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Attachment N.3A Noise Measurement Data, Site Details, and Photographs

This attachment presents a data summary form for each noise monitoring location. Forms include the location, noise measurement equipment used, measurement data, weather observed during monitoring, and photographs of the site.

N.3A.1 Short-Term Noise Measurements

Monitoring Location

| Monitoring No. | ST-1 |
|----------------|----------------------------|
| Address | 4500 39th Avenue Southwest |
| Area | West Seattle |
| Parcel | 095200-7350 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 51818 |
| Microphone | ACO Pacific 7052E | 62522 |
| Preamplifier | Svantek SV18 | 49561 |
| Calibrator | Larson Davis CAL200 | 9512 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/22/2019 | 8/26/2019 |
| Start Time | 8:55 a.m. | 4:32 p.m. |
| End Time | 9:25 a.m. | 5:02 p.m. |
| L _{eq} sound level | 57.1 A-weighted decibels | 57.7 A-weighted decibels |
| Day-night average sound level | 55.4 A-weighted decibels | 55.4 A-weighted decibels |

| Measurement | 8/22/2019 | 8/26/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 59 degrees Fahrenheit | 76 degrees Fahrenheit |
| Pressure | 30.1 inches | 30.1 inches |
| Wind Speed | 5 miles per hour | 9 miles per hour |
| Wind Direction | South southwest | Northwest |

Plan View (ST-1)



Looking North (ST-1)



Looking South (ST-1)



Looking East (ST-1)



Looking West (ST-1)



| Monitoring No. | ST-2 |
|----------------|----------------------------|
| Address | 4530 38th Southwest Avenue |
| Area | West Seattle |
| Parcel | 095200-7660 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 51818 |
| Microphone | ACO Pacific 7052E | 62522 |
| Preamplifier | Svantek SV18 | 49561 |
| Calibrator | Larson Davis CAL200 | 9512 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/22/2019 | 8/26/2019 |
| Start Time | 8:06 a.m. | 3:55 p.m. |
| End Time | 8:36 a.m. | 4:25 p.m. |
| L _{eq} sound level | 68.8 A-weighted decibels | 68.8 A-weighted decibels |
| Day-night average sound level | 66.8 A-weighted decibels | 66.8 A-weighted decibels |

| Measurement | 8/22/2019 | 8/26/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 58 degrees Fahrenheit | 76 degrees Fahrenheit |
| Pressure | 30.1 inches | 30.1 inches |
| Wind Speed | 7 miles per hour | 13 miles per hour |
| Wind Direction | Southeast | Northwest |

Plan View (ST-2)



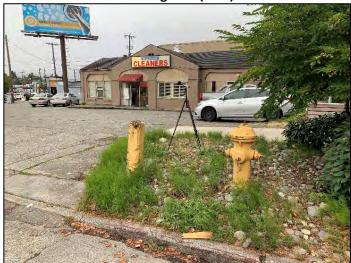
Looking North (ST-2)



Looking South (ST-2)



Looking East (ST-2)



Looking West (ST-2)



| Monitoring No. | ST-3 |
|----------------|----------------------------|
| Address | 4470 35th Avenue Southwest |
| Area | West Seattle |
| Parcel | 132403-9014 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | ACO Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/22/2019 | 8/22/2019 |
| Start Time | 7:47 a.m. | 5:36 p.m. |
| End Time | 8:17 a.m. | 6:06 p.m. |
| L _{eq} sound level | 69.5 A-weighted decibels | 68.2 A-weighted decibels |
| Day-night average sound level | 66.9 A-weighted decibels | 66.9 A-weighted decibels |

| Measurement | 8/22/2019 | 8/22/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 58 degrees Fahrenheit | 76 degrees Fahrenheit |
| Pressure | 30.1 inches | 30.1 inches |
| Wind Speed | 4 miles per hour | 4 miles per hour |
| Wind Direction | South | South |

Plan View (ST-3)



Looking North (ST-3)



Looking South (ST-3)







Looking West (ST-3)



| Monitoring No. | ST-4 |
|----------------|-------------------------------|
| Address | Longfellow Creek Legacy Trail |
| Area | West Seattle |
| Parcel | 935800-1220 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | ACO Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/22/2019 | 8/23/2019 |
| Start Time | 8:27 a.m. | 6:15 p.m. |
| End Time | 8:57 a.m. | 6:45 p.m. |
| L _{eq} sound level | 47.2 A-weighted decibels | 46.0 A-weighted decibels |
| Day-night average sound level | 44.6 A-weighted decibels | 44.6 A-weighted decibels |

| Measurement | 8/22/2019 | 8/23/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 59 degrees Fahrenheit | 75 degrees Fahrenheit |
| Pressure | 30.1 inches | 30.0 inches |
| Wind Speed | 4 miles per hour | 1 mile per hour |
| Wind Direction | South | South |



Looking North (ST-4)



Looking South (ST-4)







Looking West (ST-4)



| Monitoring No. | ST-5 |
|----------------|-----------------------------|
| Address | 4501 Delridge Way Southwest |
| Area | West Seattle |
| Parcel | 132403-9030 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 979 | 46177 |
| Microphone | GRAS 40AE | 258193 |
| Preamplifier | Svantek SV17 | 57824 |
| Calibrator | Larson Davis CAL200 | 16828 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/22/2019 | 8/26/2019 |
| Start Time | 7:42 a.m. | 4:07 p.m. |
| End Time | 8:12 a.m. | 4:37 p.m. |
| L _{eq} sound level | 74.2 A-weighted decibels | 56.1 A-weighted decibels |
| Day-night average sound level | 69.3 A-weighted decibels | 69.3 A-weighted decibels |

| Measurement | 8/22/2019 | 8/26/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 56 degrees Fahrenheit | 74 degrees Fahrenheit |
| Pressure | 30.1 inches | 30.1 inches |
| Wind Speed | 4 miles per hour | 11 miles per hour |
| Wind Direction | South | North |



Looking North (ST-5)



Looking South (ST-5)







Looking West (ST-5)



| Monitoring No. | ST-6 |
|----------------|-----------------------------|
| Address | 4408 Delridge Way Southwest |
| Area | West Seattle |
| Parcel | 338812-0000 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 979 | 46177 |
| Microphone | GRAS 40AE | 258193 |
| Preamplifier | Svantek SV17 | 57824 |
| Calibrator | Larson Davis CAL200 | 16828 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/22/2019 | 8/26/2019 |
| Start Time | 8:42 a.m. | 4:43 p.m. |
| End Time | 9:12 a.m. | 5:13 p.m. |
| L _{eq} sound level | 73.5 A-weighted decibels | 73.9 A-weighted decibels |
| Day-night average sound level | 71.7 A-weighted decibels | 71.7 A-weighted decibels |

| Measurement | 8/22/2019 | 8/26/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 56 degrees Fahrenheit | 74 degrees Fahrenheit |
| Pressure | 30.1 inches | 30.1 inches |
| Wind Speed | 4 miles per hour | 10 miles per hour |
| Wind Direction | South | North |

Plan View (ST-6)



Looking North (ST-6)



Looking South (ST-6)



Looking East (ST-6)



Looking West (ST-6)



| Monitoring No. | ST-7 |
|----------------|---------------------------------|
| Address | 1011 Southwest Klickitat Avenue |
| Area | Crossing |
| Parcel | 766670-1220 |

Equipment

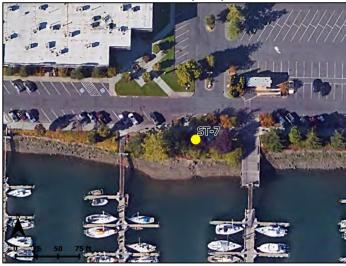
| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | ACO Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/22/2019 | 8/26/2019 |
| Start Time | 9:21 a.m. | 5:32 p.m. |
| End Time | 9:51 a.m. | 6:02 p.m. |
| L _{eq} sound level | 59.4 A-weighted decibels | 62.6 A-weighted decibels |
| Day-night average sound level | 59.3 A-weighted decibels | 59.3 A-weighted decibels |

| Measurement | 8/22/2019 | 8/26/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 60 degrees Fahrenheit | 74 degrees Fahrenheit |
| Pressure | 30.1 inches | 30.1 inches |
| Wind Speed | 3 miles per hour | 10 mile per hour |
| Wind Direction | South | North |





Looking North (ST-7)



Looking South (ST-7)







| Monitoring No. | ST-8 |
|----------------|--|
| Address | Queen Anne Greenbelt Trail (south end) |
| Area | Ballard |
| Parcel | 616990-0320 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | ACO Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/23/2019 | 8/23/2019 |
| Start Time | 9:45 a.m. | 3:34 p.m. |
| End Time | 10:15 a.m. | 4:04 p.m. |
| L _{eq} sound level | 62.0 A-weighted decibels | 63.6 A-weighted decibels |
| Day-night average sound level | 60.9 A-weighted decibels | 60.9 A-weighted decibels |

| Measurement | 8/23/2019 | 8/23/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 64 degrees Fahrenheit | 68 degrees Fahrenheit |
| Pressure | 29.9 inches | 29.9 inches |
| Wind Speed | 3 miles per hour | 2 mile per hour |
| Wind Direction | North | Northwest |





Looking North (ST-8)



Looking South (ST-8)







Looking West (ST-8)



| Monitoring No. | ST-9 |
|----------------|--|
| Address | Queen Anne Greenbelt Trail (north end) |
| Area | Ballard |
| Parcel | 616990-0320 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | ACO Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/23/2019 | 8/23/2019 |
| Start Time | 9:01 a.m. | 3:31 p.m. |
| End Time | 9:31 a.m. | 4:04 p.m. |
| L _{eq} sound level | 55.2 A-weighted decibels | 56.8 A-weighted decibels |
| Day-night average sound level | 54.1 A-weighted decibels | 54.1 A-weighted decibels |

| Measurement | 8/23/2019 | 8/23/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 62 degrees Fahrenheit | 69 degrees Fahrenheit |
| Pressure | 29.9 inches | 29.7 inches |
| Wind Speed | 2 miles per hour | 5 mile per hour |
| Wind Direction | Southwest | North |



Looking North (ST-9)



Looking South (ST-9)







Looking West (ST-9)



| Monitoring No. | ST-10 |
|----------------|-----------------------|
| Address | 2451 15th Avenue West |
| Area | Ballard |
| Parcel | 277110-8091 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | ACO Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/26/2019 | 8/26/2019 |
| Start Time | 9:00 a.m. | 5:22 p.m. |
| End Time | 9:30 a.m. | 5:52 p.m. |
| L _{eq} sound level | 60.8 A-weighted decibels | 61.8 A-weighted decibels |
| Day-night average sound level | 59.3 A-weighted decibels | 59.3 A-weighted decibels |

| Measurement | 8/26/2019 | 8/26/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 59 degrees Fahrenheit | 75 degrees Fahrenheit |
| Pressure | 30.3 inches | 30.2 inches |
| Wind Speed | 3 miles per hour | 4 mile per hour |
| Wind Direction | Northwest | Northwest |

Plan View (ST-10)



Looking North (ST-10)



Looking South (ST-10)



Looking East (ST-10)



Looking West (ST-10)



| Monitoring No. | ST-11 |
|----------------|-----------------------|
| Address | 3027 17th Avenue West |
| Area | Ballard |
| Parcel | 277110-8091 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | ACO Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/23/2019 | 8/22/2019 |
| Start Time | 7:41 a.m. | 4:01 p.m. |
| End Time | 8:11 a.m. | 4:31 p.m. |
| L _{eq} sound level | 56.4 A-weighted decibels | 55.7 A-weighted decibels |
| Day-night average sound level | 54.1 A-weighted decibels | 54.1 A-weighted decibels |

| Measurement | 8/23/2019 | 8/22/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 57 degrees Fahrenheit | 74 degrees Fahrenheit |
| Pressure | 30.0 inches | 30.0 inches |
| Wind Speed | 2 miles per hour | 6 mile per hour |
| Wind Direction | North | Southwest |

Plan View (ST-11)



Looking North (ST-11)



Looking South (ST-11)



Looking East (ST-11)



Looking West (ST-11)



| Monitoring No. | ST-12 |
|----------------|--------------------------|
| Address | 1401 Northwest Leary Way |
| Area | Ballard |
| Parcel | 276830-2590 |

Equipment

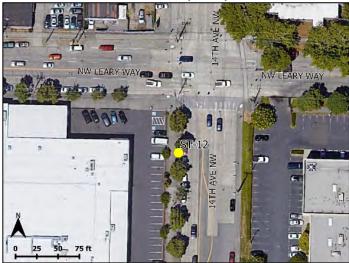
| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 51818 |
| Microphone | ACO Pacific 7052E | 62522 |
| Preamplifier | Svantek SV18 | 49561 |
| Calibrator | Larson Davis CAL200 | 9512 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/28/2019 | 8/27/2019 |
| Start Time | 7:41 a.m. | 4:46 p.m. |
| End Time | 8:11 a.m. | 5:16 p.m. |
| L _{eq} sound level | 65.5 A-weighted decibels | 64.5 A-weighted decibels |
| Day-night average sound level | 63.0 A-weighted decibels | 63.0 A-weighted decibels |

| Measurement | 8/28/2019 | 8/27/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 78 degrees Fahrenheit | 68 degrees Fahrenheit |
| Pressure | 29.6 inches | 29.6 inches |
| Wind Speed | 10 miles per hour | 1 mile per hour |
| Wind Direction | North | Southeast |

Plan View (ST-12)



Looking North (ST-12)



Looking South (ST-12)



Looking East (ST-12)



Looking West (ST-12)



| Monitoring No. | ST-13 |
|----------------|---------------------------|
| Address | 923 Northwest 54th Street |
| Area | Ballard |
| Parcel | 276830-0695 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | ACO Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Measurement Information | Morning Measurement | Afternoon Measurement |
|-------------------------------|--------------------------|--------------------------|
| Date | 8/26/2019 | 8/27/2019 |
| Start Time | 8:10 a.m. | 3:38 p.m. |
| End Time | 8:40 a.m. | 4:08 p.m. |
| L _{eq} sound level | 55.1 A-weighted decibels | 56.1 A-weighted decibels |
| Day-night average sound level | 53.6 A-weighted decibels | 53.6 A-weighted decibels |

| Measurement | 8/23/2019 | 8/22/2019 | |
|----------------|-----------------------|-------------------------|--|
| Temperature | 57 degrees Fahrenheit | 78.1 degrees Fahrenheit | |
| Pressure | 30.3 inches | 30.4 inches | |
| Wind Speed | 3 miles per hour | 11 mile per hour | |
| Wind Direction | Northwest | North | |

Plan View (ST-13)



Looking North (ST-13)



Looking South (ST-13)



Looking East (ST-13)







| Monitoring No. | ST-14 |
|----------------|----------------------------|
| Address | 1415 Northwest 58th Street |
| Area | Ballard |
| Parcel | 276790-0390 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 51818 |
| Microphone | ACO Pacific 7052E | 62522 |
| Preamplifier | Svantek SV18 | 49561 |
| Calibrator | Larson Davis CAL200 | 9512 |

Measurement Data

| Measurement Information | nation Morning Measurement Afternoon Measureme | |
|-------------------------------|--|--------------------------|
| Date | 8/28/2019 | 8/28/2019 |
| Start Time | 8:30 a.m. | 4:22 p.m. |
| End Time | 9:00 a.m. | 4:52 p.m. |
| L _{eq} sound level | 56.9 A-weighted decibels | 58.8 A-weighted decibels |
| Day-night average sound level | 56.0 A-weighted decibels | 56.0 A-weighted decibels |

| Measurement | 8/28/2019 | 8/28/2019 |
|----------------|-----------------------|-----------------------|
| Temperature | 71 degrees Fahrenheit | 85 degrees Fahrenheit |
| Pressure | 29.5 inches | 29.5 inches |
| Wind Speed | 5 miles per hour | 9 mile per hour |
| Wind Direction | North | North |

Plan View (ST-14)

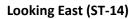


Looking North (ST-14)



Looking South (ST-14)







Looking West (ST-14)



N.3A.2 Long-Term Noise Measurements

Monitoring Location

| Monitoring No. | M-1 |
|----------------|-------------------------------|
| Address | 4023 Southwest Edmunds Street |
| Area | West Seattle |
| Parcel | 757920-0491 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|-------------------------|---------------|
| Level Analyzer | Bruel and Kjaer 2250 | 3006756 |
| Microphone | Bruel and Kjaer 4189 | 2550228 |
| Preamplifier | Bruel and Kjaer ZC-0032 | 24600 |
| Calibrator | Bruel and Kjaer 4231 | 2545696 |

Measurement Data

| Start Date | 10/22/2019 |
|---------------------------------------|------------------------|
| End Date | 10/25/2019 |
| Start Time | 9:00 a.m. |
| End Time | 9:00 a.m. |
| Peak Hour L _{eq} sound level | 62 A-weighted decibels |
| Day-night average sound level | 62 A-weighted decibels |

| Measurement | 10/22/2019 | 10/23/2019 | 10/24/2019 | 10/25/2019 |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature | 53 degrees Fahrenheit | 48 degrees Fahrenheit | 50 degrees Fahrenheit | 51 degrees Fahrenheit |
| Pressure | 30.3 inches | 30.5 inches | 30.4 inches | 30.2 inches |
| Wind Speed | 0 miles per hour | 0 miles per hour | 0 miles per hour | 1 miles per hour |
| Wind Direction | West northwest | West southwest | West southwest | Southwest |

Plan View (M-1)



Looking North (M-1)



Looking South (M-1)





| Monitoring No. | M-4 |
|----------------|----------------------------|
| Address | 4700 38th Avenue Southwest |
| Area | West Seattle |
| Parcel | 612660-0005 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek SV307 | 78633 |
| Microphone | Svantek ST30 | 82565 |
| Preamplifier | N/A | N/A |
| Calibrator | Larson Davis CAL200 | 16826 |

Measurement Data

| Start Date | 12/6/2019 |
|---------------------------------------|------------------------|
| End Date | 12/10/2019 |
| Start Time | 11:00 a.m. |
| End Time | 1:00 p.m. |
| Peak Hour L _{eq} sound level | 69 A-weighted decibels |
| Day-night average sound level | 68 A-weighted decibels |

| Measurement | 12/7/2019 | 12/8/2019 | 12/9/2019 |
|-------------------|--------------------------|--------------------------|--------------------------|
| Temperature | 55 degrees Fahrenheit | 47 degrees Fahrenheit | 45 degrees Fahrenheit |
| Pressure | 29.9 inches | 30.3 inches | 30.2 inches |
| Wind Speed | 1 mile per hour | 1 mile per hour | 2 miles per hour |
| Wind Direction | Northwest | Northeast | South |

Plan View (M-4)



Looking North (M-4)



Looking South (M-4)



Looking East (M-4)



Looking West (M-4)



| Monitoring No. | M-5 |
|----------------|----------------------------|
| Address | 4450 38th Avenue Southwest |
| Area | West Seattle |
| Parcel | 095200-4935 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek SV307 | 78654 |
| Microphone | Svantek ST30 | 82345 |
| Preamplifier | N/A | N/A |
| Calibrator | Larson Davis CAL200 | 16826 |

Measurement Data

| Start Date | 2/11/2020 |
|---------------------------------------|------------------------|
| End Date | 2/14/2020 |
| Start Time | 3:00 p.m. |
| End Time | 9:00 a.m. |
| Peak Hour L _{eq} sound level | 66 A-weighted decibels |
| Day-night average sound level | 68 A-weighted decibels |

| Measurement | 2/11/2020 | 2/12/2020 | 2/13/2020 | 2/14/2020 |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature | 41 degrees Fahrenheit | 45 degrees Fahrenheit | 42 degrees Fahrenheit | 44 degrees Fahrenheit |
| Pressure | 30.5 inches | 30.4 inches | 30.2 inches | 30.2 inches |
| Wind Speed | 1 mile per hour | 0 miles per hour | 3 miles per hour | 4 mile per hour |
| Wind Direction | South | Southeast | South | Southwest |

Plan View (M-5)



Looking North (M-5)



Looking South (M-5)



Looking East (M-5)



Looking West (M-5)



| Monitoring No. | M-9 |
|----------------|--------------------------------|
| Address | 3256 Southwest Avalon Way #401 |
| Area | West Seattle |
| Parcel | 032100-0000 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek SV307 | 78633 |
| Microphone | Svantek ST30 | 82565 |
| Preamplifier | N/A | N/A |
| Calibrator | Larson Davis CAL200 | 16826 |

Measurement Data

| Start Date | 1/6/2020 |
|---------------------------------------|------------------------|
| End Date | 1/10/2020 |
| Start Time | 2:00 p.m. |
| End Time | 2:00 p.m. |
| Peak Hour L _{eq} sound level | 67 A-weighted decibels |
| Day-night average sound level | 68 A-weighted decibels |

| Measurement | 1/7/2020 | 1/8/2020 | 1/9/2020 | 1/10/2020 |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature | 50 degrees Fahrenheit | 40 degrees Fahrenheit | 35 degrees Fahrenheit | 40 degrees Fahrenheit |
| Pressure | 29.8 inches | 30.0 inches | 30.1 inches | 30.0 inches |
| Wind Speed | 7 miles per hour | 3 miles per hour | 0 miles per hour | 4 miles per hour |
| Wind Direction | Southwest | Southwest | Southeast | South |

Plan View (M-9)



Looking South (M-9)



Looking East (M-9)





| Monitoring No. | M-10 |
|----------------|-------------------------------|
| Address | 4147 Fauntleroy Way Southwest |
| Area | West Seattle |
| Parcel | 929730-1525 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek SV307 | 78633 |
| Microphone | Svantek ST30 | 82565 |
| Preamplifier | N/A | N/A |
| Calibrator | Larson Davis CAL200 | 16826 |

Measurement Data

| Start Date | 2/14/2020 |
|---------------------------------------|------------------------|
| End Date | 2/20/2020 |
| Start Time | 9:00 a.m. |
| End Time | 3:00 p.m. |
| Peak Hour L _{eq} sound level | 70 A-weighted decibels |
| Day-night average sound level | 73 A-weighted decibels |

| Measurement | 2/17/2020 | 2/18/2020 | 2/19/2020 |
|----------------|-----------------------|-----------------------|-----------------------|
| Temperature | 44 degrees Fahrenheit | 38 degrees Fahrenheit | 30 degrees Fahrenheit |
| Pressure | 30.3 inches | 30.4 inches | 30.5 inches |
| Wind Speed | 4 miles per hour | 3 miles per hour | 1 mile per hour |
| Wind Direction | Southwest | North | Northwest |



Looking North (M-10)





| Monitoring No. | M-11 |
|----------------|-------------------------------|
| Address | 3225 Southwest Genesee Street |
| Area | West Seattle |
| Parcel | 929730-1780 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 51818 |
| Microphone | Aco Pacific 7052E | 62522 |
| Preamplifier | Svantek SV18 | 49561 |
| Calibrator | Larson Davis CAL200 | 9512 |

Measurement Data

| Start Date | 11/12/2019 |
|---------------------------------------|------------------------|
| End Date | 11/14/2019 |
| Start Time | 12:00 p.m. |
| End Time | 1:00 p.m. |
| Peak Hour L _{eq} sound level | 56 A-weighted decibels |
| Day-night average sound level | 59 A-weighted decibels |

| Measurement | 11/12/2019 | 11/13/2019 | 11/14/2019 |
|----------------|-----------------------|-----------------------|-----------------------|
| Temperature | 50 degrees Fahrenheit | 50 degrees Fahrenheit | 48 degrees Fahrenheit |
| Pressure | 30.1 inches | 30.1 inches | 30.0 inches |
| Wind Speed | 0 miles per hour | 0 miles per hour | 2 miles per hour |
| Wind Direction | Northwest | Northwest | Southwest |

Plan View (M-11)



Looking North (M-11)



Looking South (M-11)



Looking East (M-11)



Looking West (M-11)



| Monitoring No. | M-12 |
|----------------|----------------------------|
| Address | 4143 32nd Avenue Southwest |
| Area | West Seattle |
| Parcel | 929730-1220 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | Aco Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Start Date | 2/11/2020 |
|---------------------------------------|------------------------|
| End Date | 2/14/2020 |
| Start Time | 2:00 p.m. |
| End Time | 9:00 a.m. |
| Peak Hour L _{eq} sound level | 53 A-weighted decibels |
| Day-night average sound level | 56 A-weighted decibels |

| Measurement | 2/11/2020 | 2/12/2020 | 2/13/2020 | 2/14/2020 |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature | 41 degrees Fahrenheit | 45 degrees Fahrenheit | 42 degrees Fahrenheit | 44 degrees Fahrenheit |
| Pressure | 30.5 inches | 30.4 inches | 30.2 inches | 30.2 inches |
| Wind Speed | 1 mile per hour | 0 miles per hour | 3 miles per hour | 4 miles per hour |
| Wind Direction | South | Southeast | South | Southwest |











Looking West (M-12)



| Monitoring No. | M-13 | |
|----------------|-------------------------------|--|
| Address | 2848 Southwest Genesee Street | |
| Area | West Seattle | |
| Parcel | 935800-2353 | |

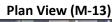
Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 51818 |
| Microphone | Aco Pacific 7052E | 62522 |
| Preamplifier | Svantek SV18 | 49561 |
| Calibrator | Larson Davis CAL200 | 9512 |

Measurement Data

| Start Date | 10/22/2019 | |
|---------------------------------------|------------------------|--|
| End Date | 10/25/2019 | |
| Start Time | 11:00 a.m. | |
| End Time | 9:00 a.m. | |
| Peak Hour L _{eq} sound level | 60 A-weighted decibels | |
| Day-night average sound level | 60 A-weighted decibels | |

| Measurement | 10/22/2019 | 10/23/2019 | 10/24/2019 | 10/25/2019 |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature | 55 degrees Fahrenheit | 47 degrees Fahrenheit | 50 degrees Fahrenheit | 51 degrees Fahrenheit |
| Pressure | 30.3 inches | 30.5 inches | 30.4 inches | 30.7 inches |
| Wind Speed | 2 miles per hour | 2 miles per hour | 0 miles per hour | 3 miles per hour |
| Wind Direction | South | Northwest | East northeast | South southwest |





Looking North (M-13)



Looking South (M-13)





| Monitoring No. | M-15 | |
|----------------|----------------------------|--|
| Address | 4421 26th Avenue Southwest | |
| Area | West Seattle | |
| Parcel | 177260-0710 | |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 307 | 78647 |
| Microphone | Svantek ST30 | 79071 |
| Preamplifier | N/A | N/A |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Start Date | 12/6/2019 |
|---------------------------------------|------------------------|
| End Date | 12/10/2019 |
| Start Time | 10:00 a.m. |
| End Time | 1:00 p.m. |
| Peak Hour L _{eq} sound level | 51 A-weighted decibels |
| Day-night average sound level | 53 A-weighted decibels |

| Measurement | 12/7/2019 | 12/8/2019 | 12/9/2019 |
|----------------|-----------------------|-----------------------|-----------------------|
| Temperature | 55 degrees Fahrenheit | 47 degrees Fahrenheit | 45 degrees Fahrenheit |
| Pressure | 29.9 inches | 30.3 inches | 30.2 inches |
| Wind Speed | 0 miles per hour | 1 mile per hour | 2 miles per hour |
| Wind Direction | Northwest | Northeast | South |

Plan View (M-15)



Looking North (M-15)



Looking South (M-15)



Looking East (M-15)



Looking West (M-15)



| Monitoring No. | M-16 |
|----------------|----------------------------|
| Address | 4106 26th Avenue Southwest |
| Area | West Seattle |
| Parcel | 789160-0017 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 307 | 78633 |
| Microphone | Svantek ST30 | 82565 |
| Preamplifier | N/A | N/A |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Start Date | 1/16/2020 |
|---------------------------------------|------------------------|
| End Date | 1/22/2020 |
| Start Time | 9:00 a.m. |
| End Time | 10:00 a.m. |
| Peak Hour L _{eq} sound level | 52 A-weighted decibels |
| Day-night average sound level | 54 A-weighted decibels |

| Measurement | 1/17/2020 | 1/20/2020 | 1/21/2020 | 1/22/2020 |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature | 39 degrees Fahrenheit | 38 degrees Fahrenheit | 46 degrees Fahrenheit | 45 degrees Fahrenheit |
| Pressure | 29.7 inches | 30.0 inches | 29.7 inches | 30.0 inches |
| Wind Speed | 3 miles per hour | 1 mile per hour | 5 miles per hour | 5 miles per hour |
| Wind Direction | Southwest | Southwest | Southwest | South |

Plan View (M-16)



Looking North (M-16)



Looking South (M-16)







Looking West (M-16)



| Monitoring No. | M-17 |
|----------------|----------------------------|
| Address | 4143 23rd Avenue Southwest |
| Area | West Seattle |
| Parcel | 789210-0020 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | Aco Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Start Date | 11/12/2019 |
|---------------------------------------|------------------------|
| End Date | 11/14/2019 |
| Start Time | 11:00 a.m. |
| End Time | 1:00 p.m. |
| Peak Hour L _{eq} sound level | 59 A-weighted decibels |
| Day-night average sound level | 62 A-weighted decibels |

| Measurement | 11/12/2019 | 11/13/2019 | 11/14/2019 |
|----------------|-----------------------|-----------------------|-----------------------|
| Temperature | 50 degrees Fahrenheit | 50 degrees Fahrenheit | 48 degrees Fahrenheit |
| Pressure | 30.1 inches | 30.1 inches | 30.0 inches |
| Wind Speed | 0 miles per hour | 0 miles per hour | 2 miles per hour |
| Wind Direction | Northwest | Northwest | Southwest |

Plan View (M-17)



Looking North (M-17)



Looking South (M-17)





Looking West (M-17)



| Monitoring No. | M-20 |
|----------------|----------------------------|
| Address | 3709 20th Avenue Southwest |
| Area | West Seattle |
| Parcel | 934990-0080 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 307 | 78661 |
| Microphone | Svantek ST 30 | 82349 |
| Preamplifier | N/A | N/A |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Start Date | 1/16/2020 |
|---------------------------------------|------------------------|
| End Date | 1/22/2020 |
| Start Time | 10:00 a.m. |
| End Time | 11:00 a.m. |
| Peak Hour L _{eq} sound level | 72 A-weighted decibels |
| Day-night average sound level | 75 A-weighted decibels |

| Measurement | 1/16/2020 | 1/17/2020 | 1/20/2020 | 1/21/2020 |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature | 39 degrees Fahrenheit | 38 degrees Fahrenheit | 46 degrees Fahrenheit | 45 degrees Fahrenheit |
| Pressure | 29.7 inches | 30.0 inches | 29.7 inches | 30.0 inches |
| Wind Speed | 3 miles per hour | 1 mile per hour | 5 miles per hour | 5 miles per hour |
| Wind Direction | Southwest | Southwest | Southwest | South |

Plan View (M-20)



Looking South (M-20)



Looking East (M-20)







| Monitoring No. | M-21 | |
|----------------|----------------------------|--|
| Address | 3712 19th Avenue Southwest | |
| Area | West Seattle | |
| Parcel | 934990-0225 | |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | Aco Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Start Date | 10/22/2019 |
|---------------------------------------|------------------------|
| End Date | 10/25/2019 |
| Start Time | 10:00 a.m. |
| End Time | 9:00 a.m. |
| Peak Hour L _{eq} sound level | 72 A-weighted decibels |
| Day-night average sound level | 75 A-weighted decibels |

| Measurement | 10/22/2019 | 10/23/2019 | 10/24/2019 | 10/25/2019 |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature | 55 degrees Fahrenheit | 47 degrees Fahrenheit | 50 degrees Fahrenheit | 51 degrees Fahrenheit |
| Pressure | 30.3 inches | 30.5 inches | 30.4 inches | 30.7 inches |
| Wind Speed | 2 miles per hour | 2 miles per hour | 0 miles per hour | 3 miles per hour |
| Wind Direction | South | Northwest | East northeast | South southwest |

Plan View (M-21)



Looking North (M-21)



Looking South (M-21)







Looking West (M-21)



| Monitoring No. | M-22 | |
|----------------|----------------------------|--|
| Address | 3823 17th Avenue Southwest | |
| Area | West Seattle | |
| Parcel | 754730-0940 | |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 958 | 59108 |
| Microphone | Svantek Mk255 | 12529 |
| Preamplifier | Svantek SV12L | 57961 |
| Calibrator | Larson Davis CAL200 | 9512 |

Measurement Data

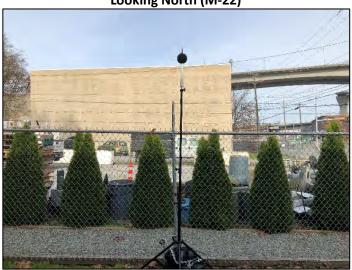
| Start Date | 11/7/2019 |
|---------------------------------------|------------------------|
| End Date | 11/14/2019 |
| Start Time | 12:00 p.m. |
| End Time | 1:00 p.m. |
| Peak Hour L _{eq} sound level | 67 A-weighted decibels |
| Day-night average sound level | 69 A-weighted decibels |

| Measurement | 11/7/2019 | 11/8/2019 | 11/11/2019 | 11/12/2019 | 11/13/2019 |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature | 45 degrees Fahrenheit | 48 degrees Fahrenheit | 50 degrees Fahrenheit | 50 degrees Fahrenheit | 48 degrees Fahrenheit |
| Pressure | 30.2 inches | 30.1 inches | 30.1 inches | 30.1 inches | 30.0 inches |
| Wind Speed | 1 mile per hour | 3 miles per hour | 0 miles per hour | 0 miles per hour | 2 miles per hour |
| Wind Direction | Northeast | South | Northwest | Northwest | Southwest |

Plan View (M-22)



Looking North (M-22)



