Lake Champlain Transportation Co.

1 King Street Dock

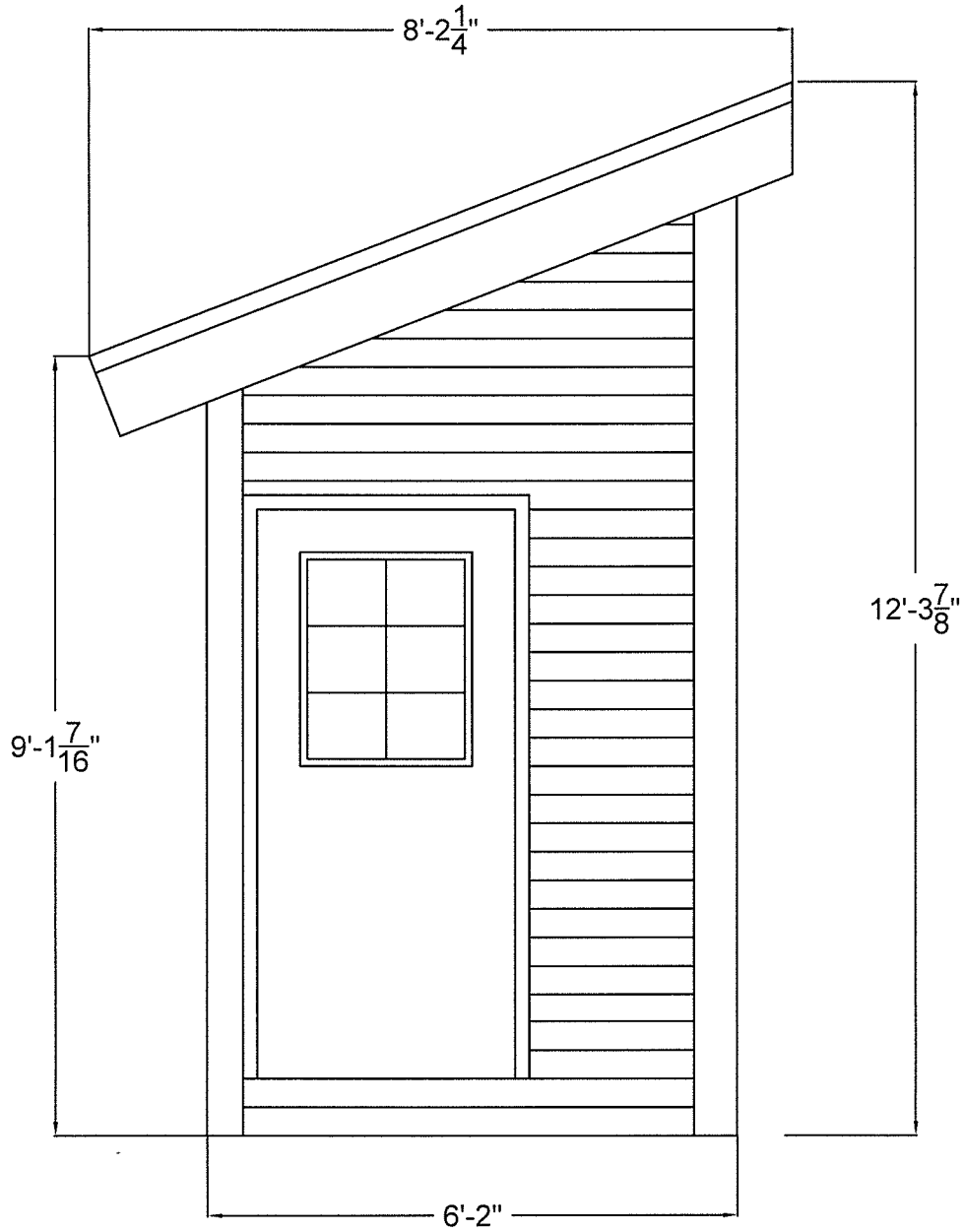
Burlington, VT 05401

RECEIVED
JAN 27 2016
DEPARTMENT OF
PLANNING &

New ticket booth to be constructed as follows:

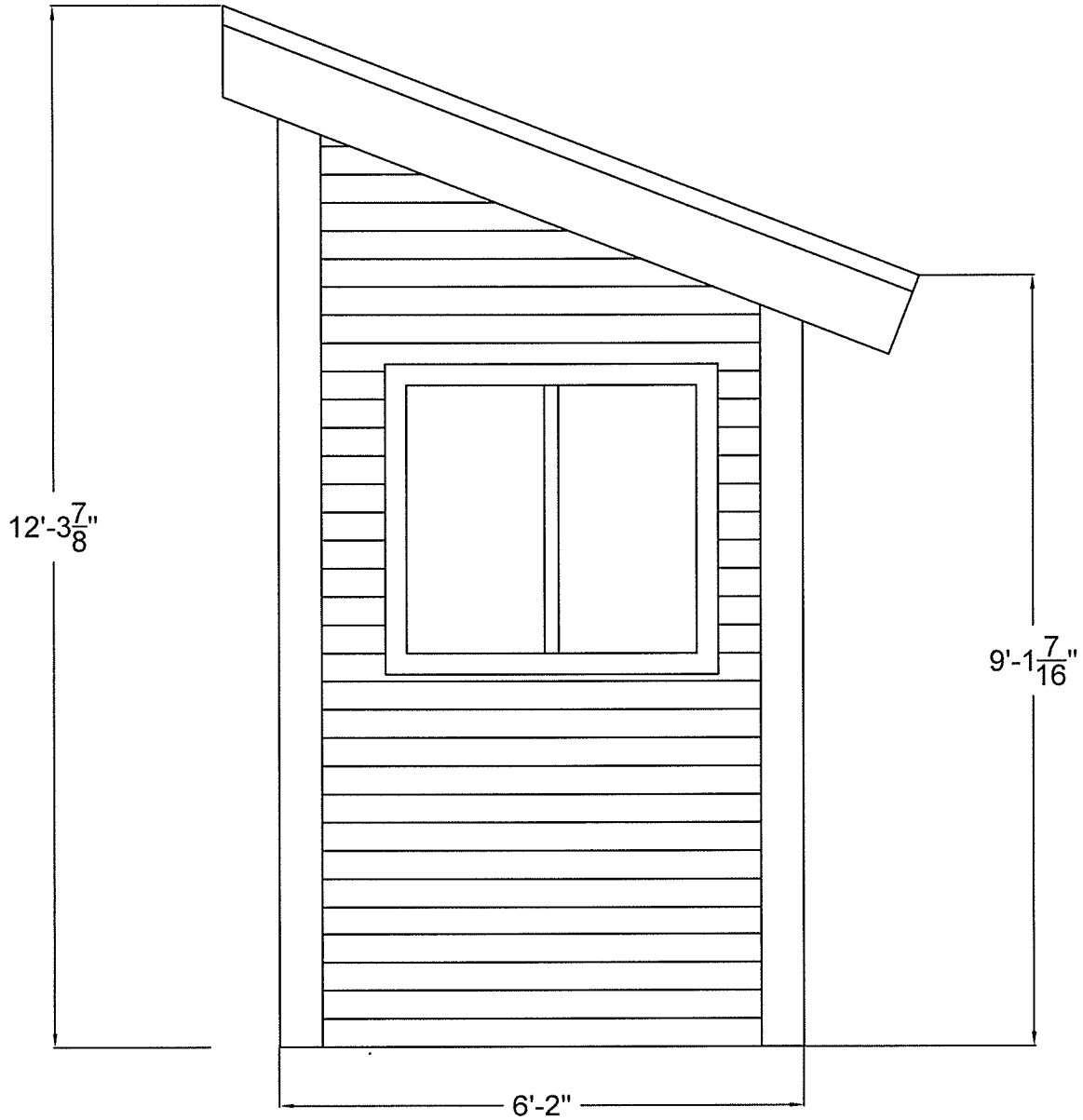
1. 2x4 Construction
2. R-15 Wall Insulation
3. R-30 Floor and Ceiling Insulation
4. White Vinyl Siding
5. White PVC Trim
6. Charcoal Grey tin roofing

LAKE CHAMPLAIN TRANSPORTATION CO.
KING STREET DOCK
BURLINGTON, VT
802-864-9804
TICKETBOOTH ELEVATION DRAWINGS



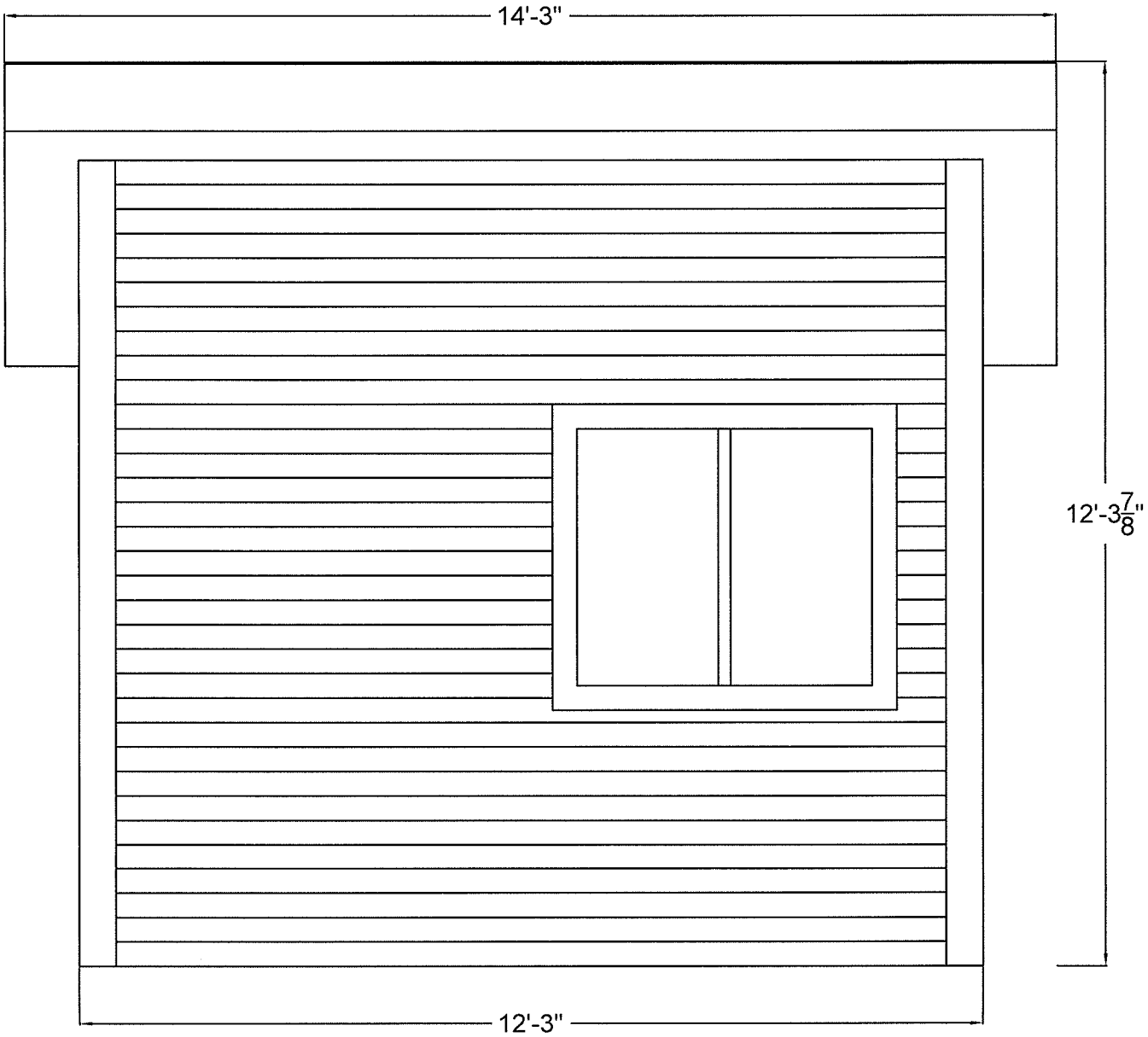
RECEIVED
JAN 27 2016
DEPARTMENT OF
PLANNING & ZONING

