façades), and a covered pedestrian entrance on the north side. Since this is a restroom, having many openings is undesirable. However, in an effort to create a more attractive front wall (east façade), the applicant proposes the windows, a new sign, and two different types of siding. Aside from the three windows on both ends and the pedestrian access, no other openings are proposed.

(b) Protection of Important Architectural Resources:

See Sec. 6.2.2 (d) above.

(c) Protection of Important Public Views:

See Sec. 6.2.2 (c) above.

(d) Provide an active and inviting street edge:

Building facades shall be varied along the street edge by the integration of architectural features, building materials, or physical step-backs of the façade along its length. ..This may be accomplished by incorporating fenestration patterns, bays, horizontal and vertical façade articulations, the rhythm of openings and prominent architectural features such as porches, patios, bays, articulated bases, stepping back an elevation relative to surrounding structures, and other street level details. The use of traditional façade components such as parapet caps, cornices, storefronts, awnings, canopies, transoms, kick plates, and recessed entries are highly encouraged. In areas where high volumes of pedestrian traffic are desired, the use of architectural recesses and articulations at the street level are particularly important in order to facilitate the flow of pedestrian traffic.

The proposed building is set relatively far back from the street, deep into the lot. It has no street edge. The restroom building does provide a city-facing eastern façade which, as noted above, provides various aspects that present a more attractive front.

(e) Quality of materials:

All development shall maximize the use of highly durable building materials that extend the life cycle of the building, and reduce maintenance, waste, and environmental impacts. Such materials are particularly important in certain highly trafficked locations such as along major

streets, sidewalks, loading areas, and driveways. Efforts to incorporate the use of recycled content materials and building materials and products that are extracted and/or manufactured within the region are highly encouraged.

The proposal calls for wood clapboard siding on the majority of the restroom building, with vertical corrugated metal siding on the higher portions. The access ramp will be concrete. Specifics on the windows have not been provided, however, since this is a new construction, any commercial grade windows will more than likely be acceptable.

(f) Reduce energy utilization:

All new construction is required to meet the Guidelines for Energy Conservation, Section 8 of the City of Burlington Code of Ordinances.

(g) Make advertising features complementary to the site:

Any signs will require separate permitting.

(h) Integrate infrastructure into the building design:

See Section 6.2.2 (p), above.

(i) Make spaces secure and safe:

Spaces shall be designed to facilitate building evacuation, accessibility by fire, police or other emergency personnel and equipment, and, to the extent feasible, provide for adequate and secure visibility for persons using and observing such spaces. Building entrances/entry points shall be visible and adequately lit.

The restroom entrance is clearly visible and will be illuminated. The new construction shall conform to all building and life safety code as defined by the building inspector and the fire marshal.

Recommended Motion:

Determine if the new restroom building is acceptable to the requirements of Article 6, and if so, recommend approval and forward to the Development Review Board as presented.



01/22/21

Dear Mr. Scott Gustin,
Permitting and Inspections
City of Burlington

Re: Spot on the Dock – Burlington, VT
COA Level II Application

Spot on the Dock is pleased to submit an application for renovations to the existing waterfront restaurant in addition to a new construction of a bathroom building to the east of the existing building. The renovations to the existing building include demolishing the existing bathrooms to create additional outdoor bar space. The new bar area is placed below the existing roof therefore within the existing footprint of the building. In addition to the expanded outdoor bar, minimal interior partitions are proposed to create an office and lockable storage.

With the removal of existing bathrooms, a new approx. 545 sf bathroom building is proposed. Any new construction in this flood zone requires the finish floor level to be at an elevation of 104'-0" min. above sea level therefore stairs and an access ramp are proposed to make up the difference from existing grade at approx. 100'-6" to new finished floor elevation. The change in elevation puts the new building roofline above the existing low profile building creating an architectural opportunity to reinforce the height and improve visibility of the restaurant from King Street.

The proposed changes to the property are intended to aid in improved access and clarity to how the restaurant currently functions. Restaurant visitors are directed to enter the restaurant from the southwest due to the extensive outdoor dining/bar area located on the west. The eastern entrance is intended for staff and deliveries therefore the new building will help screen the east entrance doors, discouraging this as a public entry point.

There are no proposed changes to parking. Site improvements include a new asphalt walk to the bathroom building with minimal grading changes and utility changes to support the proposed construction.

The proposed construction cost for the renovations to the existing building (not including new bathroom building) is \$50,000 and the current assessed value of the existing restaurant building is \$250,000. There is no record of cost for previous work done to the building but the Property Owner is confident the cumulative value of renovations to the building is below the 50% threshold therefore not requiring flood mitigation improvements to the existing building. A majority of the improvements have been made to the exterior dining/bar space and not to the building itself.

We look forward to moving this project forward to enhance a popular outdoor dining space on Burlington's water front. Please let us know if there are any comments/questions through the review of the application.



Sincerely,

A handwritten signature in black ink, appearing to read "KDm RL".

Kelley DesRoches
Project Manager/Designer
Wiemann Lamphere Architects



Department of Permitting and Inspections

645 Pine Street
Burlington, VT 05401-8415
Phone: (802) 865-7188

www.burlingtonvt.gov/dpi

Zoning Permit Application

Use this form for ALL zoning permit applications. See the relevant checklist for specific requirements.

PROJECT LOCATION ADDRESS: 1 King St. Burlington, VT 05401

PROPERTY

OWNER*: Lake Champlain Transportation Co.

*If condominium unit, written approval from the Association is also required

APPLICANT: Spot on the Dock

POSTAL ADDRESS: 1 King St

CITY, ST, ZIP: Burlington, VT 05401

DAY PHONE: 802-864-9804

EMAIL: DaleA@ferries.com

SIGNATURE:

POSTAL ADDRESS: 210 Shelburne Rd

CITY, ST, ZIP: Burlington, VT 05401

DAY PHONE: 802-355-8553

EMAIL: shannon@thespotvt.com

SIGNATURE:

Property owner signature authorizes the applicant (if noted) to act on owner's behalf for all matters pertaining to this zoning permit application. Signature also consents to the proposed work and to inspection by city zoning staff to close out the zoning permit upon project completion.

Description of Proposed Project: Renovation to existing building to demo bathrooms to increase outdoor bar within existing footprint and add interior partitions to create a new office and storage room. Construct new bathroom building with stairs & access ramp.

Existing Use of Property: ☐ Single Family ☐ Multi Family: # Units ☒ Other: Restaurant

Proposed Use of Property: ☐ Single Family ☐ Multi Family: # Units ☒ Other: No change

- **Does your project involve new construction, addition, alteration, renovation, or repair to a structure that is heated or cooled?** Yes ☐ No ☒

(If yes, the Vermont Residential/Commercial Building Energy Standards (VRBES/VCBES) apply. Please visit the following links for more information: http://publicservice.vermont.gov/energy_efficiency/rbes or http://publicservice.vermont.gov/energy_efficiency/cbes)

- **Will 400 sq ft or more of land be disturbed, exposed and/or developed?** Yes ☒ No ☐

(If yes, you will need to submit the 'Erosion Prevention and Sediment Control Plan' questionnaire, with a site plan)

- **For Single Family & Duplex, will total impervious area be 2500 sq ft or more?** Yes ☐ No ☐

(If yes, you will need to submit the 'Stormwater Management Plan' questionnaire, with a site plan)

- **Are you proposing any work within, below, or above the public right of way?** Yes ☐ No ☒

(If yes, you will need to receive prior approval from the Department of Public Works)

- **Are you proposing any onsite food or beverage production/manufacturing?** Yes ☒ No ☐

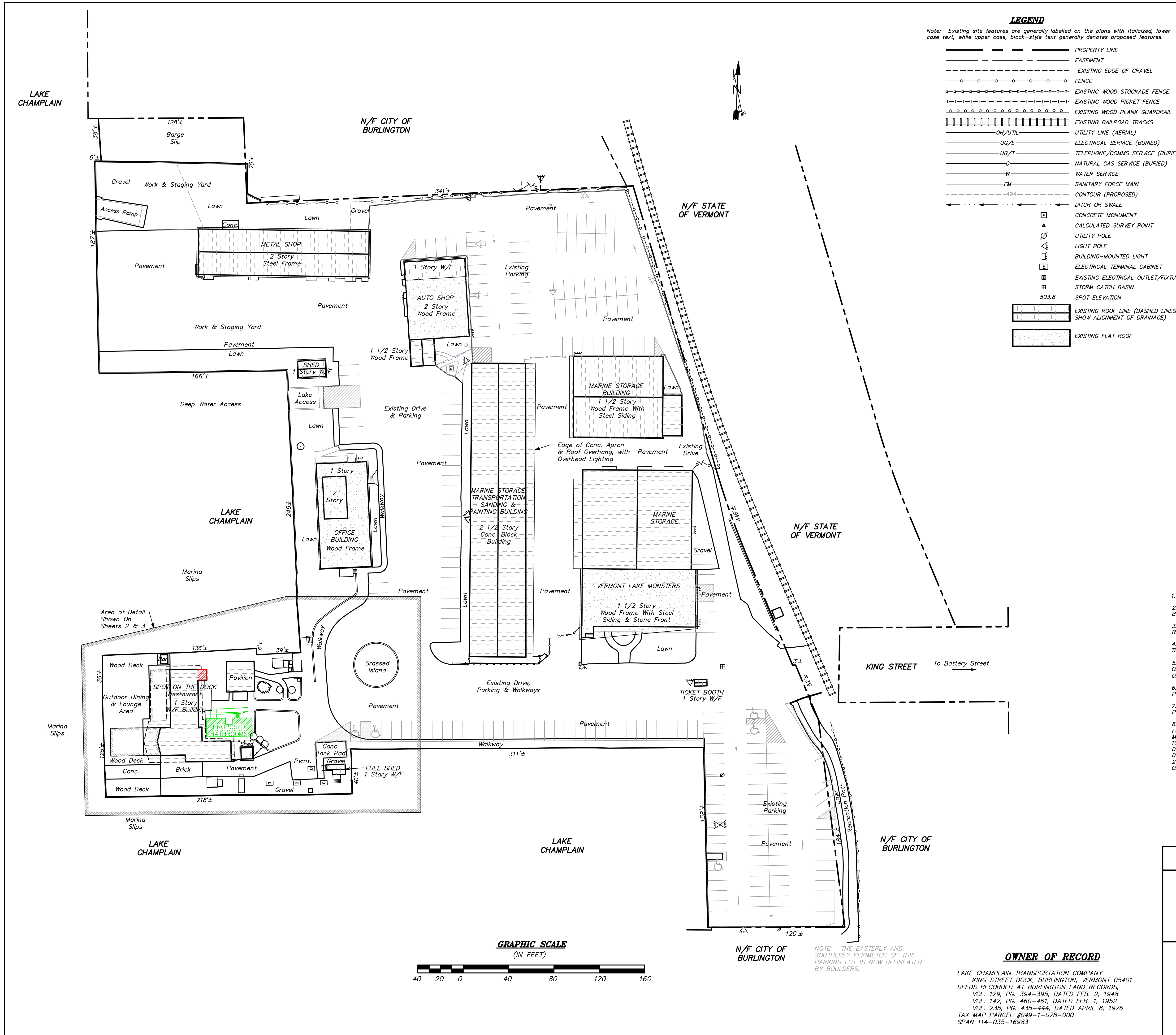
(If yes, you will need to consult with Water Resources Division at the Department of Public Works: 863-4501)

Estimated Construction Cost (value)*: \$ 250,000

(*Estimated cost a typical contractor would charge for all materials and labor, regardless of who physically completes the work)

Within 30 days of submission, the permit application will be reviewed for completeness, and, if complete, will be processed administratively or referred to a board for review. All permit approvals or denials are subject to an appeal period (15 days for administrative permit; 30 days for board permit). A building (and/or electrical, mechanical, plumbing, curb cut) permit will also be required. Contact the Department of Public Works at 802-863-9094 to inquire. Please ask for assistance if you have any questions about filling out this form. Call the Zoning Division at 802-865-7188, or visit the office at 645 Pine Street.