Looking East (M-22)





| Monitoring No. | M-26 | |
|----------------|-----------------------|--|
| Address | 1606 12th Avenue West | |
| Area | Ballard | |
| Parcel | 770510-0165 | |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 958 | 59108 |
| Microphone | Svantek Mk255 | 12529 |
| Preamplifier | Svantek SV12L | 57961 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Start Date | 11/1/2019 |
|---------------------------------------|------------------------|
| End Date | 11/6/2019 |
| Start Time | 11:00 a.m. |
| End Time | 9:00 a.m. |
| Peak Hour L _{eq} sound level | 59 A-weighted decibels |
| Day-night average sound level | 63 A-weighted decibels |

| Measurement | 11/1/2019 | 11/4/2019 | 11/5/2019 | 11/6/2019 |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature | 46 degrees Fahrenheit | 49 degrees Fahrenheit | 46 degrees Fahrenheit | 47 degrees Fahrenheit |
| Pressure | 30.2 inches | 30.0 inches | 29.9 inches | 30.0 inches |
| Wind Speed | 1 mile per hour | 1 mile per hour | 1 mile per hour | 2 miles per hour |
| Wind Direction | North | North | North northeast | North northeast |

Plan View (M-26)



Looking North (M-26)



Looking South (M-26)







Looking West (M-26)



| Monitoring No. | M-29 |
|----------------|-----------------------|
| Address | 2557 14th Avenue West |
| Area | Ballard |
| Parcel | 277110-6055 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | Aco Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

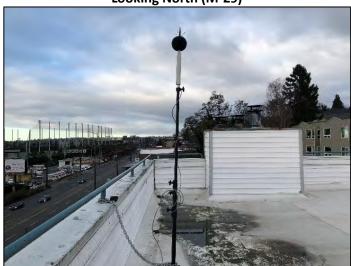
| Start Date | 11/19/2019 |
|---------------------------------------|------------------------|
| End Date | 11/21/2019 |
| Start Time | 4:00 p.m. |
| End Time | 4:00 p.m. |
| Peak Hour L _{eq} sound level | 70 A-weighted decibels |
| Day-night average sound level | 73 A-weighted decibels |

| Measurement | 11/19/2019 | 11/20/2019 | 11/21/2019 |
|----------------|-----------------------|-----------------------|--------------------------|
| Temperature | 47 degrees Fahrenheit | 42 degrees Fahrenheit | 39 degrees Fahrenheit |
| Pressure | 30.0 inches | 30.1 inches | 30.0 inches |
| Wind Speed | 13 miles per hour | 3 miles per hour | 1 mile per hour |
| Wind Direction | North | North | Southwest |

Plan View (M-29)



Looking North (M-29)



Looking South (M-29)







| Monitoring No. | M-33 |
|----------------|-----------------------|
| Address | 3457 14th Avenue West |
| Area | Ballard |
| Parcel | 277060-3545 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 51818 |
| Microphone | Aco Pacific 7052E | 62522 |
| Preamplifier | Svantek SV18 | 49561 |
| Calibrator | Larson Davis CAL200 | 9512 |

Measurement Data

| Start Date | 11/4/2019 |
|---------------------------------------|------------------------|
| End Date | 11/6/2019 |
| Start Time | 11:00 a.m. |
| End Time | 11:00 a.m. |
| Peak Hour L _{eq} sound level | 66 A-weighted decibels |
| Day-night average sound level | 67 A-weighted decibels |

| Measurement | 11/4/2019 | 11/5/2019 | 11/6/2019 |
|----------------|-----------------------|-----------------------|--------------------------|
| Temperature | 48 degrees Fahrenheit | 46 degrees Fahrenheit | 47 degrees Fahrenheit |
| Pressure | 30.3 inches | 30.3 inches | 30.3 inches |
| Wind Speed | 0 miles per hour | 1 mile per hour | 1 mile per hour |
| Wind Direction | North | North | North |

Plan View (M-33)



Looking North (M-33)



Looking South (M-33)







Looking West (M-33)



| Monitoring No. | M-37 | |
|----------------|----------------------------|--|
| Address | 1408 Northeast 50th Street | |
| Area | Ballard | |
| Parcel | 276830-1820 | |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | Aco Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Start Date | 2/14/2020 |
|---------------------------------------|------------------------|
| End Date | 2/20/2020 |
| Start Time | 6:00 p.m. |
| End Time | 4:00 p.m. |
| Peak Hour L _{eq} sound level | 70 A-weighted decibels |
| Day-night average sound level | 74 A-weighted decibels |

| Measurement | 2/17/2020 | 2/18/2020 | 2/19/2020 |
|----------------|-----------------------|-----------------------|--------------------------|
| Temperature | 44 degrees Fahrenheit | 38 degrees Fahrenheit | 40 degrees Fahrenheit |
| Pressure | 30.3 inches | 30.4 inches | 30.5 inches |
| Wind Speed | 4 miles per hour | 3 miles per hour | 1 mile per hour |
| Wind Direction | Southwest | North | Northwest |











| Monitoring No. | M-38 |
|----------------|------------------------------|
| Address | 1139 Northwest Market Street |
| Area | Ballard |
| Parcel | 276830-0135 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 307 | 78647 |
| Microphone | Svantek ST30 | 79071 |
| Preamplifier | N/A | N/A |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Start Date | 1/16/2020 |
|---------------------------------------|------------------------|
| End Date | 1/22/2020 |
| Start Time | 11:00 a.m. |
| End Time | 11:00 a.m. |
| Peak Hour L _{eq} sound level | 52 A-weighted decibels |
| Day-night average sound level | 56 A-weighted decibels |

| Measurement | 1/17/2020 | 1/20/2020 | 1/21/2020 | 1/22/2020 |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature | 39 degrees Fahrenheit | 38 degrees Fahrenheit | 46 degrees Fahrenheit | 45 degrees Fahrenheit |
| Pressure | 29.7 inches | 30.0 inches | 29.7 inches | 30.0 inches |
| Wind Speed | 3 miles per hour | 1 mile per hour | 5 miles per hour | 5 miles per hour |
| Wind Direction | Southwest | Southwest | Southwest | South |

Plan View (M-38)



Looking North (M-38)



Looking South (M-38)







Looking West (M-38)



| Monitoring No. | M-39 |
|----------------|----------------------------|
| Address | 5606 14th Avenue Northwest |
| Area | Ballard |
| Parcel | 276810-0230 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 51818 |
| Microphone | Aco Pacific 7052E | 62522 |
| Preamplifier | Svantek SV18 | 49561 |
| Calibrator | Larson Davis CAL200 | 9512 |

Measurement Data

| Start Date | 10/29/2019 |
|---------------------------------------|------------------------|
| End Date | 10/31/2019 |
| Start Time | 10:00 a.m. |
| End Time | 1:00 p.m. |
| Peak Hour L _{eq} sound level | 58 A-weighted decibels |
| Day-night average sound level | 60 A-weighted decibels |

| Measurement | 10/29/2019 | 10/30/2019 | 10/31/2019 |
|----------------|-----------------------|-----------------------|--------------------------|
| Temperature | 42 degrees Fahrenheit | 42 degrees Fahrenheit | 41 degrees Fahrenheit |
| Pressure | 30.1 inches | 30.1 inches | 30.3 inches |
| Wind Speed | 0 miles per hour | 1 mile per hour | 0 miles per hour |
| Wind Direction | East | North | East southeast |

Plan View (M-39)



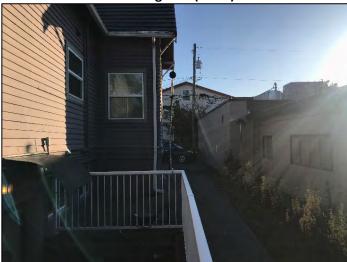
Looking North (M-39)



Looking South (M-39)



Looking East (M-39)



Looking West (M-39)



| Monitoring No. | M-40 |
|----------------|----------------------------|
| Address | 5712 14th Avenue Northwest |
| Area | Ballard |
| Parcel | 276790-0630 |

Equipment

| Equipment Type | Model Number | Serial Number |
|----------------|---------------------|---------------|
| Level Analyzer | Svantek 971 | 72542 |
| Microphone | Aco Pacific 7052E | 68284 |
| Preamplifier | Svantek SV18 | 72239 |
| Calibrator | Larson Davis CAL200 | 16827 |

Measurement Data

| Start Date | 12/6/2019 |
|---------------------------------------|------------------------|
| End Date | 12/10/2019 |
| Start Time | 12:00 p.m. |
| End Time | 1:00 p.m. |
| Peak Hour L _{eq} sound level | 56 A-weighted decibels |
| Day-night average sound level | 57 A-weighted decibels |

| Measurement | 12/7/2019 | 12/8/2019 | 12/9/2019 |
|----------------|-----------------------|-----------------------|--------------------------|
| Temperature | 48 degrees Fahrenheit | 42 degrees Fahrenheit | 41 degrees Fahrenheit |
| Pressure | 29.8 inches | 30.1 inches | 30.0 inches |
| Wind Speed | 1 mile per hour | 1 mile per hour | 3 miles per hour |
| Wind Direction | Northeast | Northeast | Southeast |

Plan View (M-40)



Looking North (M-40)



Looking South (M-40)

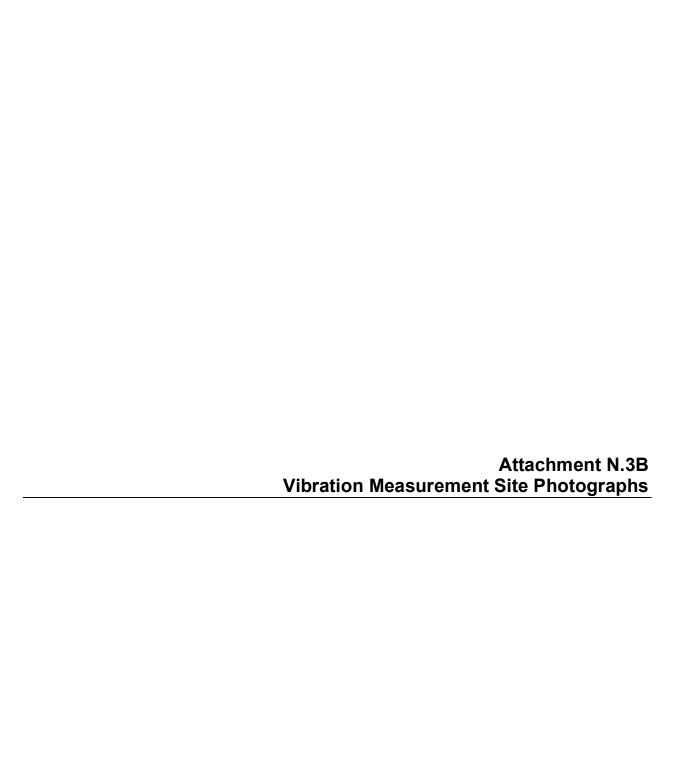






Looking West (M-40)





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Attachment N.3B Vibration Measurement Site Photographs

Figure N.3B-1. Photograph of Vibration Propagation Measurement Site V-A – Alley off of 41st Avenue at Alaska Way



Figure N.3B-2. Aerial View of Vibration Propagation Measurement Site V-A – Alley off of 41st Avenue at Alaska Way



Figure N.3B-3. Photograph of Borehole Vibration Propagation Measurement Site V-2 – 39th Avenue Southwest at Southwest Genesee Street



Figure N.3B-4. Aerial View of Borehole Vibration Propagation Measurement Site V-2 – 39th Avenue Southwest at Southwest Genesee Street



Figure N.3B-5. Photograph of Borehole Vibration Propagation Measurement Site V-3 – 32nd Avenue Southwest at Southwest Genesee Street



Figure N.3B-6. Aerial View of Borehole Vibration Propagation Measurement Site V-3 – 32nd Avenue Southwest at Southwest Genesee Street



Figure N.3B-7. Photograph of Vibration Propagation Measurement Site V-B – Southwest Genesee Street at 32nd Avenue Southwest



Figure N.3B-8. Aerial View of Vibration Propagation Measurement Site V-B – Southwest Genesee Street at 32nd Avenue Southwest







Figure N.3B-10. Aerial View of Vibration Propagation Measurement Site V-C – Dakota Street at 25th Avenue Southwest



Figure N.3B-11. Photograph of Vibration Propagation Measurement Site V-D – Bike Path at 22nd Avenue Southwest near West Seattle Bridge



Figure N.3B-12. Aerial View of Vibration Propagation Measurement Site V-D – Bike Path at 22nd Avenue Southwest near West Seattle Bridge



Figure N.3B-13. Photograph of Vibration Propagation Measurement Site V-E – Harbor Island Machine Works, 3431 11th Avenue Southwest



Figure N.3B-14. Aerial View of Vibration Propagation Measurement Site V-E – Harbor Island Machine Works, 3431 11th Avenue Southwest



Figure N.3B-15. Photograph of Borehole Vibration Propagation Measurement Site V-6 – 5th Avenue and Marion Street, Downtown Seattle



Figure N.3B-16. Aerial View of Borehole Vibration Propagation Measurement Site V-6 – 5th Avenue and Marion Street, Downtown Seattle



Figure N.3B-17. Photograph of Borehole Vibration Propagation Measurement Site V-8 – 7th Avenue and Westlake Avenue, Downtown Seattle

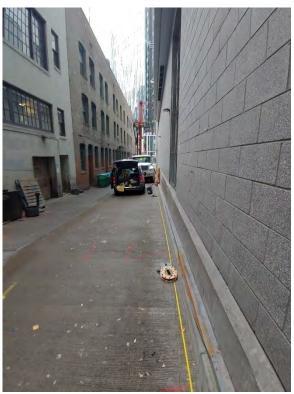


Figure N.3B-18. Aerial View of Borehole Vibration Propagation Measurement Site V-8 – 7th Avenue and Westlake Avenue, Downtown Seattle







Figure N.3B-20. Aerial View of Borehole Vibration Propagation Measurement Site V-9 – Thomas Street between Westlake Avenue and 9th Avenue

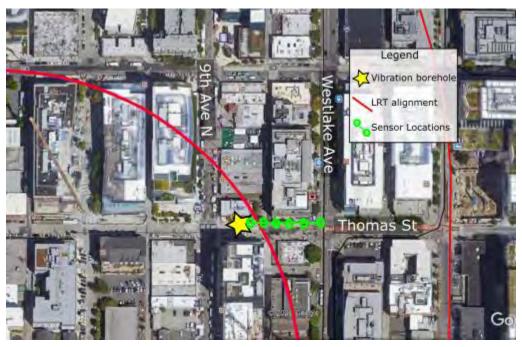


Figure N.3B-21. Photograph of Vibration Propagation Measurement Site V-11 – Accelerometer in Allen Institute EM Suite

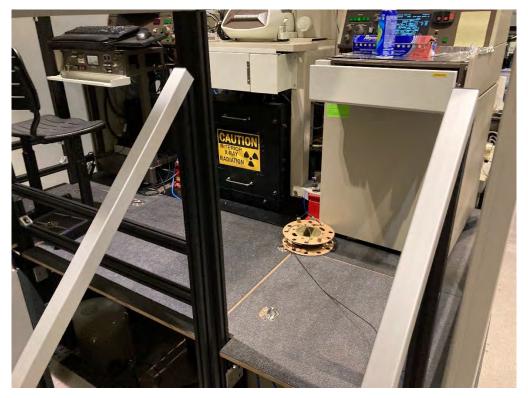


Figure N.3B-22. Aerial View of Borehole Vibration Propagation Measurement Site V-11 – Mercer Street and 9th Avenue North at the Allen Institute



Figure N.3B-23. Photograph of Vibration Propagation Measurement Site V-12 – Accelerometer in Cascade Public Media (KCTS 9 Television) Main Studio



Figure N.3B-24. Aerial View of Borehole Vibration Propagation Measurement Site V-12 – 4th Avenue at Cascade Public Media (KCTS 9 Television)

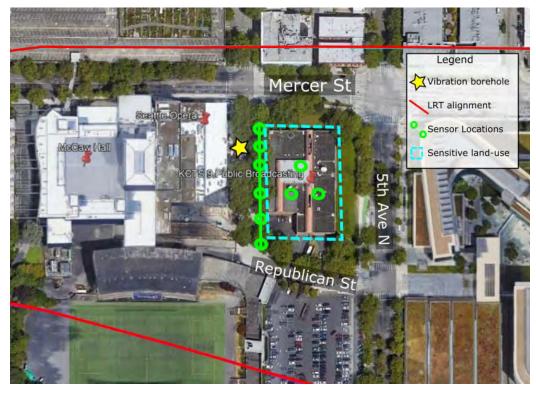


Figure N.3B-25. Photograph of Vibration Propagation Measurement Site V-13 – Accelerometer in McCaw Hall

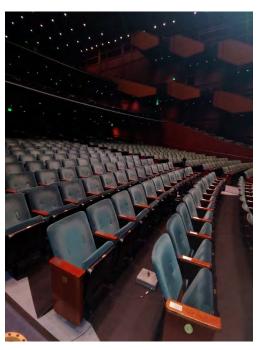
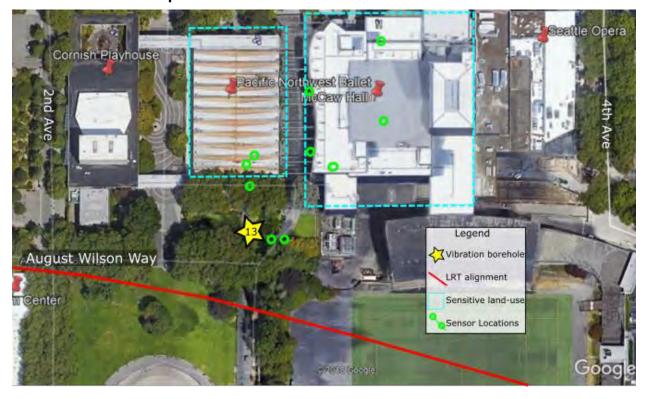


Figure N.3B-26. Aerial View of Borehole Vibration Propagation Measurement Site V-13 – Republican Street at 3rd Avenue in the Seattle Center





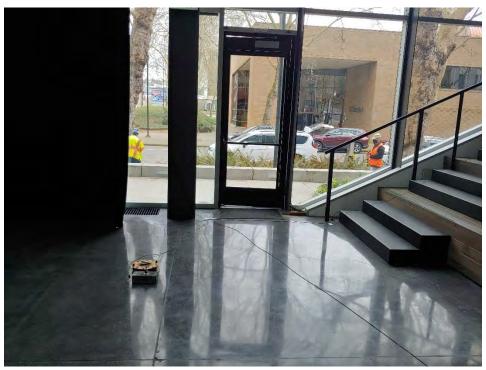


Figure N.3B-28. Aerial View of Surface Vibration Propagation Measurement Site V-13b – Seattle Opera Building



Figure N.3B-29. Photograph of Vibration Propagation Measurement Site V-14 – Mercer Street at 2nd Avenue between Seattle Repertory Theatre and Cornish Playhouse



Figure N.3B-30. Aerial View of Borehole Vibration Propagation Measurement Site V-14 – Mercer Street at 2nd Avenue between Seattle Repertory Theatre and Cornish Playhouse



Figure N.3B-31. Photograph of Vibration Propagation Measurement Site V-15 – Republican Street at 1st Avenue with Indoor Measurements at KEXP, The Vera Project, and Seattle International Film Festival



Figure N.3B-32. Aerial View of Borehole Vibration Propagation Measurement Site V-15 – Republican Street at 1st Avenue at KEXP, The Vera Project, and Seattle International Film Festival



Figure N.3B-33. Photograph of Vibration Propagation Measurement Site V-G – Victory Studios, 2247 15th Avenue West



Figure N.3B-34. Aerial View of Vibration Propagation Measurement Site V-G – Victory Studios, 2247 15th Avenue West



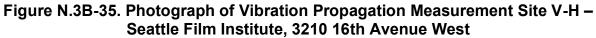




Figure N.3B-36. Aerial View of Vibration Propagation Measurement Site V-H – Seattle Film Institute, 3210 16th Avenue West



Figure N.3B-37. Photograph of Vibration Propagation Measurement Site V-17 – Nickerson Street Cloverleaf



Figure N.3B-38. Aerial View of Borehole Vibration Propagation Measurement Site V-17 – Nickerson Street Cloverleaf



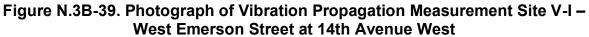




Figure N.3B-40. Aerial View of Vibration Propagation Measurement Site V-I – West Emerson Street at 14th Avenue West



Figure N.3B-41. Photograph of Vibration Propagation Measurement Site V-J – Northwest Leary Way at 14th Avenue Northwest



Figure N.3B-42. Aerial View of Vibration Propagation Measurement Site V-J – Northwest Leary Way at 14th Avenue Northwest



Figure N.3B-43. Photograph of Vibration Propagation Measurement Site V-K – Northwest 52nd Street at 15th Avenue Northwest



Figure N.3B-44. Aerial View of Vibration Propagation Measurement Site V-K – Northwest 52nd Street at 15th Avenue Northwest



Figure N.3B-45. Photograph of Borehole Vibration Propagation Measurement Site V-18 –14th Avenue Northwest at Northwest Market Street



Figure N.3B-46. Aerial View of Borehole Vibration Propagation Measurement Site V-18 –14th Avenue Northwest at Northwest Market Street



Figure N.3B-47. Photograph of Vibration Propagation Measurement Site V-M – Accelerometer in 219 Terry Avenue



Figure N.3B-48. Aerial View of Vibration Propagation Measurement Site V-M – Alleyway behind 219 Terry Avenue N



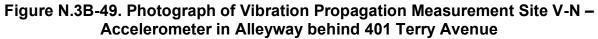




Figure N.3B-50. Aerial View of Vibration Propagation Measurement Site V-N – Alleyway behind 401 Terry Avenue N



Figure N.3B-51. Photograph of Vibration Propagation Measurement Site V-O – Accelerometer in Alleyway behind 400 Dexter Avenue



Figure N.3B-52. Aerial View of Vibration Propagation Measurement Site V-N – Alleyway behind 400 Dexter Avenue N

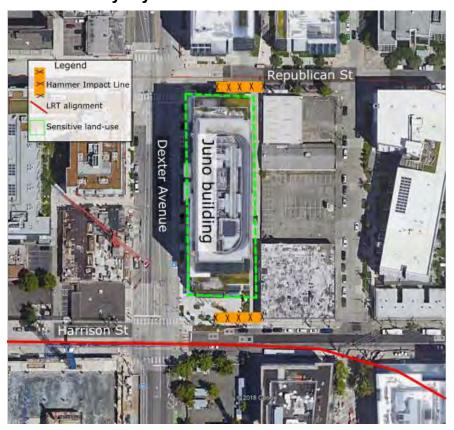


Figure N.3B-53. Photograph of Existing Vibration Measurement Site V-i on Main Street between 4th and 5th Avenues above the Existing Link Light Rail

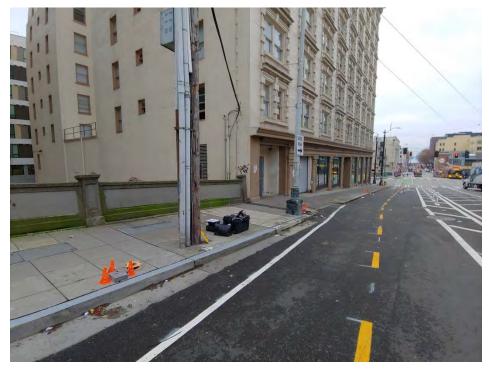


Figure N.3B-54. Aerial View of Existing Vibration Measurement Site V-i on Main Street between 4th and 5th Avenues above the Existing Link Light Rail



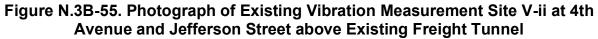




Figure N.3B-56. Aerial View of Existing Vibration Measurement Site V-ii at 4th Avenue and Jefferson Street above Existing Freight Tunnel



Figure N.3B-57. Photograph of Existing Vibration Measurement Site V-iii at Westlake Avenue and Virginia Street near Existing Streetcar Line



Figure N.3B-58. Aerial View of Existing Vibration Measurement Site V-iii at Westlake Avenue and Virginia Street near Existing Streetcar Line

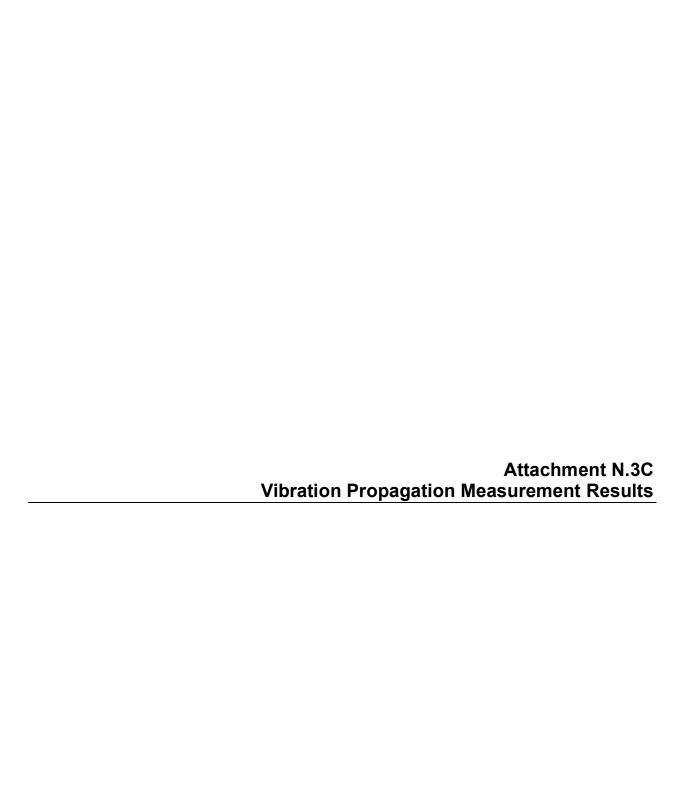


Figure N.3B-59. Photograph of Existing Vibration Measurement Site V-iv at the Helix Pedestrian Bridge off of Elliott Avenue at Prospect Street



Figure N.3B-60. Aerial View of Existing Vibration Measurement Site V-iv at the Helix Pedestrian Bridge off of Elliott Avenue at Prospect Street





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Attachment N.3C Vibration Propagation Measurement Results

Site V-A: Alley on 41st Avenue, North of Alaska Way, West Seattle

Table N.3C-1. Line Source Transfer Mobility (L.S.T.M.) Coefficients for Site V-A

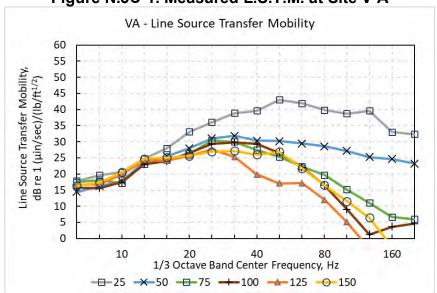
| Coeff. | 6.3 Hertz (Hz) | 8 Hz | 10 Hz | 12.5 Hz | 16 Hz | | 25 Hz | 31.5 Hz | | | | 80 Hz | 100 Hz | 125 Hz | 160 Hz | 200 Hz |
|--------|----------------------|---------|----------|------------|----------|------|----------|------------|-------|-------|-------|----------|-----------|-----------|-----------|-----------|
| Α | 18.2 | 22.7 | 19.3 | 24.6 | 33.4 | 44.9 | 51.1 | 59.8 | 66.0 | 75.6 | 79.9 | 86.6 | 96.7 | 112.6 | 114.5 | 125.5 |
| В | -0.9 | -2.9 | -0.2 | -0.4 | -4.4 | -9.3 | -11.1 | -15.6 | -19.9 | -25.3 | -28.8 | -34.4 | -42.1 | -53.0 | -56.5 | -63.7 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

 $L.S.T.M. = A + B * \log(dist) + C * \log(dist)^{2}$

Coeff. = coefficient

Hz = hertz

Figure N.3C-1. Measured L.S.T.M. at Site V-A

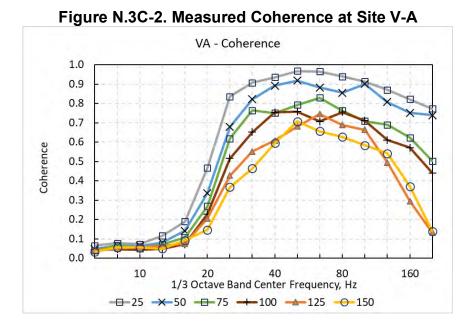


dB = decibels μin = micro inch

sec = seconds

lb = pounds

ft = feet



Site V-2: 39th Avenue Southwest at Southwest Genesee Street, West **Seattle**

Table N.3C-2, L.S.T.M. Coefficients for Site V-2

| Coeff. | 6.3 Hz | 8 Hz | 10 Hz | 12.5 Hz | | | | 31.5 Hz | | | | | | | | |
|--------|-----------|---------|----------|------------|------|-------|------|------------|-------|-------|-------|------|-------|-------|-------|-------|
| Α | 45.2 | 68.1 | 66.7 | 57.7 | 5.5 | 55.5 | 16.4 | 57.7 | 85.4 | 109.7 | 45.9 | 22.9 | 57.5 | 71.3 | 99.0 | 99.2 |
| В | -21.8 | -33.3 | -30.7 | -27.6 | -4.6 | -26.8 | -6.4 | -23.1 | -35.5 | -45.9 | -18.7 | -6.7 | -21.8 | -30.2 | -44.2 | -44.6 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-3. Measured L.S.T.M. at Site V-2

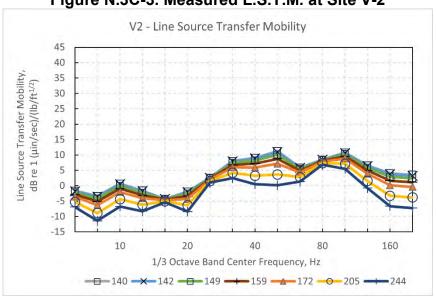
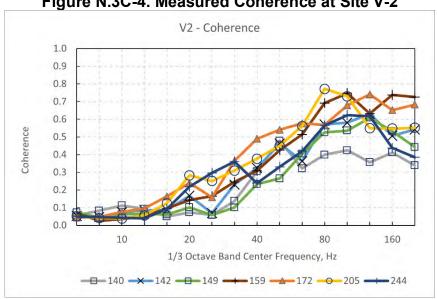


Figure N.3C-4. Measured Coherence at Site V-2



Site V-3: Alley at Southwest Genesee Street and 35th Avenue **Southwest**

Table N.3C-3, L.S.T.M. Coefficients for Site V-3

| Coeff. | 6.3 Hz | 8 Hz | | 12.5 Hz | | | | | | | | | | | | |
|--------|-----------|---------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Α | 16.6 | 13.4 | 30.9 | 43.6 | 31.1 | 40.3 | 35.9 | 39.6 | 36.6 | 79.2 | 65.0 | 79.8 | 90.3 | 90.6 | 117.2 | 105.4 |
| В | -9.8 | -7.4 | -15.3 | -20.4 | -15.2 | -18.8 | -16.7 | -16.7 | -13.4 | -32.4 | -26.4 | -33.3 | -38.1 | -38.7 | -52.6 | -47.5 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-5. Measured L.S.T.M. at Site V-3

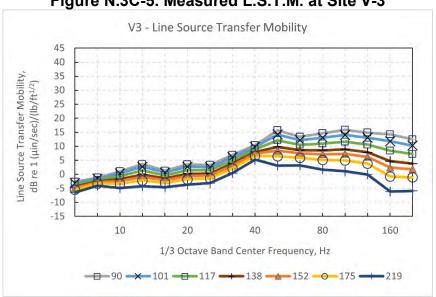
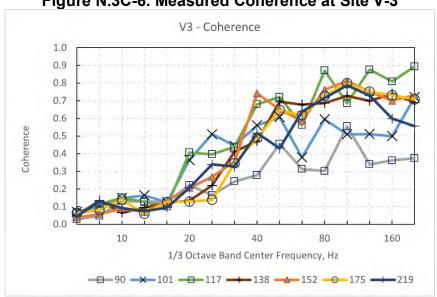


Figure N.3C-6. Measured Coherence at Site V-3

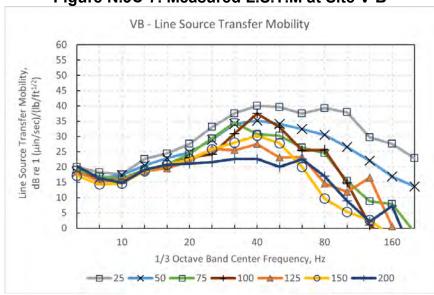


Site V-B: Southwest Genesee Street at 32nd Avenue, West Seattle

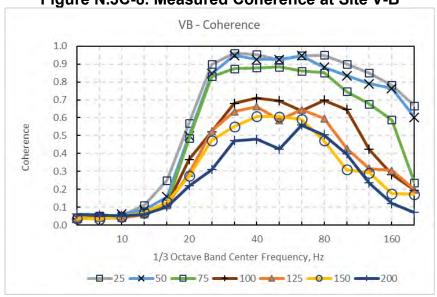
Table N.3C-4. L.S.T.M. Coefficients for Site V-B

| Coeff. | 6.3 Hz | 8 Hz | | 12.5 Hz | | | | | | | | | | | 160 Hz | |
|--------|-----------|---------|------|------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|
| Α | 20.6 | 22.1 | 22.8 | 27.9 | 30.6 | 36.9 | 48.9 | 61.5 | 63.2 | 67.9 | 63.6 | 81.5 | 85.7 | 71.4 | 67.1 | 74.4 |
| В | -1.0 | -3.0 | -3.5 | -4.3 | -4.7 | -6.9 | -11.3 | -16.0 | -16.1 | -19.7 | -19.0 | -30.2 | -35.3 | -30.8 | -30.8 | -37.8 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-7. Measured L.S.T.M at Site V-B