LAKE CHAMPLAIN TRANSPORTATION CO.
KING STREET DOCK
BURLINGTON, VT
802-864-9804
TICKETBOOTH ELEVATION DRAWINGS



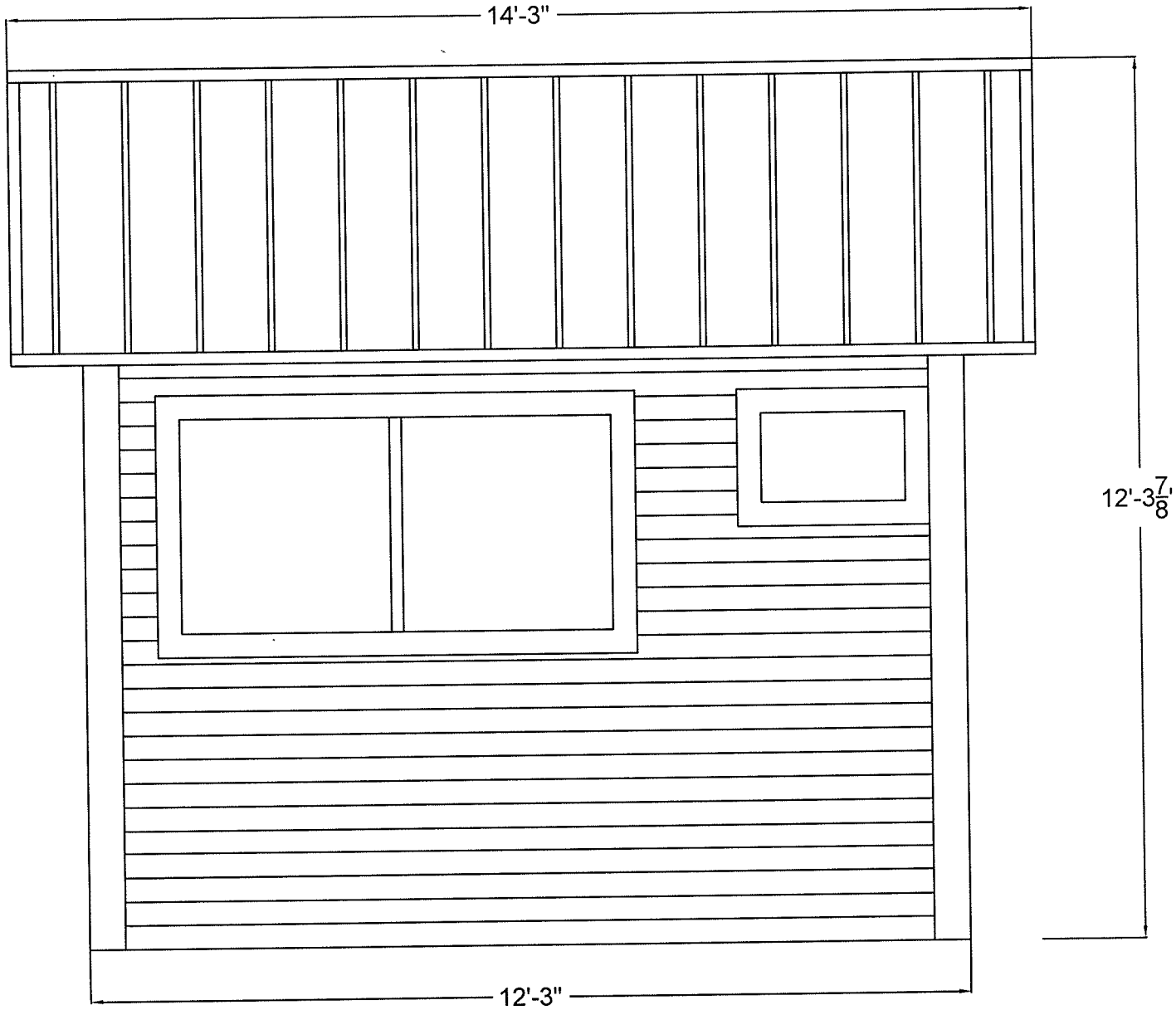
RECEIVED
JAN 27 2016
DEPARTMENT OF
PLANNING & ZONING

LAKE CHAMPLAIN TRANSPORTATION CO.
KING STREET DOCK
BURLINGTON, VT
802-864-9804
TICKETBOOTH ELEVATION DRAWINGS



RECEIVED
JAN 27 2016
DEPARTMENT OF
PLANNING & ZONING

LAKE CHAMPLAIN TRANSPORTATION CO.
KING STREET DOCK
BURLINGTON, VT
802-864-9804
TICKETBOOTH ELEVATION DRAWINGS



RECEIVED
JAN 27 2015
DEPARTMENT OF
PLANNING

Ryan Morrison

From: Chris Burke <ChrisB@ferries.com>
Sent: Wednesday, February 24, 2016 12:21 PM
To: Ryan Morrison
Subject: RE: King Street - Burlington - Ticket Booth Replacement

He Ryan,

The 2800 is the sliding version of the single hung 2900 series as far as I can tell. It is the South facing window of the booth. The thermal properties are on page 7 of the thermal attachment.

The Simonton window is the West facing window. The specs are section 2.5 of the Simonton attachment which are pages 9-11.

The Read Access window will be the window on the North of the building which will be used to actually sell tickets. It is window similar to one at any fast food drive through.

Let me know if you have any other questions.
Thanks,

Christopher Burke
Engineer
Lake Champlain Transportation Co.
King Street Dock
Burlington, VT 05401
T: 802.864.9804
F: 802.864.6830
chrisb@ferries.com

From: Ryan Morrison [rmorrison@burlingtonvt.gov]
Sent: Wednesday, February 24, 2016 9:15 AM
To: Chris Burke
Subject: RE: King Street - Burlington - Ticket Booth Replacement

Thanks Chris. I believe I found the necessary pages for the Silverline windows (2900 series single-hung sliding window?), but can you tell me which pages in the thermal energy .pdf are applicable? And then same for the Simonton window?

Also, what is the Ready Access manual for? Is a pass-thru window being proposed? Because I don't see one on the elevation drawings.

From: Chris Burke [mailto:ChrisB@ferries.com]
Sent: Tuesday, February 23, 2016 3:01 PM
To: Ryan Morrison <rmorrison@burlingtonvt.gov>
Subject: FW: King Street - Burlington - Ticket Booth Replacement

I apologize. I forgot the attachments.

Christopher Burke
Engineer
Lake Champlain Transportation Co.
King Street Dock
Burlington, VT 05401

Lastly, regarding the SFHA requirements, you noted that the booth will be designed to be moved in case of flood. This is my first project with the Burlington DRB, so I'm not sure how they may view this option as opposed to the standard regulations that non-residential structures be either elevated or floodproofed/watertight to one foot or more above BFE... I will be putting those standard conditions in my recommended conditions of approval. Just wanting to make sure you're aware of this. Thanks Chris.

Ryan Morrison, CFM
Associate Planner
City of Burlington
802-865-7190

From: Chris Burke [mailto:ChrisB@ferries.com]
Sent: Monday, February 22, 2016 3:13 PM
To: Ryan Morrison <rmorrison@burlingtonvt.gov>
Subject: RE: King Street - Burlington - Ticket Booth Replacement

Hello Ryan,

Here are answers to questions in our previous conversation as well as your previous email.

1. The existing booth has existed in some form or another since 1825. I believe the last rebuild was sometime in the early 1980's (possibly 1981, I could probably find an exact year if necessary). The current booth is 2x4 construction with wood clapboard siding. It has an off center height of 114", with a 12/12 pitch to the North and a 7/12 pitch to the South.

2. The footprint of the new booth is slightly larger than the existing booth. The existing booth has base dimensions of 69" x 135". The existing and future booths sit on asphalt so the impervious surface area will not change.

3. As discussed this afternoon, signage will remain approximately the same. With the door being moved to the East side of the building, away from traffic for safety, a few of the signs will move locations slightly. Also, the Department of Homeland Security required Maritime Security Level sign, which is currently on an a-frame sign just off the side of the building, may be attached to the new building.