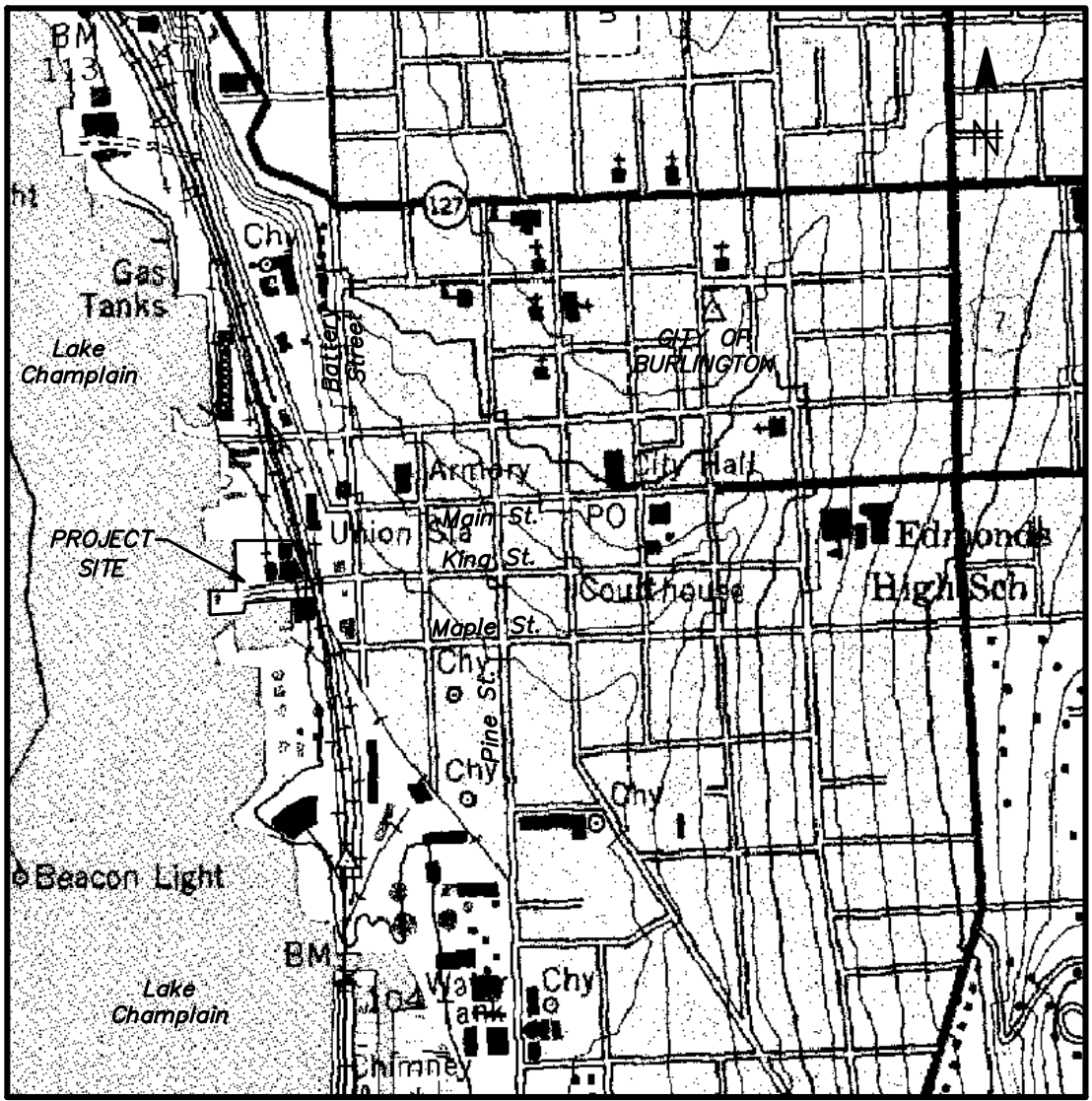
Office Use Only: Zone: Eligible for Design Review? Age of House Lot Size
Type: SN AW FC BA COA 1 COA 2 COA 3 CU MA VR HO SP DT MP
Check No. Amount Paid Zoning Permit #



LEGEND

Note: Existing site features are generally labelled on the plans with italicized, lower case text, while upper case, block-style text generally denotes proposed features.

---	PROPERTY LINE
---	EASEMENT
---	EXISTING EDGE OF GRAVEL
---	FENCE
---	EXISTING WOOD STOCKADE FENCE
---	EXISTING WOOD PICKET FENCE
---	EXISTING WOOD PLANK GUARDRAIL
---	EXISTING RAILROAD TRACKS
---	UTILITY LINE (AERIAL)
---	ELECTRICAL SERVICE (BURIED)
---	TELEPHONE/COMMS SERVICE (BURIED)
---	NATURAL GAS SERVICE (BURIED)
---	WATER SERVICE
---	SANITARY FORCE MAIN
---	CONTOUR (PROPOSED)
---	DITCH OR SWALE
---	CONCRETE MONUMENT
---	CALCULATED SURVEY POINT
---	UTILITY POLE
---	LIGHT POLE
---	BUILDING-MOUNTED LIGHT
---	ELECTRICAL TERMINAL CABINET
---	EXISTING ELECTRICAL OUTLET/FIXTURE
---	STORM CATCH BASIN
---	SPOT ELEVATION
---	503.8
---	EXISTING ROOF LINE (DASHED LINES SHOW ALIGNMENT OF DRAINAGE)
---	EXISTING FLAT ROOF



LOCATION MAP
N.T.S.

LOT COVERAGES

EXISTING

Buildings	= 58,976 sf
Pavement/Concrete/Wood Surfaces	= 155,699 sf
Gravel Surfaces	= 16,929 sf
Total Lot Coverage	= 231,604 sf (90.0%)
Green Area	= 25,718 sf (10.0%)
TOTAL AREA	= 257,322 sf (100.0%)

PROPOSED

Buildings	= 59,837 sf
Pavement/Concrete/Wood Surfaces	= 155,658 sf
Gravel Surfaces	= 16,109 sf
Total Lot Coverage	= 231,604 sf (90.0%)
Green Area	= 25,718 sf (10.0%)
TOTAL AREA	= 257,322 sf (100.0%)

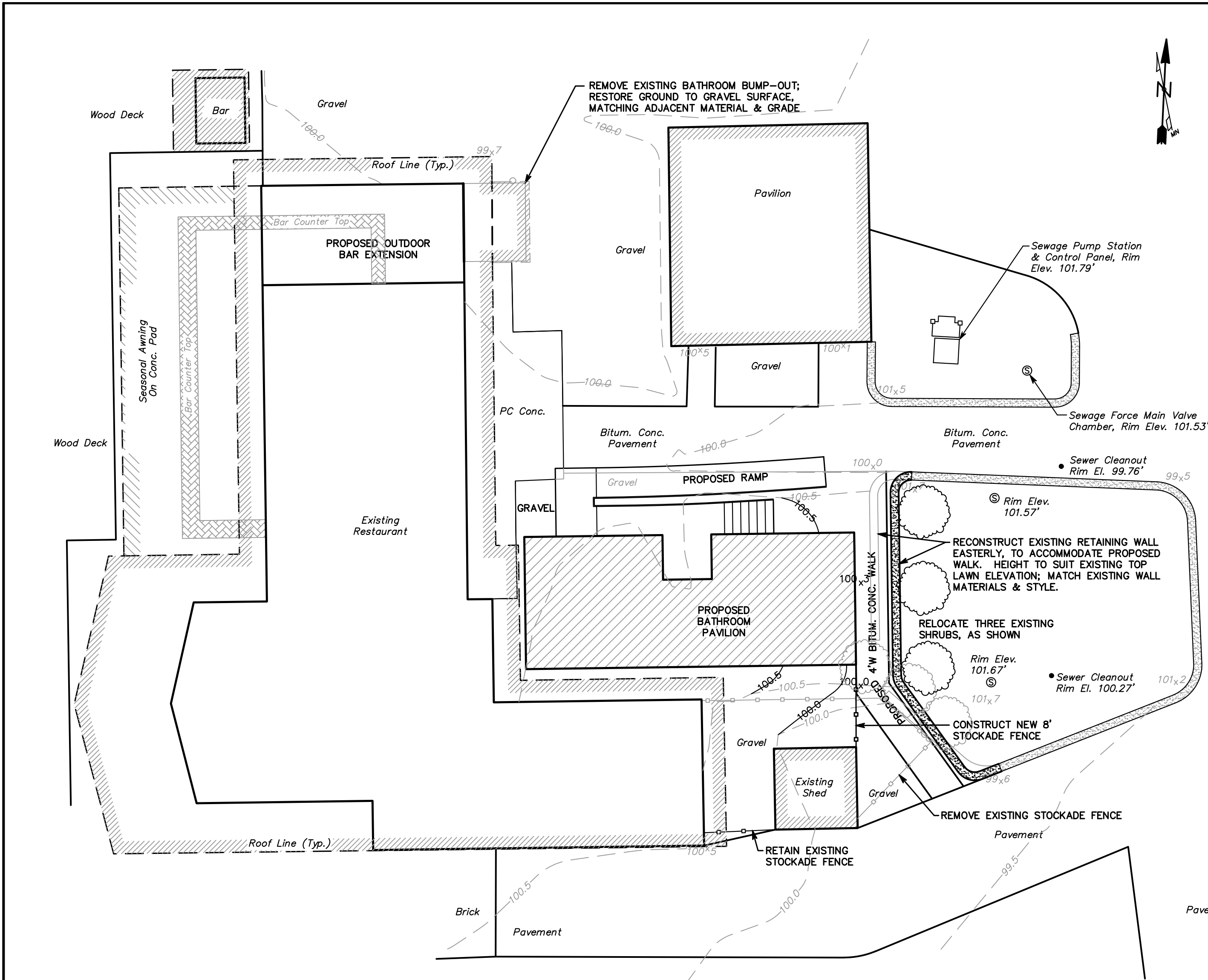
NOTES

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2. AS INSTRUMENTS OF SERVICE THESE DRAWINGS AND COPIES THEREOF ARE PROPERTY OF THE ENGINEER, BUERMANN ENGINEERING, LLC. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ENGINEER.
3. IT IS THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR TO ENSURE THAT THESE PLANS CONTAIN THE MOST RECENT REVISIONS.
4. THE CONTRACTOR SHALL BE INSURED FOR THE WORK TO BE PERFORMED, AND SHALL BE PREPARED TO PROVIDE THE OWNER WITH A CERTIFICATE OF INSURANCE PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL NOTIFY DIG-SAFE (888)344-7233 AT LEAST FORTY-EIGHT HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE AWARE THAT OTHER BURIED UTILITIES OR STRUCTURES, NOT SHOWN ON THESE PLANS AND/OR NOT LOCATED BY DIG-SAFE, MAY EXIST ON THIS SITE.
6. BUERMANN ENGINEERING, LLC HAS NOT PERFORMED ANY ENVIRONMENTAL SITE ASSESSMENTS ON THE SUBJECT PROPERTY, AND MAKES NO CLAIMS ABOUT THE POSSIBLE PRESENCE OR ABSENCE OF HAZARDOUS MATERIALS ON-SITE.
7. THE PURPOSE OF THESE PLANS IS TO DEPICT EXISTING CONDITIONS AND PROPOSED SITE MODIFICATIONS FOR A PROPOSED BATHROOM PAVILION & RESTAURANT MODIFICATIONS, IN SUPPORT OF LOCAL AND STATE PERMITTING.
8. BOUNDARY INFORMATION SHOWN IS APPROXIMATE, BASED UPON INFORMATION FROM THE OWNER, FIELD EVIDENCE FOUND, AND A "BASE PLAN - EXISTING CONDITIONS", DATED OCTOBER 18, 2002 BY LAND LINES SURVEYING AND MAPPING, MICHAEL R. MAGDOON, L.S. BUERMANN ENGINEERING, LLC HAS SINCE PERIODICALLY UPDATED SITE TOPOGRAPHY TO REFLECT CURRENT CONDITIONS. THE PROPERTY LINES, EASEMENTS, AND OTHER REAL PROPERTY DESCRIPTIONS PROVIDED ON THIS PLANS ARE FOR THE USE OF THE PERMITTING AUTHORITIES ONLY. THEY DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN 26 V.S.A. SECTION 2502(4), AND SHALL NOT BE USED IN LIEU OF A SURVEY AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHT.

OWNER OF RECORD

LAKE CHAMPLAIN TRANSPORTATION COMPANY
KING STREET DOCK, BURLINGTON, VERMONT 05401
DEEDS RECORDED AT BURLINGTON LAND RECORDS,
VOL. 129, PG. 394-395, DATED FEB. 2, 1948
VOL. 142, PG. 460-461, DATED FEB. 1, 1952
VOL. 235, PG. 435-444, DATED APRIL 8, 1976
TAX MAP PARCEL #049-1-078-000
SPAN 114-035-16983

PROPERTY OVERVIEW - EXISTING CONDITIONS	Date 1/20/2021
SPOT ON THE DOCK KING STREET DOCK BURLINGTON, VERMONT	Project Number 965
	Plan Scale 1" = 40'
	Sheet 1 of 3
 BUERMANN ENGINEERING, LLC 7 Sanderson Road, Milton, Vermont 05468 Tel.: (802) 893-1308 www.belvt.com	 S41R00

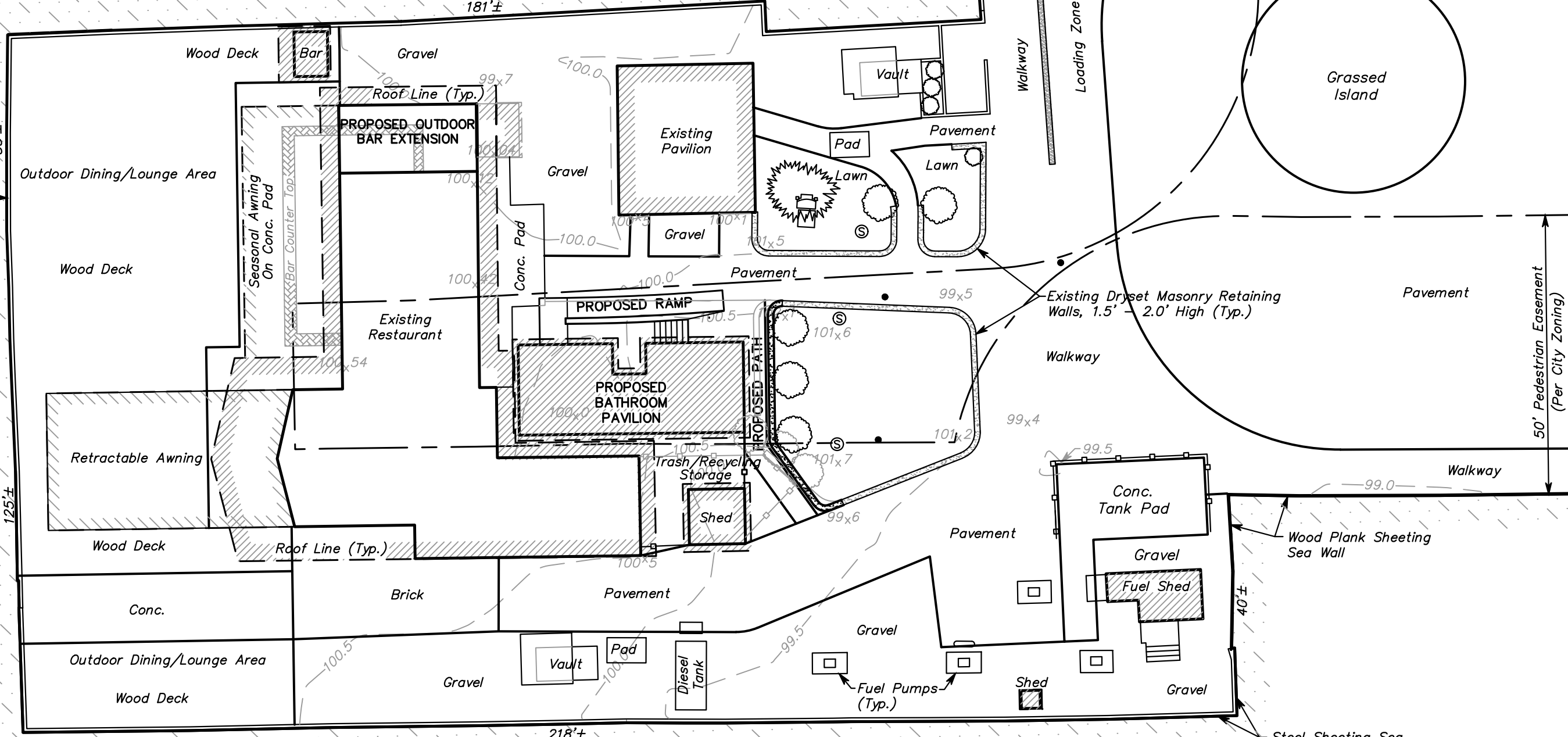


GRAPHIC SCALE
(IN FEET)



