Nimitz Highway and Ala Moana Boulevard Resurfacing, Kalihi Stream Bridge to Atkinson Drive

Public Information Meeting and Noise Variance Consultation

Kukahi Street, Pier 19 Ferry Terminal, Nimitz Highway
June 25, 2019
Provide information to the community about the planned project improvements.

Invite comments for the Community Noise Variance Application (CNV). Comments will be used by the State Department of Health, Indoor and Radiological Health Branch (DOH-IRHB) to evaluate the noise variance request.

Understand community concerns and answer questions so we can mitigate the project’s impact to the neighboring public.
Public Information Meeting Agenda

- Need for the Project
- Construction Scope of Work
- Community Noise Variance Application
- Questions and Answers

Meeting ends at 8:00 p.m.
The existing Nimitz Highway to Ala Moana Boulevard, from Kalihi Stream Bridge to Atkinson Drive needs reconstruction and resurfacing to improve the level of maintenance and make operational improvements for all highway users.
Nimitz Highway and Ala Moana Boulevard Resurfacing, Kalihi Stream Bridge to Atkinson Drive

Project Location

Project Limits (4.87 miles)

Exception Area
(Resurfacing to be done by HART proj.)

BEGIN PROJECT
Kalihi Stream Bridge
Nimitz Highway
Route 92, M.P. 3.66

BEGIN EXCEPTION
River Street
M.P. 5.95

END EXCEPTION
Richards Street
M.P. 6.00

END PROJECT
Atkinson Drive
Ala Moana Boulevard
Route 92, M.P. 8.53
Project Location

Nimitz Highway and Ala Moana Boulevard Resurfacing, Kalihi Stream Bridge to Atkinson Drive

Project Limits (4.87 miles)

Staging Area 1
Sand Island Access Road

Staging Area 2
Pier 38

Staging Area 3
Kukahi Street

Staging Area 4
Forrest Avenue

Staging Area 5
Kaka’ako
Nimitz Highway and Ala Moana Boulevard Resurfacing, Kalihi Stream Bridge to Atkinson Drive

Project Location (Staging Area 1)

Proposed Staging Area 1 – Sand Island Road
Approx. 2,030 S.F. (0.05 acres)
HDOT HWY property

Sand Island Access Road
Nimitz Highway and Ala Moana Boulevard Resurfacing, Kalihi Stream Bridge to Atkinson Drive

Project Location (Staging Area 2)

Proposed Staging Area 2 – Pier 38
Approx. 45,725 S.F. (1.05 acres)
HDOT HAR property
Proposed Staging Area 3 – Kukahi Street
Approx. 29,900 S.F. (0.69 acres)
HDOT HAR property
Nimitz Highway and Ala Moana Boulevard Resurfacing, Kalihi Stream Bridge to Atkinson Drive

Project Location (Staging Area 4)

Proposed Staging Area 4 – Forrest Avenue
Approx. 10,960 S.F. (1.25 acres)
HDOT HAR property
Nimitz Highway and Ala Moana Boulevard Resurfacing, Kalihi Stream Bridge to Atkinson Drive

Project Location (Staging Area 5)

Cooke Street (East)
295' x 10' = 2,950 S.F.
(0.07 acres)

Ohe Street (West)
415' x 15' = 6,225 S.F.
(0.14 acres)

Ohe Street (East)
145' x 10' = 1,450 S.F.
(0.03 acres)

Koula Street (East)
150' x 10' = 1,500 S.F.
(0.03 acres)

Ilalo Street (Mauka)
125' x 10' = 1,250 S.F.
(0.03 acres)

Ilalo Street (Mauka)
100' x 10' = 1,000 S.F.
(0.02 acres)

Ilalo Street (Makai)
125' x 10' = 1,250 S.F.
(0.03 acres)

Ilalo Street (Makai)
100' x 10' = 1,000 S.F.
(0.02 acres)

Ilalo Street (Makai)
100' x 10' = 1,000 S.F.
(0.02 acres)
Project Scope

- Cold Planing – removing top layer of pavement
- Resurfacing – replacing the cold planed area
- Reconstruction of weakened pavement areas
- Adjusting utility manhole frames and covers
- Replacing existing loop detectors, traffic counting stations, and weigh-in motion stations
- Installation of pavement markings
- Striping.
Proposed Schedule