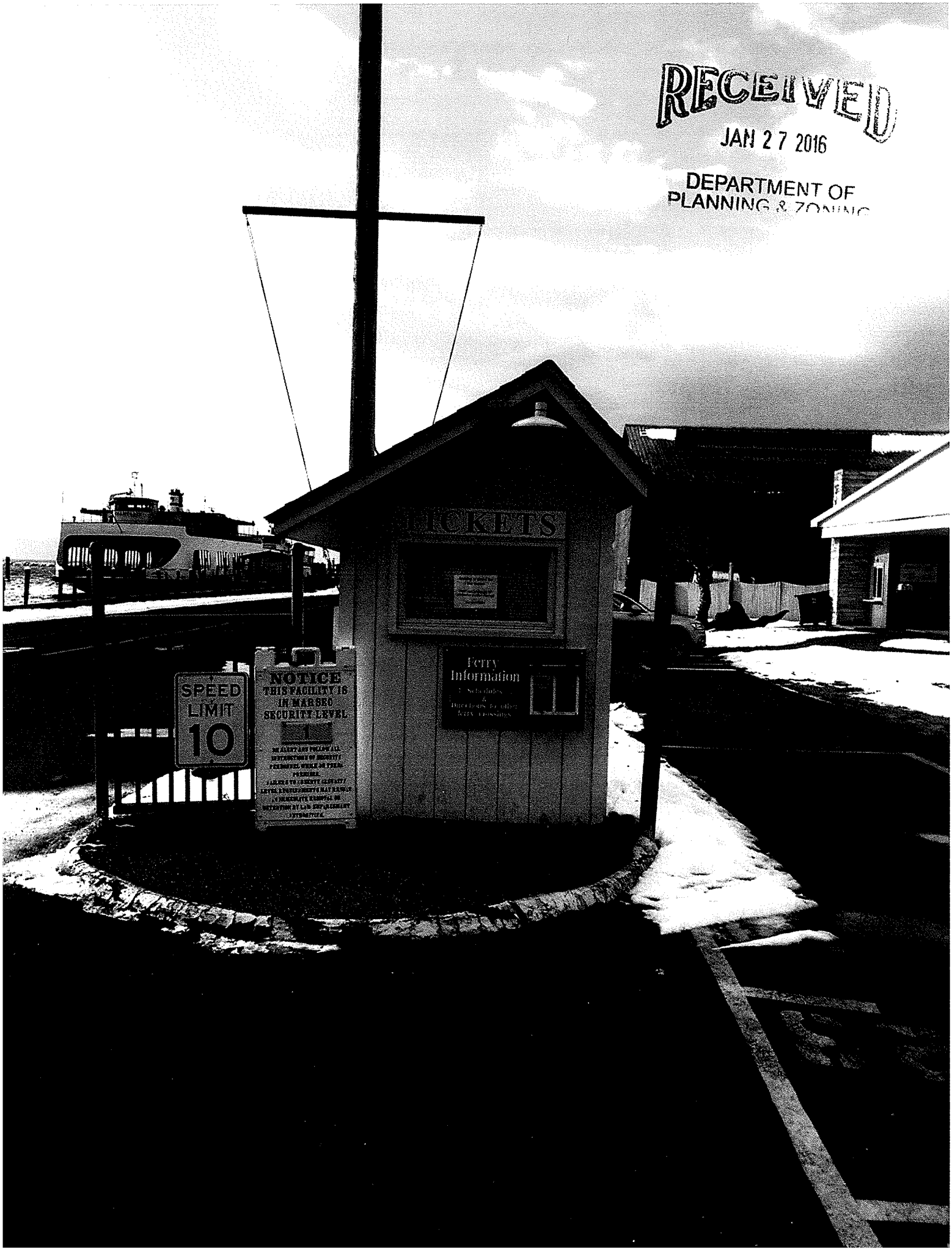
4. The existing booth sits 53.2' from the high water mark. The future booth will be slightly closer due to the footprint being slightly larger, but it will remain at least 50' from this mark.

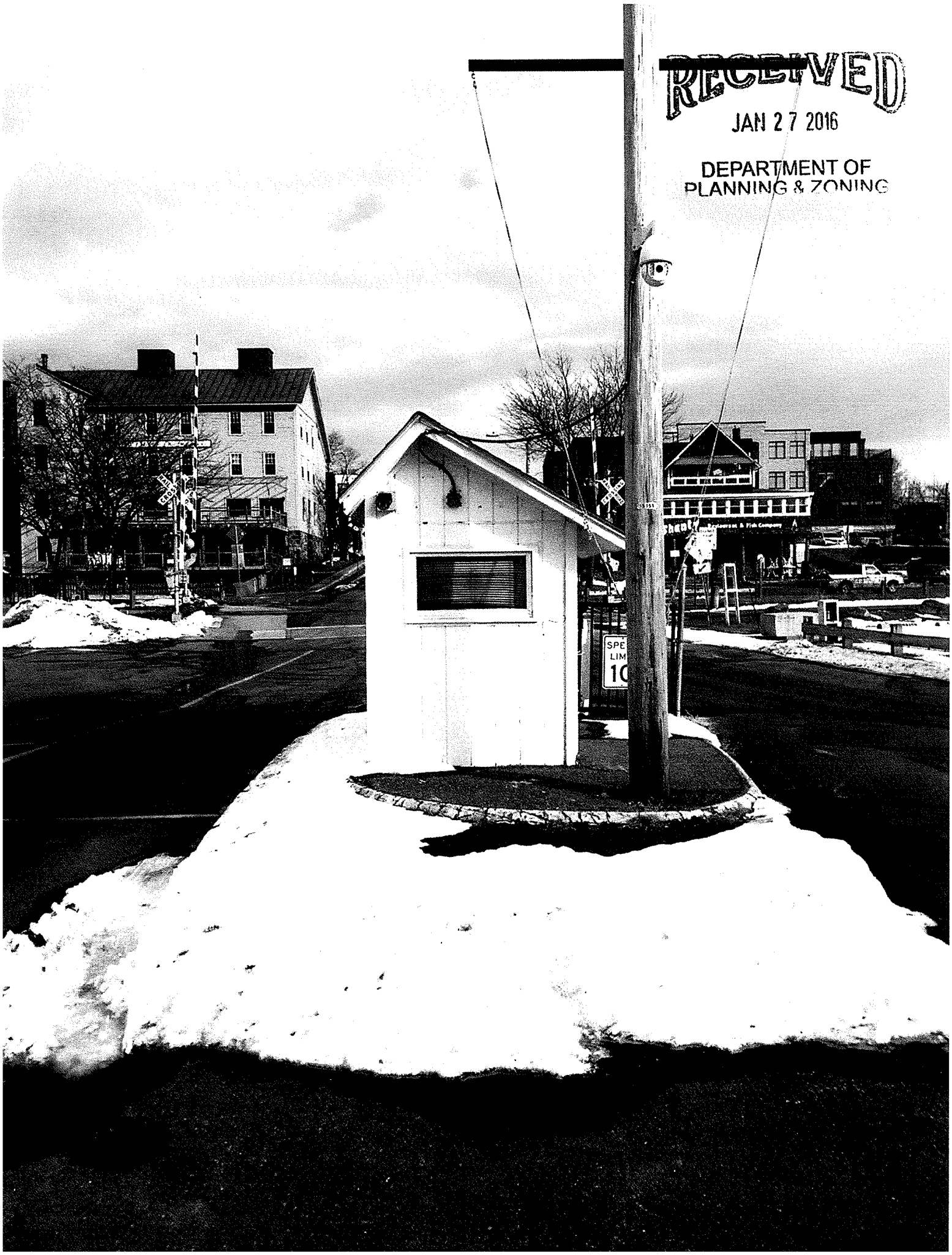
5. Our survey shows the 101' contour line runs right through the booth. The booth sits up on an approximately 4" island above this mark. Either way the booth sits slightly below 102'. When the lake level is above flood level, the ferry crossing closes and the booth is not needed. Therefore, the booth has been specifically designed to be movable whenever the lake is above flood level to avoid contamination and moisture issues. Electrical supply is designed to be easily disconnected and locked out at the sub panel. Lake Champlain Transportation has the equipment on site to move the booth to higher ground or to block it up above the flood plane on short notice.

I will have to get back to you tomorrow on the cut sheets for the windows. If you have any other questions please feel free to email me or call me. You are more likely to reach me on my cell (802) 318-6408 than in the office. Thanks,

Christopher Burke
Engineer
Lake Champlain Transportation Co.
King Street Dock
Burlington, VT 05401
T: 802.864.9804
F: 802.864.6830
chrisb@ferries.com

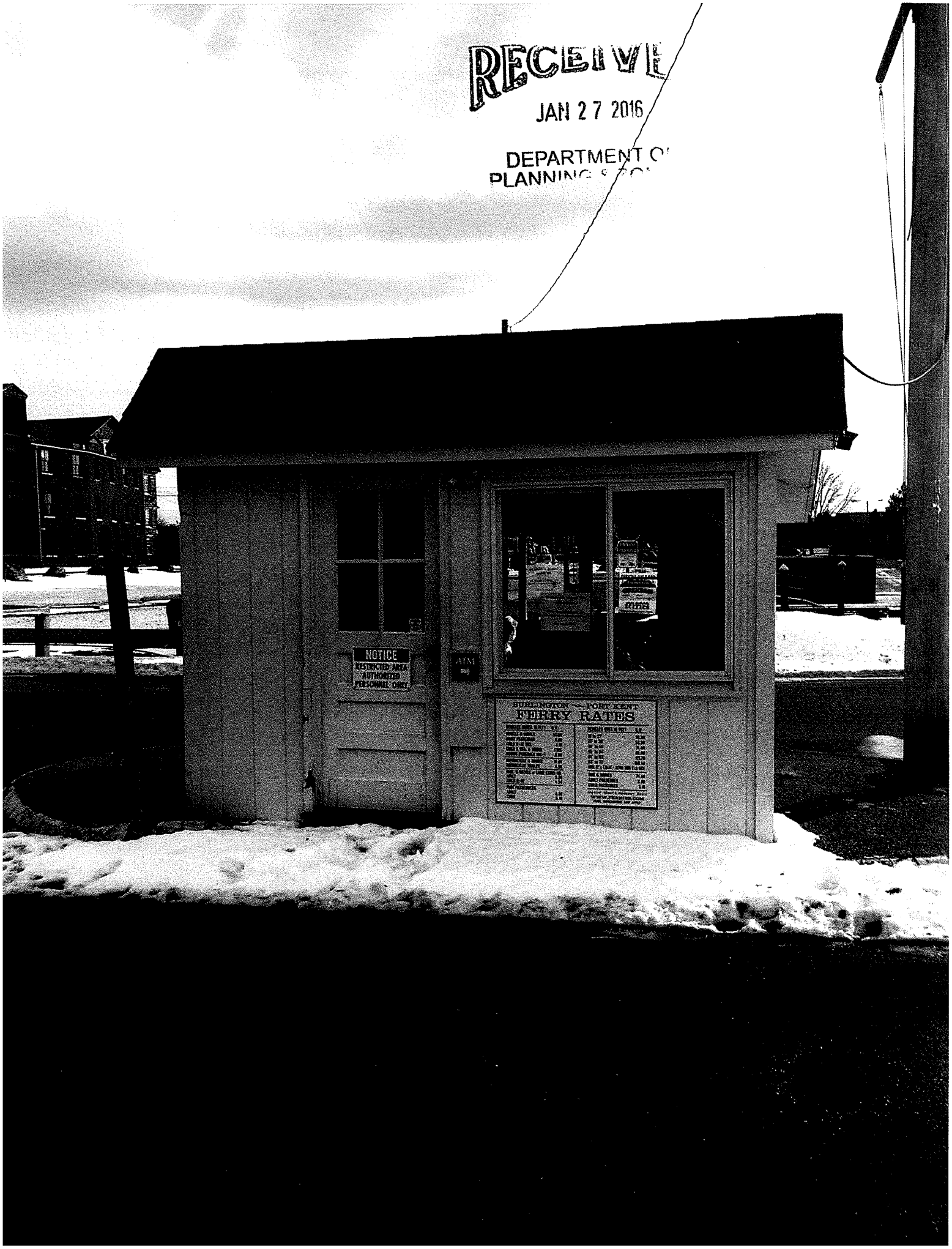
RECEIVED
JAN 27 2016
DEPARTMENT OF
PLANNING & ZONING