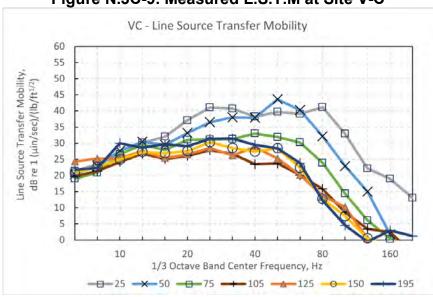


Site V-C: Southwest Dakota Street at 25th Avenue Southwest, West Seattle

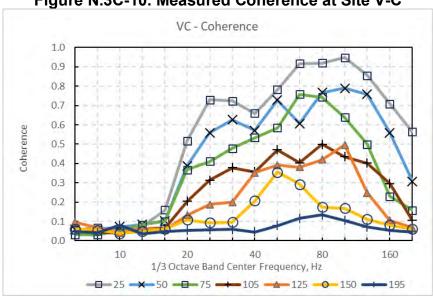
Table N.3C-5. L.S.T.M. Coefficients for Site V-C

| Coeff. | 6.3 Hz | 8 Hz | 10 Hz | 12.5 Hz | 16 Hz | 20 Hz | 25 Hz | 31.5 Hz | 40 Hz | | | | | | | |
|--------|-----------|---------|----------|------------|----------|----------|----------|------------|----------|-------|-------|-------|-------|-------|-------|-------|
| Α | 26.1 | 29.2 | 31.2 | 35.4 | 37.8 | 52.2 | 58.0 | 60.9 | 58.7 | 68.5 | 75.1 | 91.4 | 77.2 | 60.2 | 40.0 | 23.8 |
| В | -3.4 | -4.0 | -2.9 | -3.5 | -5.0 | -11.4 | -13.2 | -15.0 | -14.2 | -19.1 | -24.3 | -36.0 | -32.4 | -27.6 | -19.4 | -13.8 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-9. Measured L.S.T.M at Site V-C





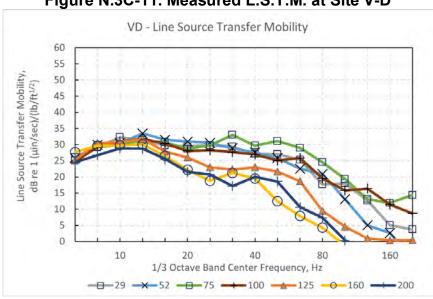


Site V-D: Bike Path at 22nd Avenue Southwest at West Seattle Bridge, West Seattle

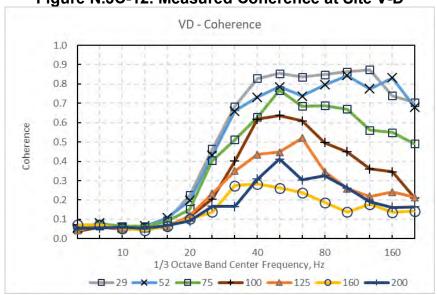
Table N.3C-6. L.S.T.M. Coefficients for Site V-D

| Coeff. | 6.3 Hz | 8 Hz | 10 Hz | 12.5 Hz | 16 Hz | 20 Hz | 25 Hz | 31.5 Hz | 40 Hz | 50 Hz | 63 Hz | 80 Hz | | 125 Hz | | 200 Hz |
|--------|-----------|------|----------|------------|----------|----------|----------|------------|----------|----------|----------|----------|-------|-----------|-------|-----------|
| Α | 26.3 | 32.0 | 36.3 | 37.8 | 40.5 | 47.5 | 53.5 | 54.8 | 45.2 | 52.0 | 58.6 | 50.8 | 56.2 | 42.3 | 30.8 | 22.7 |
| В | -0.4 | -1.4 | -3.0 | -3.4 | -5.9 | -10.7 | -14.2 | -14.9 | -10.5 | -14.8 | -19.8 | -18.4 | -23.7 | -18.6 | -14.4 | -11.2 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-11. Measured L.S.T.M. at Site V-D





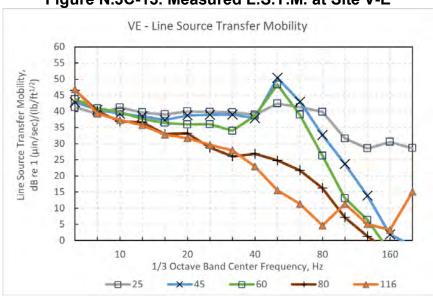


Site V-E: Harbor Island Machine Works, 3431 11th Avenue Southwest

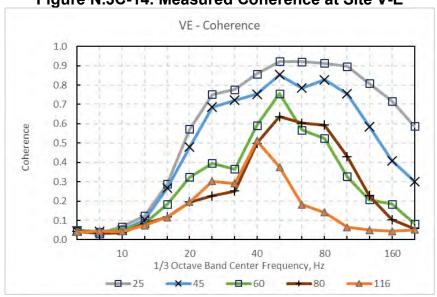
Table N.3C-7. L.S.T.M. Coefficients for Site V-E

| Coeff. | 6.3 Hz | 8 Hz | | 12.5 Hz | 16 Hz | | | 31.5 Hz | | | 63 Hz | 80 Hz | | 125 Hz | 160 Hz | 200 Hz |
|--------|-----------|---------|------|------------|----------|-------|-------|------------|-------|-------|----------|----------|-------|-----------|-----------|-----------|
| Α | 41.3 | 46.3 | 50.2 | 48.2 | 53.9 | 59.6 | 66.9 | 71.6 | 77.9 | 115.0 | 114.9 | 117.5 | 80.8 | 79.2 | 80.2 | 49.1 |
| В | 0.0 | -3.3 | -6.4 | -6.0 | -10.4 | -13.5 | -18.3 | -21.7 | -25.5 | -44.7 | -47.6 | -53.2 | -36.0 | -38.8 | -42.3 | -25.1 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-13. Measured L.S.T.M. at Site V-E







Site V-6: 5th Avenue and Marion Street, Downtown Seattle

Table N.3C-8. L.S.T.M. Coefficients for Site V-6

| Coeff. | 6.3 Hz | 8 Hz | 10 Hz | 12.5 Hz | | 20 Hz | | 31.5 Hz | 40 Hz | 50 Hz | 63 Hz | 80 Hz | 100 Hz | 125 Hz | 160 Hz | 200 Hz |
|--------|-----------|---------|----------|------------|-------|----------|-------|------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
| Α | 223.5 | 354.1 | 178.0 | -0.4 | 121.2 | 46.8 | 146.7 | 244.4 | 381.9 | 326.6 | 372.9 | 442.0 | 470.5 | 575.2 | 674.6 | 811.4 |
| В | -100.3 | -156.3 | -78.5 | -0.4 | -53.8 | -21.2 | -64.7 | -106.9 | -166.9 | -143.3 | -163.2 | -192.8 | -205.4 | -250.6 | -293.7 | -354.4 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-15. Measured L.S.T.M. at Site V-6

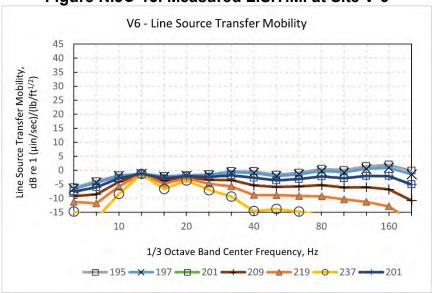
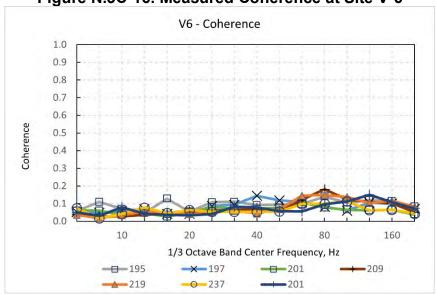


Figure N.3C-16. Measured Coherence at Site V-6

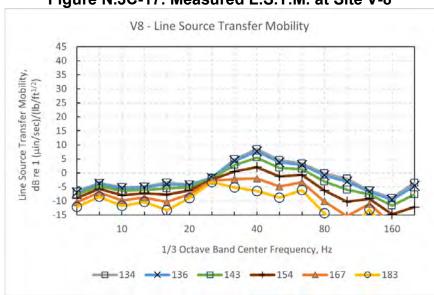


Site V-8: 7th Avenue and Westlake Avenue, Downtown Seattle

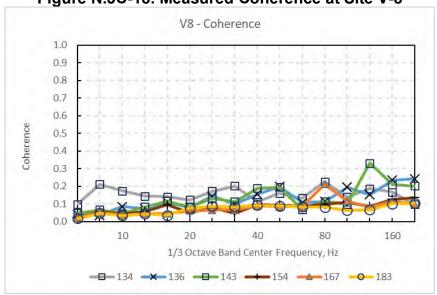
Table N.3C-9. L.S.T.M. Coefficients for Site V-8

| Coeff. | 6.3 Hz | 8 Hz | | | | | | 31.5 Hz | | 50 Hz | 63 Hz | 80 Hz | 100 Hz | 125 Hz | 160 Hz | 200 Hz |
|--------|-----------|---------|-------|-------|-------|-------|-------|------------|--------|----------|----------|----------|-----------|-----------|-----------|-----------|
| Α | 80.0 | 72.2 | 99.3 | 79.9 | 150.7 | 71.9 | 22.6 | 162.1 | 242.3 | 213.2 | 151.4 | 223.5 | 294.8 | 98.6 | 203.6 | 308.3 |
| В | -40.7 | -35.6 | -49.1 | -39.9 | -72.5 | -35.7 | -11.4 | -73.9 | -109.9 | -98.1 | -69.6 | -105.1 | -139.5 | -49.3 | -99.9 | -146.6 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-17. Measured L.S.T.M. at Site V-8







Site V-9: Thomas Street between Westlake Avenue and 9th Avenue, Downtown Seattle

Table N.3C-10. L.S.T.M. Coefficients for Site V-9

| Coeff. | 6.3 Hz | 8 Hz | | 12.5 Hz | | | | | | | | | | | | |
|--------|-----------|---------|-------|------------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Α | 17.5 | 53.6 | 34.2 | 24.3 | 5.2 | 35.9 | 6.7 | 30.2 | 37.3 | 72.7 | 159.0 | 132.5 | 179.0 | 171.1 | 191.6 | 163.1 |
| В | -10.1 | -29.7 | -19.0 | -13.7 | -2.4 | -17.7 | -3.4 | -12.8 | -16.5 | -33.7 | -74.3 | -62.4 | -86.0 | -81.9 | -91.9 | -78.5 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-19. Measured L.S.T.M. at Site V-9

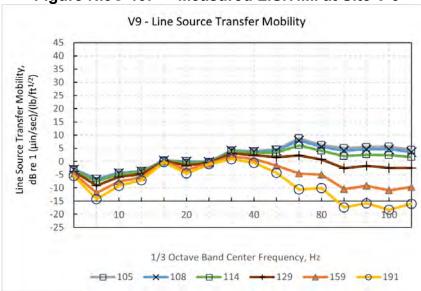
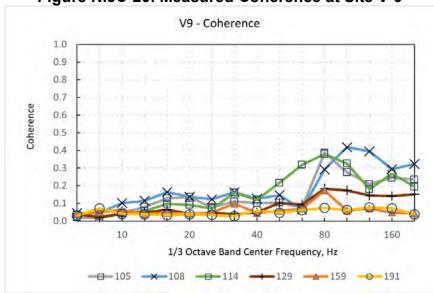


Figure N.3C-20. Measured Coherence at Site V-9



Site V-11: 9th Avenue and Mercer Street, The Allen Institute

Table N.3C-11. L.S.T.M. Coefficients for Site V-11

| Coeff. | 6.3 Hz | 8 Hz | | 12.5 Hz | | | | | | | | | | | | |
|--------|-----------|---------|------|------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Α | 22.7 | 7.8 | 11.1 | 40.0 | -5.7 | 10.8 | 14.6 | 32.7 | 59.5 | 45.8 | 63.2 | 109.4 | 104.2 | 41.2 | 28.5 | 13.8 |
| В | -7.7 | -0.9 | -5.2 | -18.7 | 1.4 | -7.0 | -8.9 | -16.2 | -28.9 | -22.7 | -31.2 | -52.5 | -51.2 | -23.7 | -19.1 | -12.3 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-21. Measured L.S.T.M. at Site V-11

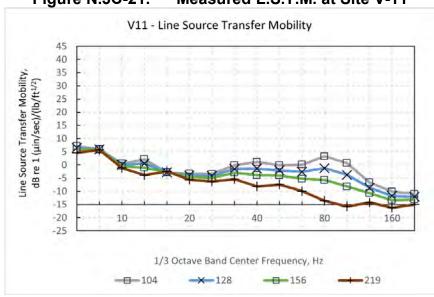
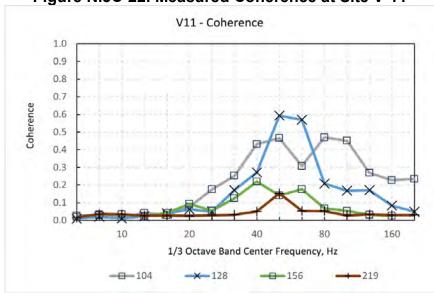


Figure N.3C-22. Measured Coherence at Site V-11



Site V-12: 4th Avenue and Mercer Street, Cascade Public Media (KCTS 9 Television)

Table N.3C-12. L.S.T.M. Coefficients for Site V-12

| Coeff. | 6.3 Hz | 8 Hz | | 12.5 Hz | | | | | | | | | | | 160 Hz | 200 Hz |
|--------|-----------|---------|------|------------|------|------|-------|------|-------|-------|-------|------|-------|-------|-----------|-----------|
| Α | -6.9 | 23.3 | 8.3 | -0.3 | 8.0 | 5.1 | 38.8 | 14.0 | 20.9 | 77.0 | 48.0 | 18.2 | 67.7 | 152.9 | 258.6 | 246.0 |
| В | -1.3 | -13.7 | -5.0 | -1.6 | -2.4 | -2.0 | -19.0 | -8.0 | -10.6 | -32.9 | -22.4 | -8.5 | -31.9 | -72.1 | -121.5 | -115.8 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-23. Measured L.S.T.M. at Site V-12

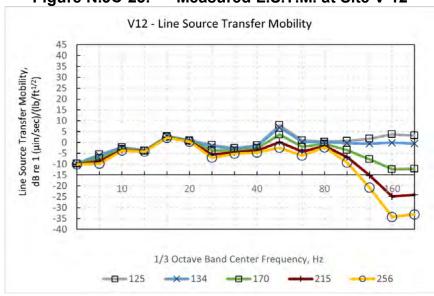
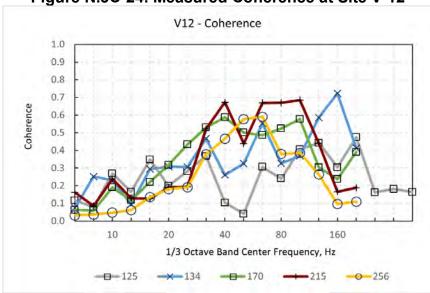


Figure N.3C-24. Measured Coherence at Site V-12



Site V-13: Republican Street at 3rd Avenue North, Seattle Center

Table N.3C-13. L.S.T.M. Coefficients for Site V-13

| Coeff. | 6.3 Hz | 8 Hz | | 12.5 Hz | | | | | | | | | | | 160 Hz | 200 Hz |
|--------|-----------|---------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------|
| Α | 8.9 | 30.1 | 29.0 | 46.1 | 49.1 | 47.4 | 56.4 | 65.4 | 86.4 | 105.2 | 105.5 | 98.9 | 98.1 | 83.5 | 97.5 | 69.6 |
| В | -2.2 | -12.1 | -10.2 | -17.4 | -20.0 | -20.4 | -25.3 | -30.5 | -38.9 | -48.5 | -48.7 | -48.0 | -47.2 | -40.5 | -47.8 | -35.7 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-25. Measured L.S.T.M. at Site V-13

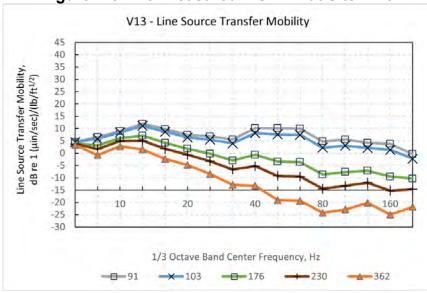
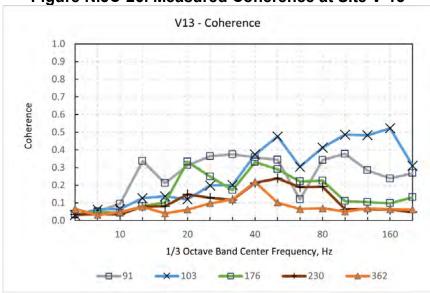


Figure N.3C-26. Measured Coherence at Site V-13



Site V-14: Mercer Street at 2nd Avenue North, Seattle Center

Table N.3C-14. L.S.T.M. Coefficients for Site V-14

| Coeff. | 6.3 Hz | | | | | | | 31.5 Hz | | | | | | | 160 Hz | 200 Hz |
|--------|-----------|-------|-------|-------|-------|-------|-------|------------|-------|-------|-------|-------|-------|-------|-----------|-----------|
| Α | 57.7 | 71.1 | 71.5 | 78.9 | 70.7 | 91.6 | 111.3 | 102.9 | 110.4 | 121.2 | 111.5 | 105.4 | 112.5 | 85.6 | 93.8 | 87.4 |
| В | -24.3 | -29.8 | -30.2 | -33.5 | -30.2 | -39.0 | -46.4 | -43.1 | -48.5 | -53.5 | -49.8 | -47.3 | -50.9 | -39.2 | -43.0 | -38.8 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-27. Measured L.S.T.M. at Site V-14

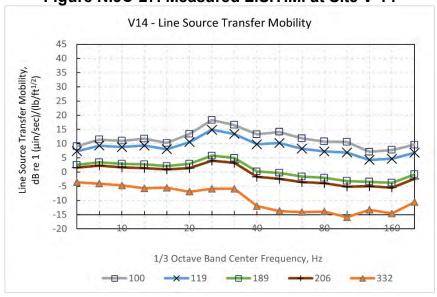
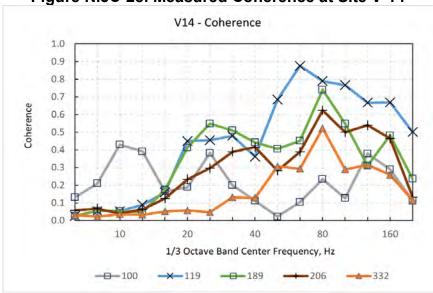


Figure N.3C-28. Measured Coherence at Site V-14



Site V-15: Republican Street at 1st Avenue North, Seattle Center

Table N.3C-15. L.S.T.M. Coefficients for Site V-15

| Coeff. | 6.3 Hz | 8 Hz | 10 Hz | 12.5 Hz | | | | 31.5 Hz | | | | | | 125 Hz | | 200 Hz |
|--------|-----------|---------|----------|------------|-------|-------|-------|------------|-------|-------|-------|-------|-------|-----------|-------|-----------|
| Α | 40.2 | 40.9 | 29.6 | 47.6 | 45.9 | 52.2 | 44.9 | 71.1 | 97.0 | 162.1 | 138.6 | 110.3 | 143.0 | 164.3 | 161.2 | 152.5 |
| В | -15.4 | -15.0 | -9.6 | -16.5 | -15.8 | -17.6 | -13.8 | -25.7 | -38.4 | -66.7 | -56.9 | -44.5 | -59.0 | -69.0 | -68.2 | -65.5 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-29. Measured L.S.T.M. at Site V-15

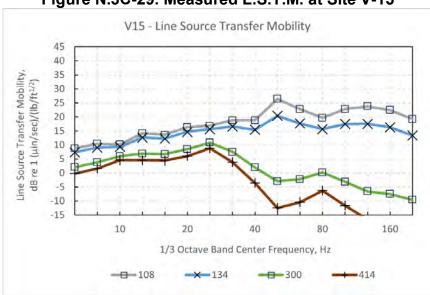
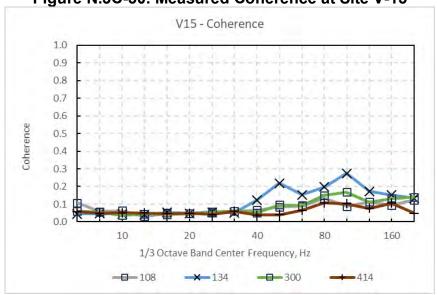


Figure N.3C-30. Measured Coherence at Site V-15

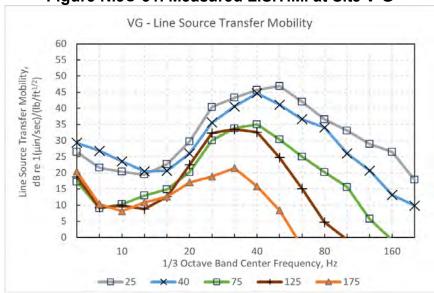


Site V-G: Victory Studios, 2247 15th Avenue West, Interbay

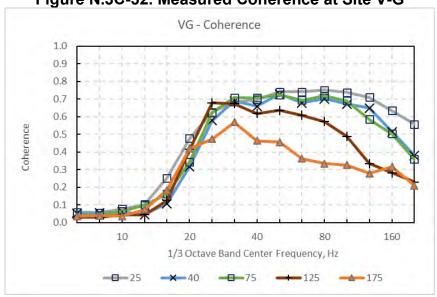
Table N.3C-16. L.S.T.M. Coefficients for Site V-G

| Coeff. | 6.3 Hz | 8 Hz | 10 Hz | | | | | 31.5 Hz | | | | | | | | 200 Hz |
|--------|-----------|---------|----------|-------|-------|-------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-----------|
| Α | 43.0 | 51.1 | 47.5 | 39.8 | 40.9 | 47.3 | 69.1 | 76.0 | 93.6 | 107.5 | 115.1 | 117.5 | 110.7 | 106.9 | 96.9 | 76.6 |
| В | -11.2 | -19.4 | -18.0 | -13.7 | -13.2 | -13.1 | -20.4 | -22.5 | -32.0 | -41.9 | -49.8 | -54.4 | -53.4 | -54.8 | -51.6 | -42.9 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-31. Measured L.S.T.M. at Site V-G





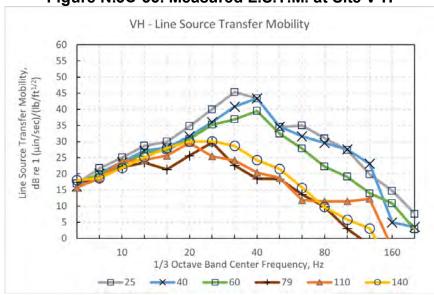


Site V-H: Seattle Film Institute, 3210 16th Avenue West, Interbay

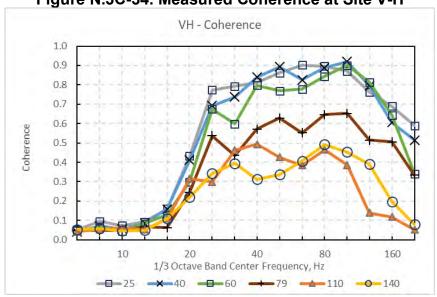
Table N.3C-17. L.S.T.M. Coefficients for Site V-H

| Coeff. | 6.3 Hz | 8 Hz | 10 Hz | 12.5 Hz | 16 Hz | 20 Hz | 25 Hz | 31.5 Hz | 40 Hz | 50 Hz | 63 Hz | 80 Hz | 100 Hz | 125 Hz | | 200 Hz |
|--------|-----------|------|----------|------------|----------|----------|----------|------------|----------|----------|----------|----------|-----------|-----------|-------|-----------|
| Α | 17.8 | 27.4 | 28.9 | 36.6 | 35.7 | 43.5 | 63.6 | 85.8 | 95.9 | 70.5 | 82.0 | 79.4 | 75.5 | 57.5 | 56.1 | 51.6 |
| В | -0.7 | -4.3 | -3.1 | -5.9 | -5.0 | -7.2 | -17.0 | -29.1 | -35.5 | -24.2 | -32.8 | -33.4 | -33.0 | -25.3 | -29.7 | -30.2 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-33. Measured L.S.T.M. at Site V-H







Site V-17: Nickerson Street Cloverleaf, Interbay

Table N.3C-18. L.S.T.M. Coefficients for Site V-17

| Coeff. | 6.3 Hz | 8 Hz | 10 Hz | | | | | 31.5 Hz | | | | | | 125 Hz | | 200 Hz |
|--------|-----------|---------|----------|------|-------|-------|-------|------------|-------|-------|-------|-------|-------|-----------|-------|-----------|
| Α | -4.2 | 7.4 | 10.3 | 15.2 | 51.6 | 42.8 | 52.0 | 47.9 | 32.3 | 25.1 | 32.3 | 75.9 | 121.0 | 142.1 | 115.1 | 92.1 |
| В | -0.4 | -7.4 | -8.7 | -9.8 | -24.3 | -18.3 | -23.1 | -23.1 | -17.2 | -13.5 | -16.4 | -38.5 | -60.7 | -70.9 | -60.7 | -51.5 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

 $L.S.T.M. = A + B * \log(dist) + C * \log(dist)^{2}$

Figure N.3C-35. Measured L.S.T.M. at Site V-17

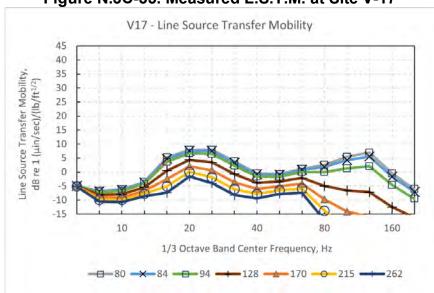
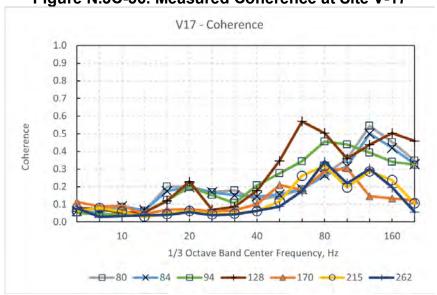


Figure N.3C-36. Measured Coherence at Site V-17

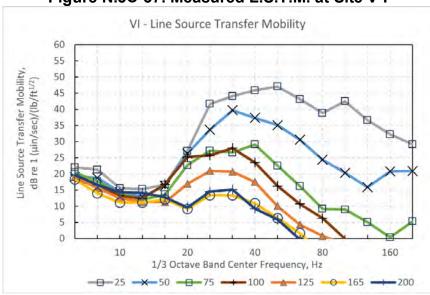


Site V-I: West Emerson Street at 14th Avenue West

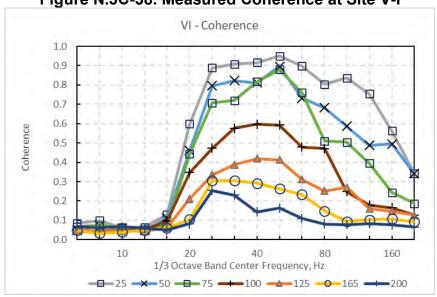
Table N.3C-19. L.S.T.M. Coefficients for Site V-I

| Coeff. | 6.3 Hz | 8 Hz | | 12.5 Hz | | | | | | | | | | | | 200 Hz |
|--------|-----------|---------|------|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| Α | 25.2 | 30.5 | 19.9 | 18.0 | 24.8 | 60.5 | 87.2 | 96.7 | 108.1 | 116.1 | 114.5 | 110.0 | 115.9 | 108.2 | 105.2 | 93.0 |
| В | -2.9 | -6.9 | -3.3 | -2.7 | -5.4 | -21.1 | -31.9 | -36.0 | -42.9 | -49.3 | -51.1 | -51.6 | -55.5 | -53.8 | -53.1 | -45.7 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-37. Measured L.S.T.M. at Site V-I





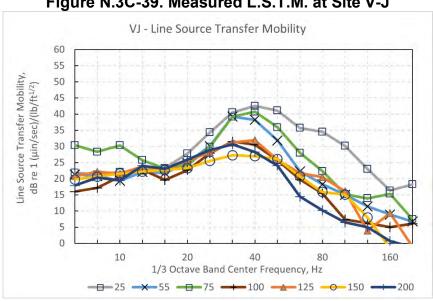


Site V-J: Northwest Leary Way at 14th Avenue Northwest

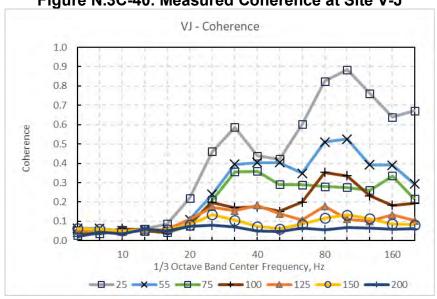
Table N.3C-20. L.S.T.M. Coefficients for Site V-J

| Coeff. | 6.3 Hz | 8 Hz | 10 Hz | | | | | 31.5 Hz | | | | | | 125 Hz | | |
|--------|-----------|---------|----------|------|------|------|-------|------------|-------|-------|-------|-------|-------|-----------|-------|-------|
| Α | 44.8 | 33.7 | 29.1 | 25.5 | 24.6 | 34.0 | 48.4 | 66.7 | 71.2 | 69.5 | 59.5 | 60.8 | 53.8 | 52.7 | 42.1 | 60.8 |
| В | -11.7 | -6.0 | -3.2 | -1.1 | -1.3 | -4.9 | -10.2 | -16.9 | -19.2 | -20.4 | -18.5 | -21.1 | -19.8 | -22.1 | -17.6 | -29.8 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-39. Measured L.S.T.M. at Site V-J





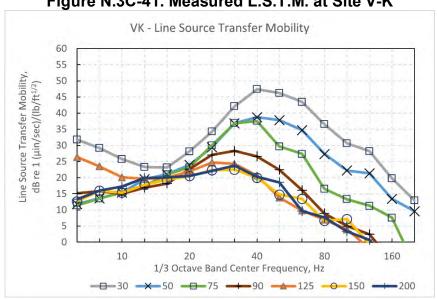


Site V-K: Northwest 52nd Street at 15th Avenue Northwest, Ballard

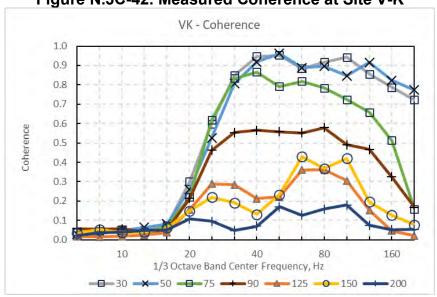
Table N.3C-21. L.S.T.M. Coefficients for Site V-K

| Coeff. | 6.3 Hz | 8 Hz | | 12.5 Hz | | | | | | | | | | | | |
|--------|-----------|---------|------|------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Α | 42.0 | 35.0 | 31.3 | 26.7 | 28.1 | 40.0 | 56.6 | 81.0 | 102.1 | 104.9 | 109.0 | 91.5 | 79.1 | 84.8 | 81.2 | 58.2 |
| В | -12.6 | -8.7 | -7.0 | -3.9 | -4.0 | -8.8 | -15.2 | -25.9 | -37.1 | -40.6 | -44.8 | -39.0 | -34.5 | -39.2 | -41.5 | -31.8 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-41. Measured L.S.T.M. at Site V-K







Site V-18: 14th Avenue Northwest at Northwest Market Street, Ballard

Table N.3C-22. L.S.T.M. Coefficients for Site V-18

| Coeff. | 6.3 Hz | 8 Hz | 10 Hz | 12.5 Hz | | | | 31.5 Hz | | | | | | | | 200 Hz |
|--------|-----------|---------|----------|------------|-------|-------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-----------|
| Α | 15.5 | 16.1 | 17.8 | 26.5 | 28.9 | 31.8 | 29.6 | 37.1 | 60.1 | 67.4 | 70.5 | 55.9 | 46.8 | 59.9 | 98.4 | 113.8 |
| В | -7.2 | -7.5 | -8.0 | -11.6 | -12.2 | -12.4 | -10.2 | -12.2 | -23.3 | -26.7 | -27.9 | -20.5 | -16.2 | -23.3 | -43.7 | -53.3 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Figure N.3C-43. Measured L.S.T.M. at Site V-18

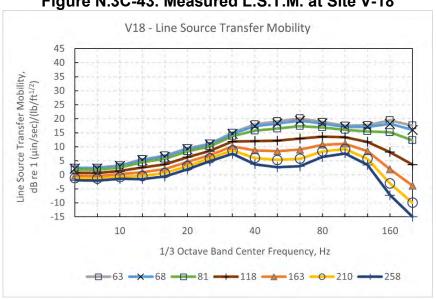


Figure N.3C-44. Measured Coherence at Site V-18

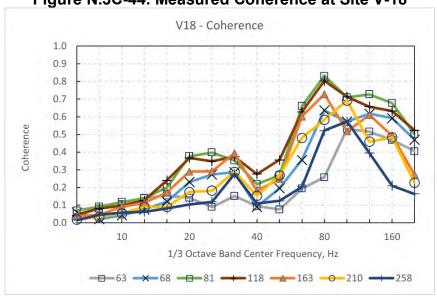


Table N.3C-23. L.S.T.M. Coefficients for Surface West Seattle

| Coeff. | 6.3 Hz | | | 12.5 Hz | | | | | | | | | | | | 200 Hz |
|--------|-----------|------|------|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| Α | 23.5 | 28.0 | 31.5 | 33.9 | 37.0 | 47.5 | 53.8 | 59.8 | 60.2 | 67.8 | 70.9 | 83.4 | 84.7 | 85.8 | 81.1 | 86.8 |
| В | -1.0 | -1.9 | -2.8 | -3.1 | -5.3 | -10.4 | -12.6 | -15.4 | -15.7 | -20.1 | -23.3 | -32.2 | -35.9 | -38.7 | -38.1 | -42.4 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

$$LSTM = A + B * \log(dist) + C * \log(dist)^{2}$$

Note: Applied to sensitive receivers near elevated, at-grade, or retained-cut track in the Duwamish, Delridge, and West Seattle Junction segments.