BUILDING VICINITY SITE PLAN
1" = 10'

LAKE CHAMPLAIN



GRAPHIC SCALE
(IN FEET)



AREA SITE PLAN
1" = 20'

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5. THE CONTRACTOR SHALL NOTIFY DIG-SAFE (888)344-7233 AT LEAST FORTY-EIGHT HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE AWARE THAT OTHER BURIED UTILITIES OR STRUCTURES, NOT SHOWN ON THESE PLANS AND/OR NOT LOCATED BY DIG-SAFE, MAY EXIST ON THIS SITE.
6. BUERMANN ENGINEERING, LLC HAS NOT PERFORMED ANY ENVIRONMENTAL SITE ASSESSMENTS ON THE SUBJECT PROPERTY, AND MAKES NO CLAIMS ABOUT THE POSSIBLE PRESENCE OR ABSENCE OF HAZARDOUS MATERIALS ONSITE.
7. REFER TO SHEET 1 FOR ADDITIONAL NOTES AND REFERENCES.

GENERAL EROSION CONTROL PROCEDURES

1. ALL EARTH EXPOSED DURING CONSTRUCTION SHALL BE FINISHED GRADES SPECIFIED ON THE PLANS FOR THE AREA TO BE SEEDED. SPREAD TOPSOIL TO A UNIFORM DEPTH OF 4-6 INCHES. TOPSOIL SHALL COMPLY WITH THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, LATEST EDITION, SECTION 755.01 "TOPSOIL".
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS HEREIN AND WITH THE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
3. LIMITS OF DISTURBANCE SHALL BE RESTRICTED TO NO MORE THAN TEN FEET FROM THE EDGES OF MODIFIED OR REDEVELOPED IMPERVIOUS SURFACES, AND ARE CALCULATED TO BE ABOUT 50,400 SQUARE FEET TOTAL.
4. THE GENERAL FLOW OF STORMWATER IS WESTERLY ACROSS THIS NEARLY LEVEL SITE, TO THE LAKE. THE USE OF SUBSURFACE STORMWATER STRUCTURES IS SEVERELY LIMITED BY THE SITE'S LOW ELEVATION. THE USE OF ABOVE-GROUND TEMPORARY STORMWATER CONTROLS (EG., SILT FENCE, HAY BALES) WOULD BE INEFFECTIVE ON THE EXISTING IMPERVIOUS SURFACES. THE MORE EFFECTIVE EROSION CONTROL WILL BE ACHIEVED BY EXPEDITIOUS CONSTRUCTION DURING FAVORABLE WEATHER AND NON-FLOOD CONDITIONS.
5. POTENTIAL SOIL STOCKPILE LOCATIONS ARE TO BE DETERMINED BY THE CONTRACTOR. FOR EXPEDIENCY OF CONSTRUCTION, THESE WILL LIKELY BE SMALL PILES OF TOPSOIL FOR IMMEDIATE PLACEMENT, OR EXCAVATED SURFACES FOR IMMEDIATE REMOVAL TO AN OFFSITE DISPOSAL FACILITY IN ACCORD WITH VERMONT'S SOLID WASTE RULES. STOCKPILES WILL BE COVERED WITH AN ANCHORED TARP AT THE END OF EACH WORK DAY.

TURF ESTABLISHMENT PROCEDURES

1. ROUGH GRADE THE SUBSOIL TO THE PROPER ELEVATIONS, 4-6 INCHES BELOW THE FINISHED GRADES SPECIFIED ON THE PLANS FOR THE AREA TO BE SEEDED. SPREAD TOPSOIL TO A UNIFORM DEPTH OF 4-6 INCHES. TOPSOIL SHALL COMPLY WITH THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, LATEST EDITION, SECTION 755.01 "TOPSOIL".
2. REMOVE STICKS, STONES AND ANY OTHER DEBRIS FROM THE TOPSOIL THAT MAY INTERFERE WITH FINE GRADING AND FUTURE MOWING OF THE AREA. THEN FINE GRADE THE TOPSOIL, TAKING CARE TO MAINTAIN 4 INCHES MINIMUM TOPSOIL DEPTH AND TO PROVIDE FOR SURFACE WATER RUNOFF IN ACCORDANCE WITH THE PLANS.
3. APPLY COMMERCIAL FERTILIZER (10-20-20) TO THE AREA, AT A RATE OF 4 POUNDS PER 100 SQUARE FEET (1,700 POUNDS PER ACRE). APPLY AGRICULTURAL LIME TO THE AREA, AT RATE FO 10 POUNDS PER 100 SQUARE FEET (2 TONS PER ACRE). HARROW OR RAKE THE TOPSOIL TO MIX THE FERTILIZER AND LIME TO A 2 INCH MINIMUM DEPTH.
4. PERMANENT SEEDING SHALL OCCUR ONLY BETWEEN APRIL 15 AND OCTOBER 15. AREAS TO BE REGULARLY MOWED SHOULD USE A MIX CONTAINING ABOUT 45 PERCENT KENTUCKY BLUEGRASS, 45 PERCENT CREEPING RED FESCUE, AND ABOUT 10 PERCENT RYEGRASS, APPLIED AT 45 POUNDS PER ACRE. NON-MOWED AREAS SHOULD USE A MIX CONTAINING ABOUT 65 PERCENT CREEPING RED FESCUE, 5 PERCENT REDTOP, AND ABOUT 30 PERCENT BIRDSFOOT TREFOIL. APPLIED AT 30 POUNDS PER ACRE. TEMPORARY SEEDING (INCLUDING ALL SEEDING BETWEEN OCTOBER 15 AND APRIL 15) SHALL USE ANNUAL RYE APPLIED AT A RATE OF 45 POUNDS PER ACRE. BURY PERMANENT AND TEMPORARY SEEDS WITH 1/4 INCH OF TOPSOIL.
5. APPLY HAY OR STRAW MULCH EVENLY TO THE SEEDED AREA. MULCH SHALL BE AIR-DRIED, AND FREE OF UNDESIRABLE SEEDS AND COARSE MATERIAL. PLACE MULCH AT A RATE OF 75-100 POUNDS PER 1,000 SQUARE FEET (2-3 BALES SPREAD 3 INCHES DEEP), OR 1.5-2.5 TONS PER ACRE (90-120 BALES SPREAD 3 INCHES DEEP). THE MULCH MAY BE ANCHORED BY THE USE OF A DISK HARROW OR SHEEPSFOOT ROLLER (RUNNING PARALLEL TO THE GROUND CONTOURS), OR A TRACKED VEHICLE (RUNNING PERPENDICULAR TO THE GROUND SLOPE). ALTERNATIVELY A THIN LAYER OF TOPSOIL PLACED OVER THE MULCH AS AN ANCHOR, OR COMMERCIAL NETS, MATS OR ASPHALT TACKING PRODUCTS MAY BE ACCEPTABLE WITH THE ENGINEER'S PRIOR APPROVAL.
6. INSPECT SEEDED AND MULCHED AREAS FREQUENTLY DURING THE FIRST FOUR WEEKS AFTER SEEDING, AND REPLACE OR REANCHOR THE MULCH WHENEVER NECESSARY. CHECK SEEDING NEAR THE END OF THE FIRST GROWING SEASON TO DETERMINE WHETHER ALL AREAS HAVE BECOME FULLY ESTABLISHED. SCARIFY, FERTILIZE, LIME, AND RESEED ANY AREAS WITHOUT ADEQUATE PLANT COVER, AND REAPPLY MULCH.
7. AREAS TEMPORARILY SEEDED AND MULCHED BETWEEN OCTOBER 15 AND APRIL 15 SHALL BE RESEEDED AND MULCHED IN ACCORDANCE WITH THESE PERMANENT SEEDING PROCEDURES AFTER APRIL 15.
8. MOW AND FERTILIZE WELL-ESTABLISHED AREAS OF PERMANENT PLANTING ON A REGULAR BASIS TO MAINTAIN VIGOROUS GROWTH.

EROSION CONTROL MAINTENANCE

ALL EROSION PREVENTION AND SEDIMENT CONTROL STRUCTURES AND MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND AS SOON AS POSSIBLE BUT NO LATER THAN 24 HOURS AFTER ANY STORM EVENT WHICH GENERATES A DISCHARGE OF STORMWATER RUNOFF FROM THE CONSTRUCTION SITE. IF THERE IS NO EARTHWORK PERFORMED DURING THE PERIOD DECEMBER 15 THROUGH MARCH 15 AND ALL EXPOSED SOILS AND DRAINAGE CHANNELS HAVE BEEN AT LEAST TEMPORARILY PROTECTED, INSPECTIONS MAY BE SUSPENDED DURING THAT PERIOD, BUT THE FINAL INSPECTION RECORD FOR THE SEASON SHALL CLEARLY SHOW THE STATUS OF SITE GRADING AND STABILIZATION EFFORTS AT THE END OF THE CONSTRUCTION SEASON. INSPECTIONS ARE INTENDED TO OBSERVE EVIDENCE OF, OR THE POTENTIAL FOR, SEDIMENT LEAVING FROM DISTURBED AREAS AND MATERIAL STORAGE AREAS; AND INSTALLED SEDIMENT AND EROSION CONTROL MEASURES TO ENSURE THEY ARE OPERATING CORRECTLY; LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE; AND DISCHARGE POINTS TO ASSESS WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO RECEIVING WATERS. INSPECTION REPORTS SHOULD BE MAINTAINED OF EACH INSPECTION, AND SHOULD NOTE THE COMPONENTS AND SCOPE OF THE INSPECTION; NAMES AND QUALIFICATIONS OF PERSONNEL CONDUCTING THE INSPECTION; DATE OF THE INSPECTION; OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION CONTROL PLANS; ACTION TAKEN; AND INCIDENTS OF NONCOMPLIANCE (IF NONE, THEN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE PLANS SHOULD BE INCLUDED). REPORTS SHALL BE KEPT AT LEAST THREE YEARS AFTER THE THE SITE HAS BEEN FINALLY STABILIZED.

COMPONENT	INSPECTION GUIDELINE	INSPECTION	POSSIBLE MAINTENANCE
TEMPORARY SEEDING	WHAT TYPE OF SEED WAS USED? HOW LONG WILL THE VEGETATION BE IN PLACE BEFORE PLANTING OF PERENNIAL GRASS TAKES PLACE? WHEN WAS THE SEED PLANTED?	INTRUSION OF NOXIOUS WEEDS? COVERAGE 80-100%? MOVEMENT OF MATERIAL?	IF NOT, RESEED. EVALUATE TIME OF YEAR, PLANT AGAIN. EVALUATE SOIL CONDITIONS, EXCESS MOISTURE, OR NEED TO APPLY MORE SEED. IMPLEMENT WEED CONTROL.
DRY MULCH	DOES THE MULCH COVER 80 - 100 PERCENT OF THE BARE GROUND? IF DRY MULCH IS APPLIED, HOW IS IT HELD IN PLACE? HAS WIND REMOVED THE DRY MULCH, AND IS THIS A PROBLEM?		IF NOT, REAPPLY. NEED TO ANCHOR TO GROUND BY CRIMPING OR TACKIFIER.