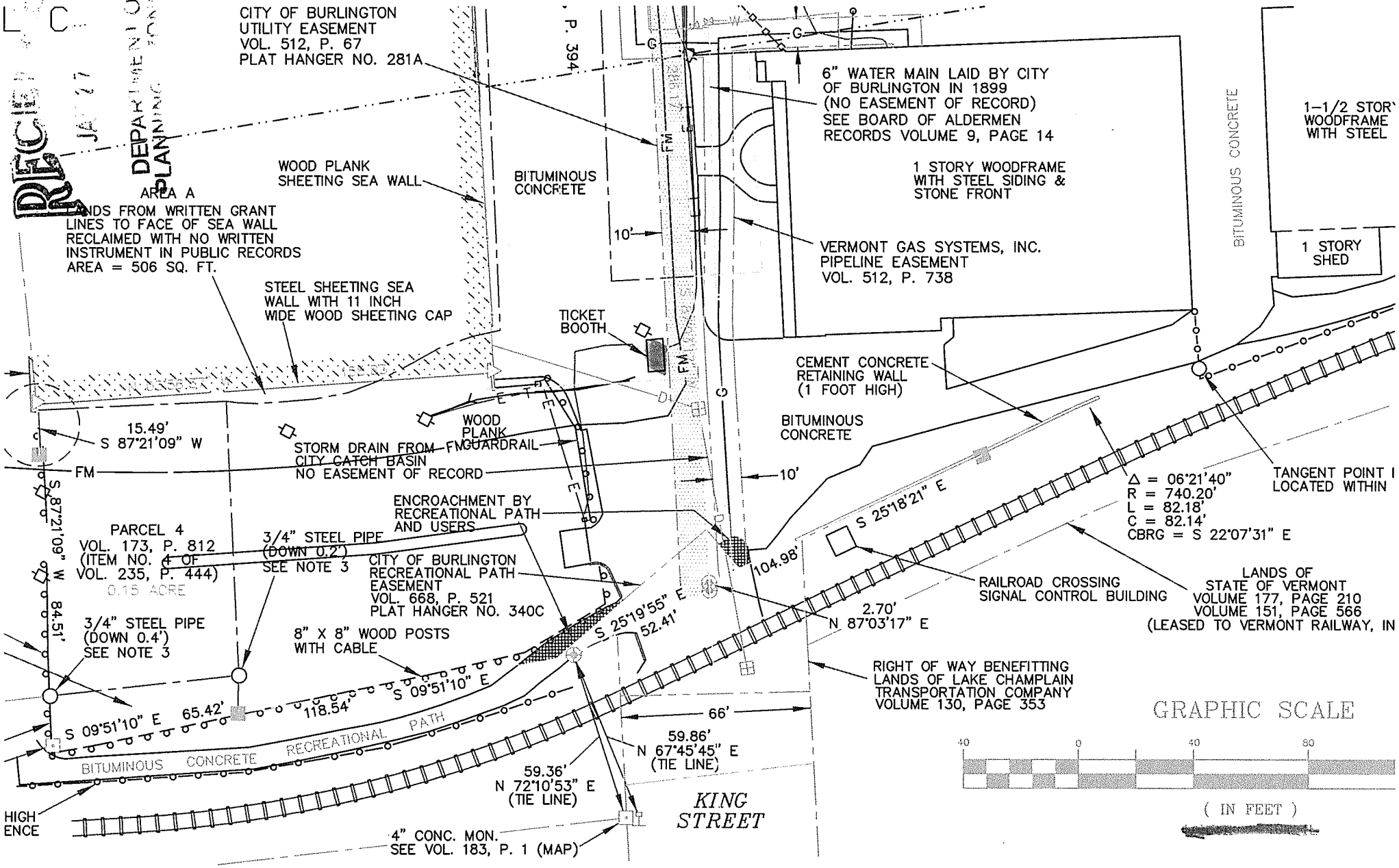




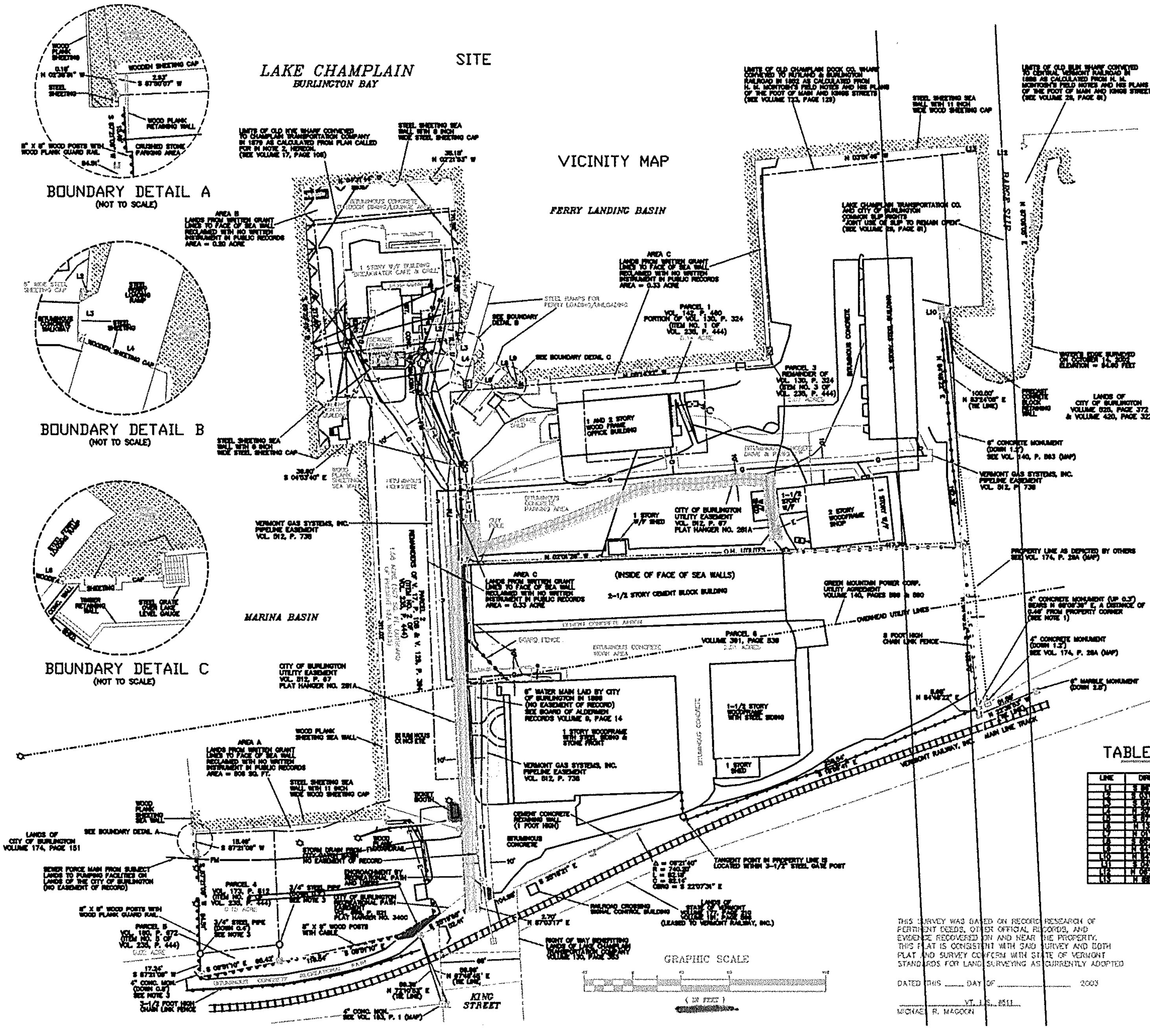
RECEIVED
JAN 27 2016
DEPARTMENT OF
PLANNING & ZONING

RECEIVE
JAN 27 2016
DEPARTMENT O
PLANNING




CITY OF BURLINGTON
UTILITY EASEMENT
VOL. 512, P. 67
PLAT HANGER NO. 281A
6" WATER MAIN LAID BY CITY
OF BURLINGTON IN 1899
(NO EASEMENT OF RECORD)
SEE BOARD OF ALDERMEN
RECORDS VOLUME 9, PAGE 14
1 STORY WOODFRAME
WITH STEEL SIDING &
STONE FRONT
1-1/2 STOR
WOODFRAME
WITH STEEL
BITUMINOUS CONCRETE
1 STORY
SHED
WOOD PLANK
SHEETING SEA WALL
BITUMINOUS
CONCRETE
AREA A
LANDS FROM WRITTEN GRANT
LINES TO FACE OF SEA WALL
RECLAIMED WITH NO WRITTEN
INSTRUMENT IN PUBLIC RECORDS
AREA = 506 SQ. FT.
10'
VERMONT GAS SYSTEMS, INC.
PIPELINE EASEMENT
VOL. 512, P. 738
STEEL SHEETING SEA
WALL WITH 11 INCH
WIDE WOOD SHEETING CAP
TICKET
BOOTH
CEMENT CONCRETE
RETAINING WALL
(1 FOOT HIGH)
15.49'
S 87°21'09" W
WOOD
PLANK
GUARDRAIL
BITUMINOUS
CONCRETE
STORM DRAIN FROM
CITY CATCH BASIN
NO EASEMENT OF RECORD
FM
10'
Δ = 06°21'40"
R = 740.20'
L = 82.18'
C = 82.14'
CBRG = S 22°07'31" E
TANGENT POINT I
LOCATED WITHIN
ENCROACHMENT BY
RECREATIONAL PATH
AND USERS
S 25°18'21" E
PARCEL 4
VOL. 173, P. 812
(ITEM NO. 4 OF
VOL. 235, P. 444)
0.15 ACRE
3/4" STEEL PIPE
(DOWN 0.2')
SEE NOTE 3
CITY OF BURLINGTON
RECREATIONAL PATH
EASEMENT
VOL. 668, P. 521
PLAT HANGER NO. 340C
104.98'
RAILROAD CROSSING
SIGNAL CONTROL BUILDING
LANDS OF
STATE OF VERMONT
VOLUME 177, PAGE 210
VOLUME 151, PAGE 566
(LEASED TO VERMONT RAILWAY, IN
S 87°21'09" W
84.51'
3/4" STEEL PIPE
(DOWN 0.4')
SEE NOTE 3
8" X 8" WOOD POSTS
WITH CABLE
S 25°19'55" E
52.41'
2.70'
N 87°03'17" E
S 09°51'10" E
65.42'
118.54'
S 09°51'10" E
RIGHT OF WAY BENEFITTING
LANDS OF LAKE CHAMPLAIN
TRANSPORTATION COMPANY
VOLUME 130, PAGE 353
66'
GRAPHIC SCALE
40
0
40
80
(IN FEET)
BITUMINOUS CONCRETE RECREATIONAL PATH
59.86'
N 67°45'45" E
(TIE LINE)
59.36'
N 72°10'53" E
(TIE LINE)
KING
STREET
HIGH
ENCE
4" CONC. MON.
SEE VOL. 183, P. 1 (MAP)