Table N.3C-24, L.S.T.M. Coefficients for Borehole West Seattle

| Coeff. | 6.3 Hz | | | 12.5 Hz | | | | | | | | | | | | |
|--------|-----------|-------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Α | 34.8 | 37.8 | 53.0 | 49.4 | 21.7 | 46.1 | 23.3 | 52.2 | 63.1 | 96.8 | 57.9 | 49.9 | 69.7 | 81.8 | 108.2 | 102.2 |
| В | -17.5 | -18.6 | -24.7 | -23.4 | -11.3 | -21.8 | -10.1 | -21.3 | -25.1 | -40.1 | -23.5 | -18.9 | -27.7 | -34.8 | -48.4 | -46.0 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

$$L.S.T.M. = A + B * \log(dist) + C * \log(dist)^{2}$$

Note: Applied to sensitive receivers near tunnel track in the Duwamish, Delridge, and West Seattle Junction segments.

Table N.3C-25. L.S.T.M. Coefficients for Borehole Downtown

| Coeff. | 6.3 Hz | 8 Hz | | 12.5 Hz | | | | | | | | | | | | 200 Hz |
|--------|-----------|---------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| Α | 34.3 | 54.5 | 47.8 | 56.3 | 59.0 | 72.7 | 87.8 | 97.4 | 145.6 | 137.7 | 126.0 | 137.0 | 164.2 | 103.1 | 118.9 | 150.8 |
| В | -14.6 | -23.7 | -20.1 | -23.7 | -25.3 | -32.0 | -37.4 | -41.9 | -63.3 | -61.5 | -57.4 | -62.7 | -74.9 | -48.4 | -55.8 | -68.1 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

$$L.S.T.M. = A + B * \log(dist) + C * \log(dist)^{2}$$

Note: Applied to sensitive receivers near tunnel track in the Downtown and South Interbay segments.

Table N.3C-26, L.S.T.M. Coefficients for Surface Ballard

| Coeff. | 6.3 Hz | 8 Hz | 10 Hz | 12.5 Hz | 16 Hz | 20 Hz | 25 Hz | 31.5 Hz | 40 Hz | 50 Hz | 63 Hz | 80 Hz | 100 Hz | 125 Hz | 160 Hz | 200 Hz |
|--------|-----------|---------|----------|------------|----------|----------|----------|------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
| Α | 38.1 | 33.5 | 29.0 | 29.9 | 30.7 | 42.5 | 65.2 | 77.8 | 88.6 | 91.0 | 92.2 | 84.7 | 82.0 | 77.7 | 71.4 | 77.1 |
| В | -9.3 | -7.5 | -4.6 | -4.4 | -4.6 | -8.9 | -18.7 | -23.8 | -29.5 | -32.7 | -36.0 | -34.7 | -35.3 | -35.5 | -34.1 | -39.2 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

$$L.S.T.M. = A + B * \log(dist) + C * \log(dist)^{2}$$

Note: Applied to sensitive receivers near elevated, at-grade, or retained-cut track in the South Interbay or Interbay/Ballard segments.

Table N.3C-27. L.S.T.M. Coefficients for Tunnel Ballard

| Coeff. | 6.3 Hz | 8 Hz | 10 Hz | 12.5 Hz | 16 Hz | 20 Hz | 25 Hz | 31.5 Hz | 40 Hz | 50 Hz | 63 Hz | 80 Hz | 100 Hz | 125 Hz | 160 Hz | 200 Hz |
|--------|-----------|---------|----------|------------|----------|----------|----------|------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
| Α | 10.1 | 13.6 | 15.5 | 23.6 | 35.8 | 36.1 | 34.2 | 35.6 | 56.8 | 63.3 | 66.5 | 53.5 | 45.7 | 59.8 | 95.9 | 110.8 |
| В | -5.5 | -7.5 | -8.0 | -11.3 | -15.9 | -14.7 | -13.2 | -12.8 | -23.1 | -26.1 | -27.3 | -20.7 | -17.0 | -24.5 | -43.9 | -53.3 |
| С | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

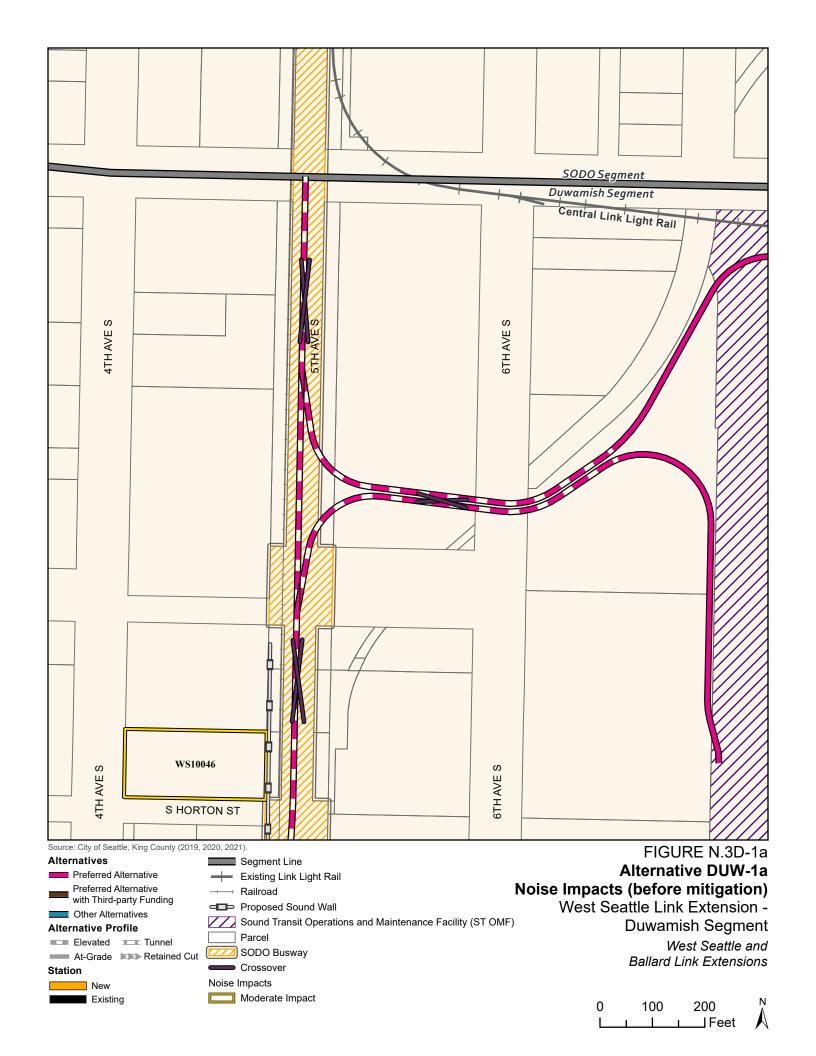
 $L.S.T.M. = A + B * \log(dist) + C * \log(dist)^{2}$

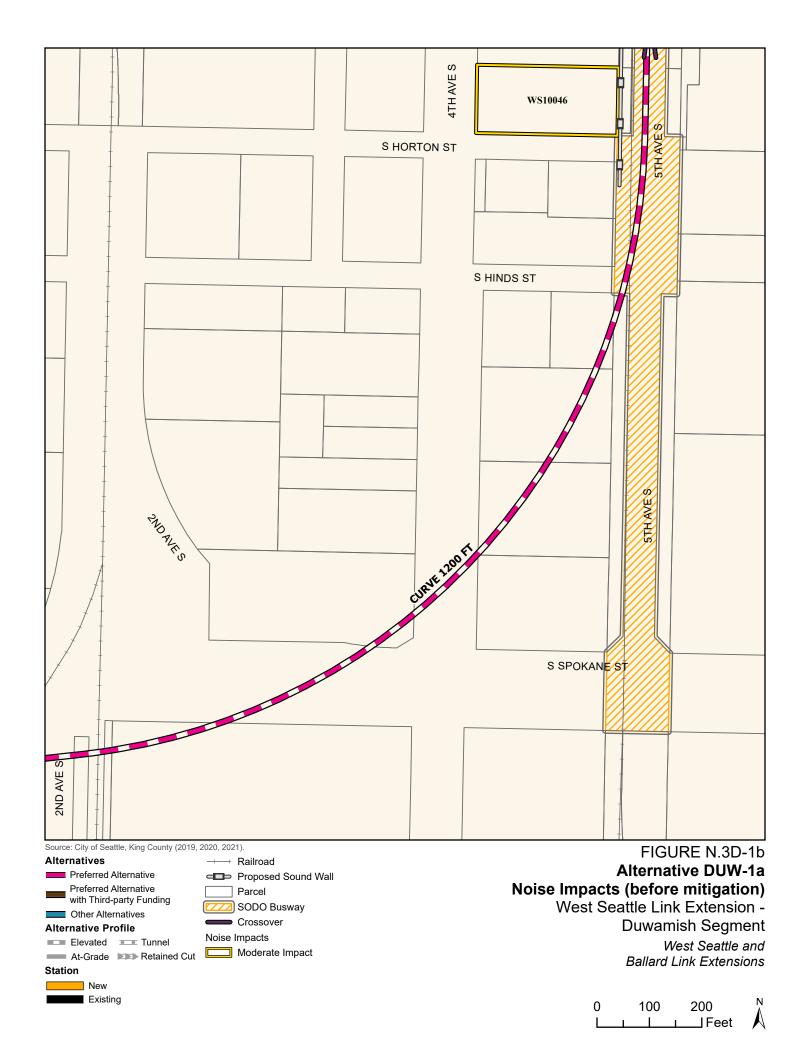
Note: Applied to sensitive receivers near tunnel track in the Interbay/Ballard Segment.

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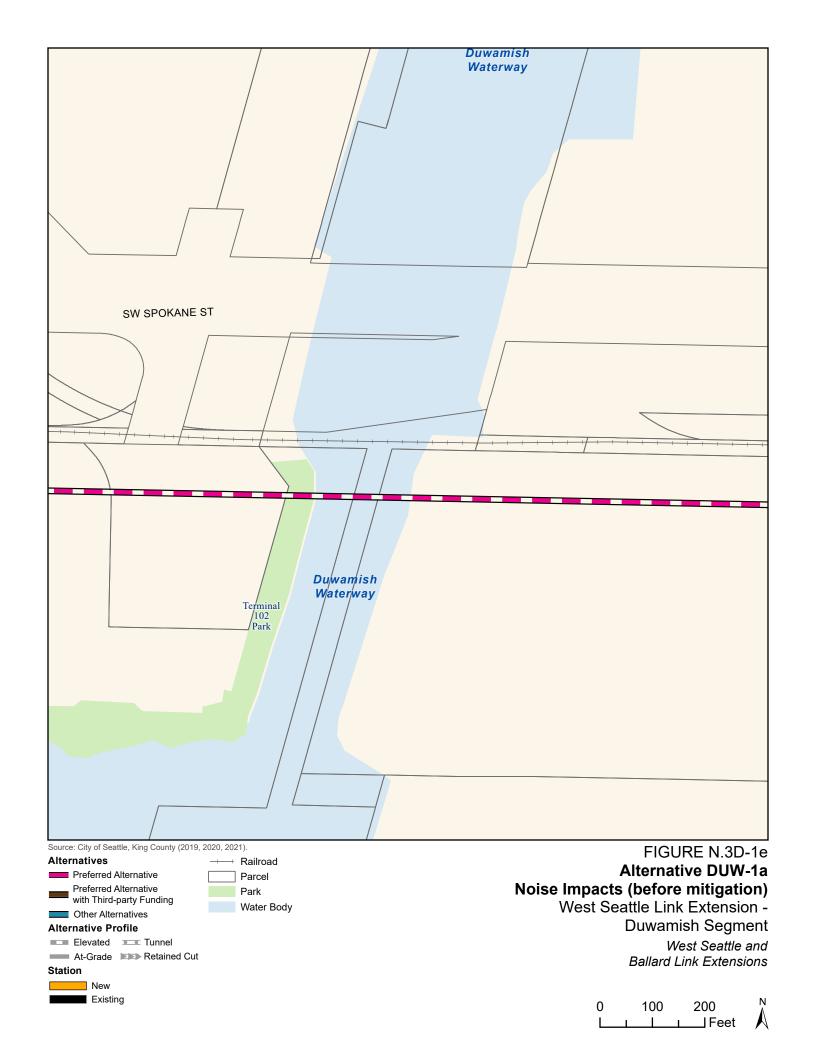
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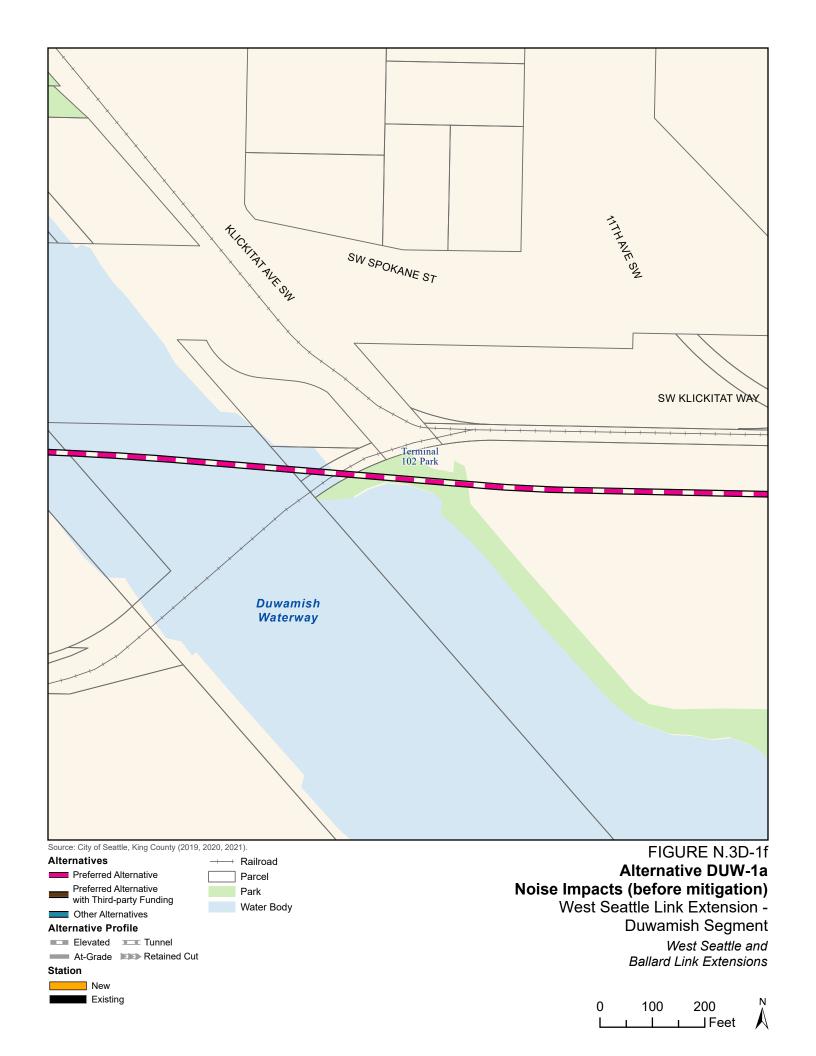