SITE & GRADING PLAN

SPOT ON THE DOCK

KING STREET DOCK

BURLINGTON, VERMONT

BUERMANN ENGINEERING, LLC

7 Sanderson Road, Milton, Vermont 05468

Date
1/20/2021

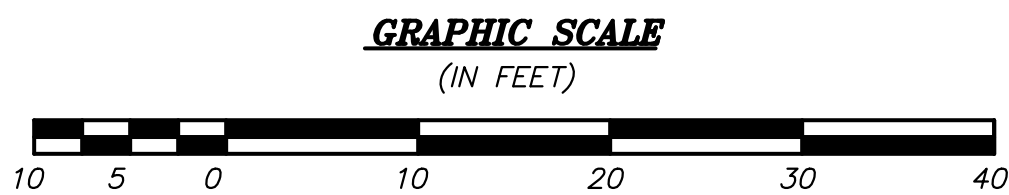
Project Number
965

Plan Scale
AS SHOWN

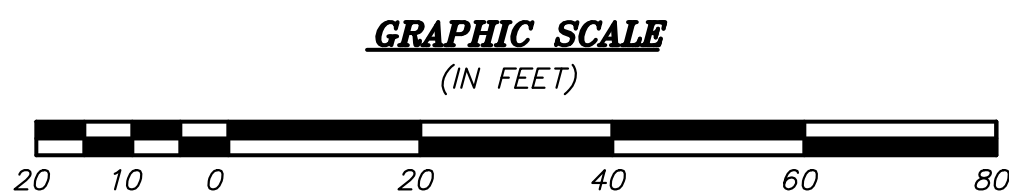
Sheet
2 of 3

STATE OF VERMONT
JOHN M. BUERMANN
No. 7375
PROFESSIONAL ENGINEER

942R00



BUILDING VICINITY UTILITY PLAN
1" = 10'



AREA UTILITY PLAN
1" = 20'

NOTES

1. THESE DRAWINGS ARE PREPARED FOR PERMITTING REVIEW ONLY.
2. AS INSTRUMENTS OF SERVICE THESE DRAWINGS AND COPIES THEREOF ARE PROPERTY OF THE ENGINEER, BUERMANN ENGINEERING, LLC. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ENGINEER.
3. IT IS THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR TO ENSURE THAT THESE PLANS CONTAIN THE MOST RECENT REVISIONS.
4. THE CONTRACTOR SHALL BE INSURED FOR THE WORK TO BE PERFORMED, AND SHALL BE PREPARED TO PROVIDE THE OWNER WITH A CERTIFICATE OF INSURANCE PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL NOTIFY DIG-SAFE (888)344-7233 AT LEAST FORTY-EIGHT HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE AWARE THAT OTHER BURIED UTILITIES OR STRUCTURES, NOT SHOWN ON THESE PLANS AND/OR NOT LOCATED BY DIG-SAFE, MAY EXIST ON THIS SITE.
6. BUERMANN ENGINEERING, LLC HAS NOT PERFORMED ANY ENVIRONMENTAL SITE ASSESSMENTS ON THE SUBJECT PROPERTY, AND MAKES NO CLAIMS ABOUT THE POSSIBLE PRESENCE OR ABSENCE OF HAZARDOUS MATERIALS ONSITE.
7. REFER TO SHEET 1 FOR PLAN LEGEND, ADDITIONAL NOTES AND REFERENCES.

<i>UTILITY PLAN</i>	Date 1/20/2021
<i>SPOT ON THE DOCK</i> <i>KING STREET DOCK BURLINGTON, VERMONT</i>	Project Number 965
	Plan Scale AS SHOWN
	Sheet 3 of 3
 <u>BUERMANN ENGINEERING, LLC</u> 7 Sanderson Road, Milton, Vermont 05468	©
Tel.: (802) 893-1308	www.belvt.com



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BATHROOM PAVILION & RENOVATIONS

BURLINGTON VERMONT

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SCALE:
 $3/16" = 1'-0"$

PROJECT NO:	2020102
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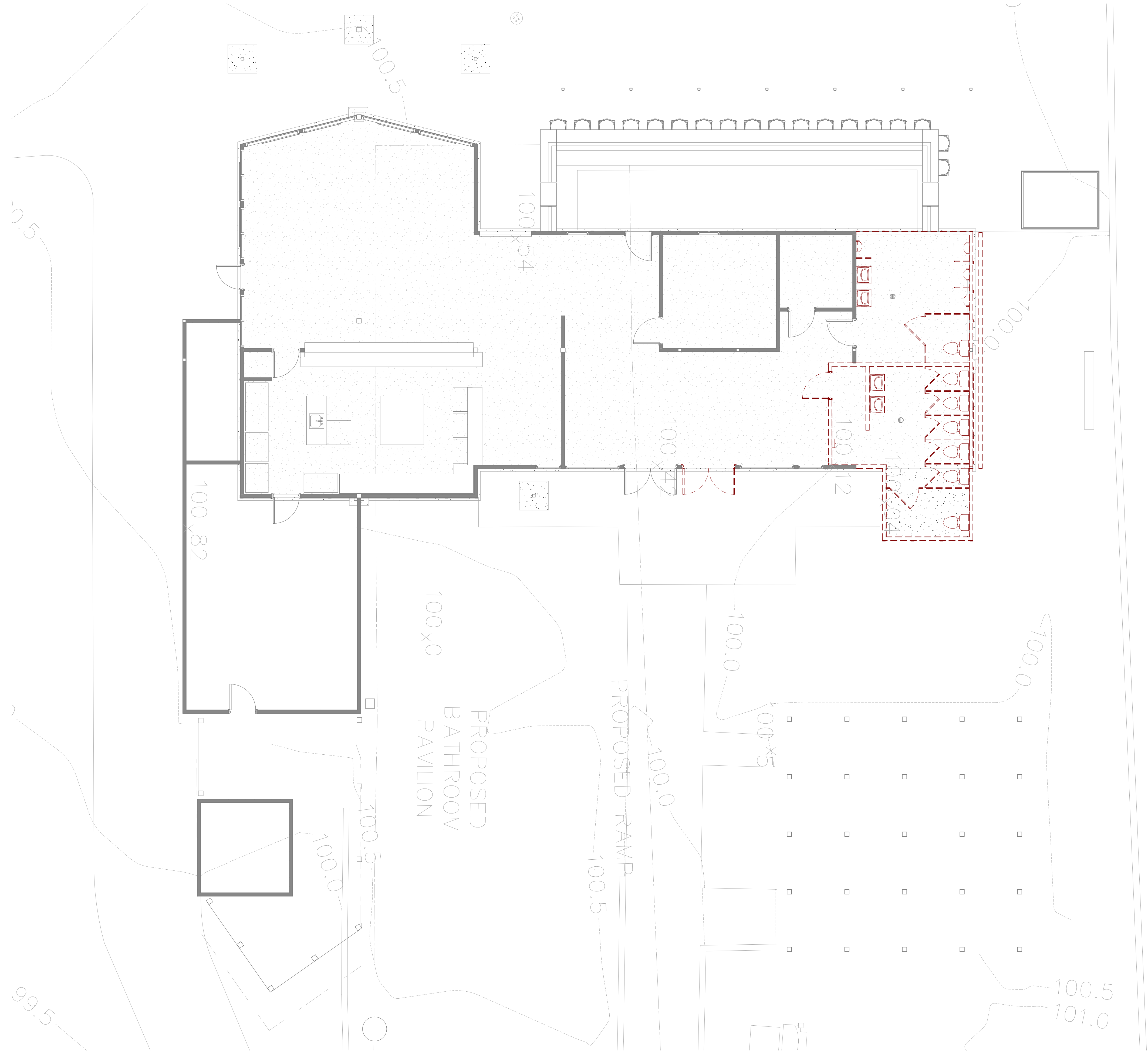
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BH	DR

FILE TITLE:

DEMO FLOOR
PLAN

T NUMBER:

D1.01



1 LEVEL 1 DEMO

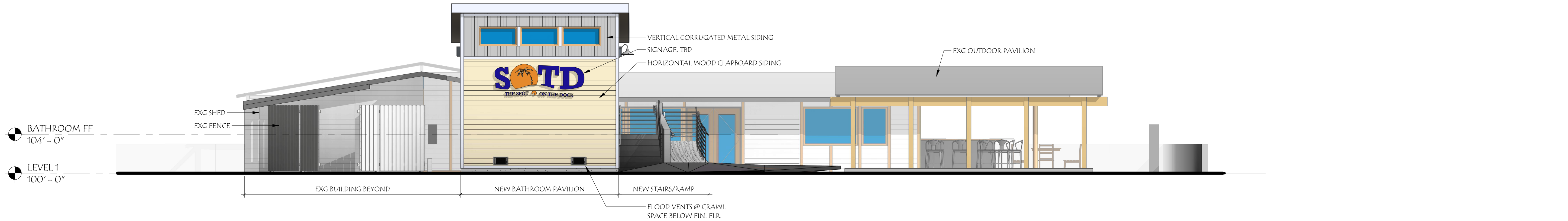
Ownership of Instruments of Service



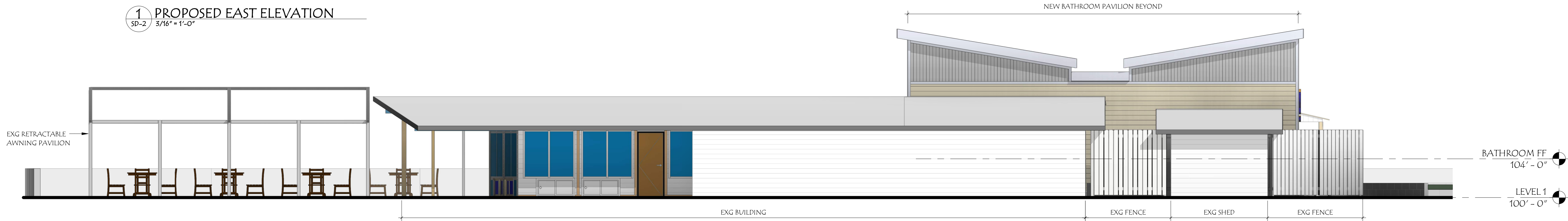
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Ownership of Instruments of Service

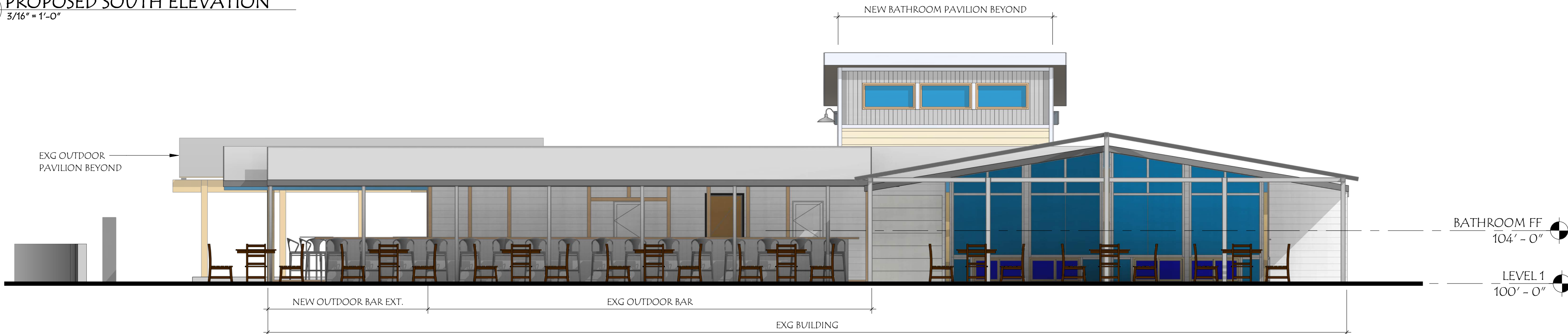
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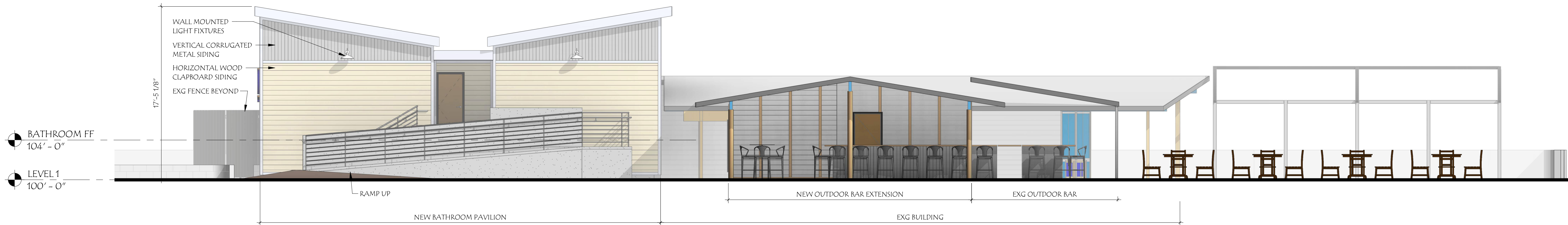
1 PROPOSED EAST ELEVATION
SD-2 3/16" = 1'-0"



2 PROPOSED SOUTH ELEVATION
SD-2 3/16" = 1'-0"



3 PROPOSED WEST ELEVATION
SD-2 3/16" = 1'-0"



4 PROPOSED NORTH ELEVATION
SD-2 3/16" = 1'-0"

BATHROOM PAVILION & RENOVATIONS

THE SPOT ON THE DOCK - BURLINGTON, VT

PROPOSED ELEVATIONS



1/22/2021 9:32:29 AM

All reports, drawings, specifications, computer files, field data, notes and other documents and instruments prepared by the Consultant as instruments of service shall remain the property of the Consultant. The Consultant shall retain all common law, statutory and other reserved rights, including the copyright therein. Ownership of Instruments of Service. 2020/10/19 | Michael J. Zyl, P.E., P.S. | 1/22/2021 9:32:29 AM | C:\Users\michael.zyl\Documents\2020\10\19\2020_10_19_2020_10_19_2020_10_19.dwg



