Development Services

From Concept to Construction

Phone: 503-823-7300 Email: bds@portlandoregon.gov 1900 SW 4th Ave, Portland, OR 97201
More Contact Info (http://www.portlandoregon.gov//bds/article/519984)

APPEAL SUMMARY

Status: Decision Rendered

Appeal ID: 22197	**Project Address:** 2060 N Marine Dr
Hearing Date: 12/11/19	**Appellant Name:** Martin Ouellet
Case No.: B-007	**Appellant Phone:** 514-723-7646
Appeal Type: Building	**Plans Examiner/Inspector:** Jason Butler-Brown, Amit Kumar, Nate Takara
Project Type: commercial	**Stories:** 1 **Occupancy:** cirque du soleil america inc. **Construction Type:** Tents
Building/Business Name: Cirque du Soleil-Volta	**Fire Sprinklers:** No
Appeal Involves: Erection of a new structure	**LUR or Permit Application No.:** 19-236247-MT
Plan Submitted Option: pdf [File 1]	**Proposed use:** Theatrical presentation

APPEAL INFORMATION SHEET

Appeal item 1

Code Section	2014 - Article 1609.1.1
Requires	Article 1609.1.1 in OSSC 2014 requires structures to be designed in accordance with ASCE 7 and using the basic design wind speed determined by Section 1609.3. If Risk Category III is considered, the basic design wind speed can reach 130 mph.
Proposed Design	The design of Cirque du Soleil tents for wind loads has been done according to ANSI/ASCE 7-10 for a basic wind speed of 95 mph. Therefore, to maintain a level of safety while occupying a tent comparable to that of a permanent structure, Cirque du Soleil requests a conditional appeal to this provision, because the tent structures do not fully comply with the code due to wind loading. Conditions of the permit would include the following: install and maintain all structural components in accordance with sealed drawings and calculations, monitor wind speed forecasts from the nearest meteorological stations, evacuate the public when on site measured wind gust exceed 50 mph, evacuate the staff when on site measured wind gusts exceed 62 mph, evacuate the security staff when on site measured wind gusts exceed 75 mph. Provided the structures are erected in accordance with the drawings, the actual sustained winds are less than indicated, and there is no snow accumulation on the tents, the structures will remain stable.
Reason for alternative	Due to the temporary nature of the performances in continuous cities and the economics of transporting these structures, the tents were not designed to withstand the same wind loads as a permanent structure. The appellant requests a conditional appeal to the wind loading provisions

due to the temporary nature of the structures, and the weather monitoring that will be implemented.

Appeal item 2

Code Section	OSSC 1608.1
Requires	The design roof snow load shall not be less than 20 psf (960 N/m2).
Proposed Design	Cirque du Soleil requests a conditional appeal to this provision because the tent structures do not fully comply with the code due to snow loading. Therefore, to maintain a level of safety while occupying a tent comparable to that of a permanent structure, conditions of the permit would include the following; Install and maintain all structural components in accordance with sealed drawings and calculations. Remove snow using such methods as melting, blowing and/or sweeping in order to prevents its accumulation on the tent roofs. evacuate the individual tents if snow accumulates on the roof. Provided the structures are erected in accordance with the drawings and there is no snow accumulation on the roofs, the structures will remain stable.
Reason for alternative	Due to the temporary nature of the performances in continuous cities and the economics of transporting theses structures, the tents were not designed to withstand the same snow loads as a permanent structure. The appellant requests a conditional appeal to the snow loading provisions due to the temporary nature of the structures, and the weather monitoring and snow removal plan that will be implemented.

Appeal item 3

Code Section	OSSC 1803.3.2
Requires	For Sites for structures and facilities defined by ORS 455.447 as essential facilities, hazardous facilities, major structures and special occupancy structures shall be evaluated on a site-specific basis for vulnerability to seismic-induced geologic hazards as required in Section 1803.7.
Proposed Design	The structure is classified as a special occupancy structure because of the high occupancy load and use for assembly. The appellant requests exemption from OSSC 1803.3.2 based on the temporary nature of the structure.
Reason for alternative	The seismic provision of the code requires structures to be designed to provide collapse protection for an earthquake with a 1% probability of exceedence over 50 years. Considerin the life of the structure at this site, an earthquake with an equivalent probability of occurance will be very small. Such an earthquake is unlikely to create any geologic hazards, with the exception of minor ground shaking. The structure is designed to resist such ground shaking.