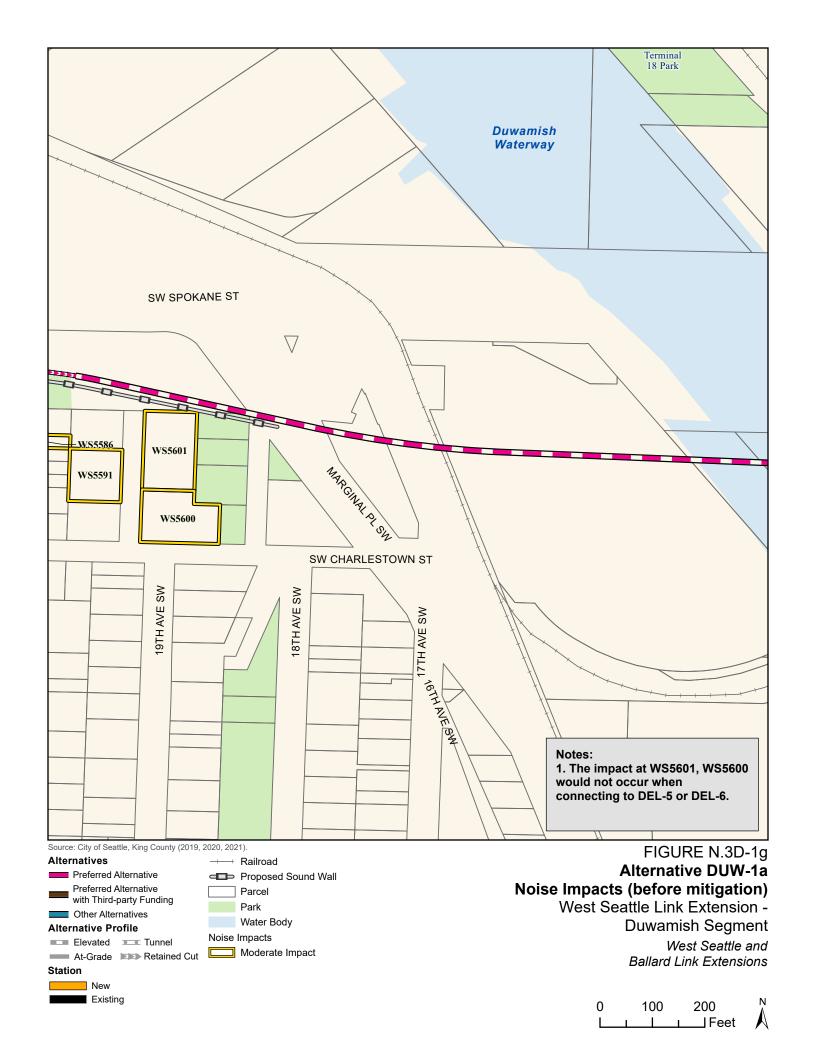


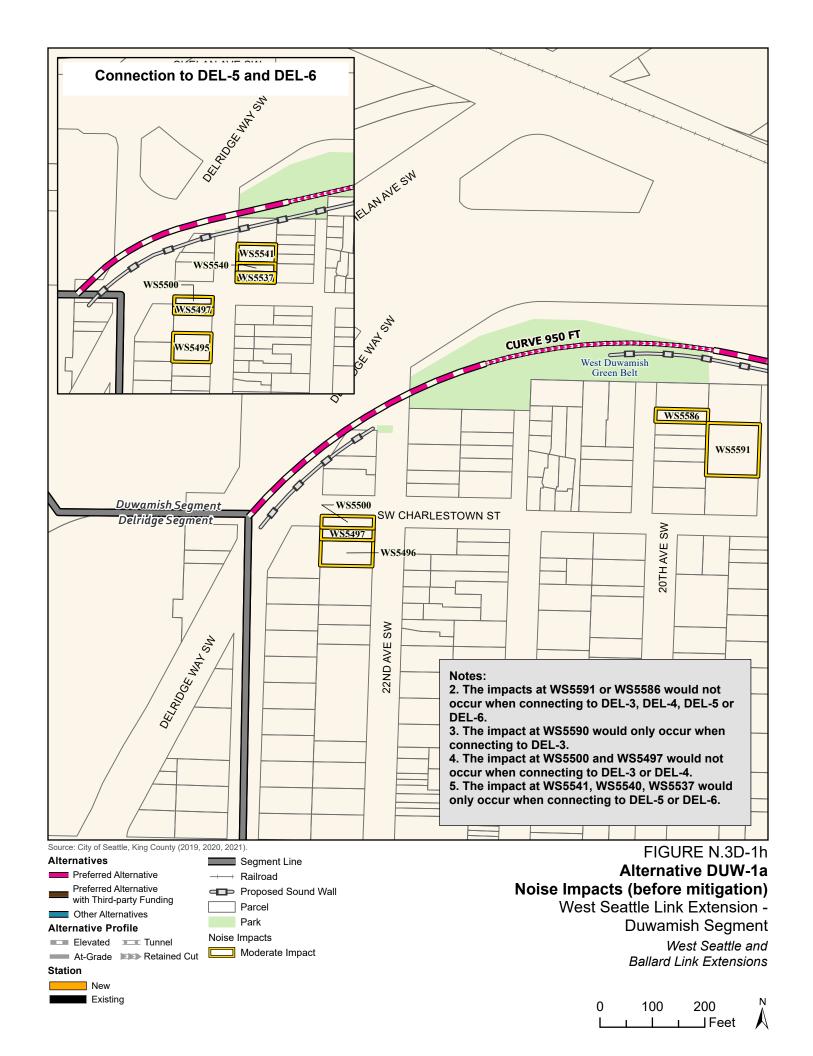


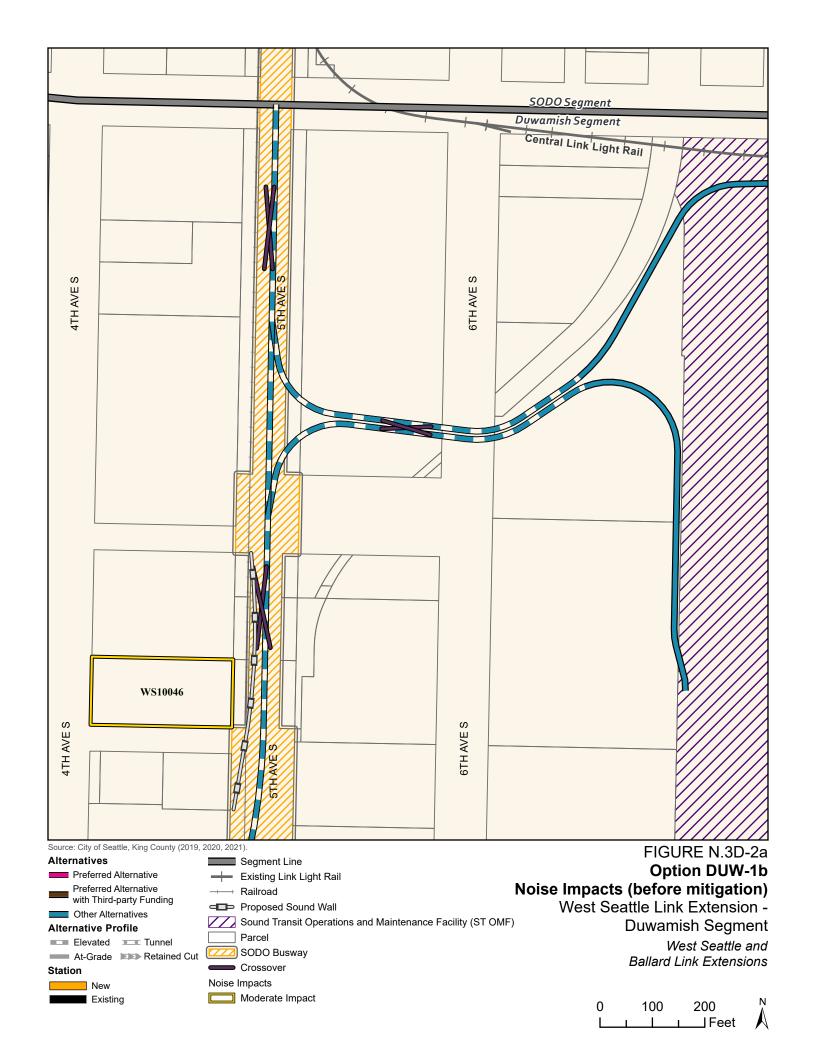


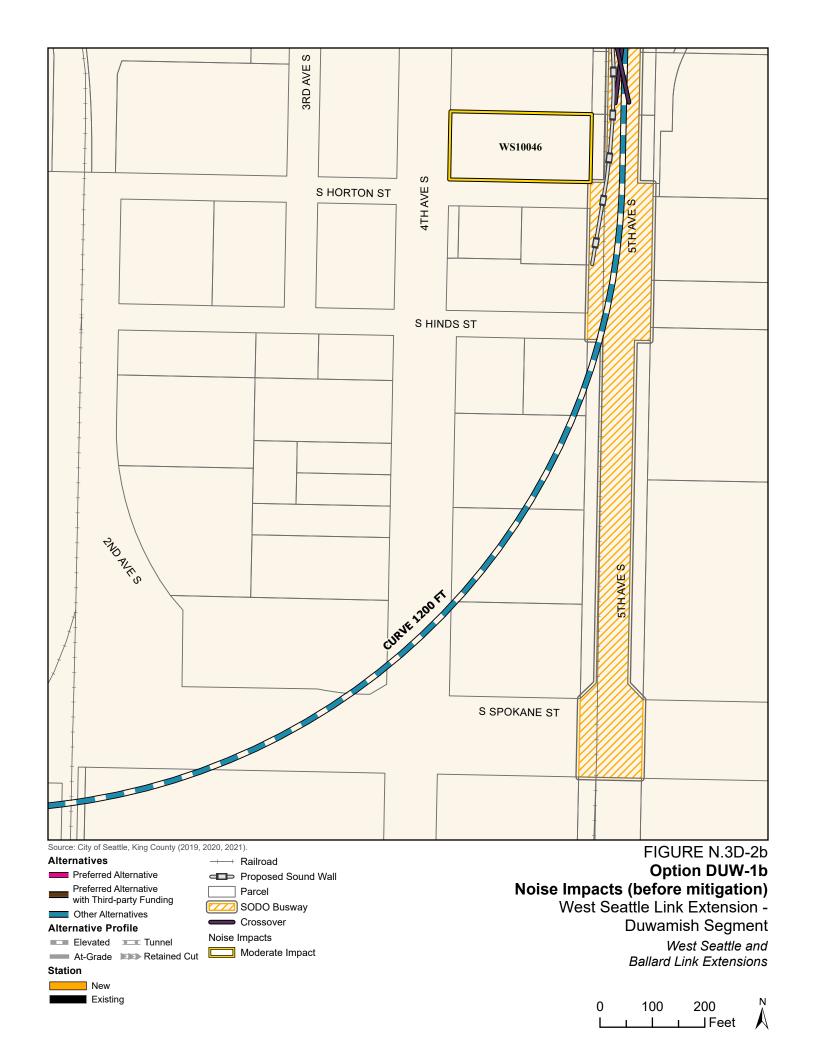






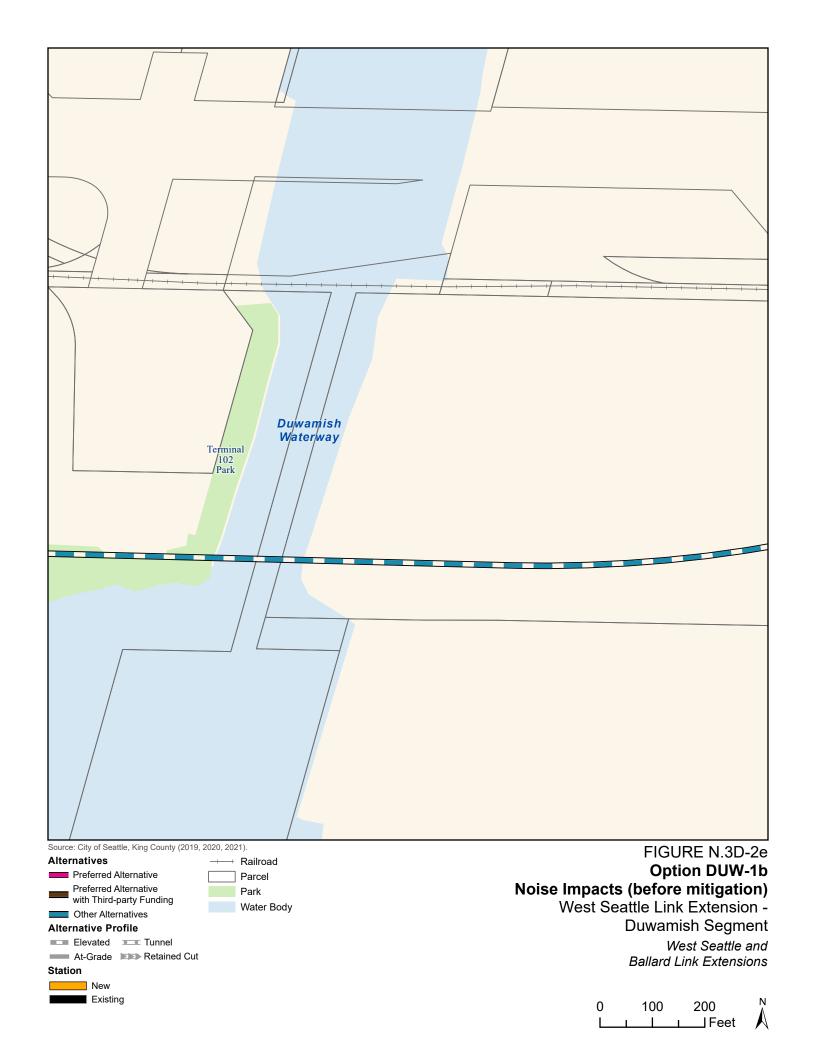


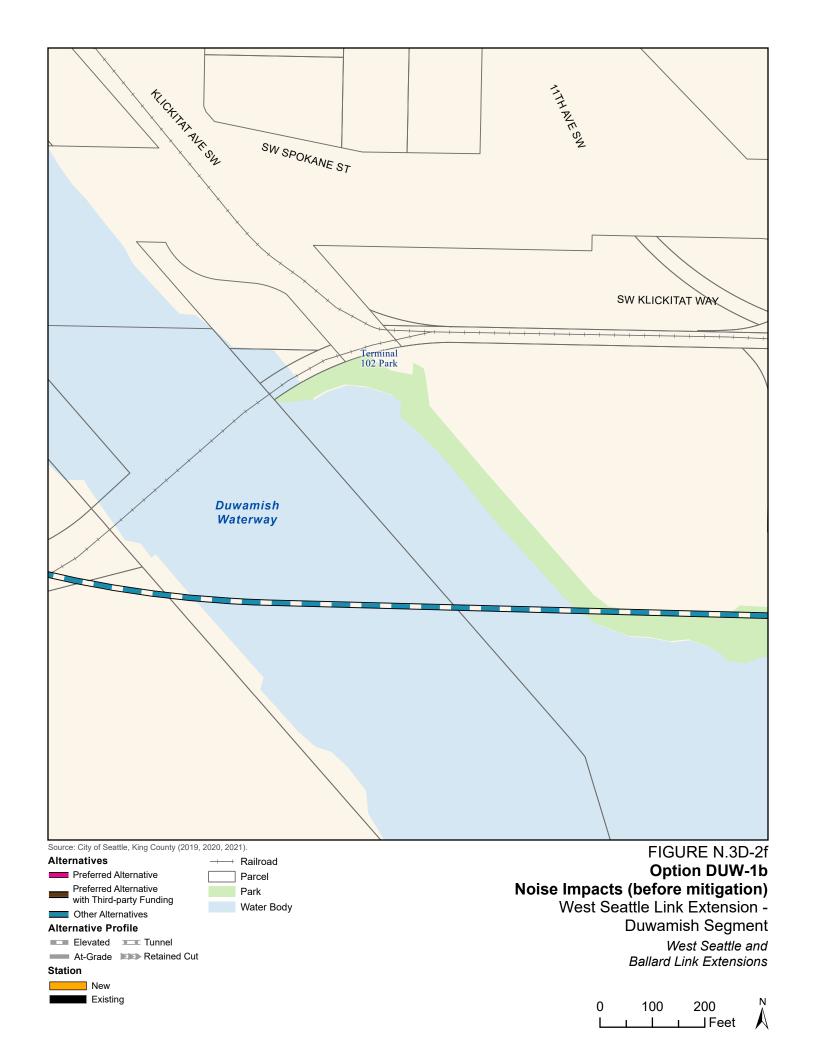


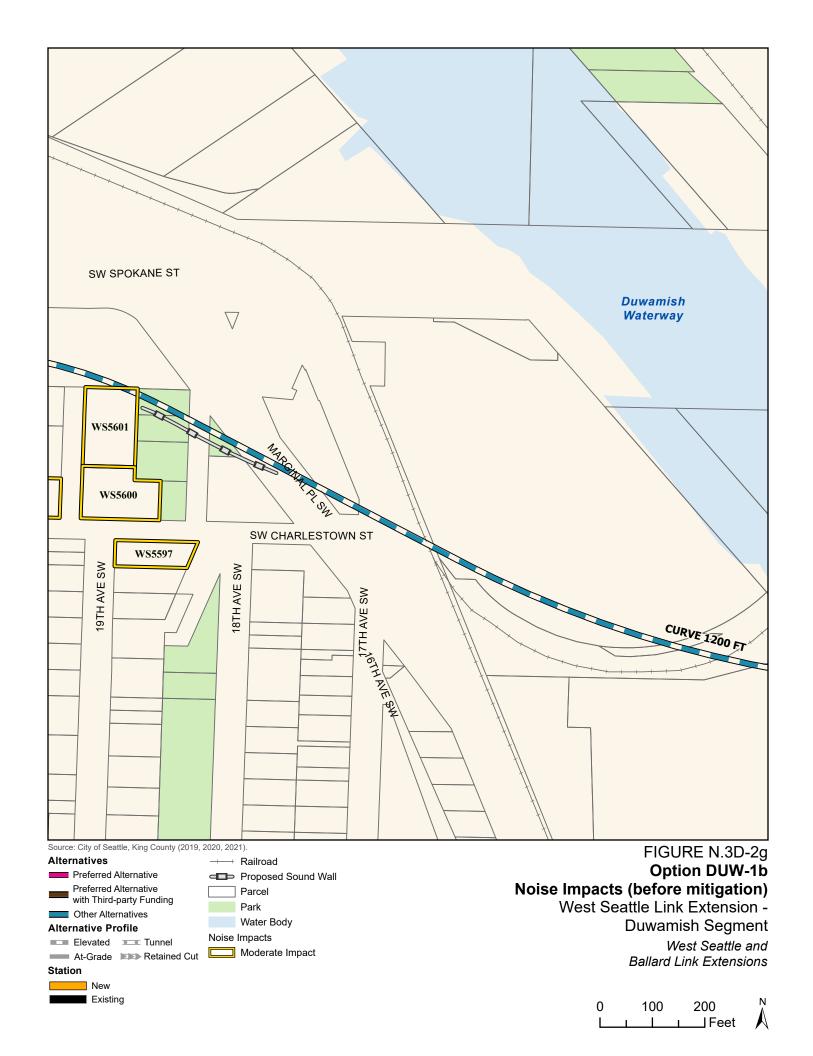


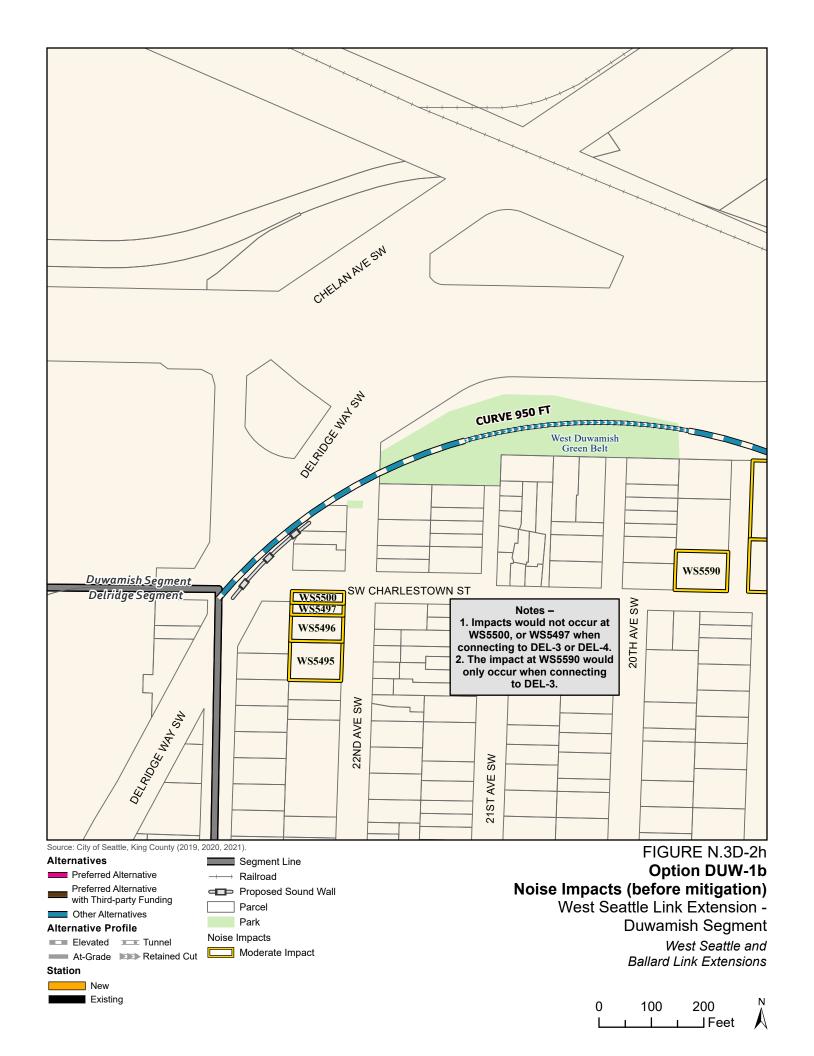


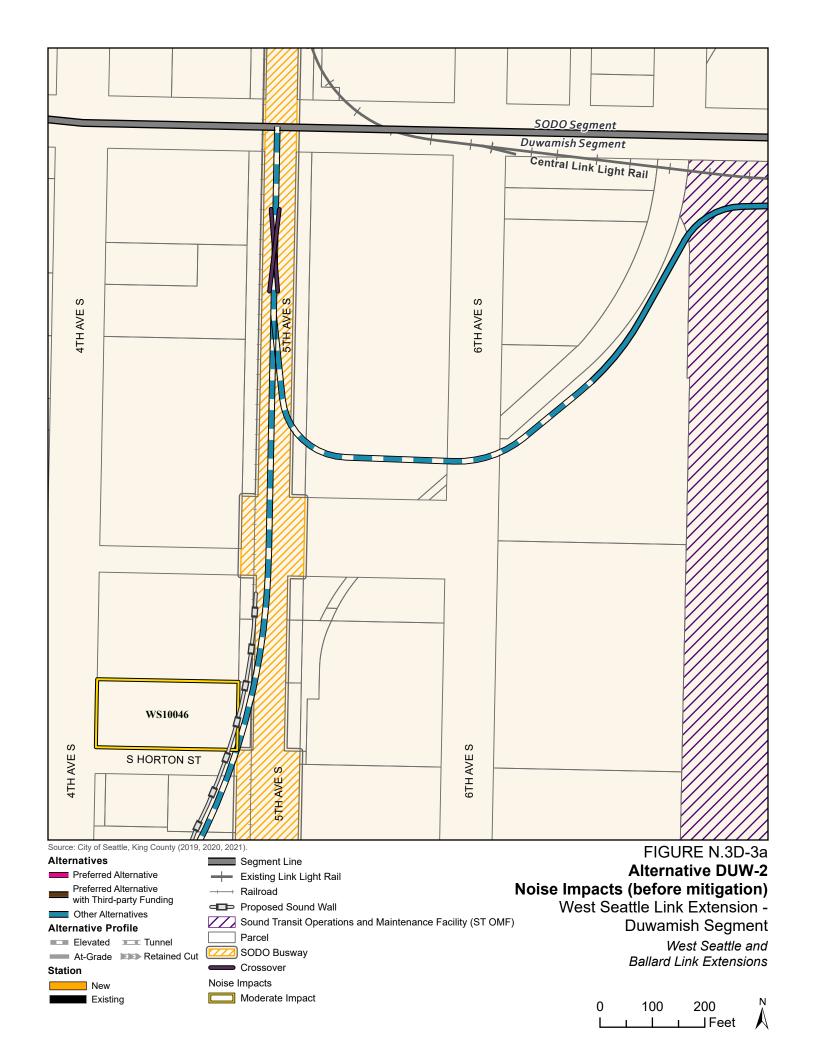


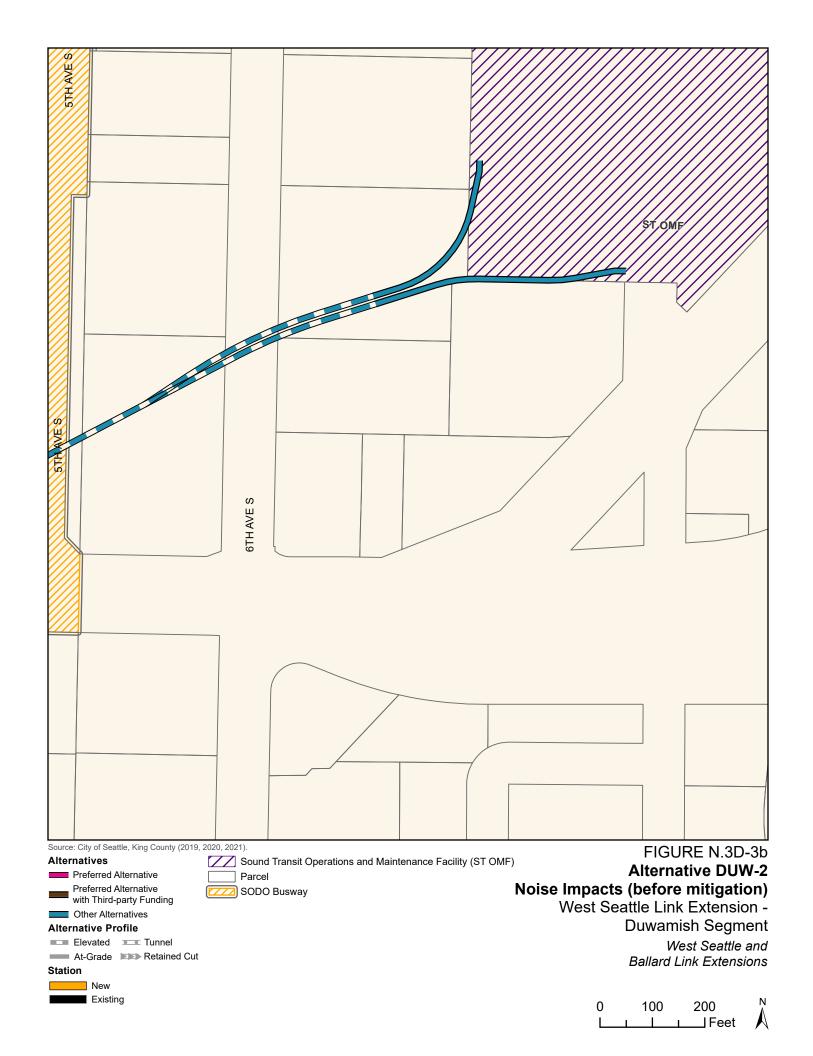


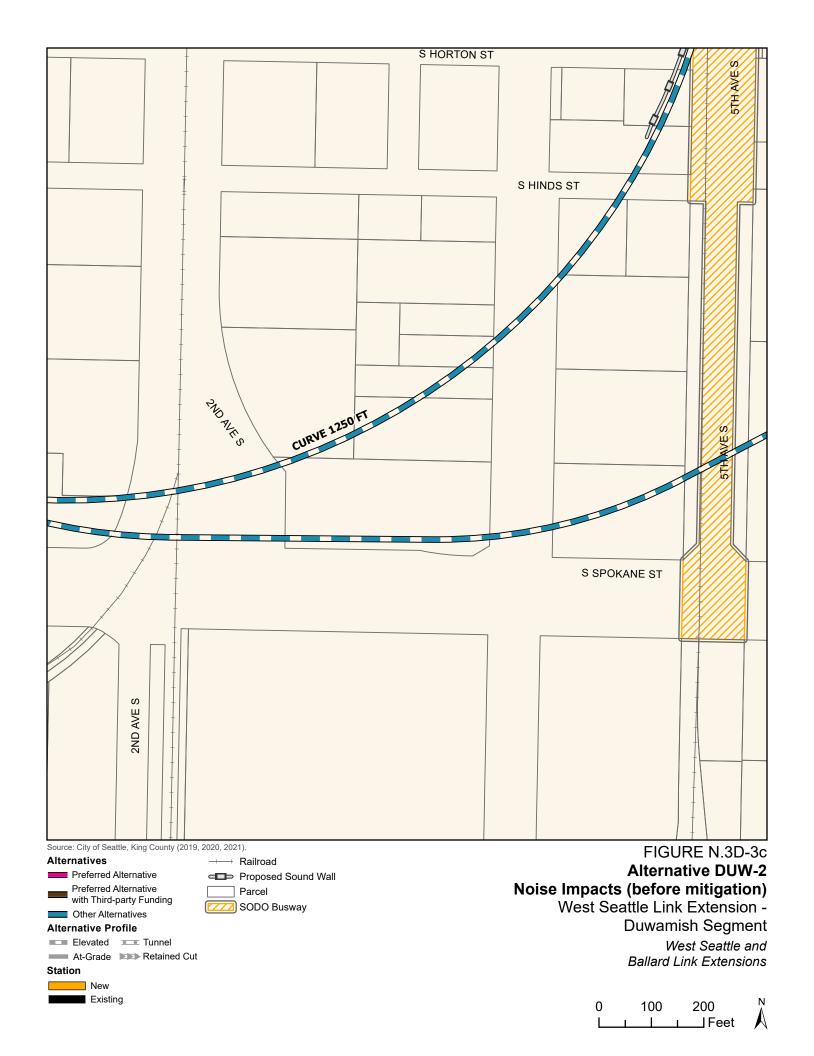






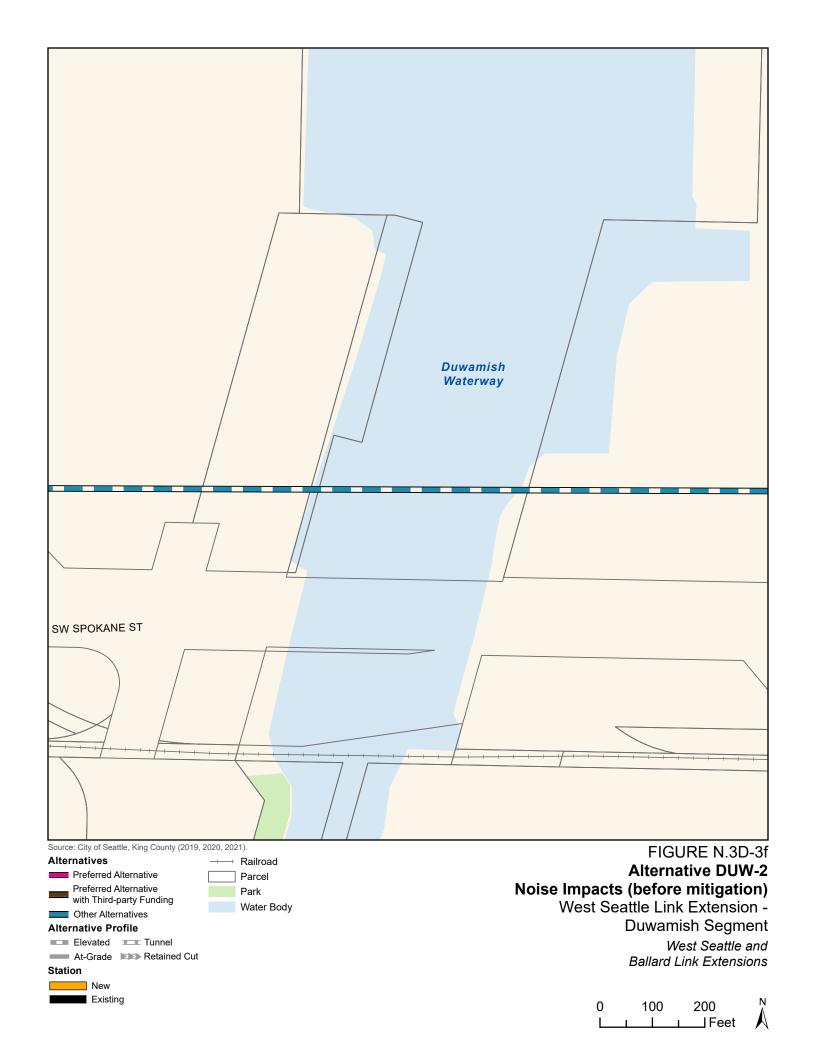


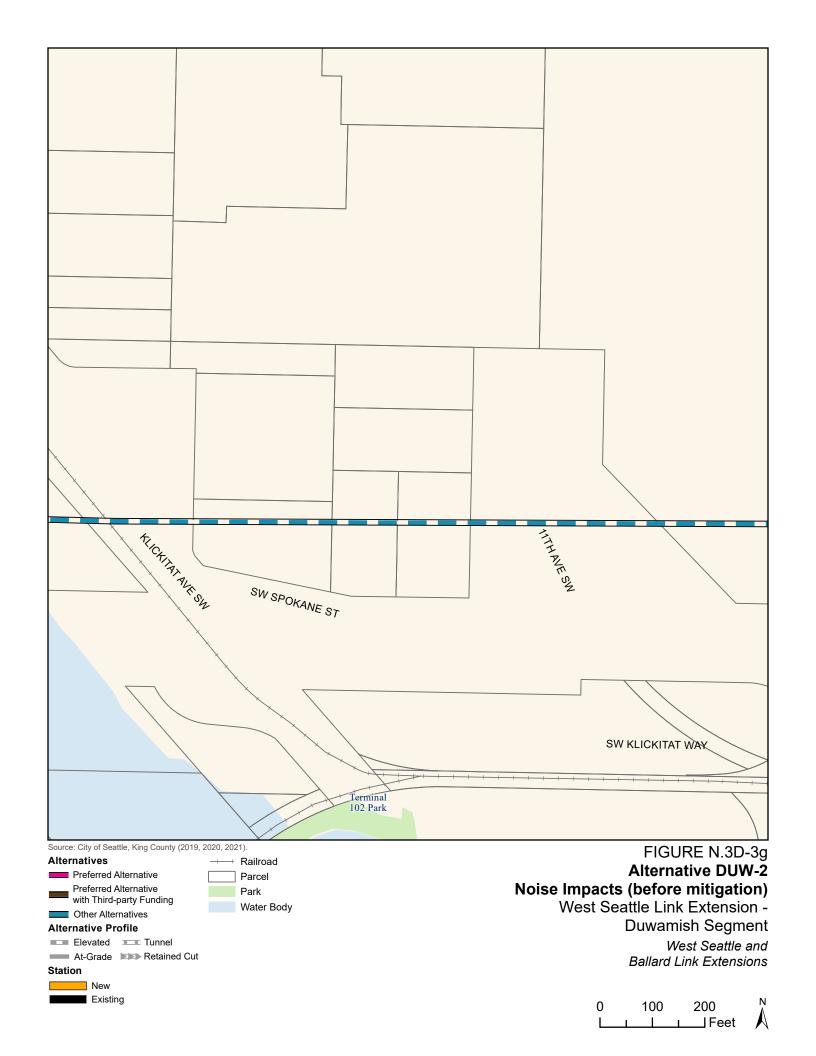


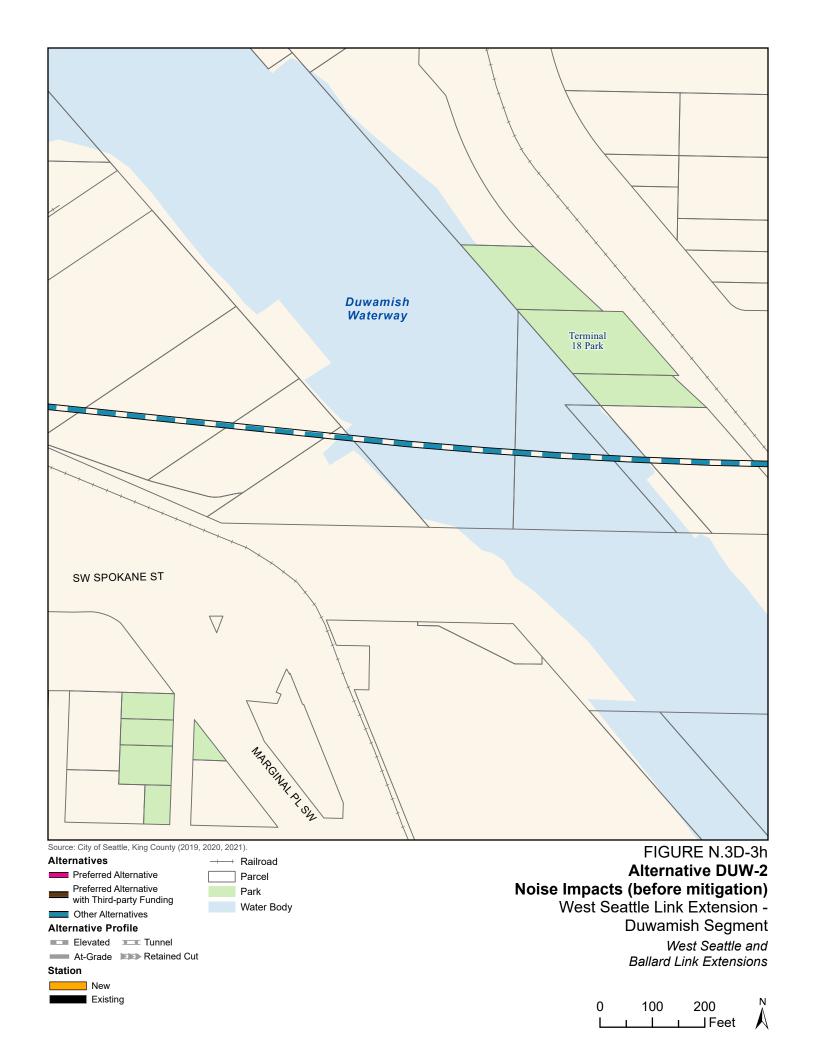


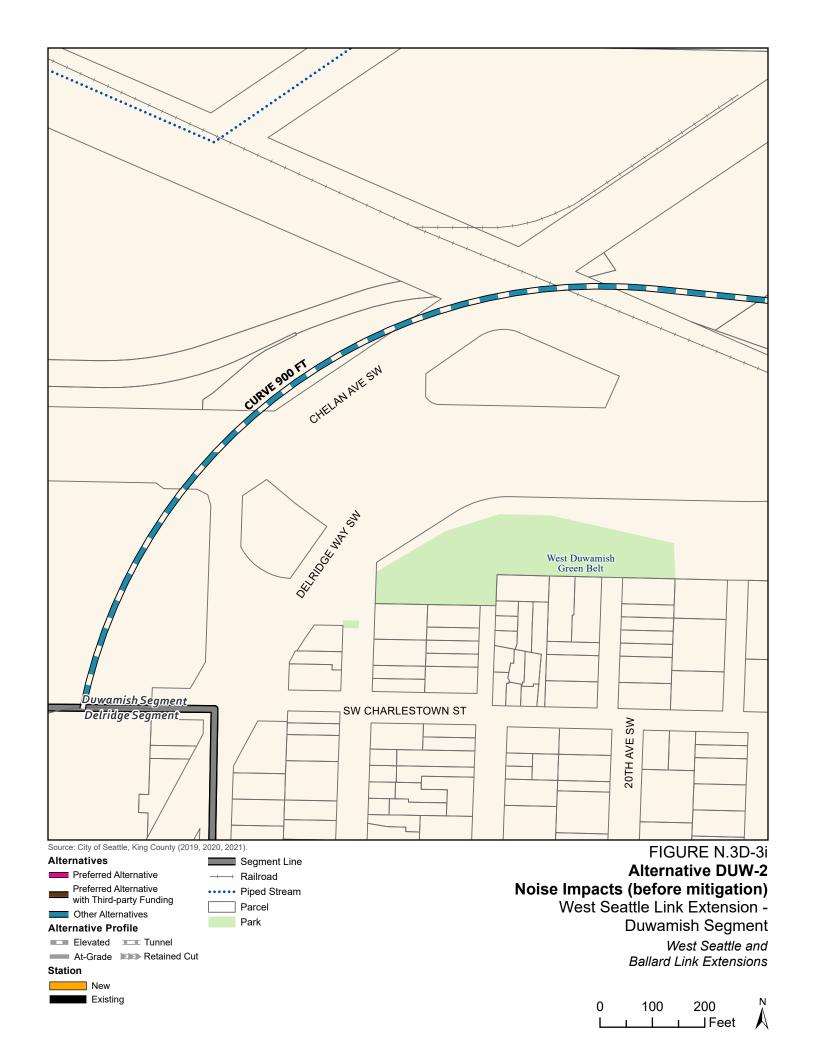