VIEW FROM EAST



VIEW FROM WEST



VIEW FROM NORTH



BIRD'S EYE VIEW FROM EAST

BATHROOM PAVILION & RENOVATIONS

THE SPOT ON THE DOCK - BURLINGTON, VT

RENDERED VIEWS

Ownership of Instruments of Service



THE SPOT ON THE DOCK - BURLINGTON, VT

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SPOT ON THE DOCK

**BATHROOM PAVILION &
RENOVATIONS**

BURLINGTON VERMONT

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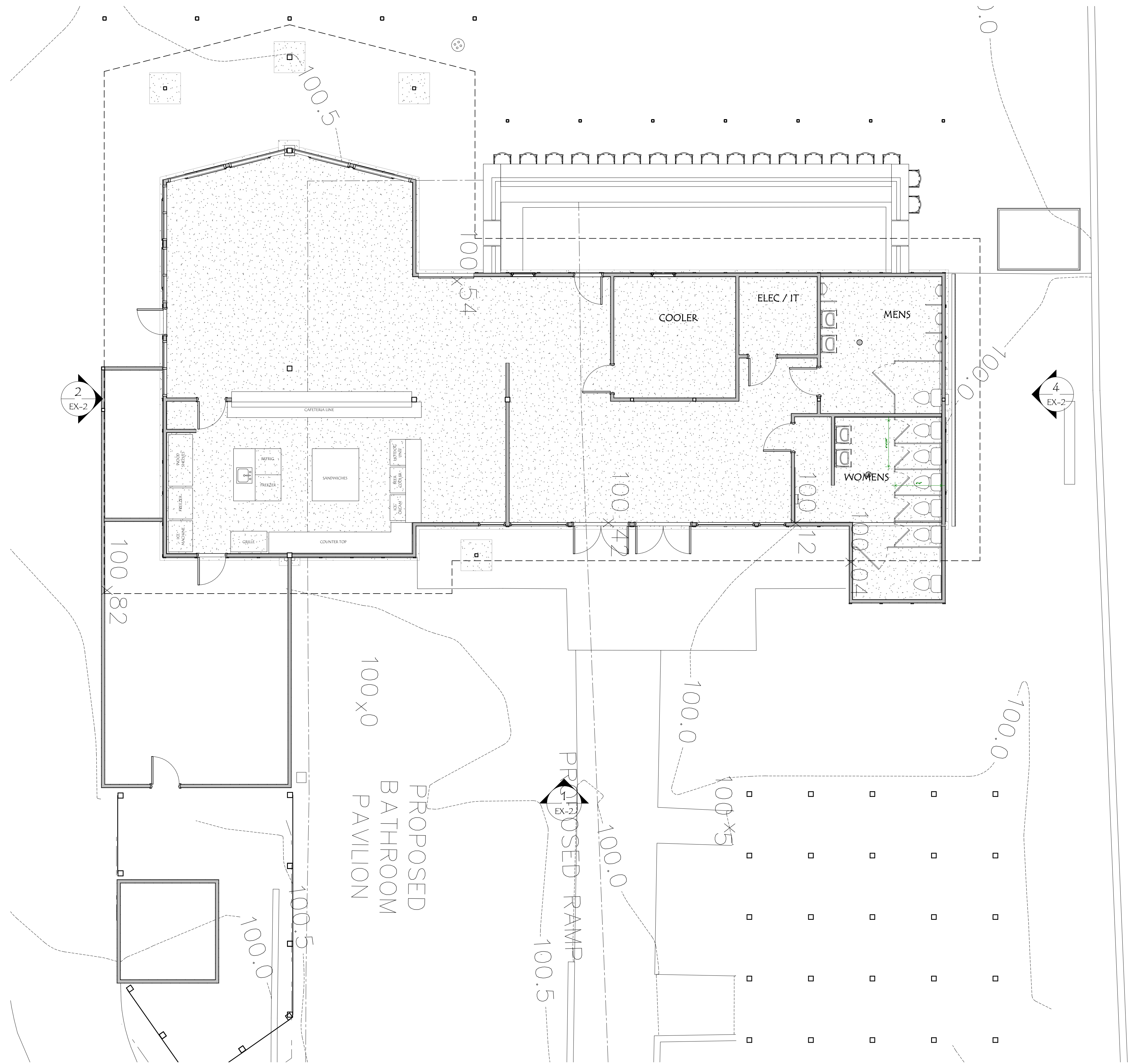
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BH	DR

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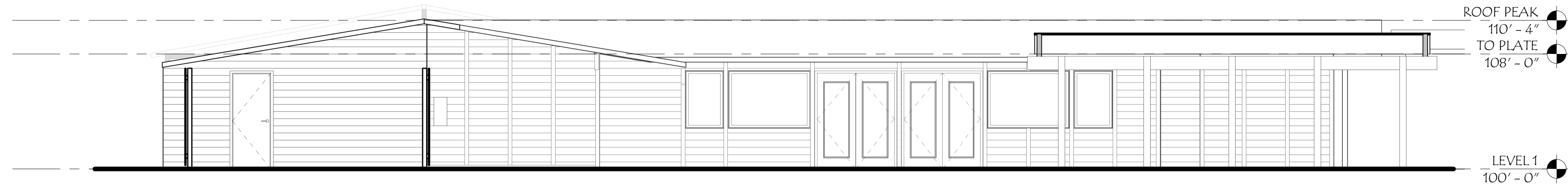
EXISTING
FLOOR PLAN

T NUMBER

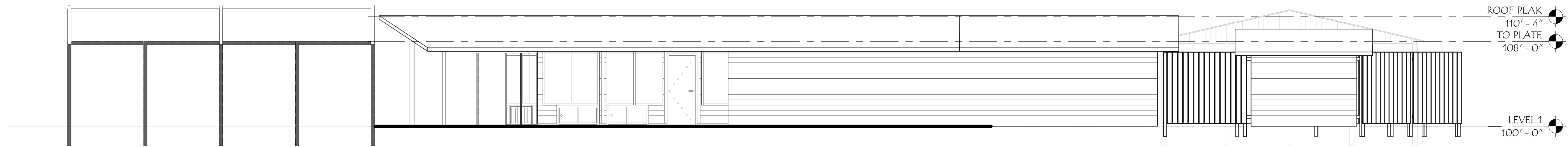
EX-1



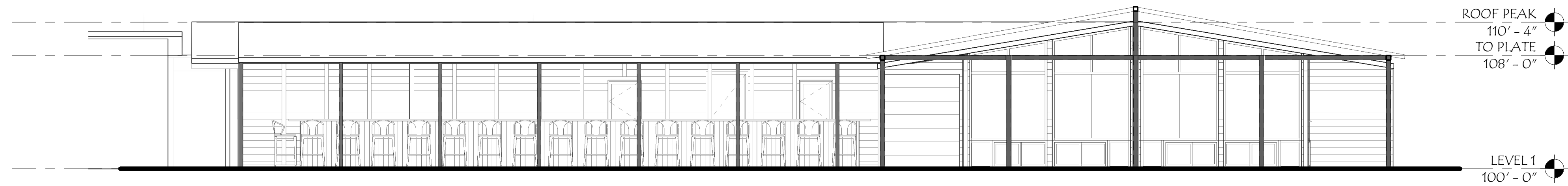
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EX-1 3/16" = 1'-0"



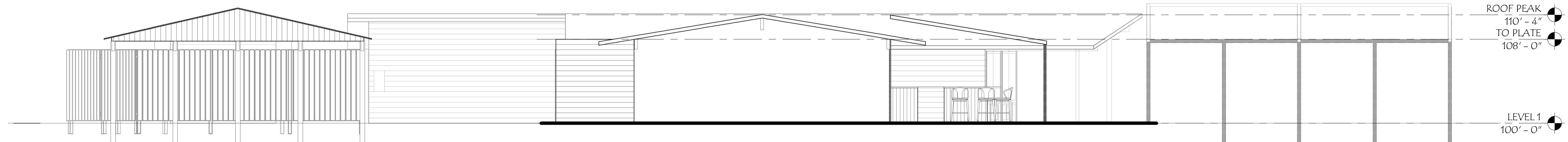
1 EXISTING ELEVATION - EAST
EX-2 $3/16" = 1'-0"$



2 EXTERIOR ELEVATION - SOUTH
EX-2 3/16" = 1'-0"



3 EXISTING ELEVATION - WEST
EX-2 $3/16'' = 1'-0''$



4 EXISTING ELEVATION - NORTH
EX-2 3/16" = 1'-0"

SPOT ON THE DOCK

INFORMANT

DECLARATION

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PROJECT NO:	

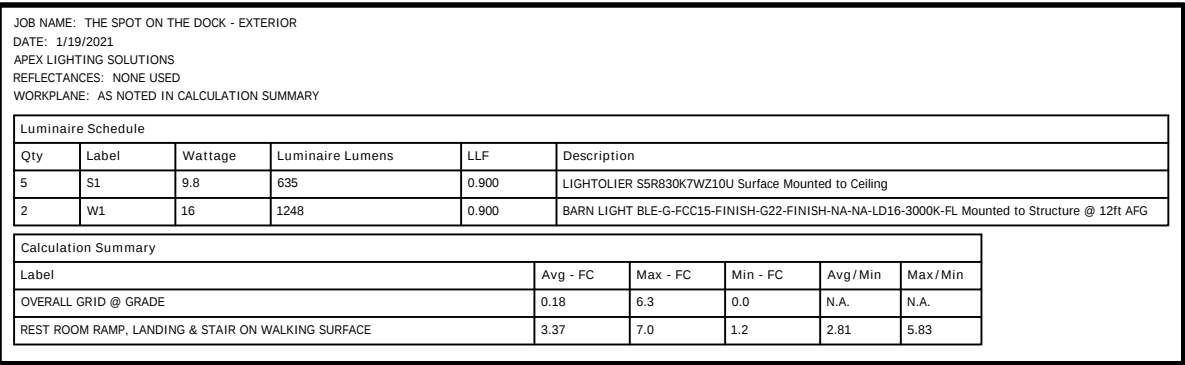
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PROJECT TITLE:

EXISTING
ELEVATIONS

T NUMBER:

EX-2



SL-1A



SlimSurface is a 5/8" thick LED surface mounted luminaire with the appearance of a recessed downlight. Easy to install into most standard j-boxes, the SlimSurface round apertures are available as a 5" 650lm, 7" 1000lm and 10" 2200lm fixture.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Ordering guide

example: S5R830K7AL

Series	CRI	CCT	Lumens	Finish	Dimming
S5R SlimSurface 5" Round	8 80 9 90 ¹	27K 2700K	7 650lm	— White	blank ELV / Triac (120V)
		30K 3000K		AL Aluminum	
		35K 3500K		BK Black	
		40K 4000K		W White	
S7R SlimSurface 7" Round	8 80 9 90 ¹	27K 2700K	10 1000lm	AL Aluminum	Z10U 0-10V (120V-277V)
		30K 3000K		BK Black	
		35K 3500K		W White	
		40K 4000K		AL Aluminum	
S10R SlimSurface 10" Round ²	8 80 9 90 ¹	27K 2700K	22 2200lm	BK Black	blank ELV / Triac (120V) Z10U 0-10V (120V-277V)
		30K 3000K		W White	
		35K 3500K		AL Aluminum	
		40K 4000K		BK Black	
				MT Metallic	

1. Configurations using 90 CRI are only available with 2700K & 3000K CCT.

2. **IMPORTANT:** SlimSurface LED 10" round installs into 4-11/16" J-box (not wet location listed).



Features

- Flange:** One piece plastic flange. Injection molded white, applied aluminum or black.
- Lens:** High transmittance lens allowing for smooth, comfortable light pattern.
- Power supply:** Integral class 2 driver. Factory wired electronic LED driver (see Electrical section for specifications)
- LED Strip:** Utilizes LEDs.
- Lifetime:** Expected lifetime 50,000 hours and backed by a 5-year warranty*
- Compliance:** Non-conductive fixture for shower light application (not applicable to metal trim model).

Dimming

Intended for ELV/Triac (120V) or 0-10V dimming (120V-277V) based on the configuration. Min 90°C supply conductors.

Electrical

Electronic power supply: RoHS compliant. Class 2 power unit. Unit tolerates sustained open and short circuit output conditions without damage.

Electrical specifications	Dimming	Input volts	Input frequency	Input current	Input Power	THD Factor	Power Factor	Minimum Operating Temp.
Slim 5" 650lm	Triac	120V	50/60Hz	0.08A	9.5W	<15%	>0.9	-20°C
	0-10V	120V	50/60Hz	0.09A	10.1W	<20%	>0.9	-20°C
		277V	50/60Hz	0.04A	10.2W	<20%	>0.9	-20°C
Slim 7" 1000lm	Triac	120V	50/60Hz	0.13A	14.2W	<15%	>0.9	-20°C
	0-10V	120V	50/60Hz	0.12A	14.4W	<20%	>0.9	-20°C
		277V	50/60Hz	0.06A	14.7W	<20%	>0.9	-20°C
Slim 10" 2200lm	Triac	120V	50/60Hz	0.20A	23.2W	<20%	>0.9	-20°C
	0-10V	120V	50/60Hz	0.20A	23.2W	<10%	>0.95	-20°C
		277V	50/60Hz	0.09A	24.6W	<15%	>0.95	-20°C

For more details, please see LED-DIM-DL spec sheet.

* See Philips.com/warranties for warranty details.

Labels

cULus listed. ENERGY STAR® certified. All models are damp location rated for walls or ceilings. The 5" & 7" are suitable for ceiling mount wet locations when installed per instructions.

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

Compatibility (10" Round)

Install into 4-11/16" J-box:



4 11/16" square (metal)

Compatible with S10R only

Compatibility (5" & 7" Round)

Installs into standard J-box applications for 5" & 7" models:



3 1/2" round (plastic)

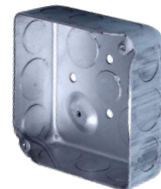


4" square (plastic)

Not compatible with S5R



4" octagonal (metal)



4" square (metal)

Not compatible with S5R



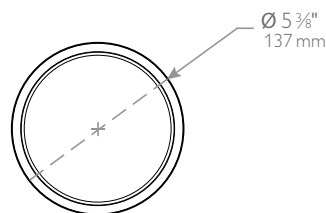
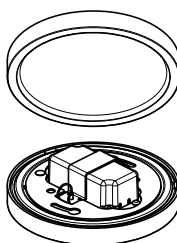
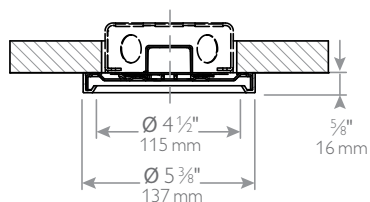
Fire rated J-box

Fire rated classification is per the ceiling and junction box ratings.

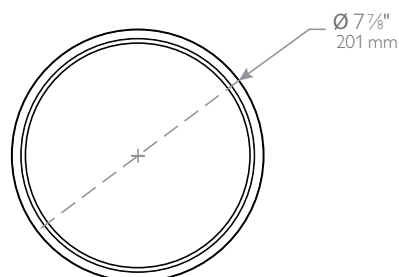
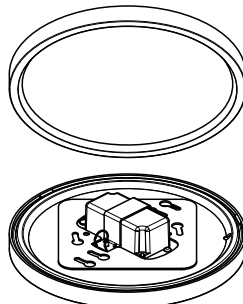
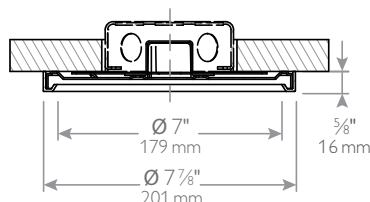
Note: A 2 1/8" deep octagon junction box is recommended for through circuit wiring applications.