Tentative Start Date  September 2019
Tentative Completion  October 2020
(Approximately 13 month Construction Duration)

Proposed Time of Construction Activities:

- Sunday 12:01 a.m. to Monday 5:30 a.m.
- Monday 7:00 p.m. to Tuesday 5:30 a.m.
- Tuesday 7:00 p.m. to Wednesday 5:30 a.m.
- Wednesday 7:00 p.m. to Thursday 5:30 a.m.
- Thursday 7:00 p.m. to Friday 5:30 a.m.
During Noise Variance hours:

- At least one lane of traffic in each direction will be open at all times during Weekdays (Monday 12:01 a.m. to Friday 5:30 a.m.)
- On Sunday, two lanes of traffic in each direction will be open at all times
- Access to adjacent residences and businesses will be maintained
## What to Expect?

### Construction Activities

| Activity 1 | • Installation of traffic control measures.  
|            | • Mobilization of equipment and tools. |
| Activity 2 | • Adjustment of Manhole Frames and Covers. |
| Activity 3 | • Cold Planing |
| Activity 4 | • Reconstruction of Pavement and Installation of Temporary Striping |
| Activity 5 | • Paving work and Installation of Temporary Striping. |
| Activity 6 | • Replacing Existing Loop Detectors, Traffic Counting Stations, and Weigh-In Motion Stations |
| Activity 7 | • Installation of Permanent Striping |
Why Nightwork?

HDOT is requesting the Noise Variance as construction during the daytime would have severe impacts associated with traffic delays that would be detrimental to the community.
Noise Regulations

HAR Title 11, Chapter 46 sets the rules and restrictions on sound levels for construction projects. It states:

“No permit shall allow any construction activities which emit noise:

- Monday through Friday before 7 a.m. and after 6 p.m. of the same day
- Saturday before 9 a.m. and after 6 p.m.
- Sundays and on Holidays”

A Community Noise Variance must be obtained for any construction activities to occur outside the permissible hours (e.g., after 6 p.m. weekdays).
Proposed Noise Variance

- Variance application requests work be allowed every night, except Friday and Saturday nights, from 7:00 p.m. to 5:30 a.m. and Sundays from 12:01 a.m. to Monday 5:30 a.m.

- Requesting up to two years to allow for unforeseen events/conditions. Approximate duration of construction is estimated to be 13 months.

- Equipment producing noise levels of 85 decibels or higher will only be used when necessary.
Pre-Construction Outreach

- Schedules will be distributed once the Contractor is contracted.
- HDOT will hold a Pre-Construction meeting at least two weeks prior to start of construction.
- Affected Residences and Businesses will be sent notices with the Contractor’s job-site representative available 24/7 to call in advance of night and Sunday work.
## Typical Sound Levels

<table>
<thead>
<tr>
<th>Relative Sound Level</th>
<th>1/2 as loud</th>
<th>Baseline</th>
<th>Twice as loud</th>
<th>Four times as loud</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical Sound Environment</td>
<td>Indoor Office</td>
<td>Urban Residential</td>
<td>Urban Commercial</td>
<td></td>
</tr>
<tr>
<td>Lmax of Common Noise Sources</td>
<td>Washing Machine (3 ft)</td>
<td>Auto (50 mph at 50 ft)</td>
<td>Vacuum Cleaner (3 ft)</td>
<td>Garbage Disposal (3 ft)</td>
</tr>
<tr>
<td>Sound Level dBA</td>
<td>60</td>
<td>65</td>
<td>70</td>
<td>75</td>
</tr>
<tr>
<td>Lmax at 50 ft of Transit Noise Source</td>
<td>Rail Transit with a Barrier (50 mph)</td>
<td>Rail Transit (50 mph) City Bus (50 mph)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Source: EPA 1971, EPA 1974, FTA 2006*
### Equipment List