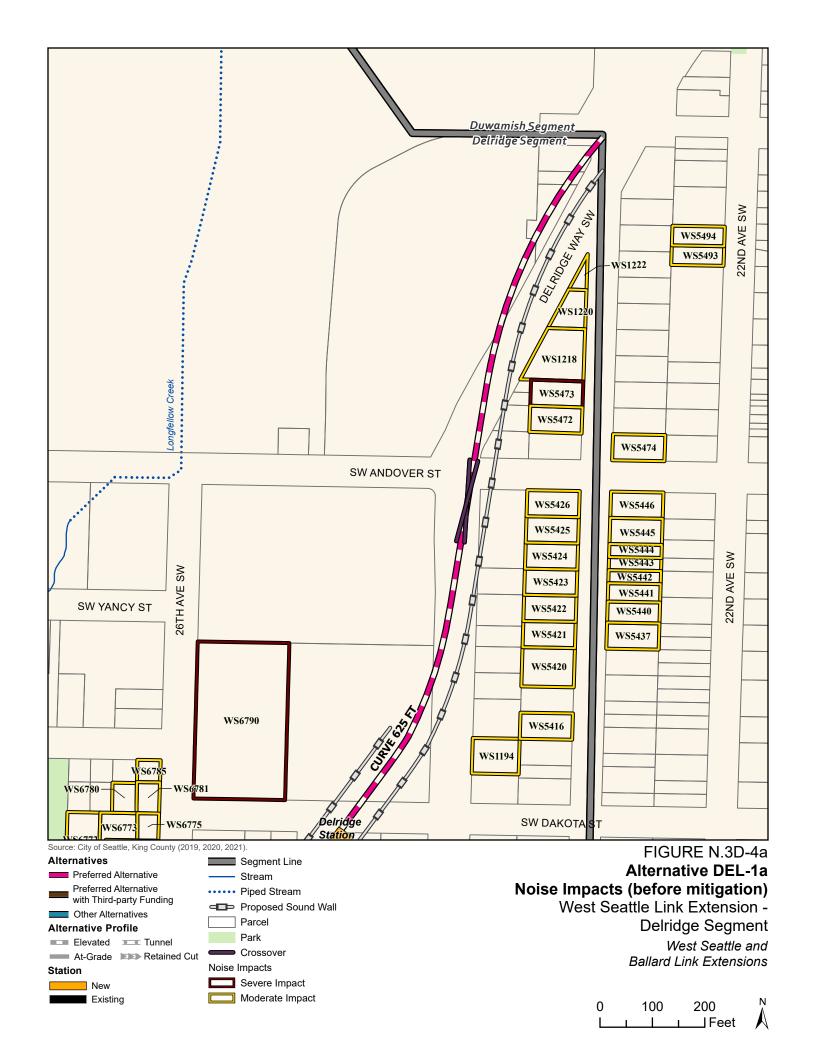


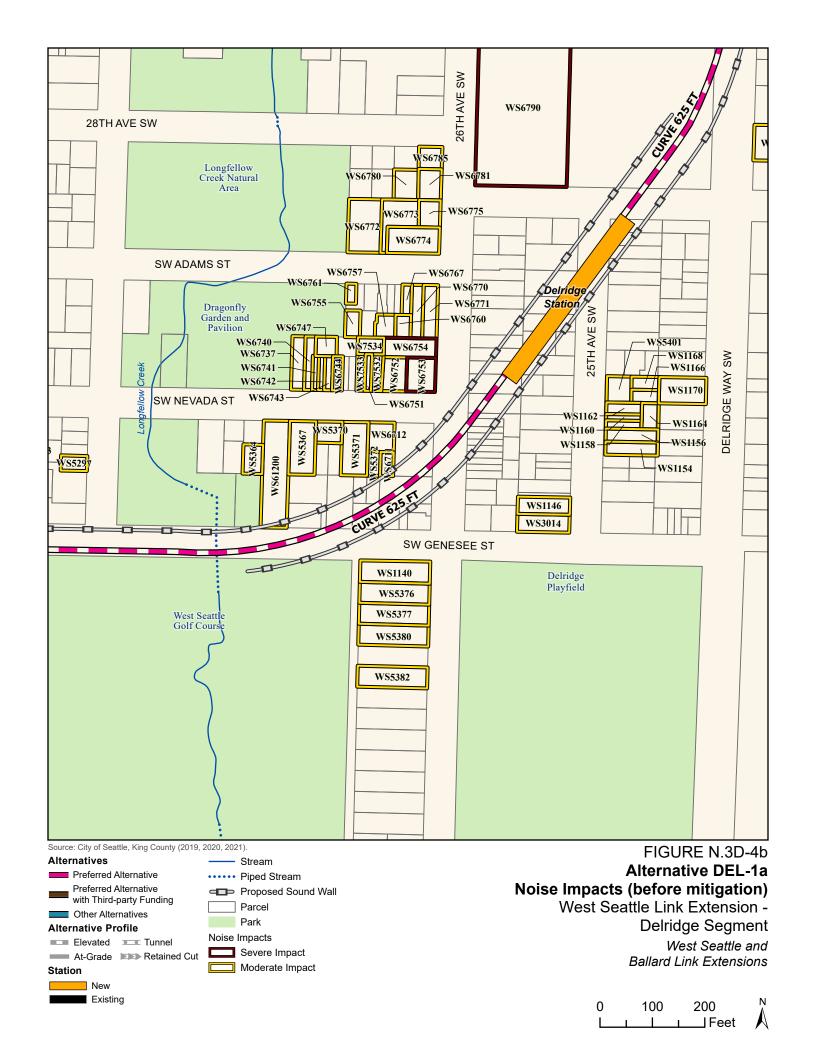


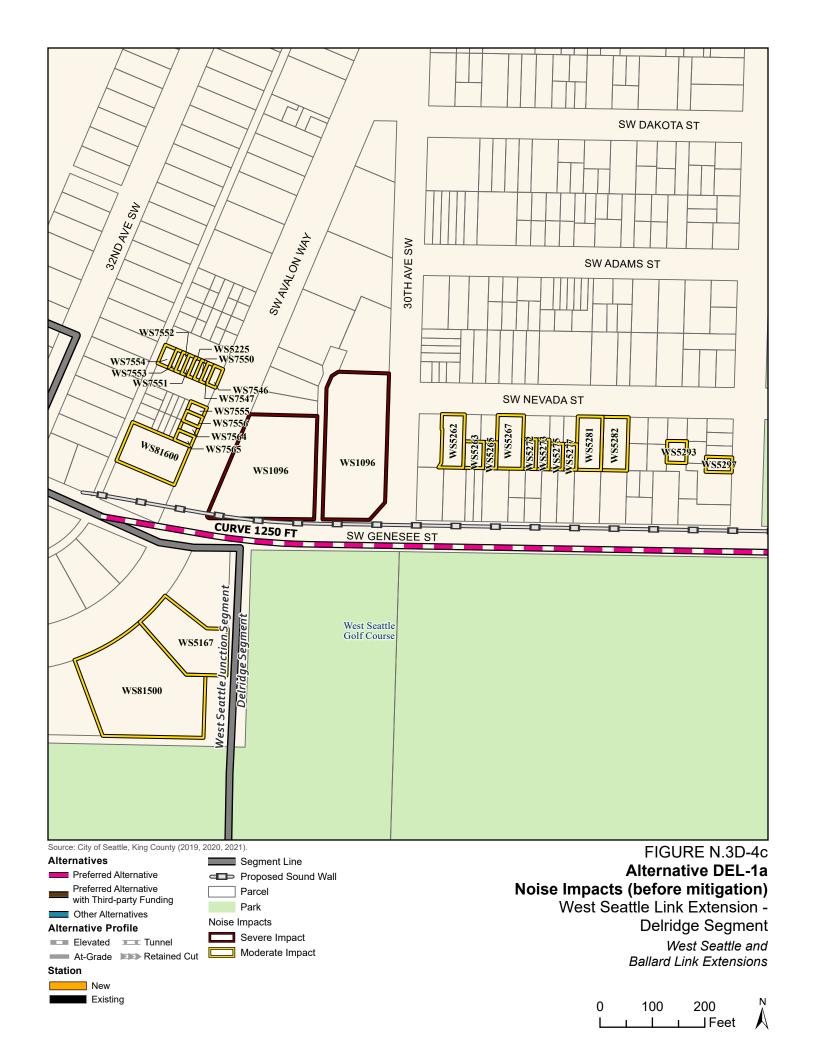


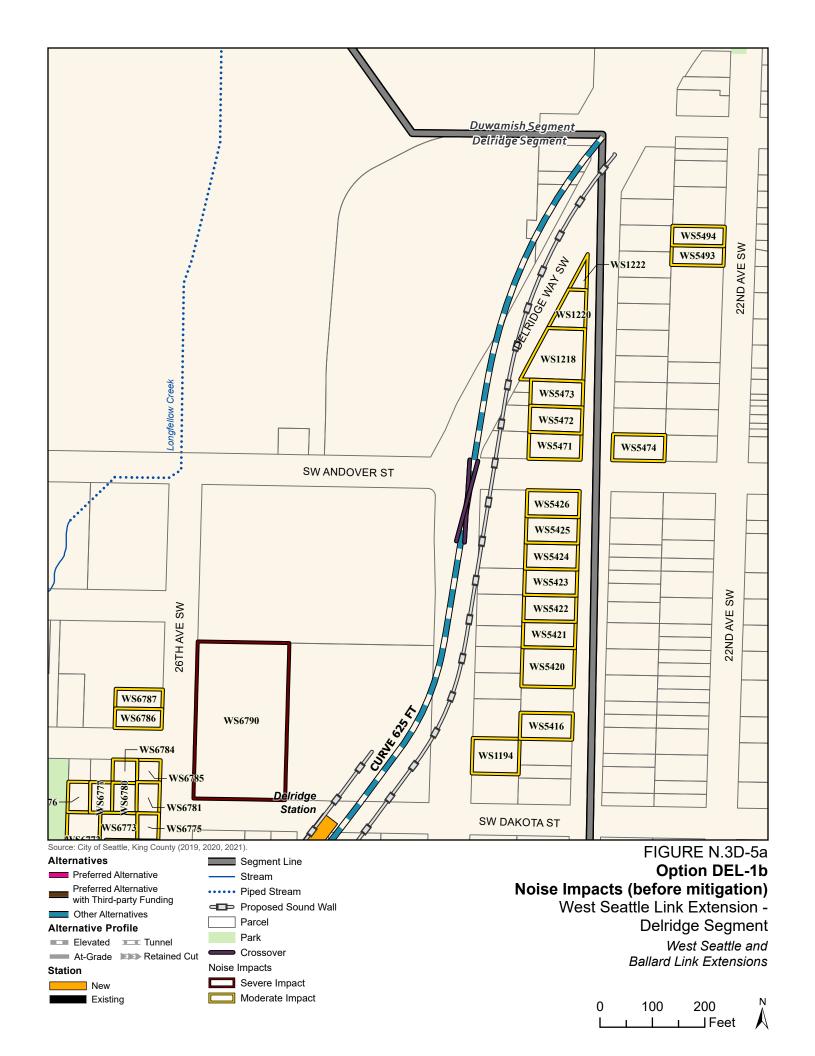


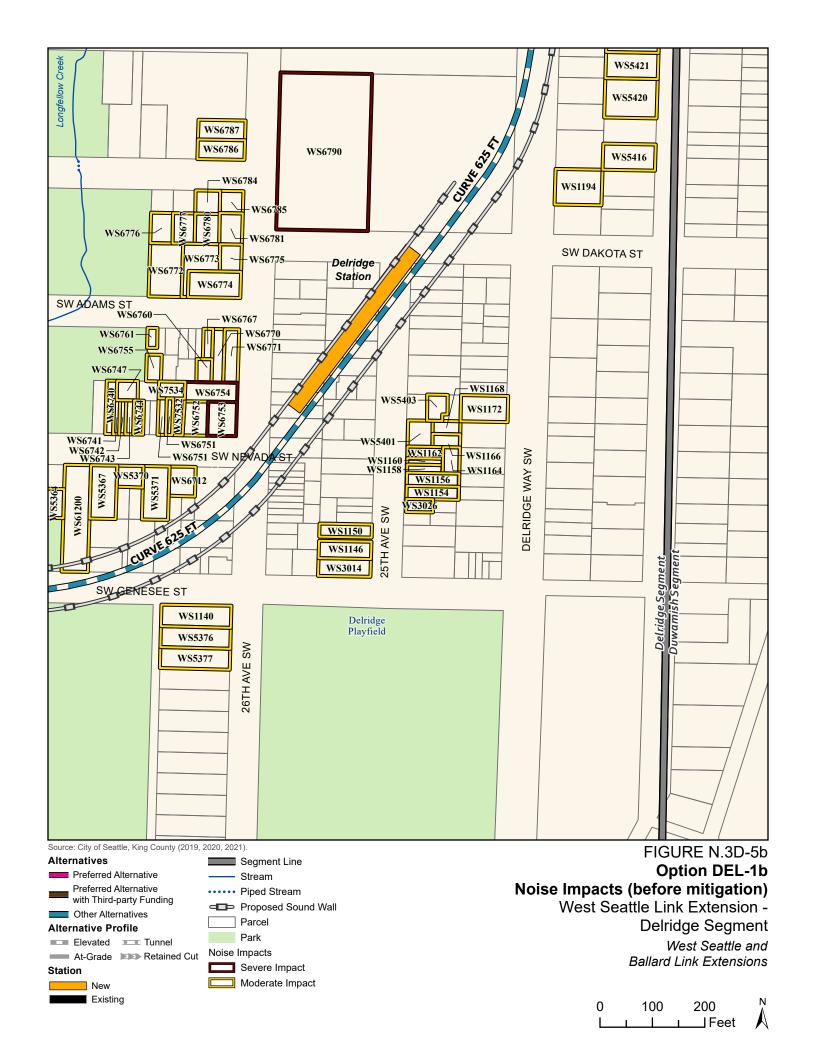


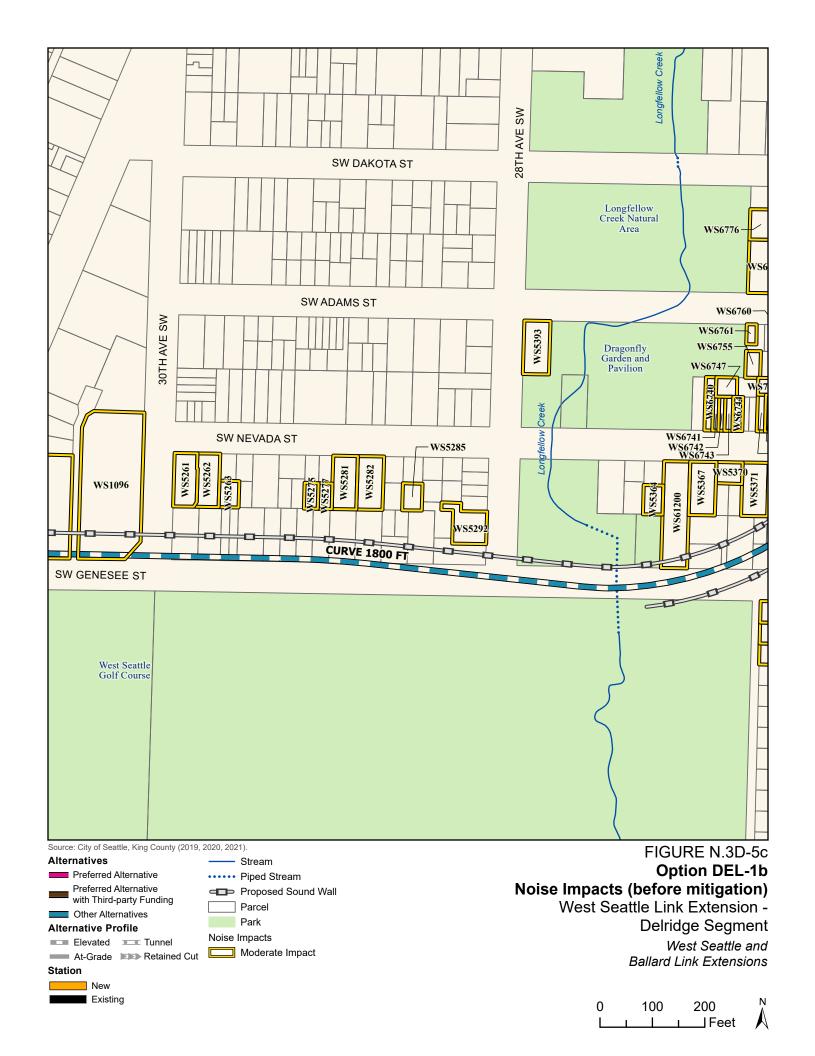




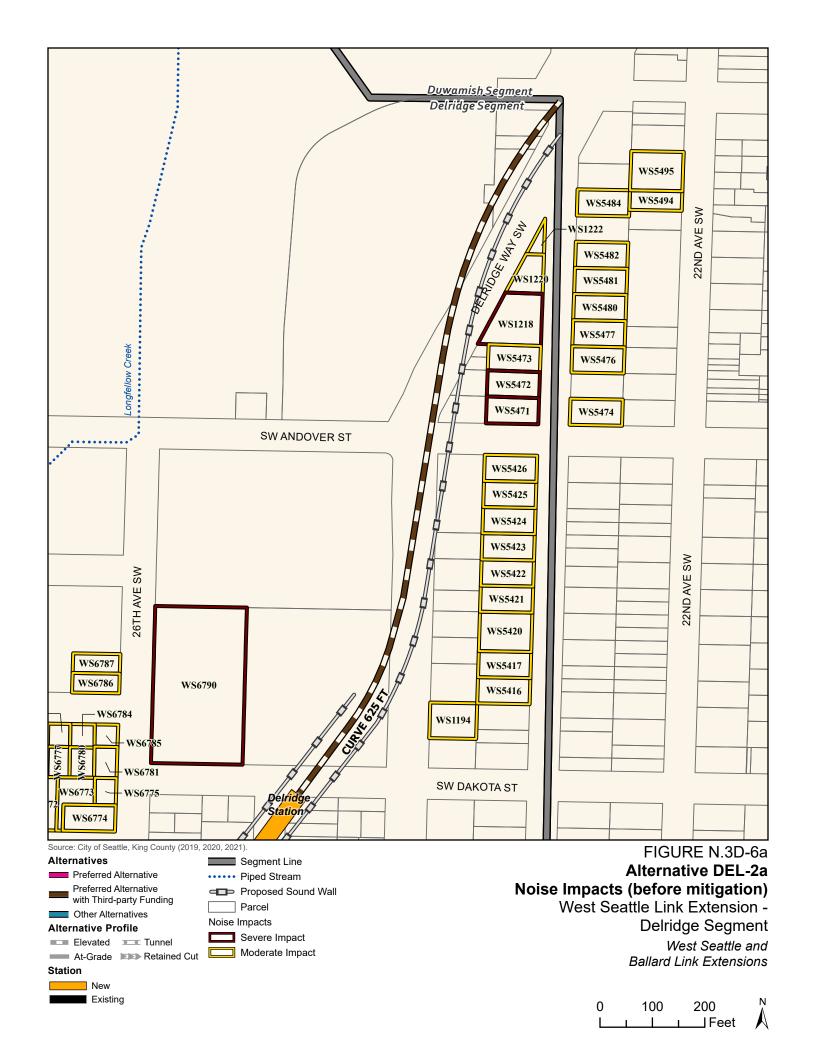


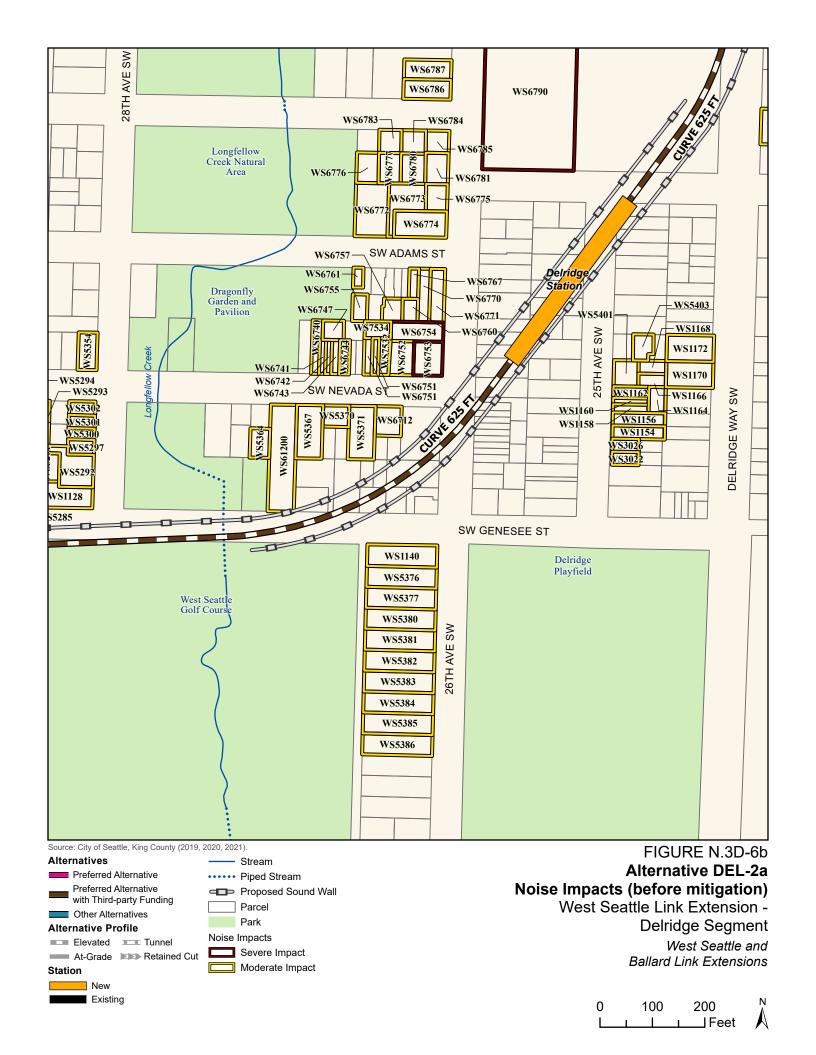


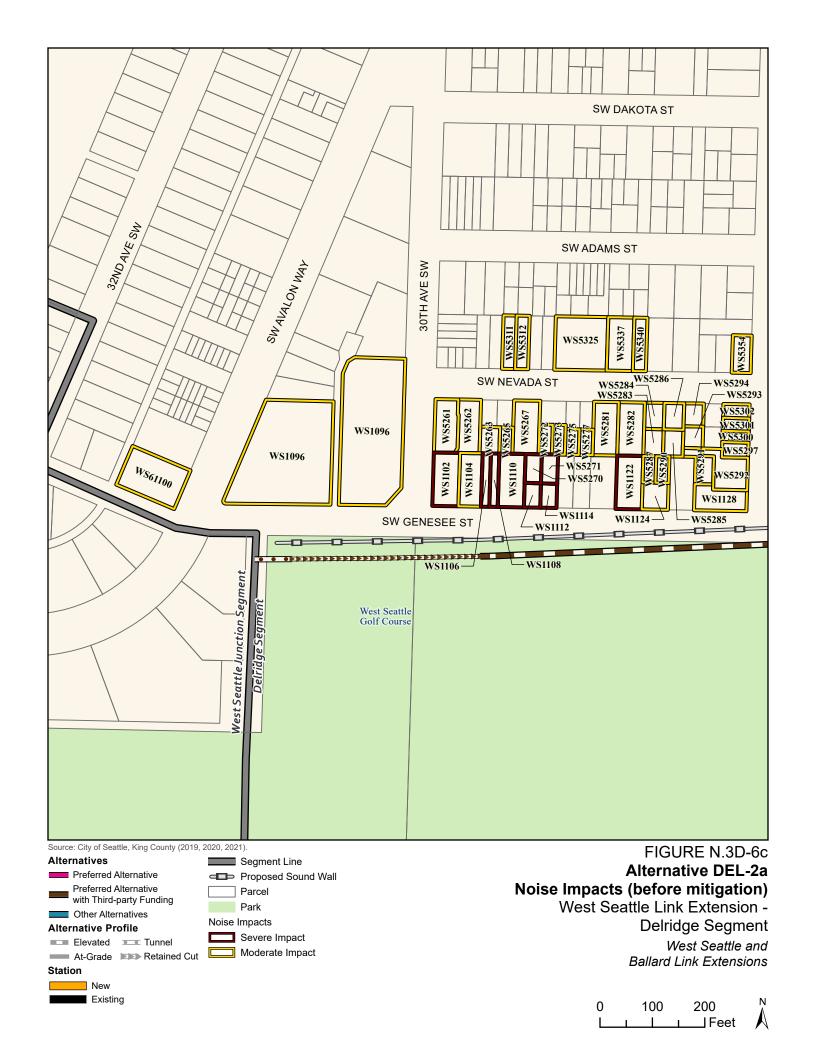


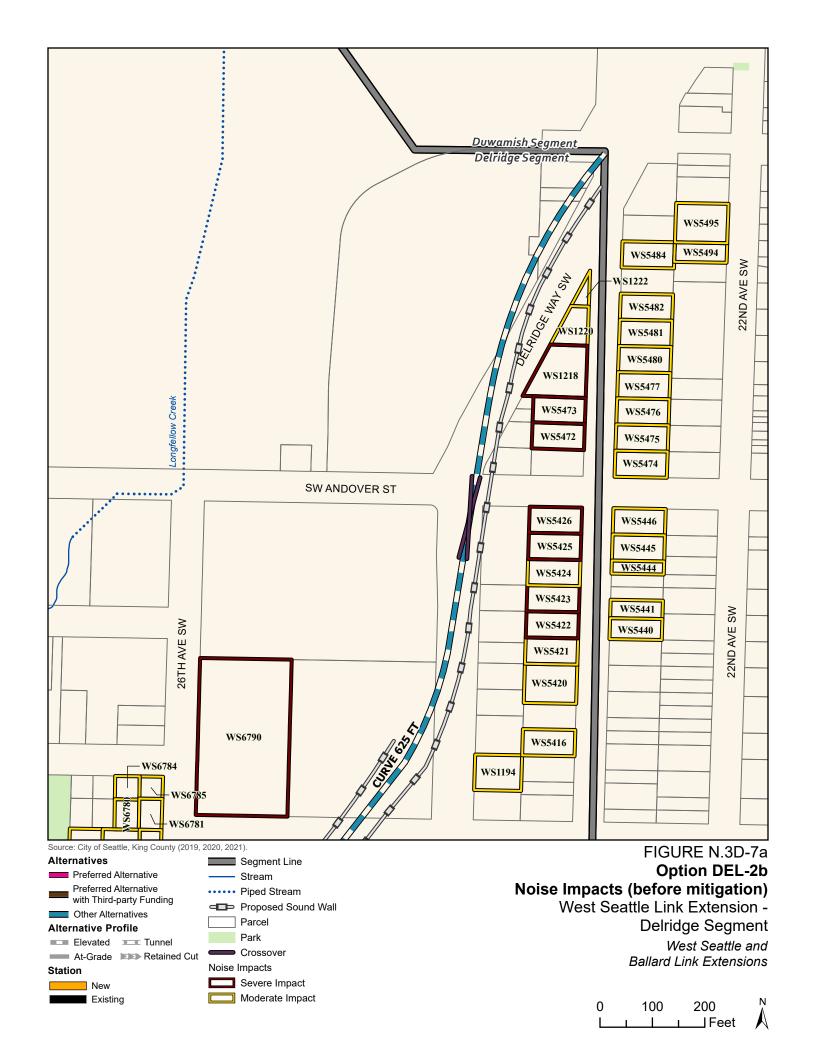


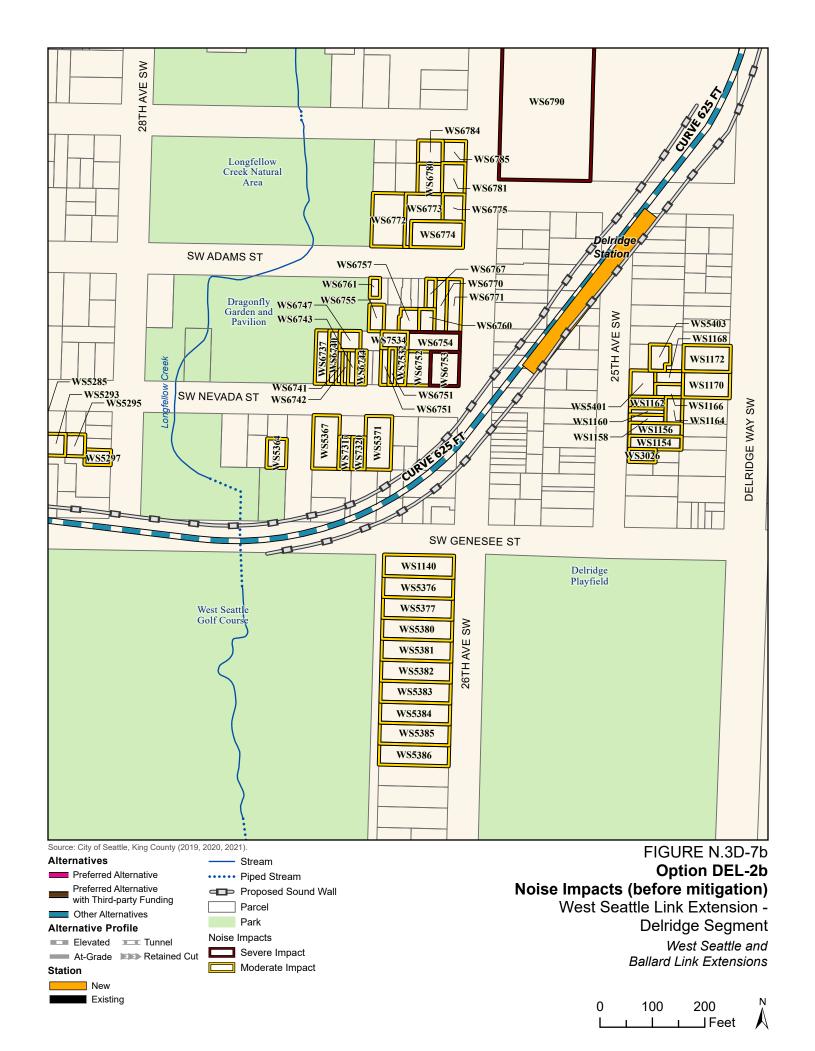


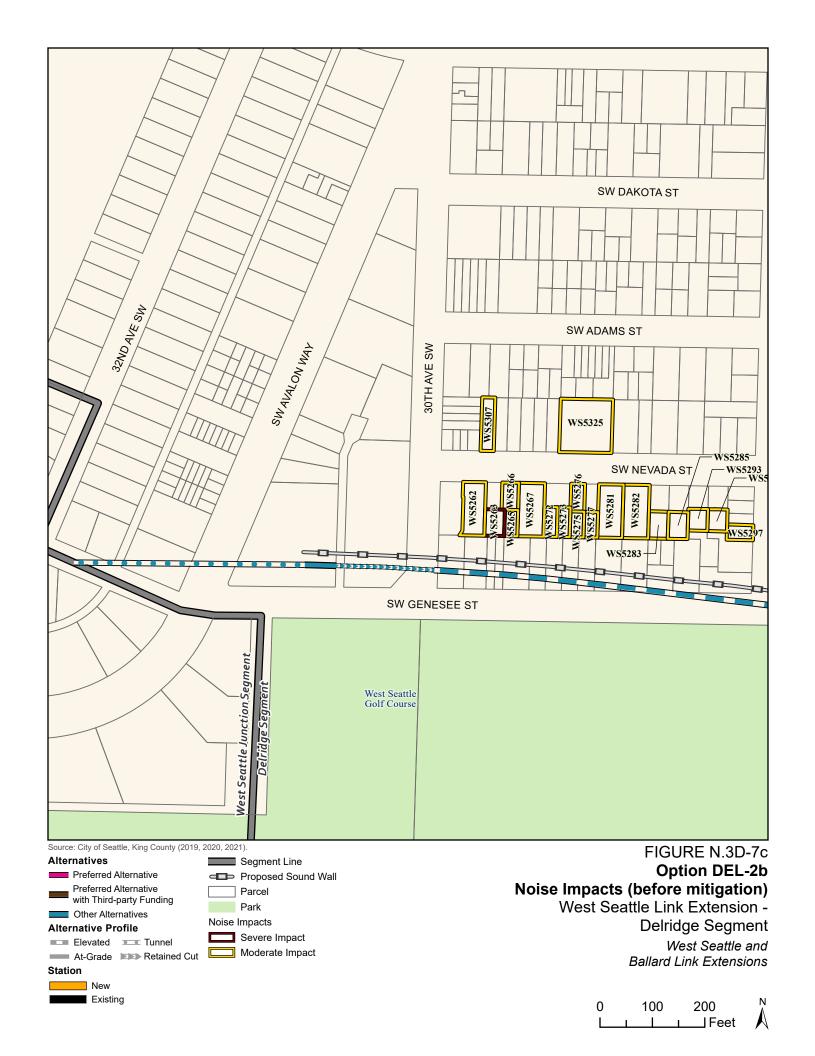


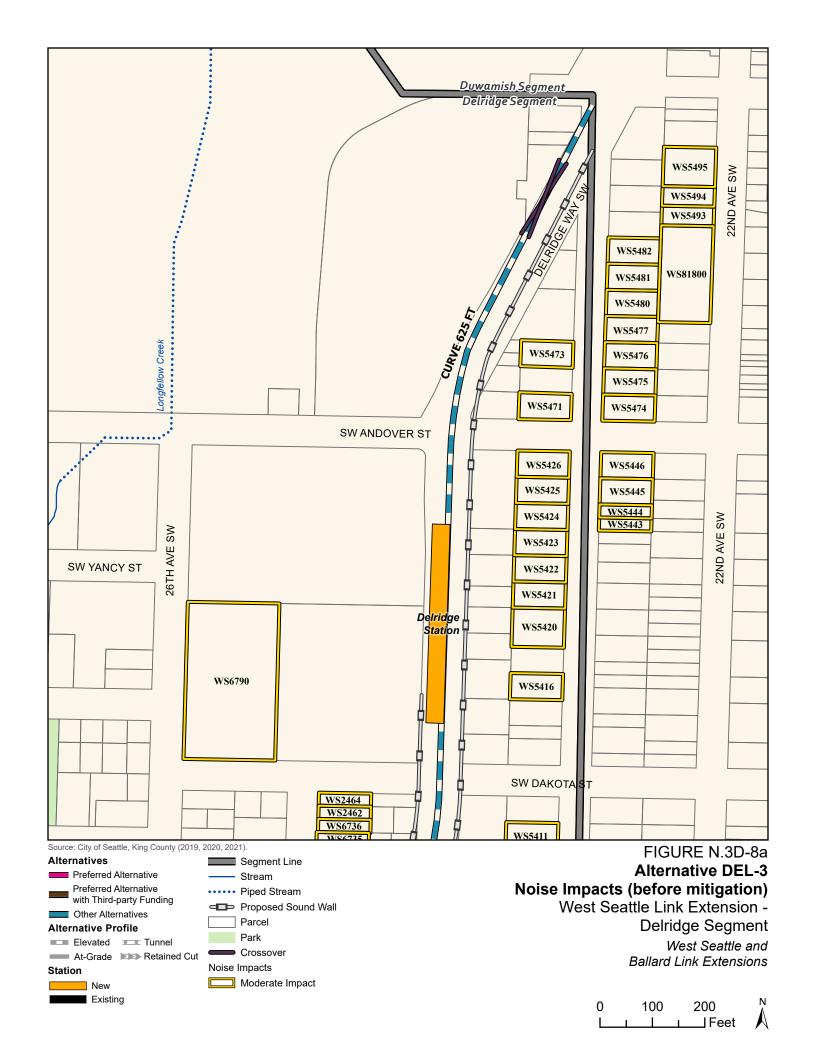


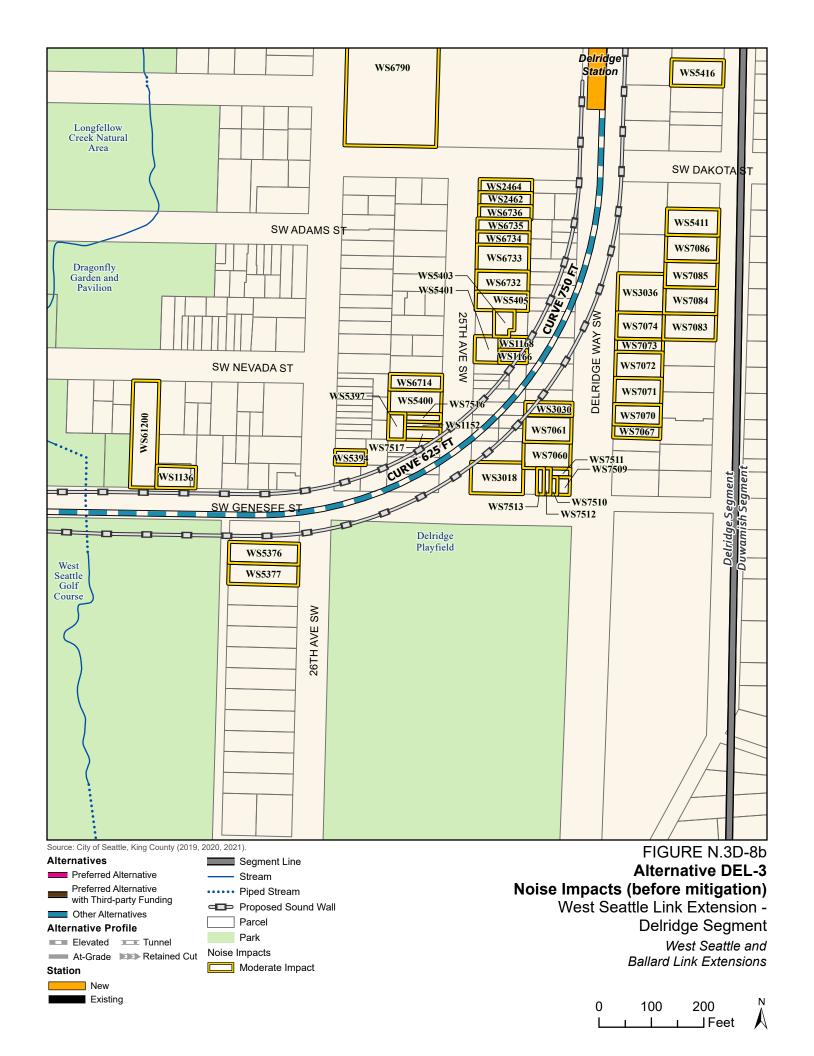


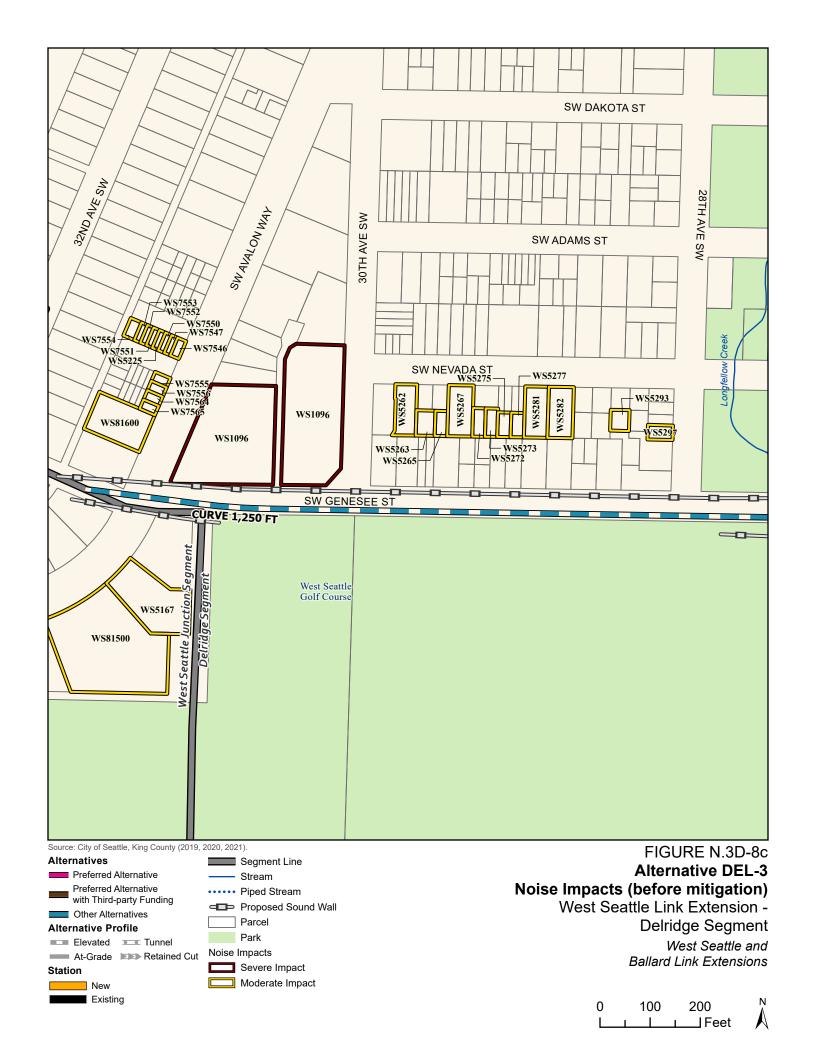