Dimensions

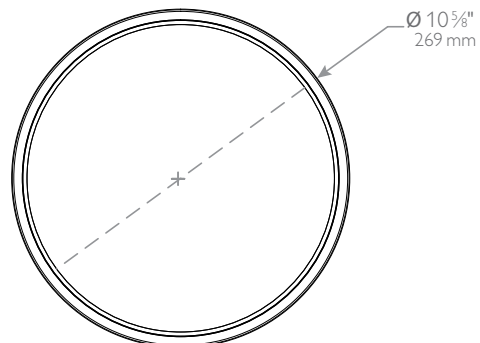
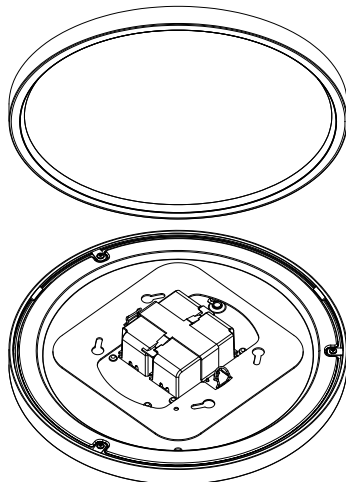
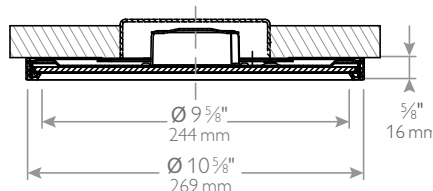
SlimSurface LED 5" downlight



SlimSurface LED 7" downlight



SlimSurface LED 10" downlight

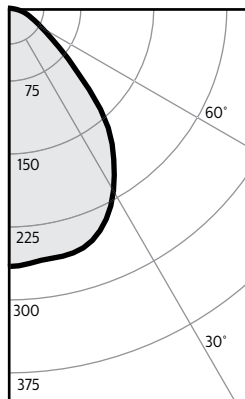


S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S5R927K7 • 10W LED, 90CRI, 2700K

Candela Curves



Angle	Mean CP	Lumens
0	266	25
5	263	
10	261	
15	260	736
20	254	
25	239	110
30	217	
35	190	118
40	160	
45	118	91
50	81	
55	55	51
60	40	
65	30	31
70	23	
75	18	18
80	11	
85	4	5
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	11	6.0'
6'	7	7.2'
7'	5	8.4'
8'	4	9.6'
9'	3	10.8'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	21.8	0.40
6'	14.2	0.26
7'	10.2	0.19
8'	8.5	0.16
9'	6.8	0.13

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling		80%				70%		50%		30%		0%
Wall		70	50	30	10	50	10	50	10	50	10	0
RCR		Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	105	98	100	95	97	92	88
	2	102	96	90	85	94	84	90	82	87	80	77
	3	95	86	79	73	84	73	82	72	79	70	67
	4	88	78	70	64	76	64	74	63	72	62	60
	5	82	71	63	57	70	57	68	56	66	56	53
	6	76	64	57	51	64	51	62	50	60	50	48
	7	71	59	51	46	58	46	57	45	56	45	43
	8	67	54	47	42	54	41	53	41	51	41	39
	9	63	50	43	38	50	38	49	38	48	37	36
10	59	47	40	35	46	35	45	34	44	34	33	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	208	39.8%
0-40	326	62.5%
0-60	469	89.7%
0-90	522	100.0%

CRI and CCT adjustment factors

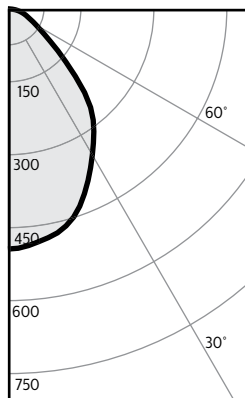
90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

Report: 1053GFR

Output lumens:	523lms	Efficacy:	57.4lm/w
Spacing Criterion:	1.2	CCT ³ :	2700K
Beam Angle:	87°	CRI:	90min
Input Watts ² :	9.1W		

S7R927K10 • 14W LED, 90CRI, 2700K

Candela Curves



Angle	Mean CP	Lumens
0	496	46
5	490	
10	479	
15	464	130
20	433	
25	391	180
30	348	
35	309	193
40	265	
45	197	152
50	135	
55	92	85
60	68	
65	51	52
70	40	
75	30	32
80	21	
85	9	10
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	20	5.5'
6'	14	6.6'
7'	10	7.7'
8'	8	8.8'
9'	6	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	21.8	2.89
6'	14.2	1.90
7'	10.2	1.35
8'	8.5	1.13
9'	6.8	0.90

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	104	98	100	95	96	92	88
	2	102	96	90	85	94	84	90	82	87	80	77
	3	95	86	79	74	85	73	82	72	79	71	67
	4	88	78	70	65	77	64	74	63	72	62	60
	5	82	71	63	57	70	57	68	56	66	56	53
	6	76	65	57	51	64	51	62	51	61	50	48
	7	71	59	52	46	59	46	57	46	56	45	43
	8	67	55	47	42	54	42	53	42	52	41	39
	9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	47	35	46	35	45	35	33	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	356	40.5%
0-40	549	62.4%
0-60	786	89.3%
0-90	880	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

Report: 962GFR

Output lumens:	880lms	Efficacy:	65.2lm/w
Spacing Criterion:	1.1	CCT ³ :	2700K
Beam Angle:	83°	CRI:	90min
Input Watts ² :	13.5W		

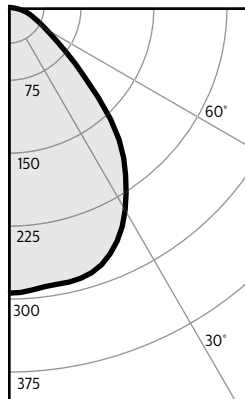
1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S5R827K7 • 10W LED, 80CRI, 2700K

Candela Curves



Angle	Mean CP	Lumens
0	294	
5	291	
10	289	28
15	288	
20	281	81
25	265	
30	241	121
35	211	
40	178	131
45	131	
50	91	102
55	62	
60	45	57
65	34	
70	26	34
75	20	
80	13	21
85	4	
90	0	5

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	12	6.0'
6'	8	7.2'
7'	6	8.4'
8'	5	9.6'
9'	4	10.8'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	24.2	2.77
6'	15.8	1.82
7'	11.3	1.30
8'	9.5	1.08
9'	7.5	0.87

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	105	105	100	95	97	92	88
	2	102	96	90	85	94	94	90	82	87	80	77
	3	95	86	79	73	84	84	82	72	79	70	67
	4	88	78	70	64	76	76	74	63	72	62	60
	5	82	71	63	57	70	70	68	56	66	56	53
	6	76	64	57	51	64	64	62	50	60	50	48
	7	71	59	51	46	58	58	57	45	56	45	43
	8	67	54	47	42	54	54	53	41	51	41	39
	9	63	50	43	38	50	50	49	38	48	37	36
10	59	47	40	35	46	46	45	34	44	34	33	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	231	39.7%
0-40	362	62.3%
0-60	521	89.6%
0-90	581	100.0%

CRI and CCT adjustment factors

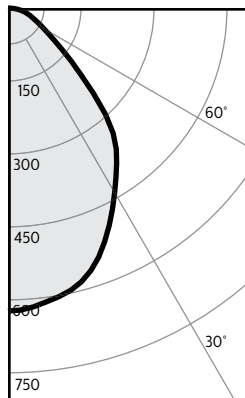
90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

Report: 1054GFR

Output lumens:	581lms	Efficacy:	62.5lm/w
Spacing Criterion:	1.2	CCT ³ :	2700K
Beam Angle:	87°	CRI:	80min
Input Watts ² :	9.3W		

S7R827K10 • 14W LED, 80CRI, 2700K

Candela Curves



Angle	Mean CP	Lumens
0	625	
5	618	
10	604	59
15	584	
20	546	164
25	494	
30	440	227
35	390	
40	337	244
45	250	
50	170	193
55	117	
60	85	108
65	65	
70	51	65
75	39	
80	27	41
85	12	
90	0	13

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	25	5.5'
6'	17	6.6'
7'	13	7.7'
8'	10	8.8'
9'	8	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	24.2	3.68
6'	15.8	2.42
7'	11.3	1.73
8'	9.5	1.44
9'	7.5	1.15

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	104	98	100	95	96	92	88
	2	102	96	90	85	94	84	90	82	87	80	77
	3	95	86	79	74	85	73	82	72	79	71	67
	4	88	78	70	65	77	64	74	63	72	62	60
	5	82	71	63	57	70	57	68	56	66	56	53
	6	76	65	57	51	64	51	62	51	61	50	48
	7	71	59	52	46	59	46	57	46	56	45	43
	8	67	55	47	42	54	42	53	42	52	41	39
	9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	47	35	46	35	45	35	33	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	449	40.4%
0-40	693	62.3%
0-60	994	89.3%
0-90	1113	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

Report: 964GFR

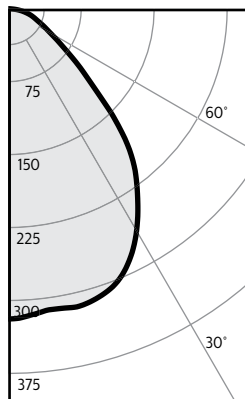
Output lumens:	1113lms	Efficacy:	83.1lm/w
Spacing Criterion:	1.1	CCT ³ :	2700K
Beam Angle:	83°	CRI:	80min
Input Watts ² :	13.4W		

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S5R830K7 • 10W LED, 80CRI, 3000K

Candela Curves



Report#: 1055GFR

Output lumens: 628lm
Spacing Criterion: 1.2
Beam Angle: 87°
Input Watts: 9.1W

Angle	Mean CP	Lumens
0	319	30
5	315	
10	313	
15	313	88
20	306	
25	290	131
30	264	
35	231	142
40	197	
45	146	109
50	100	
55	69	62
60	50	
65	38	37
70	29	
75	22	22
80	15	
85	6	6
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	13	6.0'
6'	9	7.2'
7'	7	8.4'
8'	5	9.6'
9'	4	10.8'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	26.2	3.06
6'	17.1	2.01
7'	12.2	1.43
8'	10.2	1.19
9'	8.1	0.96

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	105	98	100	95	97	92	88
	2	102	96	90	85	94	84	90	82	87	80	77
	3	95	86	79	73	84	73	82	72	79	70	67
	4	88	78	70	64	76	64	74	63	72	62	60
	5	82	71	63	57	70	57	68	56	66	56	53
	6	76	64	57	51	64	51	62	50	60	50	48
	7	71	59	51	46	58	46	57	45	56	45	43
	8	67	54	47	42	54	41	53	41	51	41	39
	9	63	50	43	38	50	38	49	38	48	37	36
10	59	47	40	35	46	35	45	34	44	34	33	

Zonal lumens & percentages

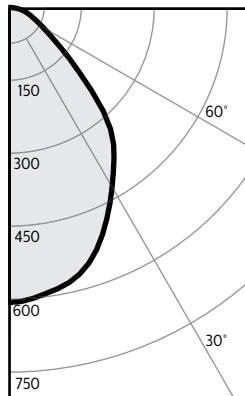
Zone	Lumens	%Luminaire
0-30	249	39.7%
0-40	391	62.3%
0-60	562	89.6%
0-90	628	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S7R830K10 • 14W LED, 80CRI, 3000K

Candela Curves



Report#: 961GFR

Output lumens: 1081lm
Spacing Criterion: 1.1
Beam Angle: 83°
Input Watts: 13.5W

Angle	Mean CP	Lumens
0	607	57
5	601	
10	588	
15	568	159
20	531	
25	480	221
30	427	
35	379	237
40	328	
45	243	187
50	165	
55	113	105
60	83	
65	63	63
70	49	
75	37	39
80	26	
85	12	13
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	24	5.5'
6'	17	6.6'
7'	12	7.7'
8'	9	8.8'
9'	7	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	26.2	3.55
6'	17.1	2.33
7'	12.2	1.66
8'	10.2	1.39
9'	8.1	1.11

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	104	98	100	95	96	92	88
	2	102	96	90	85	94	84	90	82	87	80	77
	3	95	86	79	74	85	73	82	72	79	71	67
	4	88	78	70	65	77	64	74	63	72	62	60
	5	82	71	63	57	70	57	68	56	66	56	53
	6	76	65	57	51	64	51	62	51	61	50	48
	7	71	59	52	46	59	46	57	46	56	45	43
	8	67	55	47	42	54	42	53	42	52	41	39
	9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	47	35	46	35	45	35	33	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	437	40.4%
0-40	674	62.3%
0-60	966	89.4%
0-90	1081	100.0%

CRI and CCT adjustment factors

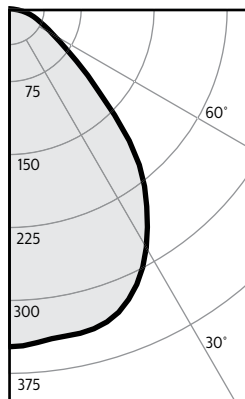
90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S5R835K7 • 10W LED, 80CRI, 3500K

Candela Curves



Angle	Mean CP	Lumens
0	347	33
5	344	
10	341	
15	340	96
20	332	
25	312	143
30	283	
35	248	155
40	209	
45	154	119
50	107	
55	74	68
60	53	
65	41	41
70	31	
75	23	25
80	15	
85	5	7
90	0	

