



King County

Department of Local Services
Road Services Division

September 19, 2024

TO: Stacy Graves, Assistant Planner, Permitting Division

Initial
KM

FM: Katie Merrell, Environmental Engineer, Environmental Unit

RE: Construction Hours Noise Variance Request
16th Avenue SW: SW 100th Street to SW 107th Street Project No. 1138918

King County Department of Local Services, Road Services Division (Roads) is requesting a Construction Hours Noise Variance to work outside of normal hours of operation per King County Code (KCC) 12.86.520 in accordance with the requirements of KCC 16.82.105.B. The following information is provided in support of this request.

Applicant: Katie Merrell
Environmental Engineer III, Environmental Unit
Road Services Division, King County Department of Local Services
Mailstop: KSC-LS-0315
201 South Jackson Street
Seattle, WA 98104

Contact: Linda Mott
Project Manager, Traffic and Roadway Design Unit
Road Services Division, King County Department of Local Services
Mailstop: KSC-LS-0315
201 South Jackson Street
Seattle, WA 98104

Project Locations: The project is located on 16th Avenue SW between SW 100th Street and SW 107th Street in White Center, a distance of 0.49 miles. The project site can be found in the Thomas Brothers' Guide on page 624, map grid G5. See the attached Vicinity Map.

Project Description: The project involves grinding existing asphalt pavement, raising/adjusting utility structures, overlaying 0.49-miles from curb-to-curb, and installing striping.

Construction Schedule: It is anticipated that the contractor will complete this work over a period of 14 weeknights between July 1, 2025 and October 31, 2025.

Variance Requested: Roads is requesting a construction hours noise variance to work from 10:00 p.m. to 6:00 a.m., Monday evening to Saturday morning, for 14 weeknights between July 1, 2025 and October 31, 2025. These hours are when 43 of 45 businesses with direct access to 16th Avenue SW are closed. Two remaining businesses, a 24/7 self-serve car wash and Saars Grocery store (open 5:00 a.m. to 2:00 a.m.) would be open during the work hours. Both businesses have access via intersecting roadways as well as 16th Avenue SW.

Justification for Variance: Working at night will improve worker safety, reducing impacts to area businesses which rely on access and on-street parking, and minimize impacts to the public by:

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- Decreasing total working days
- Avoiding peak-hour traffic
- Minimizing risk exposure and traveling inconvenience for the traveling public
- Enabling more efficient linear grinding and overlay outside peak traffic hours
- Minimizing potential economic impacts to businesses

There are 360 residential units including single-family homes, apartments, duplexes, four-plexes and townhomes. In addition, there are 122 businesses within 500-feet of the project site. No known sensitive receivers are located within 500 feet of the work area. Per the requirements under KCC 16.82.105, the proposal is not anticipated to cause significant adverse noise effects to the community.

Anticipated Construction Equipment for Night Work: Equipment to be used includes, but is not limited to, the following: asphalt grinder, dump trucks, asphalt paver with auger, asphalt compactor/roller, portable generator, portable construction lights, hand tools, and other miscellaneous construction equipment. An Equipment Table is attached at the end of this document.

Mitigation Measures: Per KCC 16.82.105(B)(6), Roads proposes measures to minimize noise impacts to avoid health and safety hazards to the community caused by work outside of normal hours of operation; these measures include:

- Specific mitigation measures listed in the attached Equipment Table will be implemented to the extent feasible.
- All vehicles will be equipped with non-pure tone back-up warning devices to the extent allowed or required by the Washington State Department of Labor and Industries; the contractor may use back-up observers in lieu of back-up warning devices for all equipment except dump trucks in compliance with WAC 296-155-610 and 296-155-615.
- All trucks performing export haul will be maintained and approved by the Engineer.
- Truck tailgates will be secured to prevent excessive noise from banging.
- All equipment used during the normal working hours and after hours will be properly muffled and will comply with all applicable local, state, and federal regulations.
- Music, loud voices, radios, and other amplifying equipment will not be used in a manner that is heard outside the immediate work area.
- A copy of the Construction Hours Noise Variance will be kept on the project site at all times.
- Notices will be mailed to addresses within 500 feet of the work area to notify affected residents and businesses at least 14 days prior to starting work.
- The project will provide updates to the Roads "Road Alert" website and provide social media outreach for roadway users and businesses at least 14 days prior to the start of work. The project's webpage for more information is found at:
<https://www.kingcounty.gov/depts/local-services/roads/paving-projects.aspx>
- Roads will maintain an accurate record of the day's work on this project during nighttime hours via the Inspector's Daily Report.
- Contact information during construction for the project is as follows:
 - Victor Dags, Construction Supervisor
206-423-1063, Victor.Daggs@kingcounty.gov
 - Sujay Shandil, Resident Engineer
(206) 423-9181, Sujay.Shandil@kingcounty.gov
 - Roads 24-hour complaint/information hotline
206-477-8100

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Thank you for your assistance with this project. If there are any questions, please contact me at 206-477-3648 or Katie.Merrell@kingcounty.gov.

Enclosures

cc: Rose LeSmith, Section Manager, Engineering Services Section (ESS), Road Services Division (RSD), Department of Local Services (DLS)
Wally Archuleta, Managing Engineer, Traffic & Roadway Design Unit, ESS, RSD, DLS
Victor Daggs, Construction Supervisor, Construction & Pavement Management Unit, ESS, RSD, DLS
Sujay Shandil, Resident Engineer, Construction & Pavement Management Unit, ESS, RSD, DLS
Aileen McManus, Supervising Engineer, Traffic & Roadway Design Unit, ESS, RSD, DLS
Linda Mott, Project Manager, Traffic & Roadway Design Unit, ESS, RSD, DLS
Broch Bender, Communications Specialist IV, RSD, DLS
Amy Bresslour, Project/Program Manager III, RSD, DLS

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**16th Avenue SW: SW 100th Street to SW 107th Street Paving
Impacted Parcels within 500-Feet**

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Equipment Table

Equipment	Sound Level (dBA) ^a					Mitigation Measures
	At 50 ft	At 100 ft	At 200 ft	At 300 ft	At 500 ft	
Air compressor	78	70	63	59	53	When possible, air compressors will be located in areas shielded from direct line of sight from residences or temporary noise shields will be used.
Asphalt grinding machine	84	79	72	68	56	Slow moving mobile operation. Minimize use of backup alarms.
Asphalt roller	75	69	62	54	46	Modern rollers are vibratory static temporary noise. Use at each location will be brief.
Dump truck	76	68	61	57	51	Non-pure tone back up alarms will be utilized; truck tailgate banging is not allowed.
Generator	81	73	66	62	56	When possible, generators will be located in areas shielded from direct line of sight from residences or temporary noise shields will be used. Will only be used when necessary.
Portable light plants and generators	72	66	60	56	52	Existing street lighting will be supplemented as needed with portable light plants and generators that will be low to the ground and directed downward. House-side shields can be added as needed
Pickup truck	75	67	60	56	50	Contractor will avoid parking and idling vehicles next to residences.
Street Sweeper	72	69	66	56	62	Mobile operation. Construction equipment sounds will be in short duration and minimized with non-pure tone backup warning.
Temporary traffic control signs	71	65	59	55	51	Avoid parking equipment next to businesses. Request contractor to provide solar powered signs if possible.

^BBased on published noise levels (L_{max} at 50 ft) for common construction equipment and soft-site noise attenuation (WSDOT Biological Preparation Manual, 2020 Update).