RECEIVED
JAN 27 2016
DEPARTMENT OF PLANNING & ZONING



NOTES

1. SEE RECORD OF SURVEY ENTITLED " BOUNDARY SURVEY LANDS OF AND LANDS TO BE CONVEYED TO THE CITY OF BURLINGTON COLLEGE STREET BURLINGTON, VERMONT" PREPARED BY KREBS & LANSING CONSULTING ENGINEERS, INC. DATED MARCH 30, 1990 AND FILED IN PLAT HANGER NO. 3038 OF THE BURLINGTON LAND RECORDS.
2. SEE PLAN ENTITLED "SKETCH OF PORTION OF NYE ESTATE PROPERTY OF CHAMPLAIN TRANSPORTATION CO. BURLINGTON, VT." DATED NOVEMBER 1879.
3. SEE RECORD OF SURVEY ENTITLED "PROPERTY SURVEY FOR LAKE CHAMPLAIN TRANSPORTATION CO. BURLINGTON, VERMONT" PREPARED BY HARVELL ASSOC. INC. DATED MAY 1966 AND FILED IN VOLUME 176, PAGE 513 OF THE BURLINGTON LAND RECORDS.
4. SEE RAILROAD LOCATION PLANS ENTITLED "STATION MAP-LANDS RUTLAND RAILROAD OPERATED BY THE RUTLAND RAILROAD COMPANY MAIN LINE FROM STATION 6300+00 TO STATION 6441+64" PREPARED BY THE OFFICE OF THE VALUATION ENGINEER DATED JUNE 30, 1917, RE-DATED JANUARY 1, 1964, SHEET V2/S-L122 AND FILED IN THE BURLINGTON CITY CLERK'S RECORDS.
5. SEE PLAN ENTITLED "RUTLAND RAILROAD BURLINGTON, VT. LAND TO BE ACQUIRED OF CHAMPLAIN TRANSPORTATION CO." DATED MARCH 23, 1915.
6. RAILROAD SIDELINE INFORMATION, SHOWN HEREON, IS BASED ON THE ACTUAL LOCATION OF THE CENTER LINES OF KING AND BATTERY STREETS, DEED DESCRIPTIONS OF SAID SIDELINE, AND DEED DESCRIPTIONS OF THE INTERSECTING SUBJECT PROPERTY LINES, AND DIFFERS SLIGHTLY FROM DATA SHOWN ON RAILROAD LOCATION MAPS.
7. KING STREET WAS DEDICATED, BY THE PROPRIETORS OF THE TOWN OF BURLINGTON, EXTENDING TO THE WATERS OF LAKE CHAMPLAIN. A RESURVEY IN 1813 AFFIRMS THE WEST TERMINUS TO BE THE EDGE OF THE WATERS OF THE LAKE (SEE RECORDS OF ROADS VOLUME 1, PAGE 20). THE ARTIFICIAL LANDS LYING WEST OF THE TERMINUS OF KING STREET MAY BE SUBJECT TO AN EASEMENT FOR THE PUBLIC TO ACCESS NAVIGABLE WATERS.
8. AFTER A FOUR YEAR LITIGATION CONCERNING ALLEGED OBSTRUCTIONS INTO THE AREA BETWEEN THE WESTERLY EXTENSIONS OF THE NORTH AND SOUTH SIDELINES OF KING STREET, BY CHAMPLAIN TRANSPORTATION CO. AND SHEPARD & MORSE LUMBER CO., THE CITY, BY VOTE OF THE BOARD OF ALDERMEN ON FEBRUARY 1, 1904, DROPPED PROSECUTION AT THE MARCH TERM, 1904, OF THE CHITTENDEN COUNTY COURT, VIZ:

   "RESOLVED THAT THE ATTORNEYS EMPLOYED BY THE CITY TO ASSIST IN THE PROSECUTION AGAINST THE CHAMPLAIN TRANSPORTATION CO. AND SHEPARD & MORSE LUMBER CO. BE INSTRUCTED TO ASK THE STATES ATTORNEY OF CHITTENDEN COUNTY TO ENTER A NOL. PROS IN SAID PROSECUTIONS AT THE PRESENT TERM OF THE CHITTENDEN COUNTY COURT...RESOLVED THAT IN VIEW OF THE RECENT AMENDMENTS TO THE CITY CHARTER, AUTHORIZING THE CITY TO ACQUIRE AND MAINTAIN A PUBLIC DOCK ON THE LAKE FRONT OR AT THE FOOT OF CERTAIN STREETS, THAT THE FURTHER PROSECUTION OF THE CHAMPLAIN TRANSPORTATION CO. AND SHEPARD & MORSE LUMBER CO. FOR CLAIMED OBSTRUCTIONS AT THE FOOT OF KING STREET, BE ABANDONED, AND THAT THE FURTHER EMPLOYMENT OF COUNSEL FOR THAT PURPOSE BE DISCONTINUED..."
9. SECTION 3.4.1 OF THE CITY OF BURLINGTON ZONING ORDINANCE DESCRIBES CERTAIN PROPOSED EASEMENTS AS FOLLOWS:

   "a. A pedestrian easement thirty (30) feet in width along the center line of Main Street extended to Lake Champlain west of the Union Station building;

   b. A waterfront pedestrian easement fifty (50) feet in width abutting the ordinary high water mark of Lake Champlain from Maple Street extended to College Street; ...

   e. The following existing streets remain: Maple and King streets and as extended to Lake Champlain;...

   f. Port Street created. Port Street is a lane forty four (44) feet in width, located adjacent to and west of the old Rutland railway right-of-way and owned by the State of Vermont running between the King Street Dock and College Street; ..."

   THESE EASEMENTS WOULD ENCUMBER THE EASTERLY, NORTHERLY, AND WESTERLY PORTIONS OF THE SUBJECT LANDS IF SAID PROPOSED EASEMENTS WERE DEDICATED AND ACCEPTED BY THE CITY.
10. THE BASIS OF BEARINGS WAS OBTAINED FROM THE RECORD OF SURVEY CALLED FOR IN NOTE 1, ABOVE, AND IS REFERENCED TO TRUE NORTH.

LEGEND

- FOUND RAIL SPIKE
- SET STEEL PIN (5/8 INCH DIAMETER)
- FOUND STEEL PIPE (OUTSIDE DIAMETER AS NOTED)
- FOUND CONCRETE MONUMENT
- POINT NOT MONUMENTED
- SET 4" X 4" CONCRETE MONUMENT
- SET RAILROAD SPIKE IN ASPHALT
- UTILITY POLE AND GUY WIRE ANCHOR
- PROPERTY LINE
- EASEMENT OR RIGHT-OF-WAY LINE
- OVERHEAD UTILITY LINE
- WATER MAIN
- SEWER FORCE MAIN
- CHAIN LINK FENCE
- GUARD RAIL
- AREA OF ENCROACHMENT
- CITY OF BURLINGTON UTILITY EASEMENT AREA
- WATERS OF LAKE MEAN SHORE

TABLE OF LINES

LINE	DIRECTION	DISTANCE
L1	[illegible]	30.81'
L2	[illegible]	[illegible]
L3	[illegible]	[illegible]
L4	[illegible]	[illegible]
L5	[illegible]	[illegible]
L6	[illegible]	[illegible]
L7	[illegible]	[illegible]
L8	[illegible]	[illegible]
L9	[illegible]	[illegible]
L10	[illegible]	[illegible]
L11	[illegible]	[illegible]
L12	[illegible]	[illegible]
L13	[illegible]	[illegible]

THIS SURVEY WAS BASED ON RECORD RESEARCH OF PERTINENT DEEDS, OTHER OFFICIAL RECORDS, AND EVIDENCE RECOVERED ON AND NEAR THE PROPERTY. THIS PLAT IS CONSISTENT WITH SAID SURVEY AND BOTH PLAT AND SURVEY CONFORM WITH STATE OF VERMONT STANDARDS FOR LAND SURVEYING AS CURRENTLY ADOPTED

DATED THIS _____ DAY OF _____ 2003

MICHAEL R. MAGOON VT. L.S. #511

CITY CLERK'S OFFICE

RECEIVED _____ 2003, AT _____ M

AND RECORDED IN PLAT HANGER # _____

OF BURLINGTON LAND RECORDS. ATTEST:

BRENDAN KELERHER, CITY CLERK

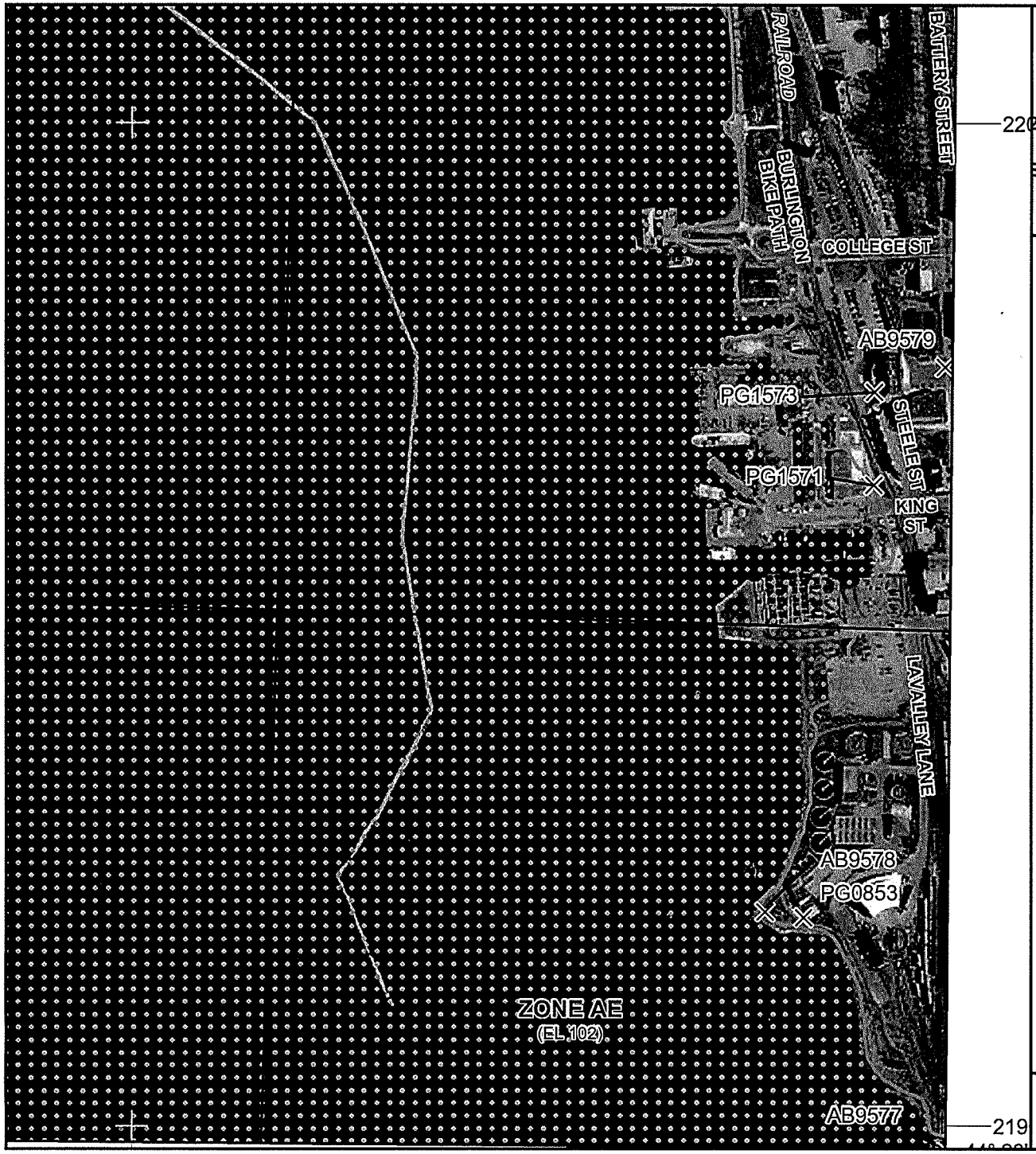
REVISION DATE

BOUNDARY PLAT

LANDS OF
LAKE CHAMPLAIN TRANSPORTATION COMPANY
KING STREET FERRY DOCK
BURLINGTON, VERMONT

Surveying and Mapping
P. O. Box 43
Tel. (802) 877-6246

SCALE: 1 Inch = 40 Feet DATE: JUNE 12, 2003 DRAWING NO. 1



MAP SCALE 1" = 500'

250 0 500 1000

FEET

METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0251D

FIRM

FLOOD INSURANCE RATE MAP

CHITTENDEN COUNTY, VERMONT

(ALL JURISDICTIONS)

PANEL 251 OF 500

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BURLINGTON, CITY OF	500032	0251	D
SOUTH BURLINGTON, CITY OF	500195	0251	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
50007C0251D

EFFECTIVE DATE
JULY 18, 2011

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Silver Line® by Andersen
WINDOWS • DOORS

2900 SERIES SINGLE-HUNG/SLIDING WINDOW - WITH NAILING FIN
2-PANEL SLIDING - MODEL 2802 - STANDARD WINDOW SIZES

NOMINAL WINDOW SIZE	ACTUAL WINDOW SIZE (FRAME TTT)			EXTERIOR DIMENSION INCL "J" CHANNEL			ROUGH OPENING SIZE*			CLEAR OPENING SIZE			CLEAR OPENING SQ. FT.	VISIBLE GLASS PER OPENING			TOTAL VISIBLE GLASS SQ. FT.
	WIDTH		HEIGHT	WIDTH		HEIGHT	WIDTH		HEIGHT	WIDTH		HEIGHT		WIDTH		HEIGHT	
5/0 x 1/8	60	x	19	61	x	20	60 1/2	x	19 1/2	25	x	13 7/8	2.41	27 1/8	x	14	5.27
5/0 x 2/0	60	x	23	61	x	24	60 1/2	x	23 1/2	25	x	17 7/8	3.10	27 1/8	x	18	6.78
5/0 x 3/0	60	x	35	61	x	36	60 1/2	x	35 1/2	25	x	29 7/8	5.19	27 1/8	x	30	11.30
5/0 x 3/6^	60	x	41	61	x	42	60 1/2	x	41 1/2	25	x	35 7/8	**6.23**	27 1/8	x	36	13.56
5/0 x 3/8^	60	x	43	61	x	44	60 1/2	x	43 1/2	25	x	37 7/8	**6.58**	27 1/8	x	38	14.32
5/0 x 3/10^	60	x	45	61	x	46	60 1/2	x	45 1/2	25	x	39 7/8	**6.92**	27 1/8	x	40	15.07
5/0 x 4/0^	60	x	47	61	x	48	60 1/2	x	47 1/2	25	x	41 7/8	**7.27**	27 1/8	x	42	15.82
5/0 x 4/2^	60	x	49	61	x	50	60 1/2	x	49 1/2	25	x	43 7/8	**7.62**	27 1/8	x	44	16.58
5/0 x 4/4^	60	x	51	61	x	52	60 1/2	x	51 1/2	25	x	45 7/8	**7.96**	27 1/8	x	46	17.33
5/0 x 4/6^	60	x	53	61	x	54	60 1/2	x	53 1/2	25	x	47 7/8	**8.31**	27 1/8	x	48	18.08
5/0 x 5/0^	60	x	59	61	x	60	60 1/2	x	59 1/2	25	x	53 7/8	**9.35**	27 1/8	x	54	20.34
5/4 x 1/8	64	x	19	65	x	20	64 1/2	x	19 1/2	27	x	13 7/8	2.60	29 1/8	x	14	5.66
5/4 x 2/0	64	x	23	65	x	24	64 1/2	x	23 1/2	27	x	17 7/8	3.35	29 1/8	x	18	7.28
5/4 x 3/0	64	x	35	65	x	36	64 1/2	x	35 1/2	27	x	29 7/8	5.60	29 1/8	x	30	12.14
5/4 x 3/6^	64	x	41	65	x	42	64 1/2	x	41 1/2	27	x	35 7/8	**6.73**	29 1/8	x	36	14.56
5/4 x 3/8^	64	x	43	65	x	44	64 1/2	x	43 1/2	27	x	37 7/8	**7.10**	29 1/8	x	38	15.37
5/4 x 3/10^	64	x	45	65	x	46	64 1/2	x	45 1/2	27	x	39 7/8	**7.48**	29 1/8	x	40	16.18
5/4 x 4/0^	64	x	47	65	x	48	64 1/2	x	47 1/2	27	x	41 7/8	**7.85**	29 1/8	x	42	16.99
5/4 x 4/2^	64	x	49	65	x	50	64 1/2	x	49 1/2	27	x	43 7/8	**8.23**	29 1/8	x	44	17.80
5/4 x 4/4^	64	x	51	65	x	52	64 1/2	x	51 1/2	27	x	45 7/8	**8.60**	29 1/8	x	46	18.61
5/4 x 4/6^	64	x	53	65	x	54	64 1/2	x	53 1/2	27	x	47 7/8	**8.98**	29 1/8	x	48	19.42
5/4 x 5/0^	64	x	59	65	x	60	64 1/2	x	59 1/2	27	x	53 7/8	**10.10**	29 1/8	x	54	21.84
6/0 x 1/8	72	x	19	73	x	20	72 1/2	x	19 1/2	31	x	13 7/8	2.99	33 1/8	x	14	6.44
6/0 x 2/0	72	x	23	73	x	24	72 1/2	x	23 1/2	31	x	17 7/8	3.85	33 1/8	x	18	8.28
6/0 x 3/0^	72	x	35	73	x	36	72 1/2	x	35 1/2	31	x	29 7/8	**6.43**	33 1/8	x	30	13.80
6/0 x 3/6^	72	x	41	73	x	42	72 1/2	x	41 1/2	31	x	35 7/8	**7.72**	33 1/8	x	36	16.56
6/0 x 3/8^	72	x	43	73	x	44	72 1/2	x	43 1/2	31	x	37 7/8	**8.15**	33 1/8	x	38	17.48
6/0 x 3/10^	72	x	45	73	x	46	72 1/2	x	45 1/2	31	x	39 7/8	**8.58**	33 1/8	x	40	18.40
6/0 x 4/0^	72	x	47	73	x	48	72 1/2	x	47 1/2	31	x	41 7/8	**9.01**	33 1/8	x	42	19.32
6/0 x 4/2^	72	x	49	73	x	50	72 1/2	x	49 1/2	31	x	43 7/8	**9.45**	33 1/8	x	44	20.24
6/0 x 4/4^	72	x	51	73	x	52	72 1/2	x	51 1/2	31	x	45 7/8	**9.88**	33 1/8	x	46	21.16
6/0 x 4/6^	72	x	53	73	x	54	72 1/2	x	53 1/2	31	x	47 7/8	**10.31**	33 1/8	x	48	22.08
6/0 x 5/0^	72	x	59	73	x	60	72 1/2	x	59 1/2	31	x	53 7/8	**11.60**	33 1/8	x	54	24.84

Clear Opening Sizes are for one opening.
Visible Glass Sizes are for one lite of glass. Total Visible Glass is combined area of all lites of glass in entire unit.
To calculate actual glass size per opening, add 7/8" to the Visible Glass Width and add 7/8" to the Visible Glass Height.
* Rough opening sizes shown are for frame construction. Consult a Silver Line dealer for other rough opening size information, such as with masonry or block applications.
^ **BOLD** type indicates window may meet egress/clear opening criteria of minimum 20" net opening width, minimum 24" net opening height and minimum 5.7 sq. ft. opening area.