Report: 1056GFR

Output lumens: 685lms
Spacing Criterion: 1.2
Beam Angle: 87°
Input Watts²: 9.1W

Efficacy: 75.3lm/w
CCT³: 3500K
CRI: 80min

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	14	6.0'
6'	10	7.2'
7'	7	8.4'
8'	5	9.6'
9'	4	10.8'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	28.6	3.34
6'	18.7	2.19
7'	13.3	1.56
8'	11.2	1.30
9'	8.9	1.04

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	111	106
1	111	107	103	100	105	98	100	95	95	92	88
2	102	96	90	85	94	84	90	82	82	80	77
3	95	86	79	73	84	73	82	72	72	70	67
4	88	78	70	64	76	64	74	63	63	62	60
5	82	71	63	57	70	57	68	56	56	56	53
6	76	64	57	51	64	51	62	50	50	50	48
7	71	59	51	46	58	46	57	45	45	45	43
8	67	54	47	42	54	41	53	41	41	41	39
9	63	50	43	38	50	38	49	38	38	37	36
10	59	47	40	35	46	35	45	34	34	34	33

Zonal lumens & percentages

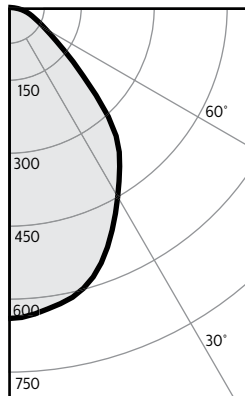
Zone	Lumens	%Luminaire
0-30	272	39.6%
0-40	426	62.2%
0-60	613	89.5%
0-90	685	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S7R835K10 • 14W LED, 80CRI, 3500K

Candela Curves



Angle	Mean CP	Lumens
0	639	60
5	632	
10	618	
15	597	167
20	558	
25	505	232
30	449	
35	399	249
40	345	
45	255	197
50	174	
55	120	111
60	88	
65	67	67
70	52	
75	40	42
80	28	
85	12	13
90	0	

Report: 965GFR

Output lumens: 1139lms
Spacing Criterion: 1.1
Beam Angle: 83°
Input Watts²: 13.5W

Efficacy: 84.4lm/w
CCT³: 3500K
CRI: 80min

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	26	5.5'
6'	18	6.6'
7'	13	7.7'
8'	10	8.8'
9'	8	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	28.6	3.74
6'	18.7	2.45
7'	13.3	1.75
8'	11.2	1.46
9'	8.9	1.17

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106
1	111	107	103	100	104	98	100	95	96	92	88
2	102	96	90	85	94	84	90	82	87	80	77
3	95	86	79	74	85	73	82	72	79	71	67
4	88	78	70	65	77	64	74	63	72	62	60
5	82	71	63	57	70	57	68	56	66	56	53
6	76	65	57	51	64	51	62	51	61	50	48
7	71	59	52	46	59	46	57	46	56	45	43
8	67	55	47	42	54	42	53	42	52	41	39
9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	47	35	46	35	45	35	33

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	459	40.3%
0-40	708	62.2%
0-60	1016	89.2%
0-90	1139	100.0%

CRI and CCT adjustment factors

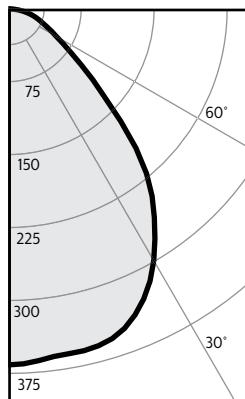
90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S5R840K7 • 10W LED, 80 CRI, 4000K

Candela Curves



Angle	Mean CP	Lumens
0	366	
5	363	
10	360	
15	359	101
20	350	
25	329	151
30	299	
35	262	163
40	221	
45	163	126
50	113	
55	79	72
60	57	
65	44	44
70	34	
75	25	27
80	16	
85	6	7
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	15	6.0'
6'	10	7.2'
7'	7	8.4'
8'	6	9.6'
9'	5	10.8'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	30.3	3.54
6'	19.8	2.32
7'	14.1	1.66
8'	11.8	1.38
9'	9.4	1.10

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	105	98	100	95	97	92	88
	2	102	96	90	85	94	84	90	82	87	80	77
	3	95	86	79	73	84	73	82	72	79	70	67
	4	88	78	70	64	76	64	74	63	72	62	60
	5	82	71	63	57	70	57	68	56	66	56	53
	6	76	64	57	51	64	51	62	50	60	50	48
	7	71	59	51	46	58	46	57	45	56	45	43
	8	67	54	47	42	54	41	53	41	51	41	39
	9	63	50	43	38	50	38	49	38	48	37	36
10	59	47	40	35	46	35	45	34	44	34	33	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	286	39.5%
0-40	450	62.0%
0-60	648	89.3%
0-90	726	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

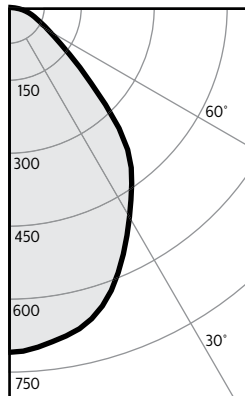
Report: 1057GFR

Output lumens: 726 lms
Spacing Criterion: 1.2
Beam Angle: 87°
Input Watts: 9.1W

Efficacy: 79.8 lm/w
CCT: 4000K
CRI: 80 min

S7R840K10 • 14W LED, 90 CRI, 2700K

Candela Curves



Angle	Mean CP	Lumens
0	710	
5	702	
10	686	
15	663	186
20	620	
25	560	258
30	499	
35	443	276
40	382	
45	283	218
50	193	
55	133	122
60	97	
65	74	74
70	57	
75	44	46
80	30	
85	14	15
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	28	5.5'
6'	20	6.6'
7'	14	7.7'
8'	11	8.8'
9'	9	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	30.3	4.17
6'	19.8	2.74
7'	14.1	1.96
8'	11.8	1.63
9'	9.4	1.30

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	104	98	100	95	96	92	88
	2	102	96	90	85	94	84	90	82	87	80	77
	3	95	86	79	74	85	73	82	72	79	71	67
	4	88	78	70	65	77	64	74	63	72	62	60
	5	82	71	63	57	70	57	68	56	66	56	53
	6	76	65	57	51	64	51	62	51	61	50	48
	7	71	59	52	46	59	46	57	46	56	45	43
	8	67	55	47	42	54	42	53	42	52	41	39
	9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	47	35	46	35	45	35	33	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	510	40.4%
0-40	786	62.3%
0-60	1127	89.3%
0-90	1262	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

Report: 963GFR

Output lumens: 1262 lms
Spacing Criterion: 1.1
Beam Angle: 83°
Input Watts: 13.4W

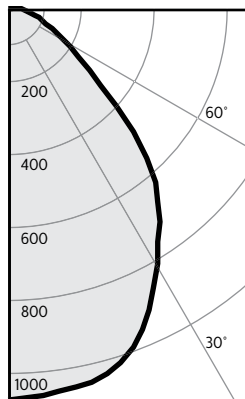
Efficacy: 94.2 lm/w
CCT: 4000K
CRI: 80 min

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S10R830K22 • 24W LED, 80CRI, 3000K

Candela Curves



Angle	Mean CP	Lumens
0	1027	97
5	1017	
10	1008	
15	992	279
20	947	
25	871	399
30	776	
35	685	429
40	597	
45	459	351
50	313	
55	223	204
60	161	
65	122	122
70	93	
75	70	74
80	46	
85	20	23
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	41	5.5'
6'	29	6.6'
7'	21	7.7'
8'	16	8.8'
9'	13	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	83.4	1.04
6'	54.8	0.68
7'	39.1	0.49
8'	32.6	0.41
9'	26.1	0.33

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	104	98	100	95	96	92	88
	2	102	95	90	85	93	84	90	82	87	80	76
	3	95	86	79	73	84	72	81	71	79	70	67
	4	88	77	70	64	76	63	74	63	71	62	59
	5	82	70	62	56	69	56	67	56	65	55	53
	6	76	64	56	50	63	50	61	50	60	49	47
	7	71	59	51	45	58	45	57	45	55	45	43
	8	66	54	46	41	53	41	52	41	51	41	39
	9	62	50	43	37	49	37	48	37	47	37	35
10	59	47	39	34	46	34	45	34	44	34	32	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	775	39.2%
0-40	1203	60.9%
0-60	1758	88.9%
0-90	1977	100.0%

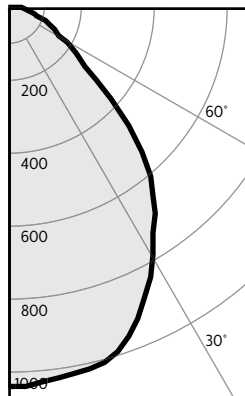
Report: S10R927K22BK

Output lumens: 1977 lms
Spacing Criterion: 1.1
Beam Angle: 87°
Input Watts²: 23.5W

Efficacy: 84.1lm/w
CCT³: 3000K
CRI: 80min

S10R835K22 • 24W LED, 80CRI, 3500K

Candela Curves



Angle	Mean CP	Lumens
0	1000	94
5	990	
10	981	
15	966	271
20	922	
25	847	388
30	754	
35	664	416
40	579	
45	442	339
50	300	
55	212	195
60	153	
65	117	117
70	89	
75	67	71
80	44	
85	20	22
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	40	5.5'
6'	28	6.6'
7'	20	7.7'
8'	16	8.8'
9'	12	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	80.8	1.06
6'	53.0	0.70
7'	37.9	0.50
8'	31.6	0.41
9'	25.2	0.33

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	104	98	100	95	96	92	88
	2	102	95	90	85	94	84	90	82	87	80	76
	3	95	86	79	73	84	72	81	71	79	70	67
	4	88	77	70	64	76	64	74	63	72	62	59
	5	82	70	62	57	69	56	67	56	65	55	53
	6	76	64	56	51	63	50	62	50	60	50	47
	7	71	59	51	45	58	45	57	45	55	45	43
	8	67	54	47	41	54	41	52	41	51	41	39
	9	62	50	43	38	50	38	49	37	48	37	35
10	59	47	39	35	46	34	45	34	44	34	32	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	754	39.4%
0-40	1170	61.2%
0-60	1703	89.0%
0-90	1913	100.0%

Report: 963GFR

Output lumens: 1913 lms
Spacing Criterion: 1.1
Beam Angle: 87°
Input Watts²: 23.9W

Efficacy: 80.0lm/w
CCT³: 3500K
CRI: 80min

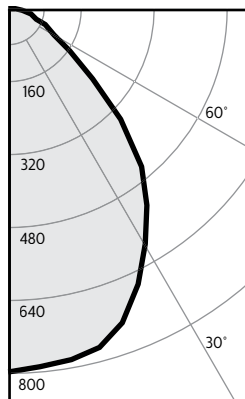
1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

S5R, S7R & S10R SlimSurface LED

Round 5", 7" and 10" Apertures

S10R927K22 • 23 W LED, 90 CRI, 2700 K

Candela Curves



Report: S10R927K22BK

Output lumens: 1493 lms
Spacing Criterion: 1.1
Beam Angle: 86°
Input Watts²: 22.8 W

Angle	Mean CP	Lumens
0	794	75
5	788	
10	781	
15	769	216
20	732	
25	669	307
30	595	
35	525	328
40	453	
45	344	265
50	238	
55	162	149
60	116	
65	87	87
70	66	
75	49	52
80	32	
85	13	15
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	32	5.5'
6'	22	6.6'
7'	16	7.7'
8'	12	8.8'
9'	10	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	63.3	1.01
6'	41.5	0.66
7'	29.7	0.47
8'	24.7	0.39
9'	19.8	0.32

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	105	98	100	95	97	93	88
	2	103	96	90	85	94	84	90	82	87	80	77
	3	95	86	79	74	85	73	82	72	79	70	67
	4	88	78	70	64	77	64	74	63	72	62	60
	5	82	71	63	57	70	57	68	56	66	56	53
	6	76	65	57	51	64	51	62	50	60	50	48
	7	71	59	51	46	58	46	57	45	56	45	43
	8	67	55	47	42	54	42	53	41	52	41	39
	9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	46	35	46	35	45	35	33	

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	598	40.0%
0-40	925	62.0%
0-60	1339	89.7%
0-90	1493	100.0%

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.