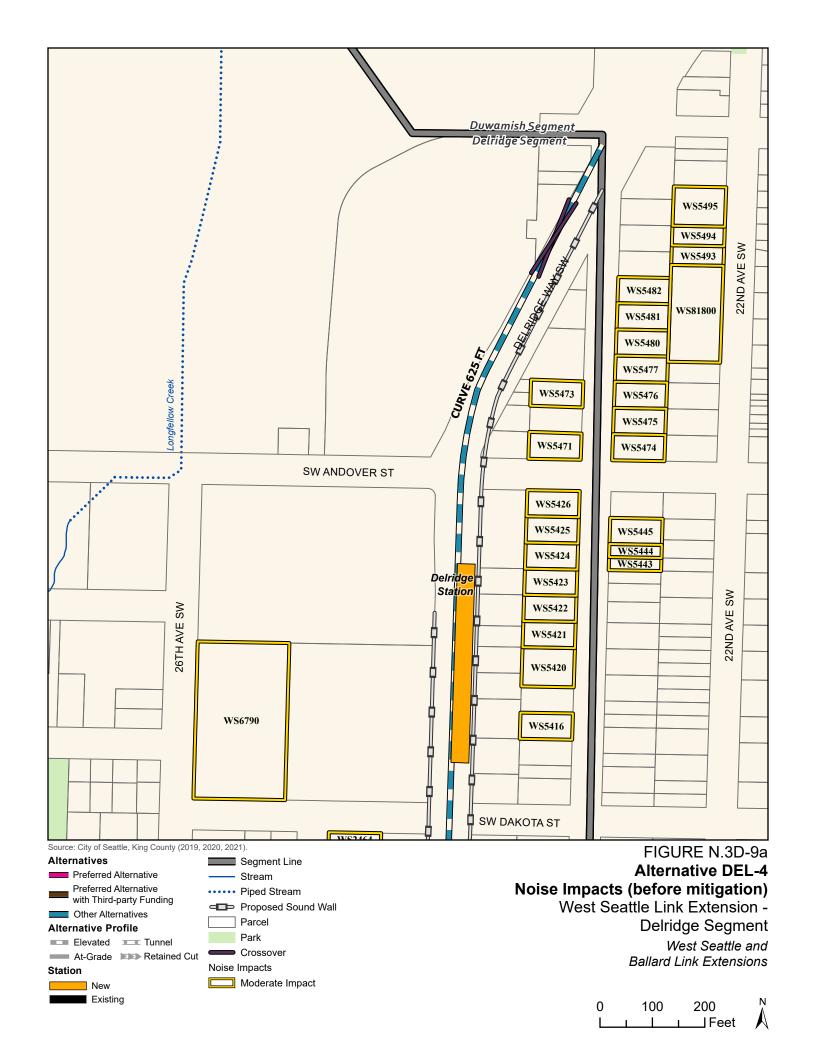


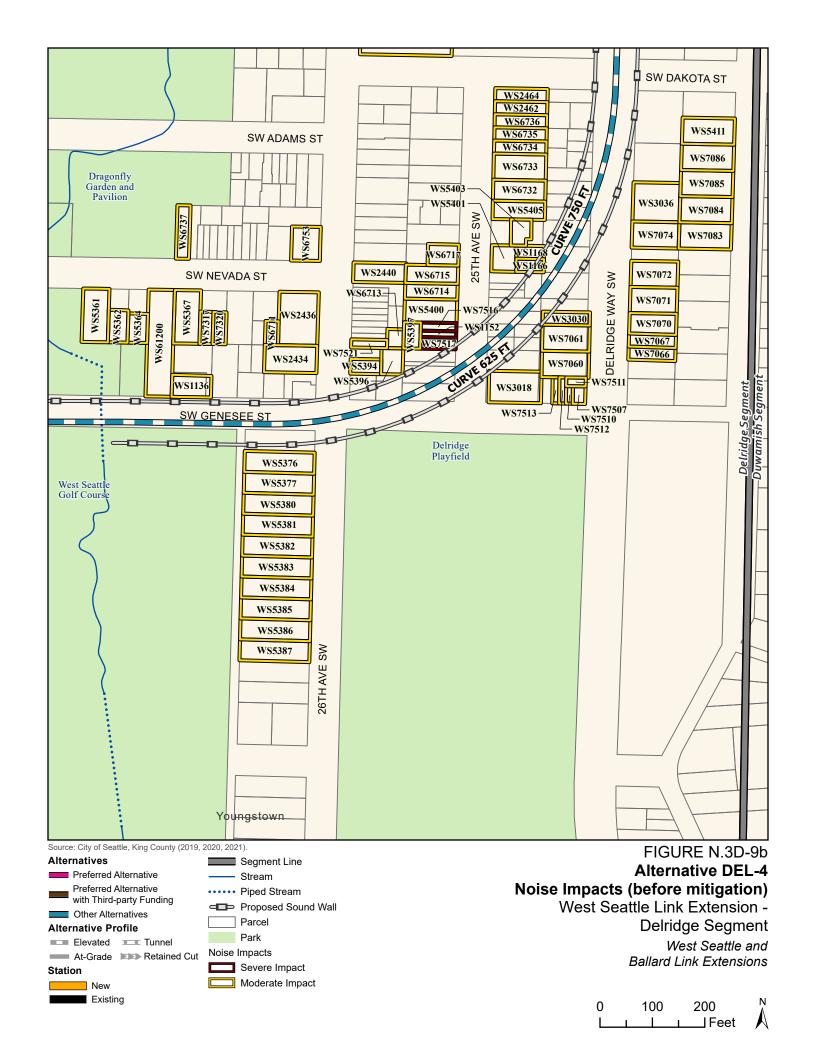


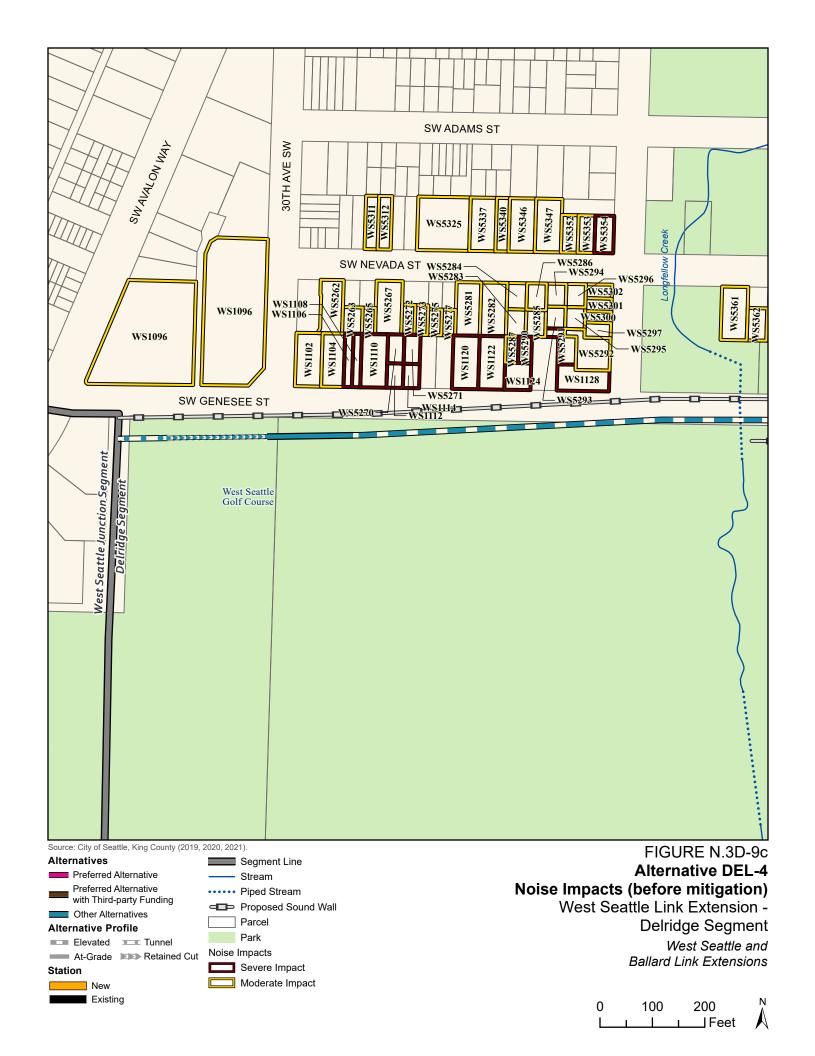


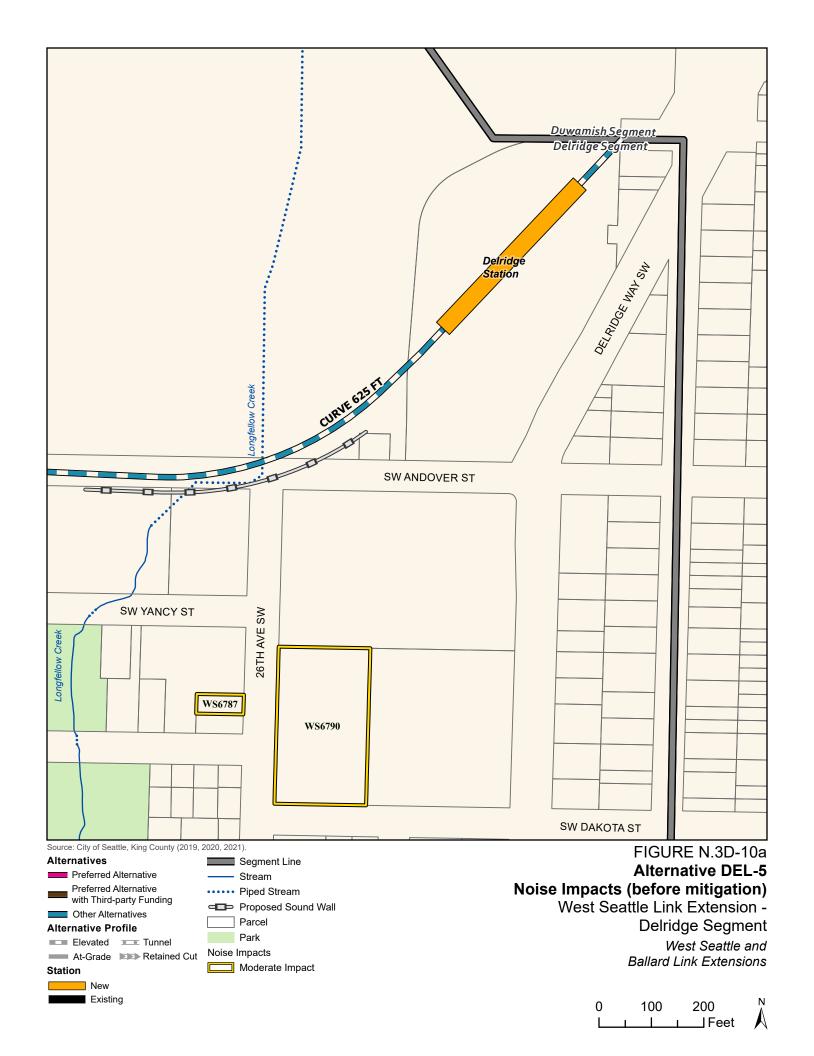


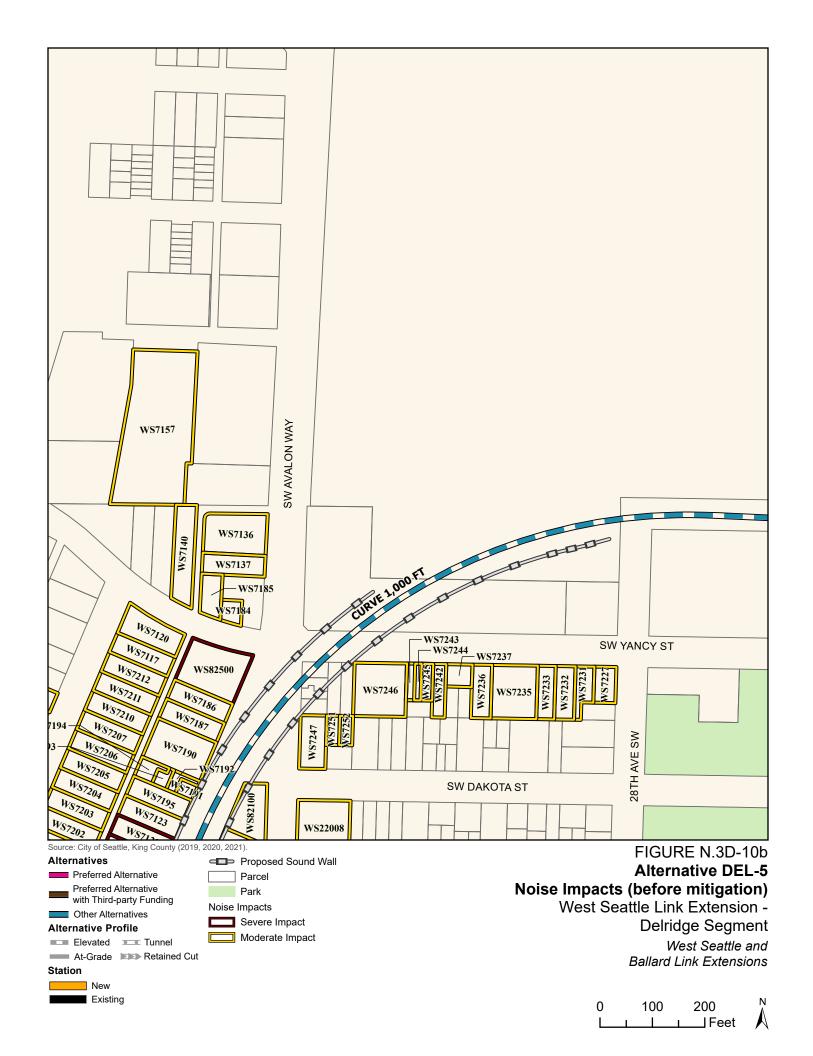


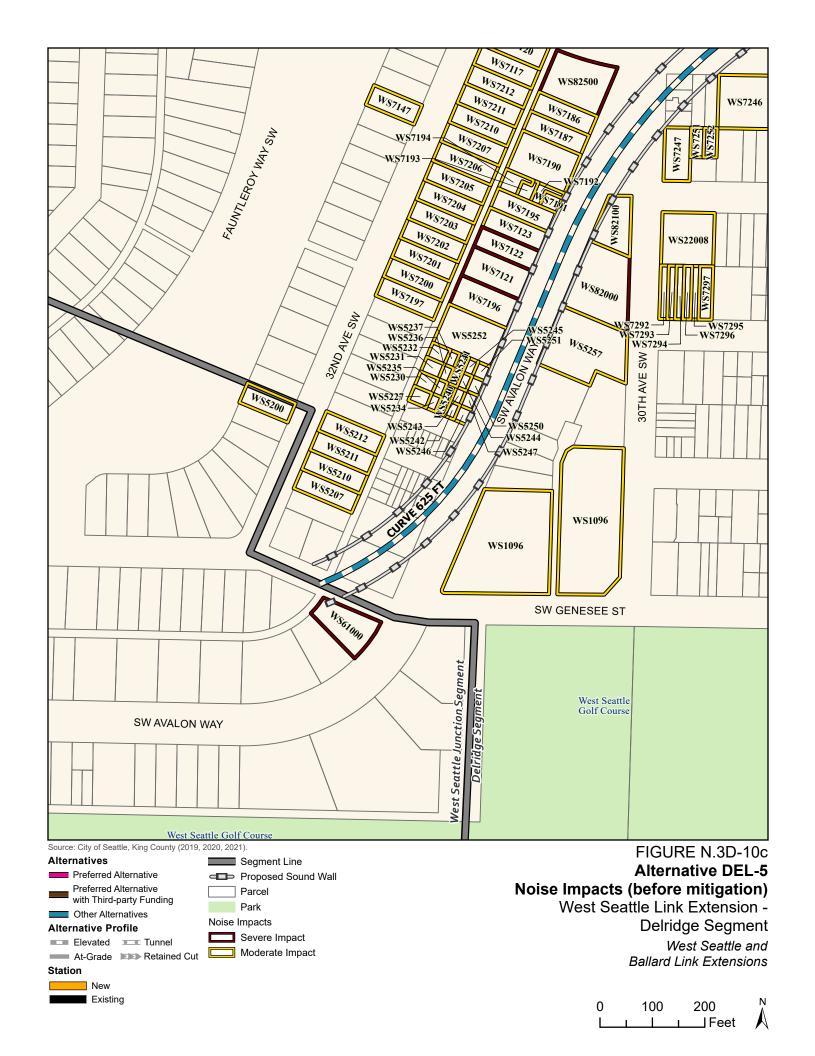


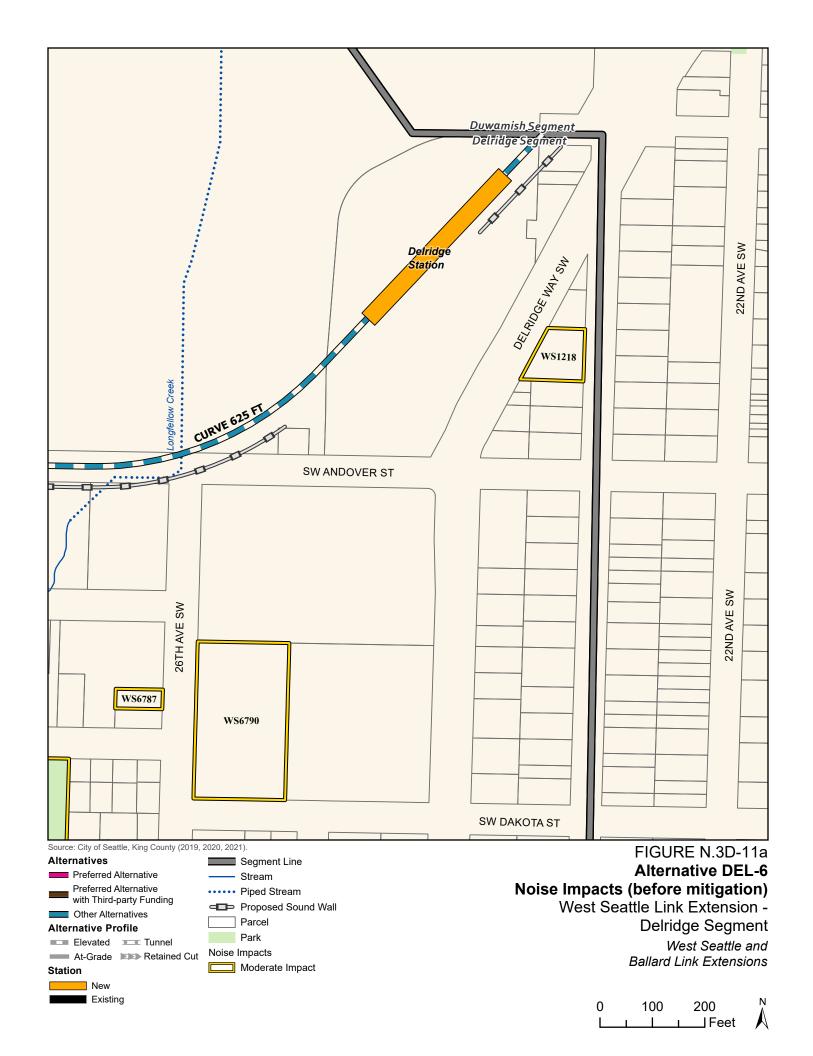


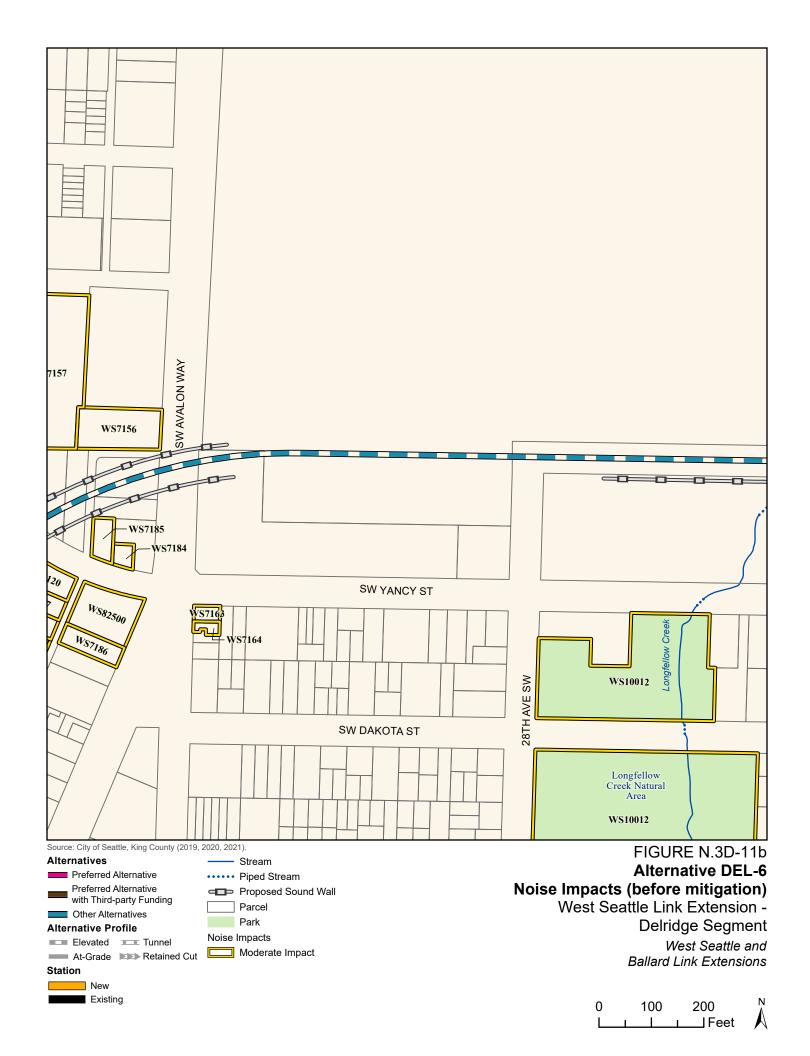






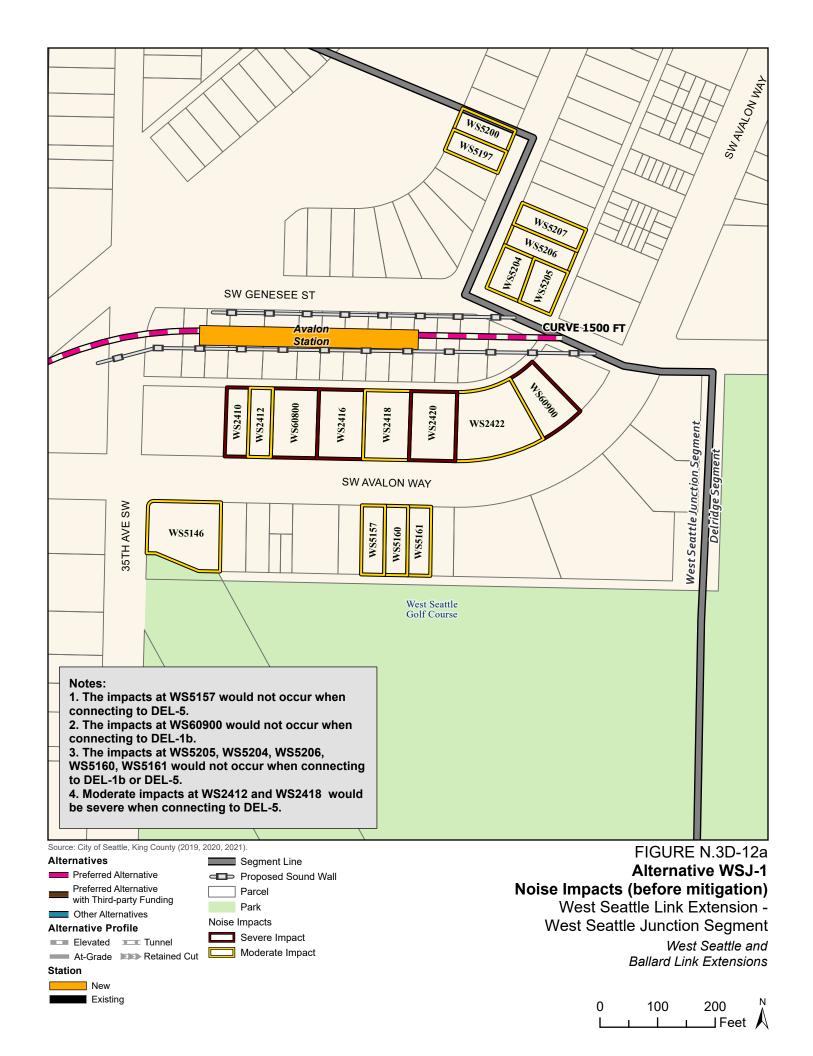


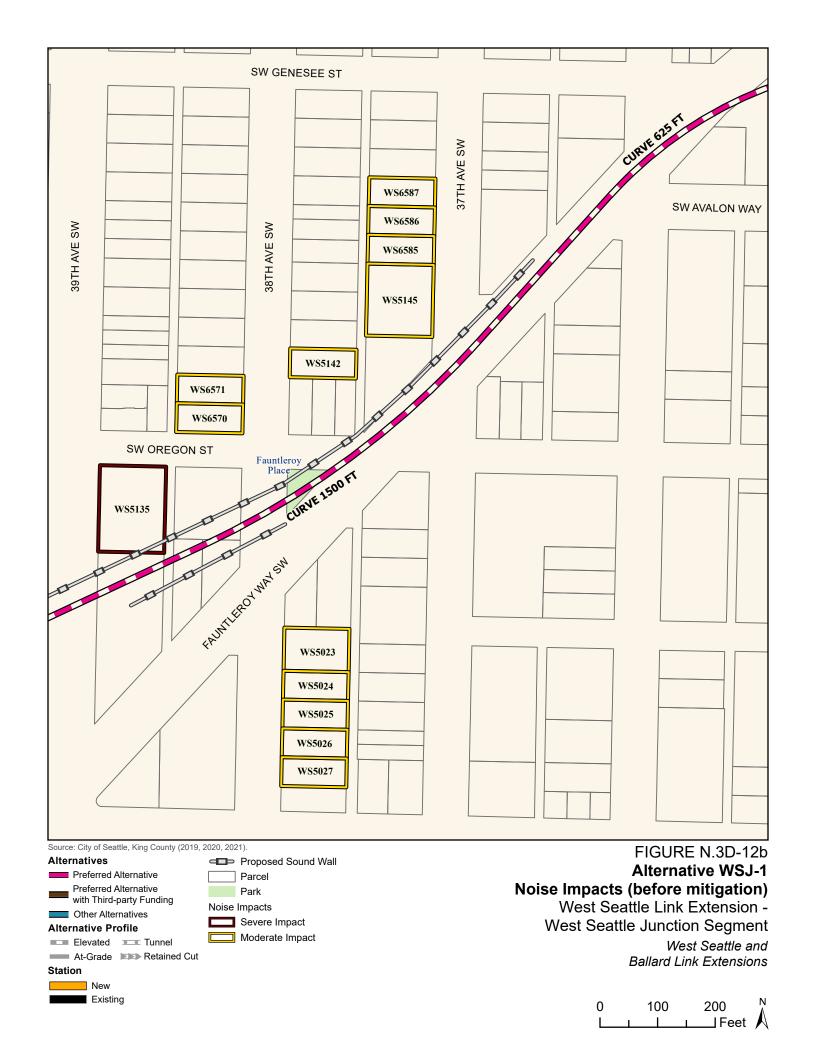


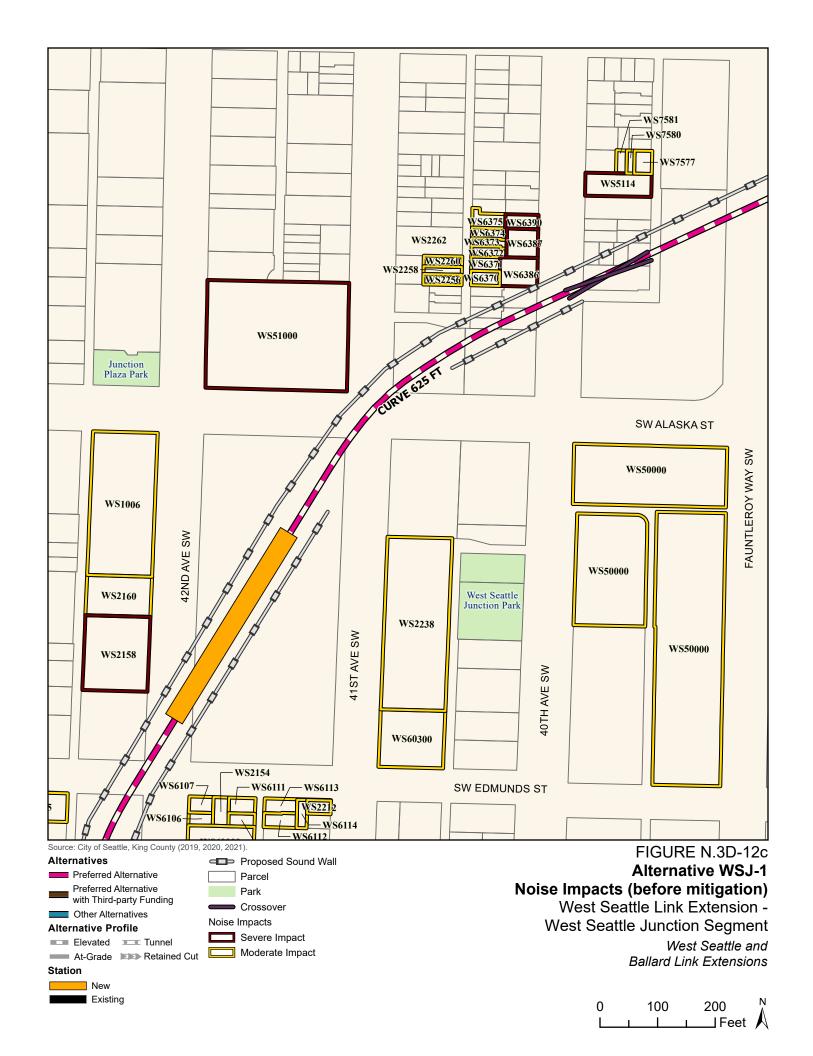


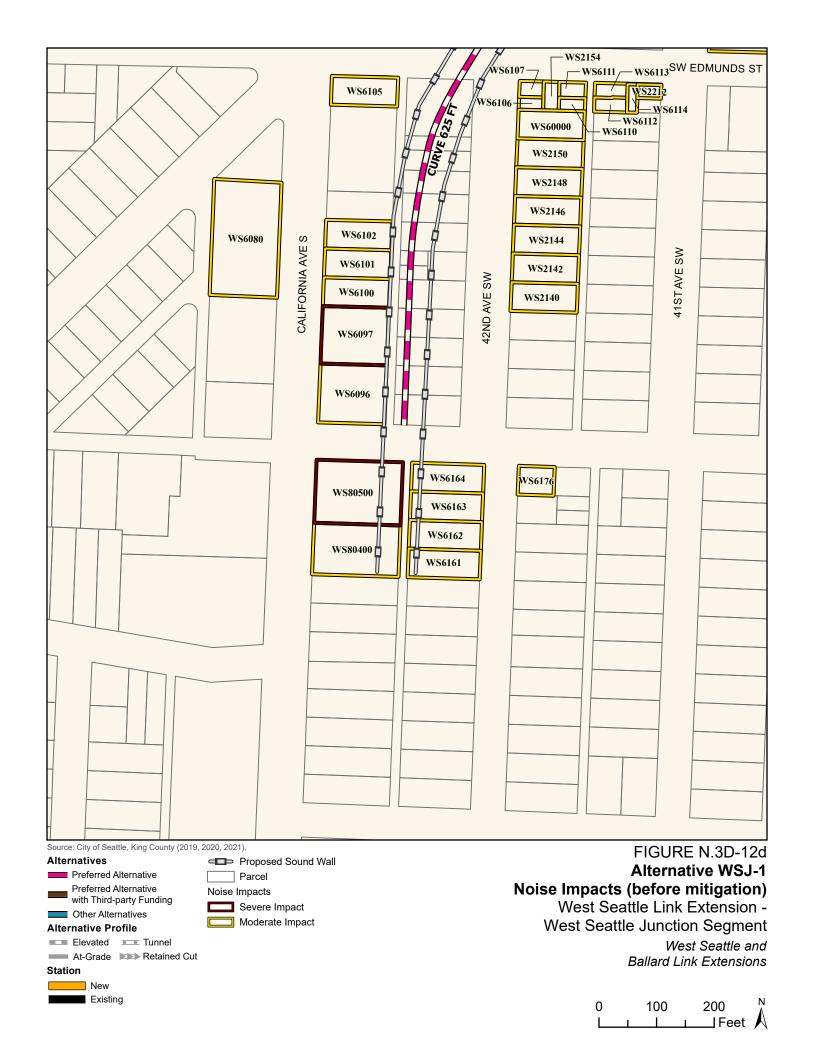


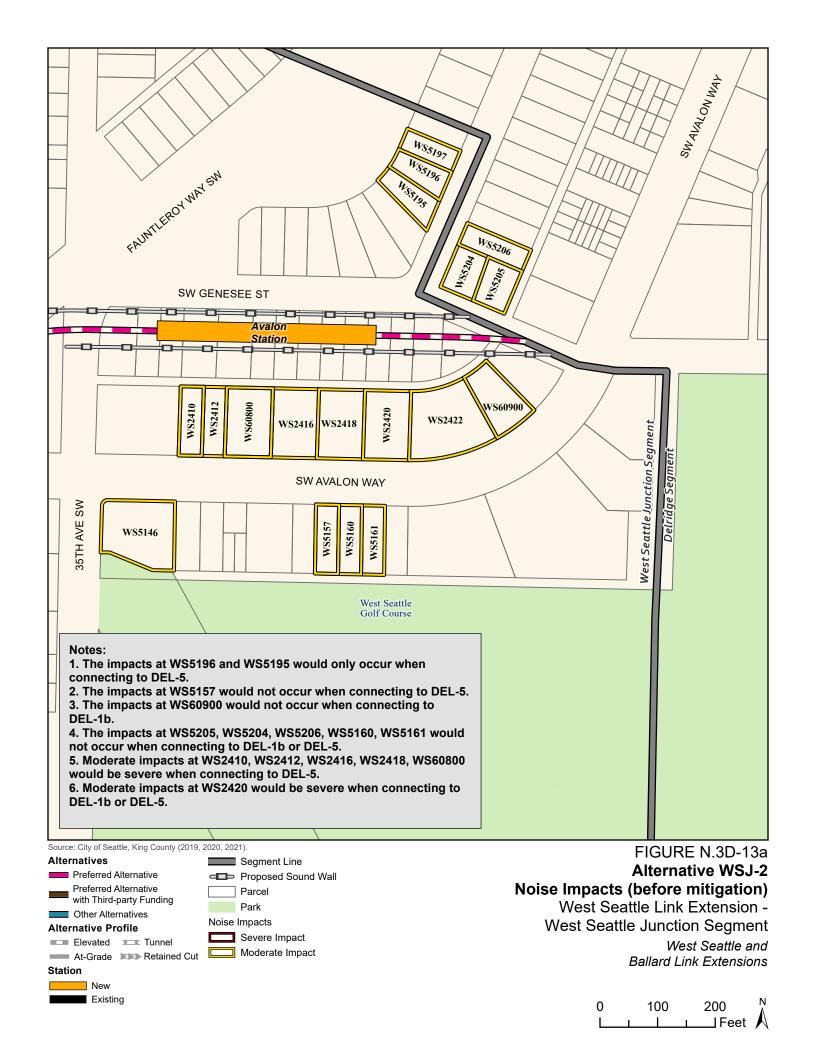
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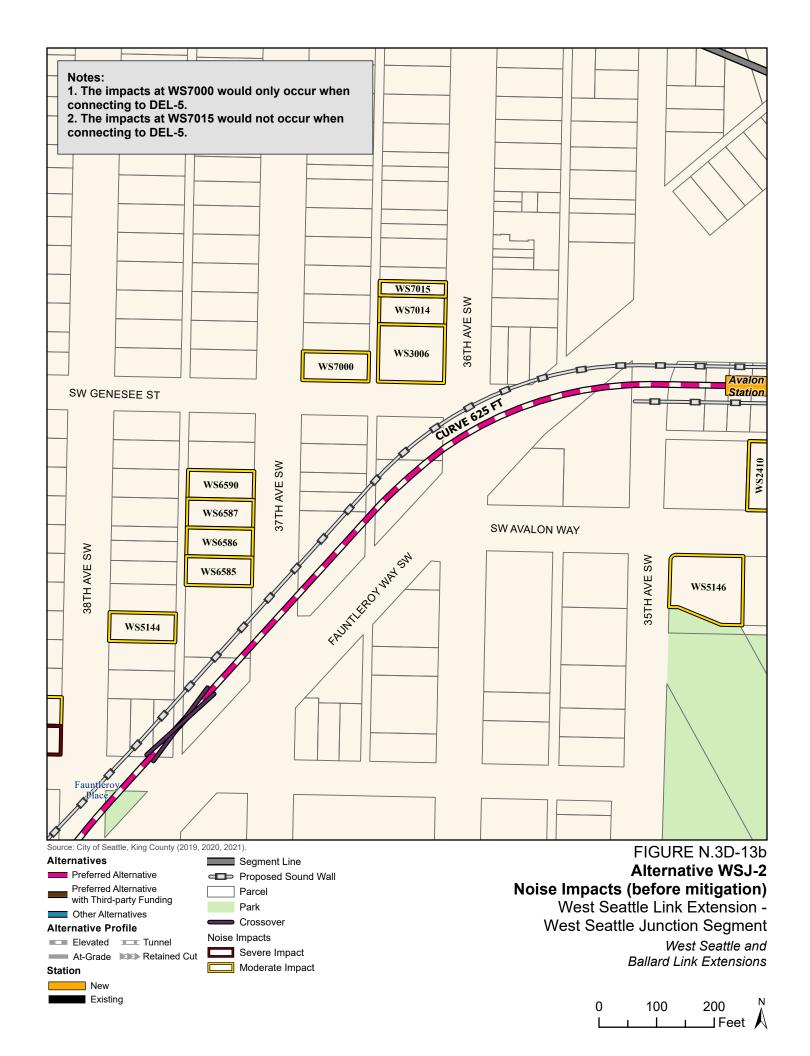