Silver Line® Product Series	Silver Line Product Type	Glass Type/Infill	Glass Thickness	Spacer	NFRC Certified Products Directory Number	No Grilles							With Grilles						
						U-Factor[1]	SHGC[2]	VLT[3]	U.S. ENERGY STAR v 6.0				U-Factor[1]	SHGC[2]	VLT[3]	U.S. ENERGY STAR v 6.0			
									North	NC	SC	South				North	NC	SC	South
2800 Series New Construction Sliding Windows (coordinates with 2900 Series Single-Hung)	Sliding Windows	Low-E/Air	2.2mm	Intercept	SIL-N-15	0.33	0.29	0.55	-	-	-	-	0.33	0.27	0.49	-	-	-	-
			3.0mm	Intercept		0.34	0.29	0.55	-	-	-	-	0.35	0.26	0.49	-	-	-	-
		Low-E/Argon	2.2mm	Intercept		0.29	0.29	0.55	-	NC	-	-	0.29	0.26	0.49	-	NC	-	-
			3.0mm	Intercept		0.30	0.29	0.55	-	NC	-	-	0.31	0.26	0.49	-	-	-	-
		Low-E SmartSun™/Air	2.2mm	Intercept		0.33	0.25	0.50	-	-	-		0.33	0.23	0.45	-	-	-	
			3.0mm	Intercept		0.34	0.25	0.50	-	-	-		0.35	0.23	0.44	-	-	-	
		Low-E SmartSun™/Argon	2.2mm	Intercept		0.29	0.25	0.50	-	NC	SC		0.29	0.23	0.45	-	NC	SC	
			3.0mm	Intercept		0.29	0.25	0.50	-	NC	SC		0.30	0.23	0.44	-	NC	SC	
		Low-E PassiveSun®	2.2mm	Intercept		0.34	0.45	0.56	-	-	-	-	0.34	0.41	0.50	-	-	-	-
			3.0mm	Intercept		0.34	0.45	0.56	-	-	-	-	0.35	0.40	0.50	-	-	-	-
		Low-E PassiveSun®/Argon	2.2mm	Intercept		0.30	0.46	0.56	N	-	-	-	0.30	0.41	0.50	-	-	-	-
			2.2mm	Intercept*		0.29	0.46	0.56	N	-	-	-	0.29	0.41	0.50	N	-	-	-
			3.0mm	Intercept		0.30	0.45	0.56	N	-	-	-	0.31	0.40	0.50	-	-	-	-
		Low-E PassiveSun® HeatLock®	2.2mm	Intercept		0.30	0.38	0.57	-	NC	-	-	0.30	0.34	0.50	-	NC	-	-
			3.0mm	Intercept		0.31	0.37	0.56	-	-	-	-	0.31	0.34	0.50	-	-	-	-
		Low-E PassiveSun® HeatLock®/Argon	2.2mm	Intercept		0.27	0.38	0.57	N	NC	-	-	0.27	0.34	0.50	N	NC	-	-
			3.0mm	Intercept		0.27	0.37	0.56	N	NC	-	-	0.28	0.34	0.50	N	NC	-	-
		Low-E Sun/Air	2.2mm	Intercept		0.33	0.23	0.43	-	-	-		0.33	0.21	0.39	-	-	-	
			3.0mm	Intercept		0.34	0.23	0.43	-	-	-		0.35	0.21	0.38	-	-	-	
		Low-E Sun/Argon	2.2mm	Intercept		0.29	0.22	0.43	-	NC	SC		0.29	0.20	0.39	-	NC	SC	
			3.0mm	Intercept		0.29	0.22	0.43	-	NC	SC		0.30	0.20	0.38	-	NC	SC	
2900 Series New Construction Single-Hung Windows (includes 4900 Series Single-Hung)	Single-Hung Windows	Low-E/Air	2.2mm	Intercept	SIL-N-16	0.34	0.30	0.56	-	-	-	-	0.34	0.27	0.50	-	-	-	-
			3.0mm	Intercept		0.34	0.30	0.55	-	-	-	-	0.35	0.27	0.49	-	-	-	-
		Low-E/Argon	2.2mm	Intercept		0.30	0.29	0.56	-	NC	-	-	0.30	0.27	0.50	-	NC	-	-
			3.0mm	Intercept		0.30	0.29	0.55	-	NC	-	-	0.31	0.26	0.49	-	-	-	-
		Low-E SmartSun™/Air	2.2mm	Intercept		0.33	0.26	0.51	-	-	-	-	0.33	0.23	0.45	-	-	-	
			3.0mm	Intercept		0.34	0.26	0.50	-	-	-	-	0.35	0.23	0.45	-	-	-	
		Low-E SmartSun™/Argon	2.2mm	Intercept		0.29	0.25	0.51	-	NC	SC		0.29	0.23	0.45	-	NC	SC	
			3.0mm	Intercept		0.30	0.25	0.50	-	NC	SC		0.31	0.23	0.45	-	-	-	
		Low-E PassiveSun®	2.2mm	Intercept		0.34	0.46	0.57	-	-	-	-	0.34	0.41	0.51	-	-	-	-
			3.0mm	Intercept		0.34	0.45	0.56	-	-	-	-	0.35	0.40	0.50	-	-	-	-
		Low-E PassiveSun®/Argon	2.2mm	Intercept		0.30	0.46	0.57	N	-	-	-	0.30	0.41	0.51	-	-	-	-
			2.2mm	Intercept*		0.29	0.46	0.57	N	-	-	-	0.29	0.41	0.51	N	-	-	-
			3.0mm	Intercept		0.30	0.45	0.56	N	-	-	-	0.31	0.41	0.50	-	-	-	-
		Low-E PassiveSun® HeatLock®	2.2mm	Intercept		0.30	0.38	0.57	-	NC	-	-	0.30	0.34	0.51	-	NC	-	-
			3.0mm	Intercept		0.31	0.38	0.57	-	-	-	-	0.31	0.34	0.51	-	-	-	-
		Low-E PassiveSun® HeatLock®/Argon	2.2mm	Intercept		0.27	0.38	0.57	N	NC	-	-	0.27	0.34	0.51	N	NC	-	-
			3.0mm	Intercept		0.27	0.38	0.57	N	NC	-	-	0.28	0.34	0.51	N	NC	-	-
		Low-E Sun/Air	2.2mm	Intercept		0.33	0.23	0.44	-	-	-		0.33	0.21	0.39	-	-	-	
			3.0mm	Intercept		0.34	0.23	0.43	-	-	-		0.35	0.21	0.39	-	-	-	
		Low-E Sun/Argon	2.2mm	Intercept		0.29	0.22	0.44	-	NC	SC		0.29	0.20	0.39	-	NC	SC	
			3.0mm	Intercept		0.29	0.22	0.43	-	NC	SC		0.30	0.20	0.39	-	NC	SC	
	Fixed/Picture Windows	Low-E/Air	3.0mm	Intercept	SIL-N-17	0.34	0.30	0.57	-	-	-	-	0.35	0.28	0.51	-	-	-	-
			4.0mm	Intercept		0.36	0.30	0.56	-	-	-	-	0.37	0.28	0.50	-	-	-	-
		Low-E/Argon	3.0mm	Intercept		0.29	0.30	0.57	-	NC	-	-	0.30	0.27	0.51	-	NC	-	-
			4.0mm	Intercept		0.31	0.30	0.56	-	-	-	-	0.33	0.27	0.50	-	-	-	-
		Low-E SmartSun™/Air	3.0mm	Intercept		0.33	0.26	0.52	-	-	-	-	0.35	0.24	0.46	-	-	-	
			4.0mm	Intercept		0.35	0.27	0.51	-	-	-	-	0.37	0.24	0.46	-	-	-	
		Low-E SmartSun™/Argon	3.0mm	Intercept		0.29	0.26	0.52	-	NC	-	-	0.30	0.24	0.46	-	NC	SC	
			4.0mm	Intercept		0.30	0.26	0.51	-	NC	-	-	0.32	0.24	0.46	-	-	-	
		Low-E PassiveSun®	3.0mm	Intercept		0.34	0.46	0.58	-	-	-	-	0.35	0.42	0.52	-	-	-	-
			4.0mm	Intercept		0.36	0.45	0.58	-	-	-	-	0.38	0.41	0.51	-	-	-	-
		Low-E PassiveSun®/Argon	3.0mm	Intercept		0.30	0.47	0.58	N	-	-	-	0.31	0.42	0.52	-	-	-	-
			3.0mm	Intercept*		0.29	0.47	0.58	N	-	-	-	0.30	0.42	0.52	N	-	-	-
			4.0mm	Intercept		0.31	0.46	0.58	-	-	-	-	0.33	0.41	0.51	-	-	-	-
		Low-E PassiveSun® HeatLock®	3.0mm	Intercept		0.30	0.39	0.58	-	NC	-	-	0.31	0.35	0.52	-	-	-	-
			4.0mm	Intercept		0.31	0.38	0.58	-	-	-	-	0.33	0.35	0.52	-	-	-	-
		Low-E PassiveSun® HeatLock®/Argon	3.0mm	Intercept		0.27	0.39	0.58	N	NC	-	-	0.27	0.35	0.52	N	NC	-	-
			4.0mm	Intercept		0.28	0.38	0.58	N	NC	-	-	0.29	0.34	0.52	-	NC	-	-
		Low-E Sun/Air	3.0mm	Intercept		0.33	0.24	0.45	-	-	-		0.34	0.21	0.40	-	-	-	
			4.0mm	Intercept		0.35	0.24	0.44	-	-	-		0.37	0.22	0.40	-	-	-	
		Low-E Sun/Argon	3.0mm	Intercept		0.29	0.23	0.45	-	NC	SC		0.30	0.21	0.40	-	NC	SC	
			4.0mm	Intercept		0.30	0.23	0.44	-	NC	SC		0.32	0.21	0.40	-	-	-	
	Shape Windows	Low-E/Air	3.0mm	SuperSpacer	SIL-N-17	0.32	0.30	0.57	-	-	-	-	0.34	0.27	0.51	-	-	-	-
			4.0mm	SuperSpacer		0.34	0.30	0.56	-	-	-	-	0.36	0.27	0.50	-	-	-	-
		Low-E/Argon	3.0mm	SuperSpacer		0.28	0.30	0.57	-	NC	-	-	0.30	0.27	0.51	-	NC	-	-
			4.0mm	SuperSpacer		0.29	0.30	0.56	-	NC	-	-	0.31	0.27	0.50	-	-	-	-
		Low-E SmartSun™/Air	3.0mm	SuperSpacer		0.32	0.26	0.52	-	-	-	-	0.33	0.24	0.46	-	-	-	
			4.0mm	SuperSpacer		0.34	0.26	0.51	-	-	-	-	0.36	0.24	0.46	-	-	-	
		Low-E SmartSun™/Argon	3.0mm	SuperSpacer		0.28	0.26	0.52	-	NC	-	-	0.29	0.24	0.46	-	NC	SC	
			4.0mm	SuperSpacer		0.29	0.26	0.51	-	NC	-	-	0.31	0.24	0.46	-	-	-	
		Low-E PassiveSun®	3.0mm	SuperSpacer		0.33	0.46	0.58	-	-	-	-	0.34	0.42	0.52	-	-	-	-
			4.0mm	SuperSpacer		0.34	0.45	0.58	-	-	-	-	0.36	0.41	0.51	-	-	-	-
		Low-E PassiveSun®/Argon	3.0mm	SuperSpacer		0.28	0.47	0.58	N	-	-	-	0.29	0.42	0.52	N	-	-	-
			4.0mm	SuperSpacer		0.30	0.46	0.58	N	-	-	-	0.31	0.41	0.51	-	-	-	-
		Low-E PassiveSun® HeatLock®	3.0mm	SuperSpacer		0.29	0.39	0.58	N	NC	-	-	0.30	0.35	0.52	-	NC	-	-
			4.0mm	SuperSpacer		0.30	0.38	0.58	-	NC	-	-	0.32	0.35	0.52	-	-	-	-
		Low-E PassiveSun® HeatLock®/Argon	3.0mm	SuperSpacer		0.26	0.39	0.58	N	NC	-	-	0.26	0.35	0.52	N	NC	-	-
			4.0mm	SuperSpacer		0.27	0.38	0.58	N	NC	-	-	0.28	0.34	0.52	N	NC	-	-
		Low-E Sun/Air	3.0mm	SuperSpacer		0.32	0.24	0.45	-	-	-		0.33	0.21	0.40	-	-	-	
			4.0mm	SuperSpacer		0.34	0.24	0.44	-	-	-		0.36	0.22	0.40	-	-	-	
		Low-E Sun/Argon	3.0mm	SuperSpacer		0.28	0.23	0.45	-	NC	SC		0.29	0.21	0.40	-	NC	SC	
			4.0mm	SuperSpacer		0.29	0.23	0.44	-	NC	SC		0.31	0.21	0.40	-	-	-	

Data is current as of December 7, 2015, and is subject to change.
See page 1 for more information.