SPS-0462 REV A

CONOCO INTEGRATED LED SERIES

JOB NAME: _____ FIXTURE TYPE: _____



BLE - _____ - _____ - _____ - _____ - _____ - _____ - _____

A **B** **C** **D** **E** **F** **G**

 _____ - _____ - _____

H **I** **J**

Order Example: BLE - G - FCC12 - 600 - G11 - 980 - NA - NA - LED16 - 2700K - DL

A - MOUNTING STYLE

C Cord Hung
CN Chain Hung
F Flush Mount
G Gooseneck
S Stem Mount

B - SHADE SIZE

CONOCO:

FCC10
FCC12
FCC15

C - SHADE FINISHPORCELAIN FINISHES²:

150 Black
250 White
350 Vintage Green
355 Jadite
455 Cherry Red
550 Yellow
650 Bronze
750 Cobalt Blue
765 Delphite Blue
850 Graphite
950 Metallic Chrome

POWDER COAT FINISHES³:

100 Black
105 Textured Black
200 White
300 Dark Green
307 Emerald Green
311 Jadite
370 Mint
380 Chartreuse
390 Teal
400 Barn Red
420 Orange
470 Watermelon
480 Blush Pink
490 Magenta
495 Sherbet Orange
500 Buttery Yellow
570 Sunflower
600 Bronze
601 Chocolate
605 Rust
615 Oil-Rubbed Bronze
700 Royal Blue
705 Navy
710 Cobalt Blue
715 Delphite Blue

C - SHADE FINISH (CONTINUED)POWDER COAT FINISHES³:

790 Lavender
800 Industrial Grey
805 Charcoal Granite
810 Graphite
975 Galvanized

NATURAL METALS⁴:

995 Raw Copper
996 Weathered Copper
997 Raw Brass
998 Weathered Brass
999 Oil-Rubbed Copper

D - MOUNTING

Please Note: If Flush Mount [F] is selected in Section A, please select NA

NA Not Applicable

CSA LISTED CORDS:

SBK Standard Black
SWH Standard White
CSB Black Cloth
CSW White Cloth
CMG Grey Cloth
CSR Red Cloth
CRZ Red Chevron Cloth
CSBB Black & Brown Cloth
CSRW Red & White Cloth
CSGW Gold & White Cloth
CSBG Black & Gold Cloth
CSBW Black & White Cloth
CSBP Black & Pink Cloth
CSUW Blue & White Cloth

CHAIN MOUNT OPTIONS:

CN36 3' of Chain¹
CN48 4' of Chain¹
CN60 5' of Chain¹
CN72 6' of Chain¹

GOOSENECK OPTIONS:

G1'	G11'	G26'
G2'	G12'	G32
G3'	G13	G34'
G4	G14	G35'
G5'	G15	G36'
G6	G16'	G64'
G7	G17	G65'
G8	G22	
G9	G24	
G10	G25	

D - MOUNTING (CONTINUED)

STEM MOUNT OPTIONS:

ST506 .5" Stem Mount, 6"¹
ST512 .5" Stem Mount, 12"¹
ST518 .5" Stem Mount, 18"¹
ST524 .5" Stem Mount, 24"¹
ST536 .5" Stem Mount, 36"¹
ST548 .5" Stem Mount, 48"¹
ST706 .75" Stem Mount, 6"
ST712 .75" Stem Mount, 12"
ST718 .75" Stem Mount, 18"
ST724 .75" Stem Mount, 24"
ST736 .75" Stem Mount, 36"
ST748 .75" Stem Mount, 48"

E - MOUNTING FINISH

Please Note: See Section C for Finish Options. 980-Brushed Aluminum is also available for Gooseneck and Stem mounting styles. If a Porcelain shade finish is selected, mounting will be powder coat painted-to-match. Porcelain shade finishes are not available with a Natural Metal mounting finish
(I) If Cord Hung [C], selection identifies canopy finish
(II) If Chain Hung [CN] Mounting Style, selection identifies chain and canopy finish. Natural Metals are not applicable
(III) If Stem Mount [S] Mounting Style, selection identifies stem and canopy finish
(IV) If Flush Mount [F] Mounting Style, selection identifies hex coupler and canopy finish. Natural Metals are not applicable

980 Brushed Aluminum

F - CORDS⁵

NA Not Applicable

Please Note: See Section D for all applicable CSA Listed Cord Options

G - MOUNTING ACCESSORY

Please Note: Mounting Accessories below are only applicable with select Mounting Styles. Please refer to product listings on our website for further detail.

NA None/Not Applicable
HSC Hang Straight Canopy¹⁶
LDBPC LED Decorative Backing Plate Cover⁷
LDCHX LED Decorative Backing Plate Cover & Hex Cover⁷

H - LIGHT SOURCE

LED11 850 Lumen, 11W LED
LED16 1250 Lumen, 16W LED
LED27 2000 Lumen, 27W LED

I - COLOR TEMPERATURE

2700K 2700K, Warm White
3000K 3000K, Neutral White
3500K 3500K, Bright White
4000K 4000K, Cool White

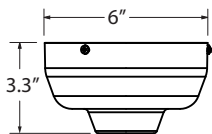
J - LED LENS

DL Domed Lens
FL Flat Lens

IMPORTANT: (1) Not available in Natural Metals (2) All Porcelain Enamel finished shades feature a white interior and a black outer rim (3) All Powder Coat finished shades, Galvanized excluded, feature a white interior (4) Natural Metals have a longer estimated manufacturing time, please check the website for exact lead time. There are no returns accepted on Natural Metals (5) Only applicable if Chain Hung mounting style selected in Section A, select NA (6) Only applicable if Stem Mounting Style is selected in Section A (7) Not available with G36 Gooseneck option

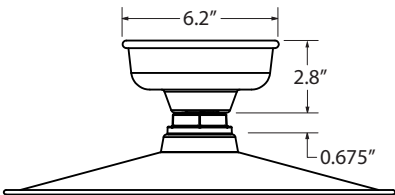
MOUNTING STYLE

HIGH LUMEN CANOPY
FOR PENDANT & FLUSH MOUNT



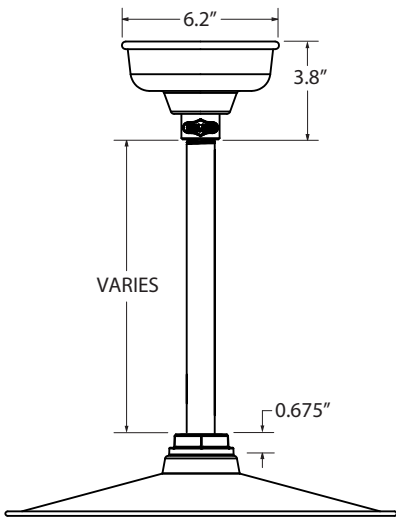
Required if LED 27 Light Source
selected in Section H

FLUSH MOUNT (F)



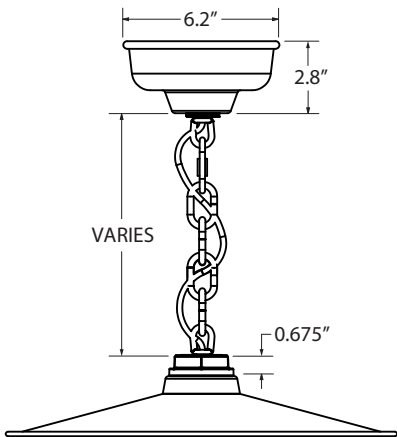
Canopy shown required if LED 11 & 16 Light Source
selected in Section J

STEM MOUNT PENDANT (S)



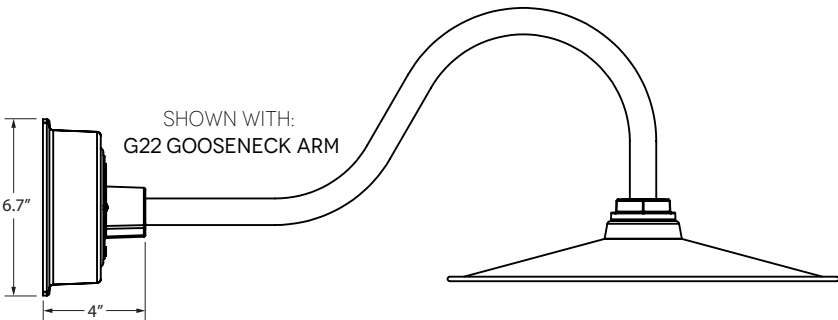
Canopy shown required if LED 11 & 16 Light Source
selected in Section J

CHAIN HUNG PENDANT (CN)

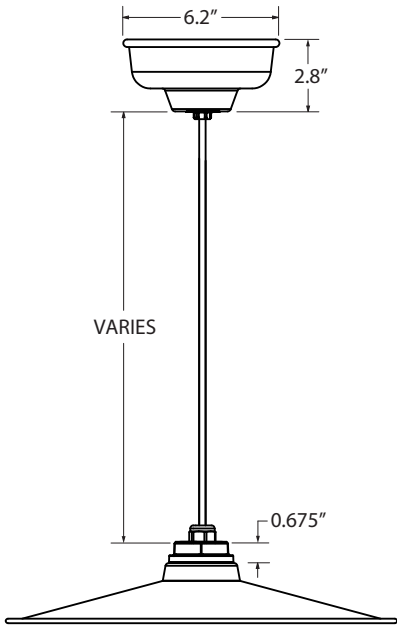


Canopy shown required if LED 11 & 16 Light Source
selected in Section J

GOOSENECK (G)

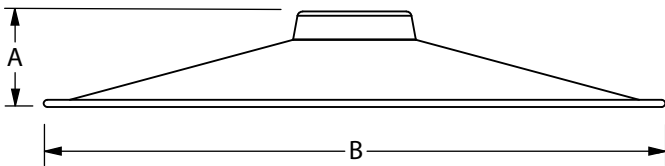


CORD HUNG PENDANT (C)



Canopy shown required if LED 11 & 16 Light Source
selected in Section J

LUMINAIRE DIMENSIONS



SHADE CODE	HEIGHT (A)	DIAMETER (B)
FCC10	1.75"	10"
FCC12	1.75"	12"
FCC15	2.25"	15"

SPECIFICATIONS**LED 11, 16, 27 LIGHT SOURCE**

LED TYPE: CREE LMH2 MODULE

INITIAL LUMENS DELIVERED: UP TO 2000 LUMENS

L90(6K) > 36,300 HOURS

AVAILABLE CCT: 2700K, 3000K, 3500K, 4000K
Custom Temperatures Available upon Request

90+ CRI

2 STEP MACADAMS ELLIPSE

EFFICACY: UP TO 93 LPW

High Efficacy Available upon Request, Consult Factory for Additional Information**DIMMING**

LED 11 & 16

Triac Dimming at 100-120VAC, Able to Dim down to 5%.
Dependent on Specific Dimmer.
0-10V & ELV Dimming Available upon Request.

LED 27

0-10V Dimming, Able to Dim down to 10%.
Dependent on Specific Dimmer.
Triac & ELV Dimming Available upon Request.TRIAC & ELV DIMMING AT 230 VAC
Available by Request

COMPATIBLE DIMMERS

Consult Factory for Additional Information on Dimming**LED 27 ELECTRICAL/LED DRIVER**

DRIVER TYPE: LMD400

DRIVE CURRENT: 940mA

POWER FACTOR > 0.95

EFFICIENCY: UP TO 81% TYPICAL

INPUT VOLTAGE: 120-277 VAC (SEE DIMMING SECTION)

CLASS 2 POWER SUPPLY

LED DRIVER LIFETIME: > 50,000 HOURS (@ 25 DEG C AMBIENT)

CONDUCTED AND RADIATED EMI

Compliant with FCC CFR Title 47 Part 15 Class B (120 VAC), Class A (277 VAC) and EN55015 (CISPR 15) at 230 VAC**CERTIFICATIONS, LISTINGS & WARRANTY**

MADE IN THE USA

Manufactured and Hand-Crafted in Our 60,000 Square Foot Facility Located in Titusville, FL

CSA LISTED FOR WET LOCATIONS

Includes All Gooseneck, Stem and Flush Mounting Styles

CSA LISTED FOR DAMP LOCATIONS

Includes All Chain and Select Cord Hung Mounting Styles

LIMITED WARRANTY

For Additional Information on Our Limited Warranty, Please See Our Terms & Conditions

OPERATING TEMPERATURE

-30°C to 40°C**LED 11, 16 ELECTRICAL/LED DRIVER**

DRIVER TYPE: LMD125

DRIVE CURRENT: 440mA

POWER FACTOR > 0.9

EFFICIENCY: UP TO 81% TYPICAL

INPUT VOLTAGE: 100-120 VAC (SEE DIMMING SECTION)

CLASS 2 POWER SUPPLY

LED DRIVER LIFETIME: > 50,000 HOURS (@ 25 DEG C AMBIENT)

CONDUCTED AND RADIATED EMI

Compliant with FCC CFR Title 47 Part 15 Class B (120 VAC), Class A (277 VAC) and EN55015 (CISPR 15) at 230 VAC**SHADE & FINISHES**

POWDER COAT SHADE

Hand-Spun from High Purity 0.050" Thick 3003-O Temper Aluminum

PORCELAIN SHADE

Hand-Spun from 20 Gauge Sheet Metal

POWDER COAT FINISHES

Polyester Powder Coat Finishes Are Electro-Statically Applied and Thermocured

PORCELAIN FINISHES

Applied by Hand and Fired in a High Temperature Oven

COPPER

Hand-Spun from High Purity .032 Thick C11000-O60 ETP Copper

BRASS

Hand-Spun from High Purity .050" Thick C2600-O60 Brass**MOUNTING**

STEM

1/2" Nominal (0.84" Actual) or 3/4" Nominal (1.05" Actual) Sch 40, 6063 Aluminum Mounting Stem. Custom Lengths Available upon Request.

GOOSENECK

1/2" Nominal (0.84" Actual) or 3/4" Nominal (1.05" Actual) Sch 40, 6063 Aluminum Gooseneck

CORD

Cord-Hung Pendants Include 7' of Standard Cord or 5' of Cloth Cord, +/- For Socket Orientation

CHAIN

4-Gauge Chain Complete with Quick Link for On-Site Adjustments to Chain's Length

MAX FIXTURE WEIGHT

10 lbs

Burlington Design Advisory Board

Department of Permitting and Inspections

645 Pine Street

Burlington, VT 05401

<http://www.burlingtonvt.gov/DPI/Boards/Design-Advisory-Board/>

Telephone: (802) 865-7188

*Eric Morrow, Chair
Matt Bushey, Vice Chair
Ron Wanamaker
Karyn Norwood
Emily Morse
Jay White, Alternate
Kathleen Ryan, Alternate*



DESIGN ADVISORY BOARD

Tuesday February 9, 2021

Remote Meeting via Zoom

Present: Matt Bushey, Ron Wanamaker, Emily Morse, Jay White (alternate).

Absent: Eric Morrow, Karyn Norwood, Kathleen Ryan (alternate.)

Staff present: Mary O'Neil, Ryan Morrison

Applicants and guests present:

Kelley Desroches (Wiehman Lanphere), Todd Sarandos, Jay Buermann, Shannon ?.

Session I – 3:00 PM – 3:30 PM

1. 21-0641CA; 2-14 King Street (DW-PT, Ward 3C) Lake Champlain Transportation Company

Renovation to existing building to demo bathrooms to increase outdoor bar within existing footprint and add interior partitions to create new office and storage room.

Construct new bathroom building with stairs and access ramp.

Motion by: Matthew Bushey: I move we accept the project, with the following recommendations:

1. The applicant control rainwater on the south side of the building; and
2. Design the bathrooms that when doors open, toilets are not visible.

2nd: Emily Morse

Vote: 4-0

Motion carries.