



October 20, 2025

Monica Striker
Capital Design Services, LLC
2101 4th Avenue E, Suite 202
Olympia, WA 98506

Re: Acoustical Report – Vertical Bridge Verizon US-OR-5116 Sauvie
Site: 14443 NW Charlton Road, Portland, OR 97231

Dear Monica,

This report presents a noise survey performed in the immediate vicinity of the proposed Verizon telecommunications facility at 14443 NW Charlton Road in Portland, Oregon. This noise survey extends from the proposed equipment to the nearest receiving properties. The purpose of this report is to document the existing conditions and the impacts of the acoustical changes due to the proposed equipment. This report contains data on the existing and predicted noise environments, impact criteria and an evaluation of the predicted sound levels as they relate to the criteria.

Code Requirements

The site is located within the Multnomah County zoning jurisdiction on parcel with an MUA zoning. The receiving properties are zoned MUA and EFU.

The proposed new equipment includes equipment support cabinets and an emergency generator. The cabinets are expected to run intermittently 24 hours a day. The generator will operate during daytime hours for maintenance testing or during a power outage.

Multnomah County Code Chapter 39.7740(3) states: Noise levels should not exceed 5 dBA above ambient levels or 55 dBA Sound Pressure Level, whichever is greater, on adjacent properties.

Operation of a back-up generator in the event of power failure or the testing of a back-up generator between 8 AM and 8 PM are exempt from this standard. No testing of back-up power generators shall occur between the hours of 8 PM and 8 AM.

Ambient Conditions

Existing ambient noise levels were measured on site with a Svantek 971 sound level meter on August 21, 2025. Measurements were conducted in accordance with Oregon Administrative Rules (OAR) 340-35-035 subsection (3)(b). The average ambient noise level was 47 dBA.

Predicted Equipment Sound Levels

24-Hour Operation Equipment

The following table presents a summary of the equipment and their associated noise levels:

Table 1: Equipment Noise Levels

Equipment	dBA (each)	Quantity	Combined dBA @ 5 ft
Charles CUBE-PM63915TN1 Equipment Cabinet	65 dBA @ 5 ft	1	65
Charles CUBE-BB48E2XVA Battery Cabinet	65 dBA @ 5 ft	1	65
Total dBA (All cabinets combined)			68

Methods established by AHRI Standard 275-2010 and ASHRAE were used in predicting equipment noise levels to the receiving properties. Application factors such as location, height, and reflective surfaces are accounted for in the calculations.

The equipment will be located at grade surrounded by a chain-link fence. The nearest receiving property is approximately 142 feet northeast of the equipment. The following table presents the predicted sound level at the nearest receiving property:

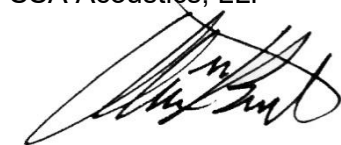
Table 2: Predicted Noise Level: Proposed Equipment Cabinets

Line	Application Factor	NE
1	Sound Pressure Level at 5 ft (dBA), Lp1	68
2	Distance Factor (DF) Inverse-Square Law (Free Field): $DF = 20 \cdot \log(d1/d2)$	-29 (142 ft)
3	New Equipment Sound Pressure Level at Receiver, Lpr (Add lines 1 and 2)	39

As shown in Table 2, the predicted sound level from the proposed equipment is 39 dBA at the nearest receiving property to the northeast, which meets the 55 dBA code limit. Noise levels at other receiving properties, which are further away, will be lower and within code limits.

Please contact us if you have any questions or require further information.

Sincerely,
SSA Acoustics, LLP



Alan Burt, P.E.
MANAGING PARTNER
ACOUSTICAL CONSULTANT



RENEWAL DATE: 12/31/25

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