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Decibels at 50 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Broom</td>
<td>67</td>
</tr>
<tr>
<td>Spreader (Paving Machine)</td>
<td>82</td>
</tr>
<tr>
<td>Front Loader</td>
<td>79</td>
</tr>
<tr>
<td>Light Tower</td>
<td>62</td>
</tr>
<tr>
<td>Concrete Saw</td>
<td>78</td>
</tr>
<tr>
<td>Vacuum*</td>
<td>85</td>
</tr>
<tr>
<td>Static Rollers</td>
<td>75</td>
</tr>
<tr>
<td>Vibratory Rollers</td>
<td>83</td>
</tr>
<tr>
<td>60 to 80 lbs. Pneumatic Pavement Breaker</td>
<td>88</td>
</tr>
<tr>
<td><em>Jackhammer)</em></td>
<td></td>
</tr>
<tr>
<td>Jumping Jack*</td>
<td>100</td>
</tr>
<tr>
<td>Compressor (Air)</td>
<td>81</td>
</tr>
<tr>
<td>Generator</td>
<td>76</td>
</tr>
<tr>
<td>Grader*</td>
<td>85</td>
</tr>
<tr>
<td>Dump Truck</td>
<td>78</td>
</tr>
<tr>
<td>Pick up Truck</td>
<td>75</td>
</tr>
<tr>
<td>Labor Truck</td>
<td>75</td>
</tr>
<tr>
<td>Flatbed Truck</td>
<td>75</td>
</tr>
<tr>
<td>Hauling Truck</td>
<td>78</td>
</tr>
<tr>
<td>Backhoe*</td>
<td>85</td>
</tr>
<tr>
<td>Water Truck</td>
<td>75</td>
</tr>
<tr>
<td>Striping Machine</td>
<td>78</td>
</tr>
<tr>
<td>Cold Planing Machine</td>
<td>83</td>
</tr>
<tr>
<td>Bobcat Skid Loader*</td>
<td>85</td>
</tr>
<tr>
<td>Electric Mudgun*</td>
<td>85</td>
</tr>
<tr>
<td>Komatsu Mini Excavator*</td>
<td>85</td>
</tr>
<tr>
<td>Backhoe with Hammer*</td>
<td>90</td>
</tr>
<tr>
<td>Paver*</td>
<td>93.1</td>
</tr>
<tr>
<td>Shuttlebuggy*</td>
<td>94.2</td>
</tr>
<tr>
<td>Rubber Tire Roller (Sakai)*</td>
<td>91.6</td>
</tr>
<tr>
<td>Steel Drum Roller (Dynapac)*</td>
<td>89.7</td>
</tr>
<tr>
<td>Steel Drum Roller (Hypac)*</td>
<td>99</td>
</tr>
<tr>
<td>Steel Drum Roller w/vibration (Bomag)*</td>
<td>95.6</td>
</tr>
<tr>
<td>Kickout broom (Kubota)</td>
<td>84</td>
</tr>
</tbody>
</table>

* Equipment with Noise Level Readings of 85 Decibels or more
## Equipment List

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<th>Equipment</th>
<th>Decibels at 50 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backhoe (Case)*</td>
<td>94.1</td>
</tr>
<tr>
<td>Steel Drum Roller (Sakai)*</td>
<td>103</td>
</tr>
<tr>
<td>Striping Truck*</td>
<td>87.5</td>
</tr>
<tr>
<td>Vac Truck with Sweeper</td>
<td>82</td>
</tr>
<tr>
<td>Distributor Truck</td>
<td>78</td>
</tr>
<tr>
<td>Plate Compactor/Tamper*</td>
<td>85</td>
</tr>
<tr>
<td>Propane Truck</td>
<td>78</td>
</tr>
</tbody>
</table>

* Equipment with Noise Level Readings of 85 Decibels or more
Construction Noise Reduction

• Maintain all equipment in good working order

• Use of adequate sound mufflers and intake silencers for construction equipment

• Locate compressors and generators as far from residences as possible

• Contact information for the designated Contractor Representative to address complaints and will be available 24/7.
Community Noise Variance Application

- Application was submitted to Department of Health for night work to occur, except Friday and Saturday nights, from 7:00 p.m. to 5:30 a.m. and Sunday from 12:01 a.m. to Monday 5:30 a.m.
Questions and Answers

- Please be respectful to those speaking
- Please keep focused on the noise variance issues for the proposed project
HDOT

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hidot.hawaii.gov
HDOT Facebook & Twitter
587-2160

HDOT Oahu Lane Closures
http://hidot.hawaii.gov/highways/roadwork/oahu/
More Information

Comments on Noise Variance

The 14-day Public Comment Period for the Proposed Community Noise Variance is until July 10, 2019.

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Mahalo!