1. Frame: [Extruded aluminum] [Roll formed].
2. Mesh: [Aluminum] [Fiberglass].
3. Size: [Half] [Full].

Specifier Notes: Delete capillary tubes if not required.

J. Capillary tubes.

K. Installation Items:
1. Integral J-channel.
2. Integral nailing fin.

Specifier Notes: Specify jamb extenders in wood or cellular PVC. Delete jamb extenders if not required.

L. Jamb Extenders:
1. Factory attached to vinyl windows.
2. Wood: Finger-jointed, primed, [clear pine] [oak].
3. Cellular PVC: "Quick Trim", [white] [tan] [driftwood] ["Clearwood"].

2.5 SLIDER VINYL WINDOWS

Specifier Notes: Specify required standard and optional features for the slider vinyl windows. Not all combinations of features are available. Consult Simonton Windows for availability of specific combinations of features.

A. Slider Vinyl Windows: "ProFinish Contractor Series" windows.

B. Type: [Single slider] [3-lite slider].

Specifier Notes: Specify vinyl windows in standard or custom sizes. Consult Simonton Windows for availability of custom-size windows.

C. Size: [_____] [Indicated on the Drawings].

D. Frame and Sash Color: [White] [Tan] [Driftwood].

E. Glass:

Specifier Notes: A variety of glass options are available. Consult Simonton Windows for more information.

1. Gas Fill: [Air] [Argon].
2. Glass Strength: [Single strength] [Double strength].
3. Glass Type: [Clear] ["ProSolar" soft coat Low E] [Tempered] [Bronze Tinted] [Grey Tinted] [Obscure].

Specifier Notes: Delete capillary tubes if not required.

K. Capillary tubes.

L. Installation Items:
   1. Integral J-channel.
   2. Integral nailing fin.

Specifier Notes: Specify jamb extenders in wood or cellular PVC. Delete jamb extenders if not required.

M. Jamb Extenders:
   1. Factory attached to vinyl windows.
   2. Wood: Finger-jointed, primed, [clear pine] [oak].
   3. Cellular PVC: "Quick Trim", [white] [tan] ["Clearwood"].

2.6 CASEMENT VINYL WINDOWS

Specifier Notes: Specify required standard and optional features for the casement vinyl windows. Not all combinations of features are available. Consult Simonton Windows for availability of specific combinations of features.

A. Casement Vinyl Windows: "ProFinish Contractor Series" windows.

Specifier Notes: Specify vinyl windows in standard or custom sizes. Consult Simonton Windows for availability of custom-size windows.

B. Size: [_____] [Indicated on the Drawings].

C. Frame and Sash Color: [White] [Tan] [Driftwood].

D. Glass:

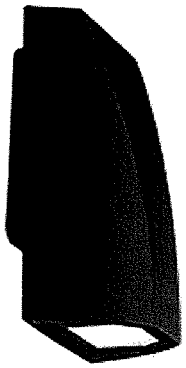
Specifier Notes: A variety of glass options are available. Consult Simonton Windows for more information.

   1. Gas Fill: [Air] [Argon].
   2. Glass Strength: [Single strength] [Double strength].
   3. Glass Type: [Clear] ["ProSolar" soft coat Low E] [Tempered] [Bronze Tinted] [Grey Tinted] [Obscure].
   4. Insulating Glass Unit Thickness: 3/4 inch.
   5. Panes of Glass: Dual pane.
   6. Spacer System: ["Intercept"] ["Supercept"].
   7. Glass Packages: Energy Star, optimized by region.

E. Grid:

SLIM18

RAB LIGHTING



12, 18 and 26 Watt SLIM wallpacks are ultra efficient and deliver impressive light distribution with a compact low-profile design that's super easy to install as a downlight or uplight.

Color: Bronze Weight: 4.5 lbs

Project:	Type:
Prepared By:	Date:

Driver Info		LED Info	
Type:	Constant Current	Watts:	18W
120V:	0.18A	Color Temp:	5100K (Cool)
208V:	0.11A	Color Accuracy:	67 CRI
240V:	0.09A	L70 Lifespan:	100,000
277V:	0.08A	Lumens:	2,096
Input Watts:	20W	Efficacy:	105 LPW
Efficiency:	90%		

Technical Specifications

Listings

UL Listing:

Suitable for wet locations. Suitable for mounting within 1.2m (4ft) of the ground.

ADA Compliant:

SLIM™ is ADA Compliant.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P0000171Q

Construction

IP Rating:

Ingress Protection rating of IP66 for dust and water.

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures.

Thermal Management:

Superior heat sinking with internal Air-Flow fins.

Housing:

Precision die-cast aluminum housing.

Mounting:

Heavy-duty mounting bracket with hinged housing for easy installation.

Recommended Mounting Height:

Up to 14 ft.

Lens:

Tempered glass lens.

Reflector:

Specular thermoplastic.

Gaskets:

High-temperature silicone.

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:

Mercury and UV free, and RoHS compliant.

LED Characteristics

LED:

Multi-chip, long-life LED.

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines for the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

Electrical

Driver:

Constant Current, Class 2, 100-277V, 50/60 Hz., 4KV surge protection, 500mA, 100-240VAC 0.3-0.15 Amps, 277VAC 0.15 Amps, Power Factor 99%.

THD:

9.8% at 120V

Other

HID Replacement Range:

The SLIM18 can be used to replace 100W MH based on delivered lumens.

California Title 24:

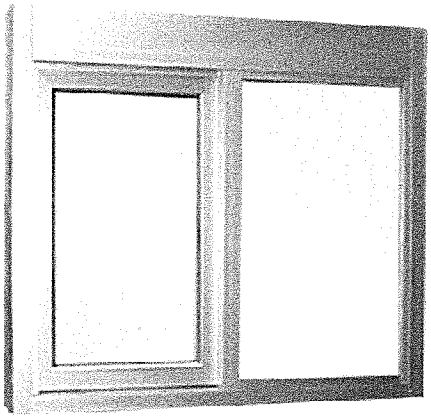
SLIM18 complies with 2013 California Title 24 building and electrical codes as a residential outdoor fixture. See SLIM18/PC for a model that complies as a commercial outdoor non-pole-mounted fixture ≤ 30 Watts.

Copyright © 2014 RAB Lighting Inc. All Rights Reserved Note: Specifications are subject to change at any time without notice

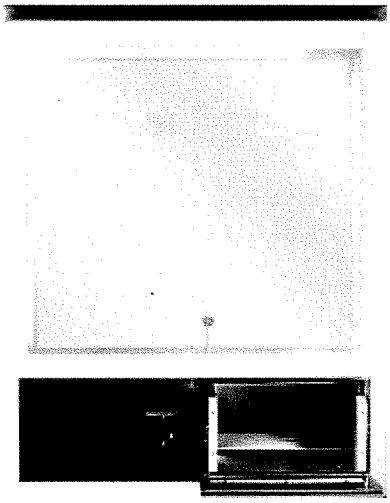
Installation/Service/Operations Manual

READY ACCESS®

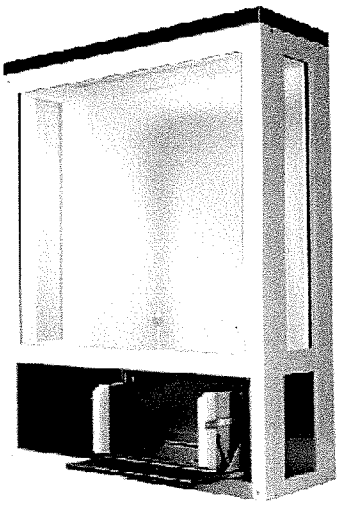
600 Series
Security Windows



Model 600



Model 601 / 603



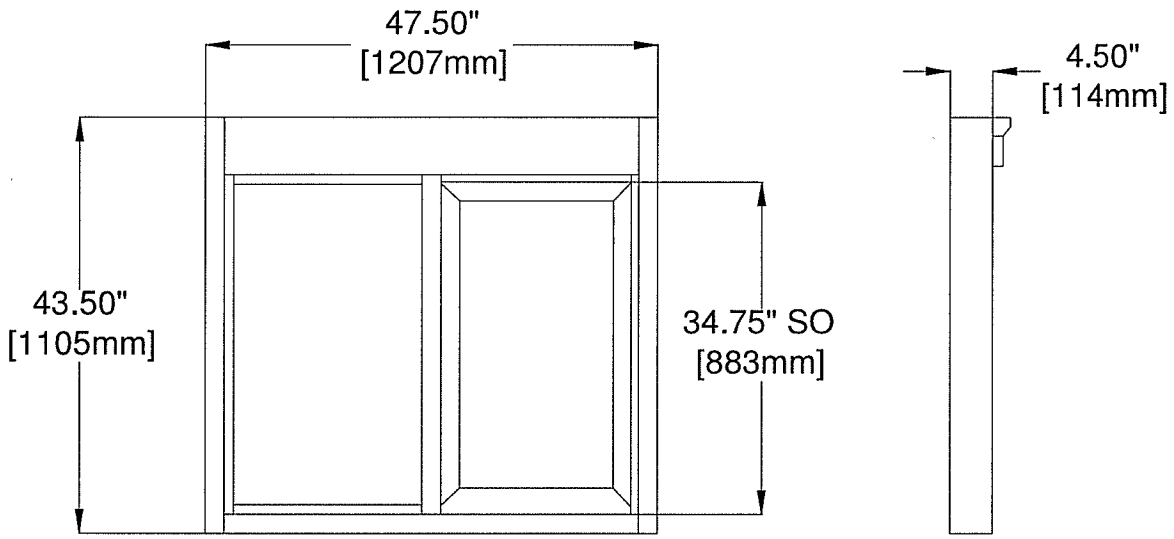
Model 602 / 604

Pass-Thru Window

Manual,Self Closing, MOER, Electric

Dimensions

Model 600



MODEL 600

See Chart for Opening Sizes

Dimensions In Inches W x H x D	Service Opening Size W x H	Glazing Rough Opening Size W x H	Masonry Rough Opening Size W x H
47½ x 43½ x 4½	20" x 35"	47 ¾" x 43 ¾" 1213mm x 1111mm	48" x 44" 1219mm x 1118mm
47½ x 35¾ x 4½	20" x 27 ¼"	47 ¾" x 36" 1213mm x 914mm	48" x 36 ¼" 1219mm x 921mm