APPEAL DECISION

1. Reduction of design wind load for temporary performance tent: Granted as proposed.

2. Reduction of design snow load for temporary performance tent: Granted as proposed.

3. Omission of engineered evaluation of site specific seismic geologic hazards for temporary performance tent: Granted as proposed.

Note: These appeals are granted for the temporary tents in place for this event only.

The Administrative Appeal Board finds that the information submitted by the appellant demonstrates that the approved modifications or alternate methods are consistent with the intent of the code; do not lessen health, safety, accessibility, life, fire safety or structural requirements; and that special conditions unique to this project make strict application of those code sections impractical.

Pursuant to City Code Chapter 24.10, you may appeal this decision to the Building Code Board of Appeal within 90 calendar days of the date this decision is published. For information on the appeals process, go to www.portlandoregon.gov/bds/appealsinfo, call (503) 823-7300 or come in to the Development Services Center.

N MARINE DR

& LINE AND
OFF VALVE

EXPO CENTER
HALL "A"

VIP ROOM

M W

EXPO OFFICE

H.F.

BUS
STOP

DELIVERY
GATE #1

WATER, SEWER & TELECOM
CONNECTIONS POINT

EXISTING PGE UNDERGROUND VAULT

EXISTING PGE TRANSFORMER

EXISTING SWITCHGEAR
SHED APPROX. 14'X23'

EMERGENCY
GATE #2

MTD

MTD

N MARINE DR

EXPO CENTER

LINE OF PROPERTY LIMIT

TRI-MET

XX-X STORAGE

72-2 FOH

20' FIRELANE

20' FIRELANE

20' FIRELANE

MTD WATER STATION

HOLDING TANK

SECURITY OFFICE

Security-Medic-IT

EMERGENCY
GATE #7

Site-Conf

ACM-TSD-CM

ARTISTIC-PR

SANITARY

PUMP

22

TEMP

recycling

recycling

GARBAGE

HVAC

SWITCHGEAR

SHOW TECH OFFICE

54

RACK
STORAGE

72-3 FOH LOGO

WAREHOUSE
TENT

HVAC
80 T

#6

#4

#8

#2

#1

#3

#5

ARTISTIC TENT
(566 sq.m. - 6082 sq.ft.)

4.0m (13'-1.2")

MONITOR
BOOTH

BIG TOP
(Ø51m - 2042 sq.m.)
(Ø167.3 ft - 21 990 sq.ft.)

ENTRANCE TENT
(1302 sq.m. - 14 015 sq. ft.)

20X20
BEER
GARDEN

ARCH

10 5 2 0 20
SCALE METER
25 10 0 50 100
SCALE FOOT

PLATE POSITION TO MODIFY
(5'-11" back)

XX-X STORAGE

XX-X STORAGE

XX-X STORAGE

TERRACE

62-2

62-4

KITCHEN 05-1

DRY STORAGE

REFER 05-2

TENT SHOP 80

LOGISTIC SHOP 73

0.60m (2')

72-1 FOH LOGO

PLATE POSITION
TO MODIFY (2' back)

RACK
STORAGE

20' FIRELANE

TERRACE

VIP TENT
(260 sq.m. - 2 798 sq.ft.)

CATERING TENT

TOILET

HVAC

SECURITY
CHECKPOINT

PUBLIC
GATE #3-4

ACCESS
GATE #5

BOX OFFICE

BUILDING

EMERGENCY
GATE #6

LP1

Drawing Name: C:\Users\clawagner\OneDrive - Cirque du Soleil\VOLTA\VOLTA_PORTLAND\RW-APOY01_V03.dwg - Current tab: 01 - Print Time: Mon, 28 Oct 2019 - 4:07pm By: ClaWagner Last Save: Mon, 28 Oct 2019 - 4:04pm

CIRQUE DU SOLEIL

CIRQUE DU SOLEIL
VOLTA

CDS SHOW / INFRA ID
VOLTA / NA3

REVISION HISTORY

No	DATE	DESCRIPTION TYPE	BY
01	2019/09/18	GEN	KL
02	2019/10/25	GEN	CW

YEAR 2020

COUNTRY USA

CITY PORTLAND

VENUE PORTLAND EXPOSITION CENTER

DESCRIPTION 1 SITE LAYOUT

DESCRIPTION 2 GENERAL VIEW

DRAWING STATUS
PRELIMINARY

DRAWN BY K. LEPAGE

DATE 2019/07/17

APPROVED BY

DATE

SHEET NUMBER 01

SCALE AS SHOWN

D

DOC ID NUMBER RW-APOY01_V03

REVISION 02