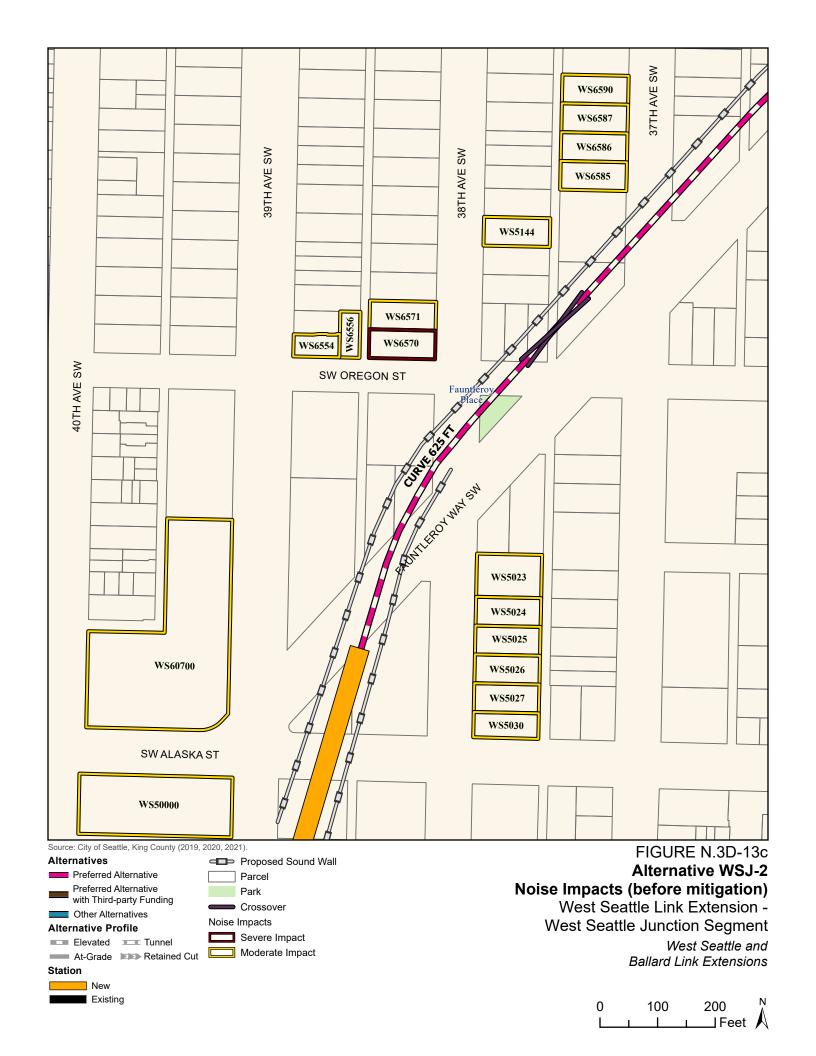


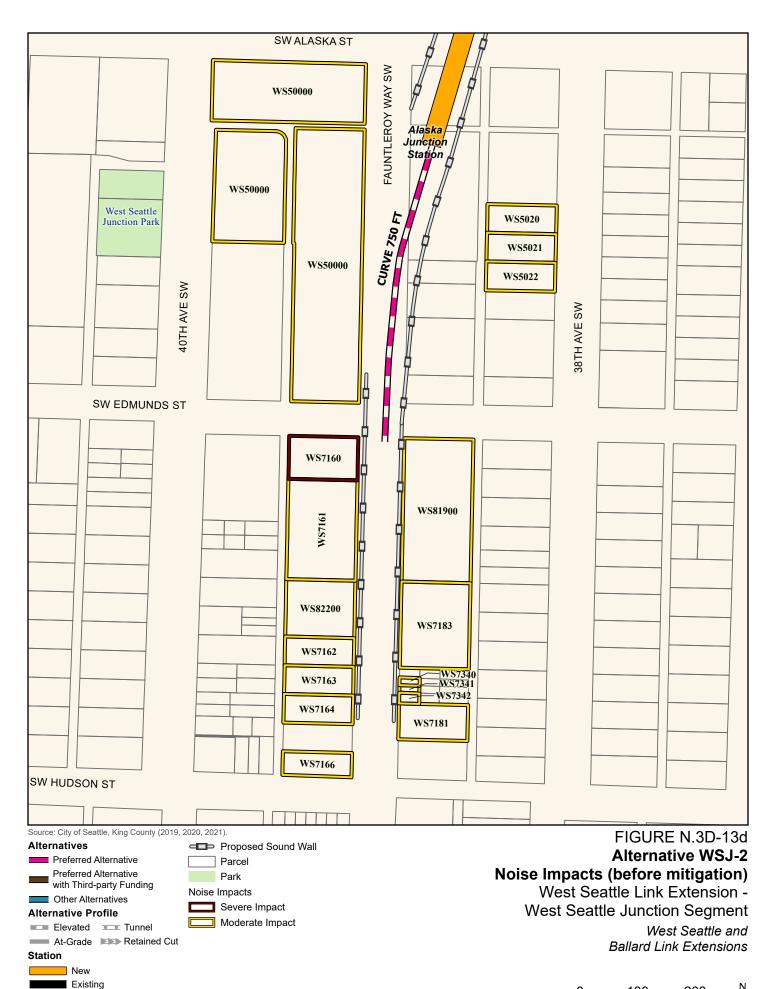










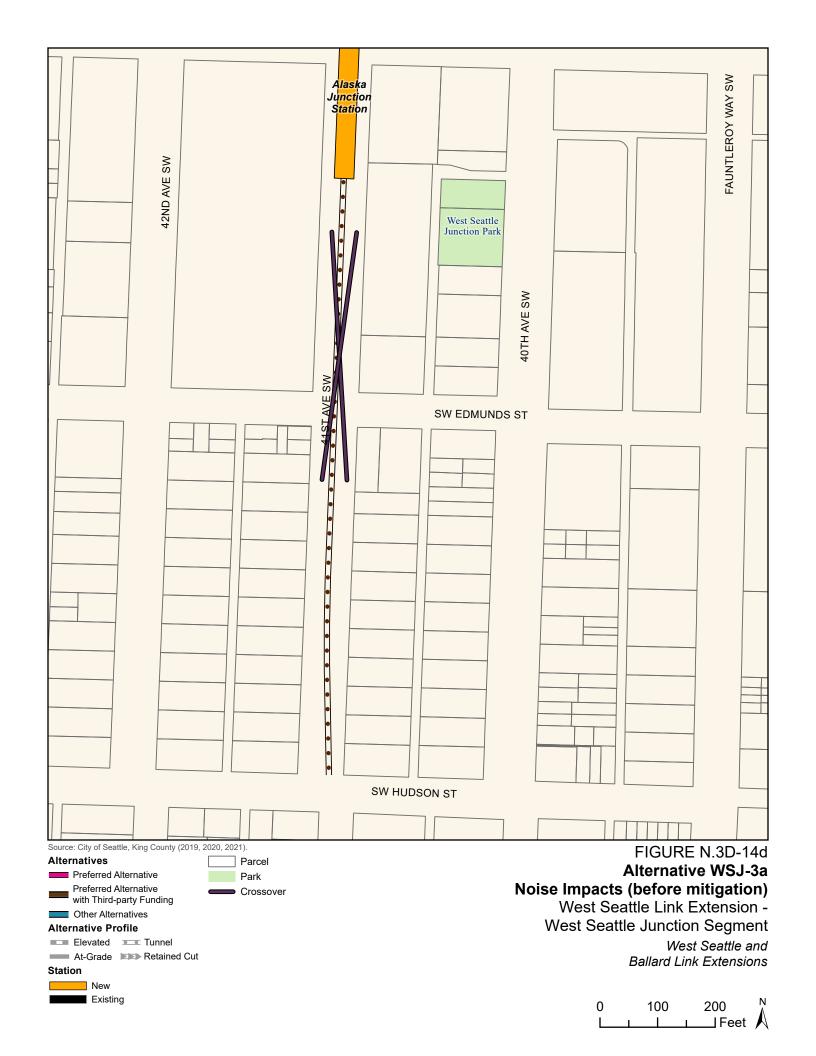


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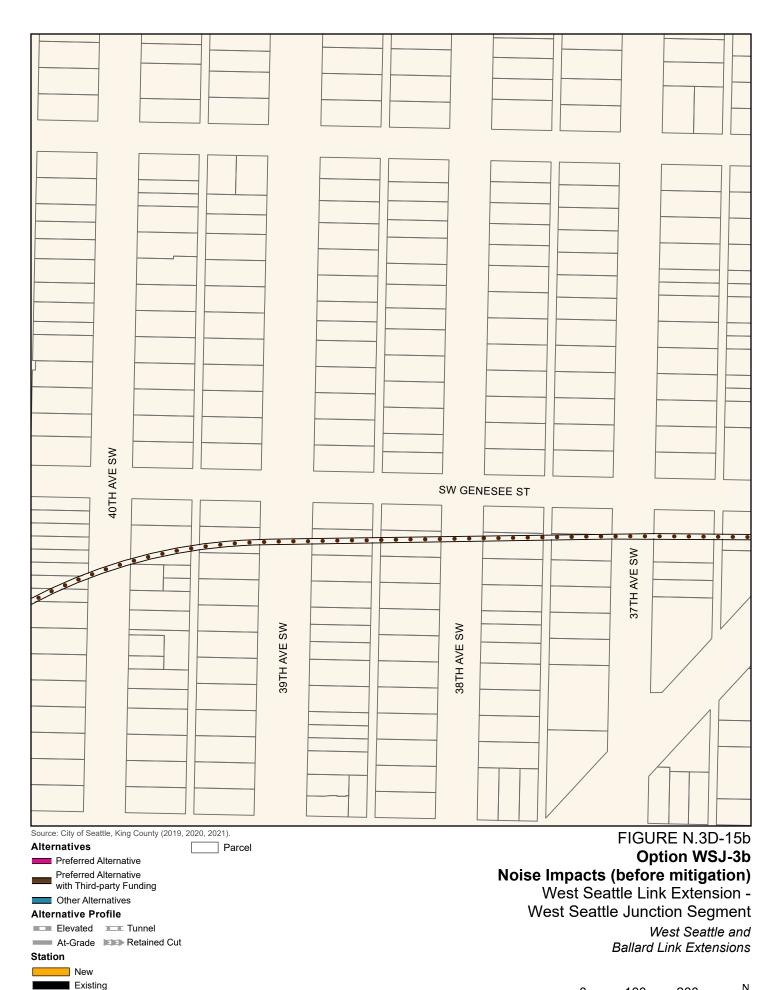




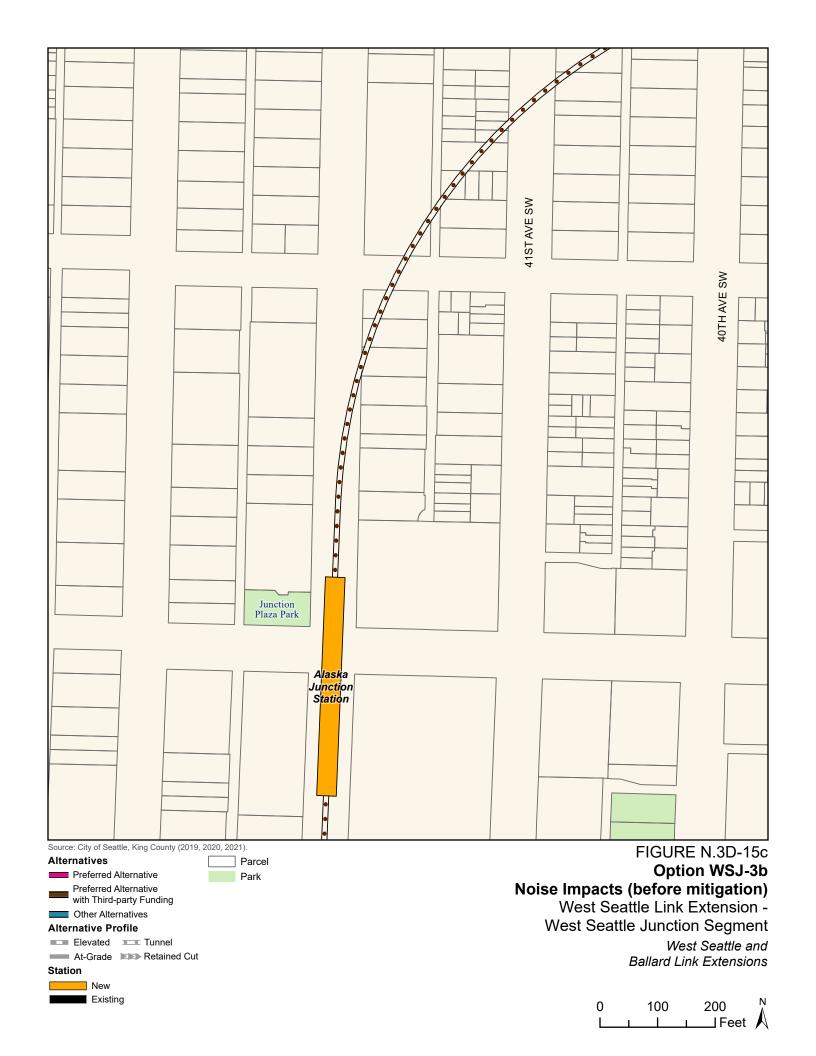


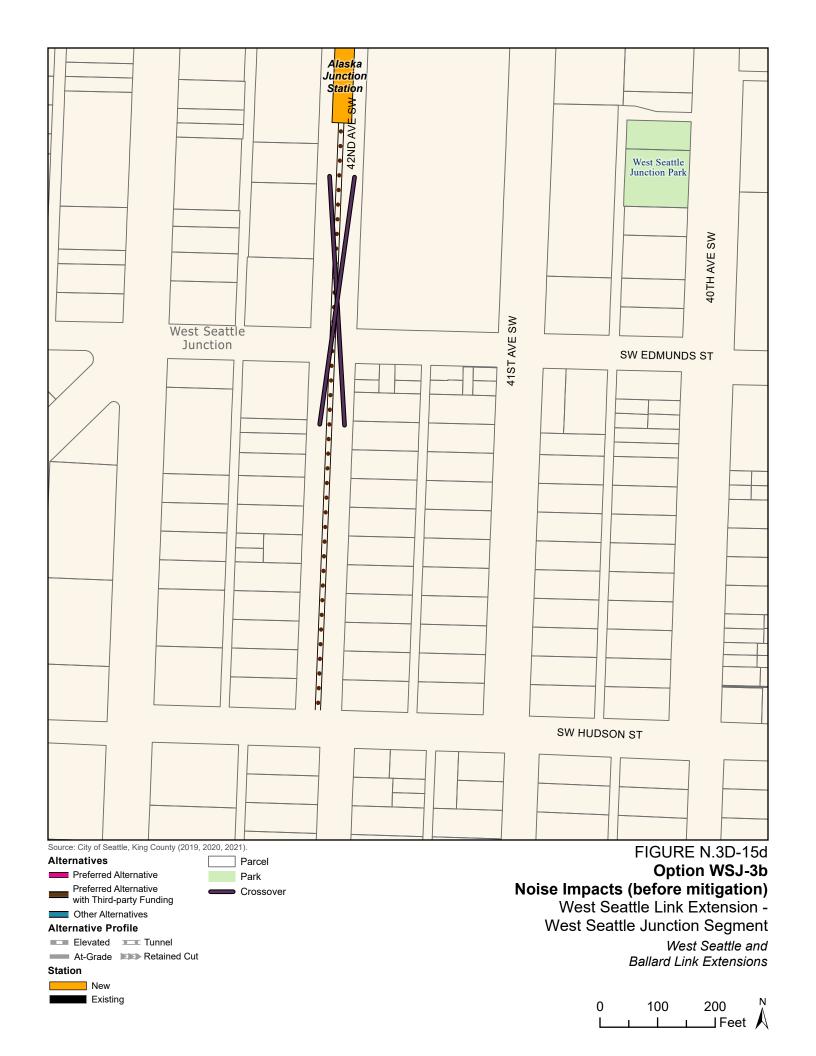






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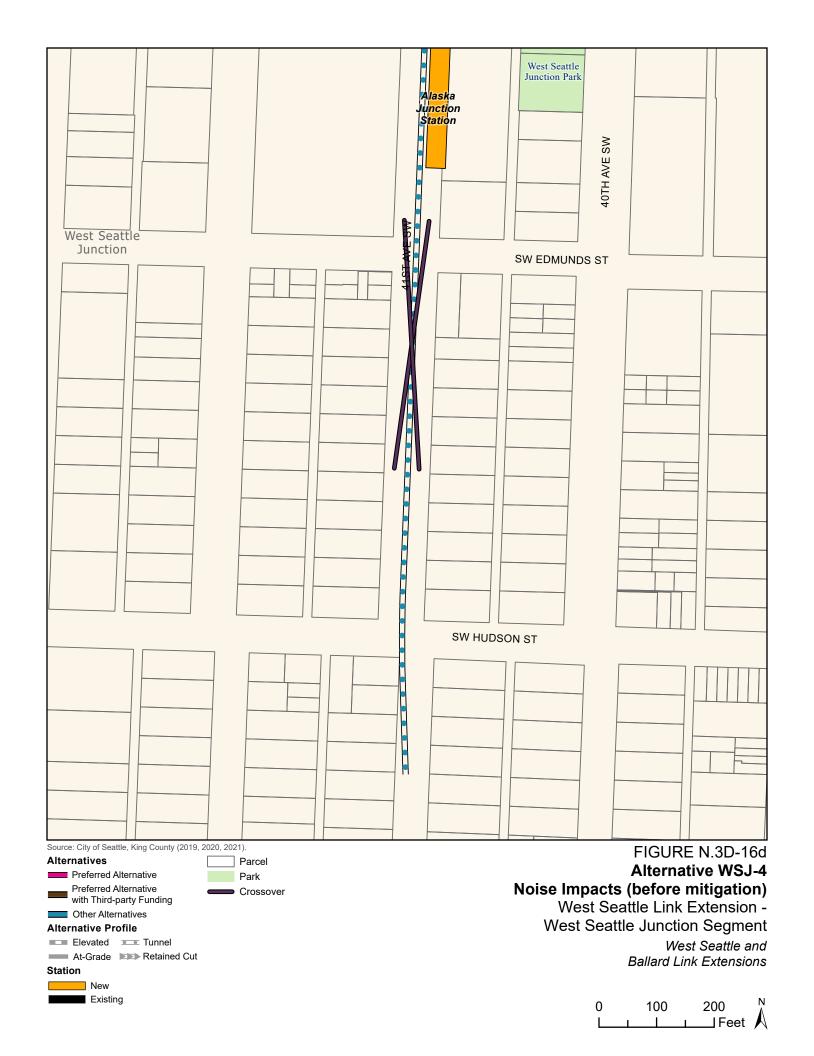








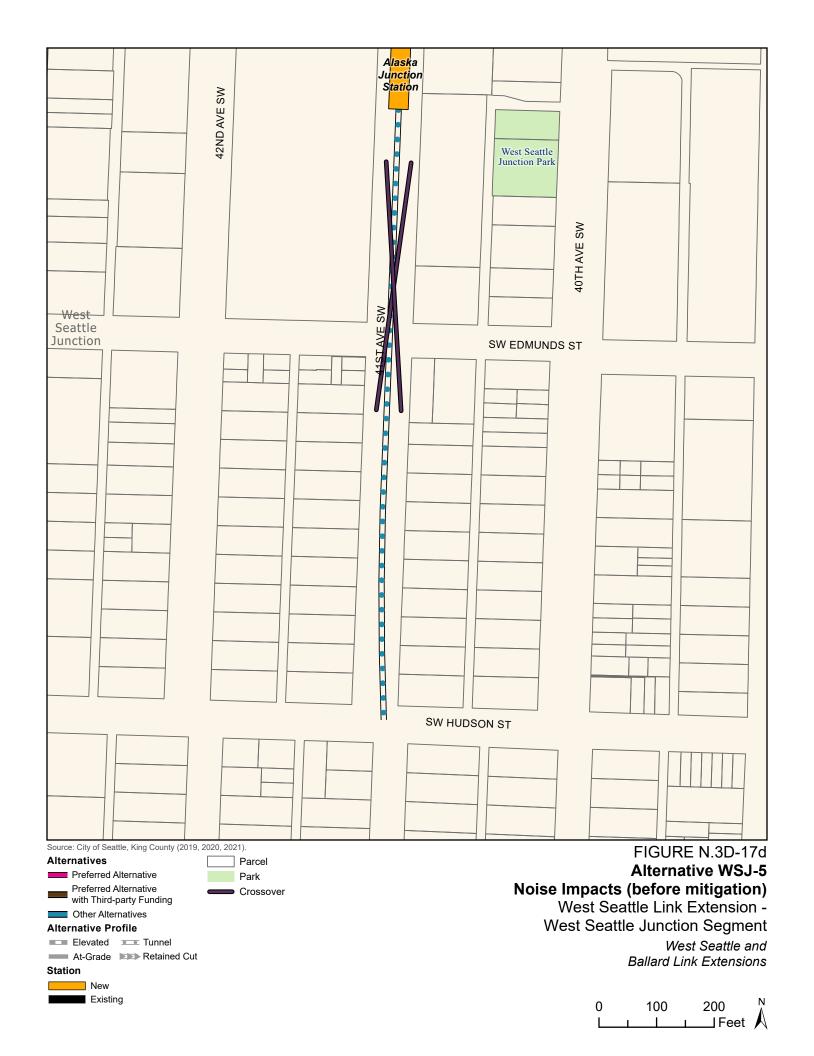




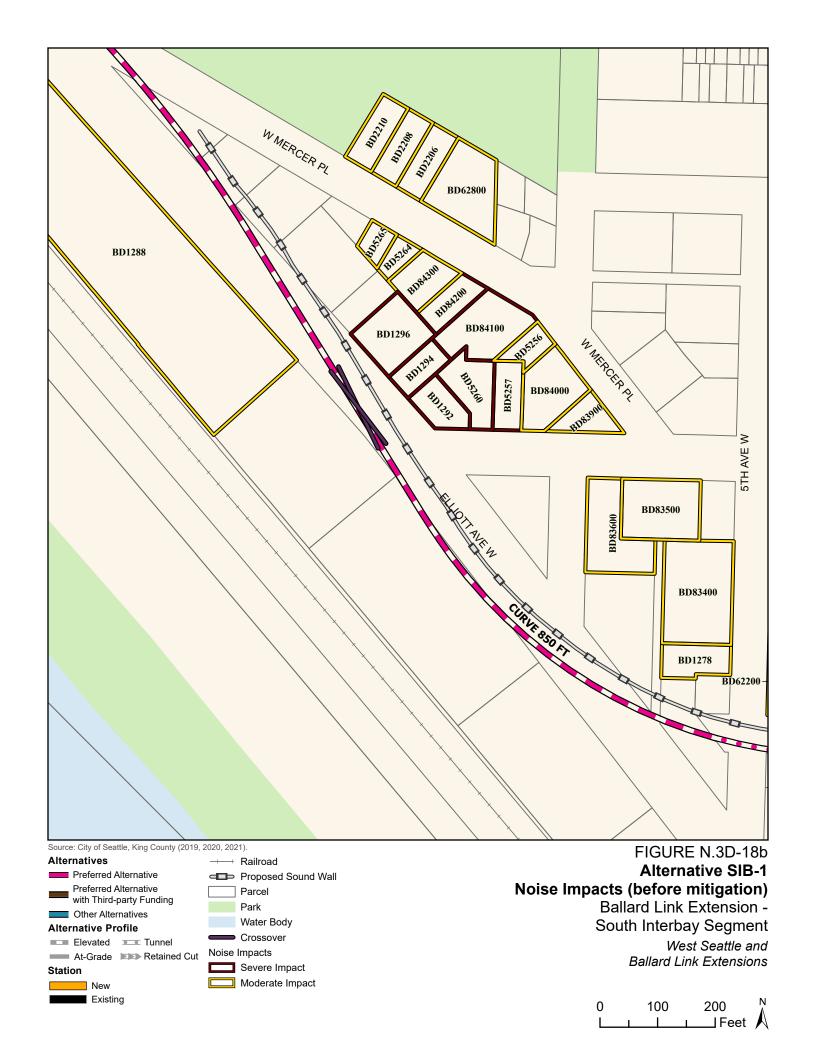


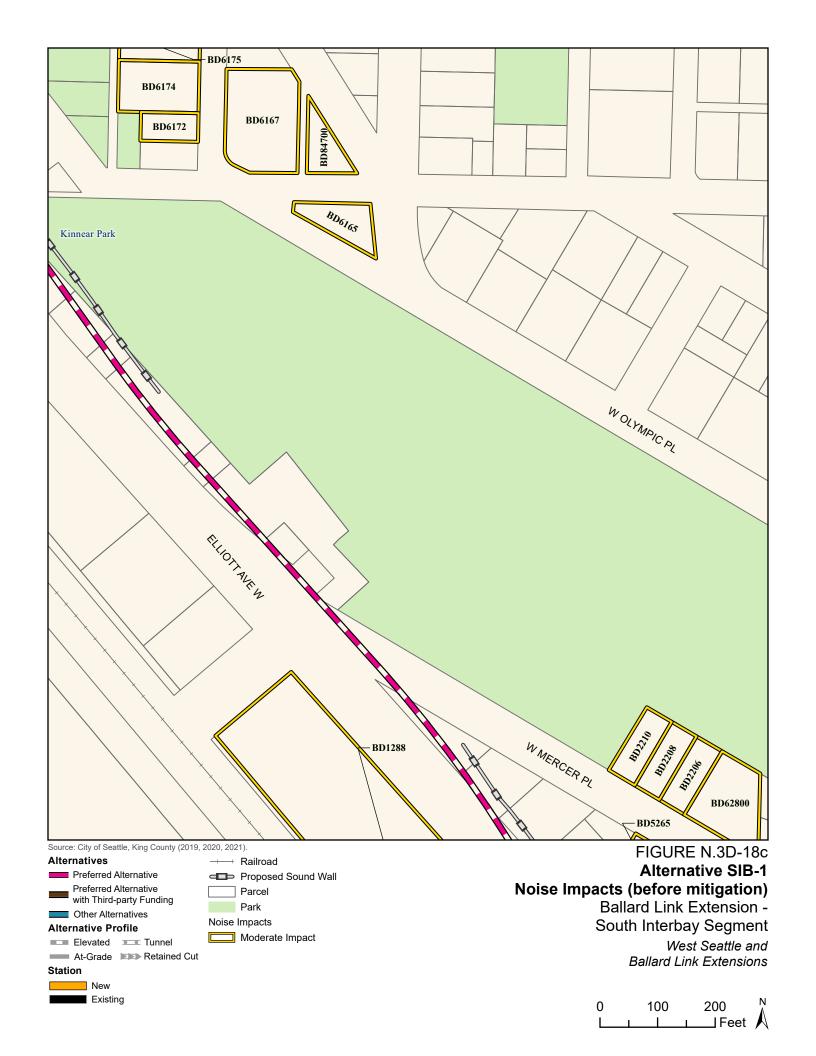


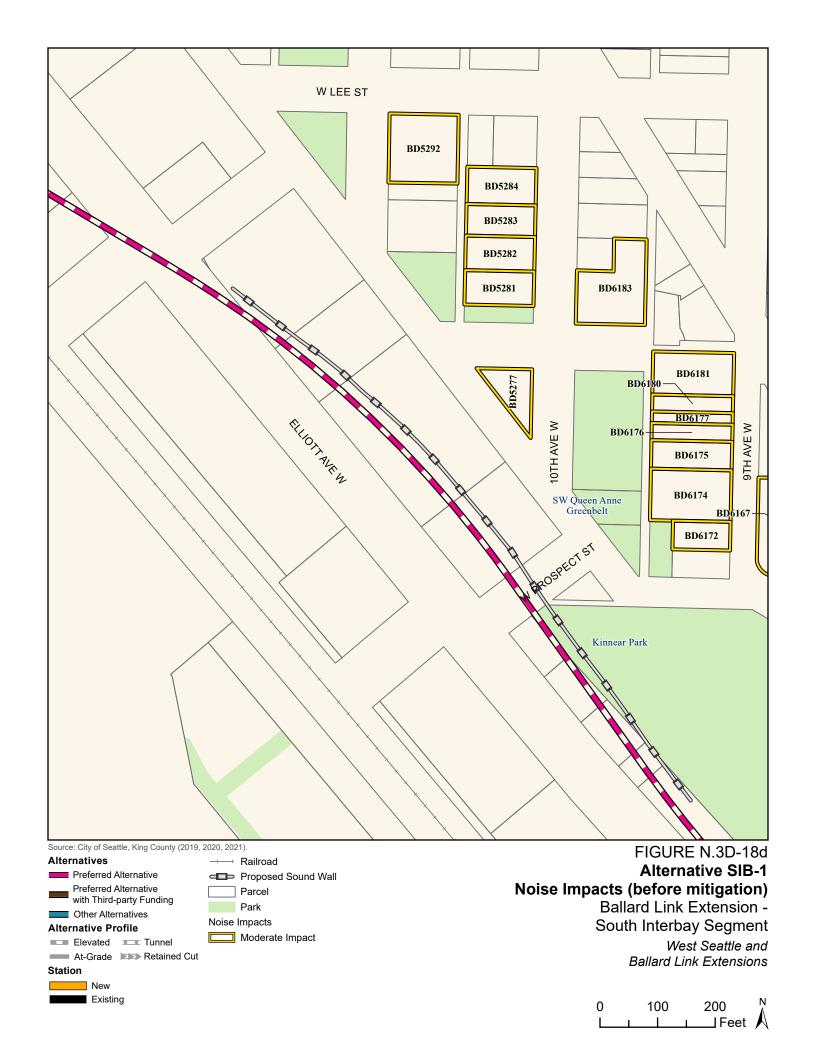


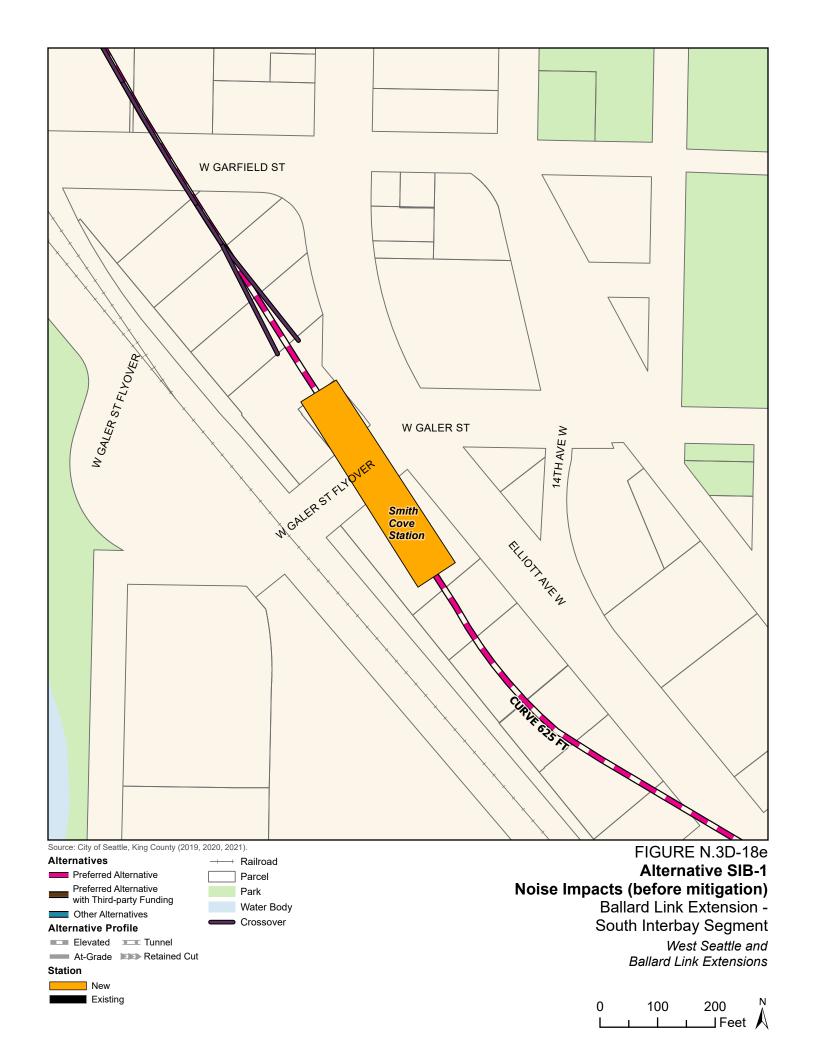


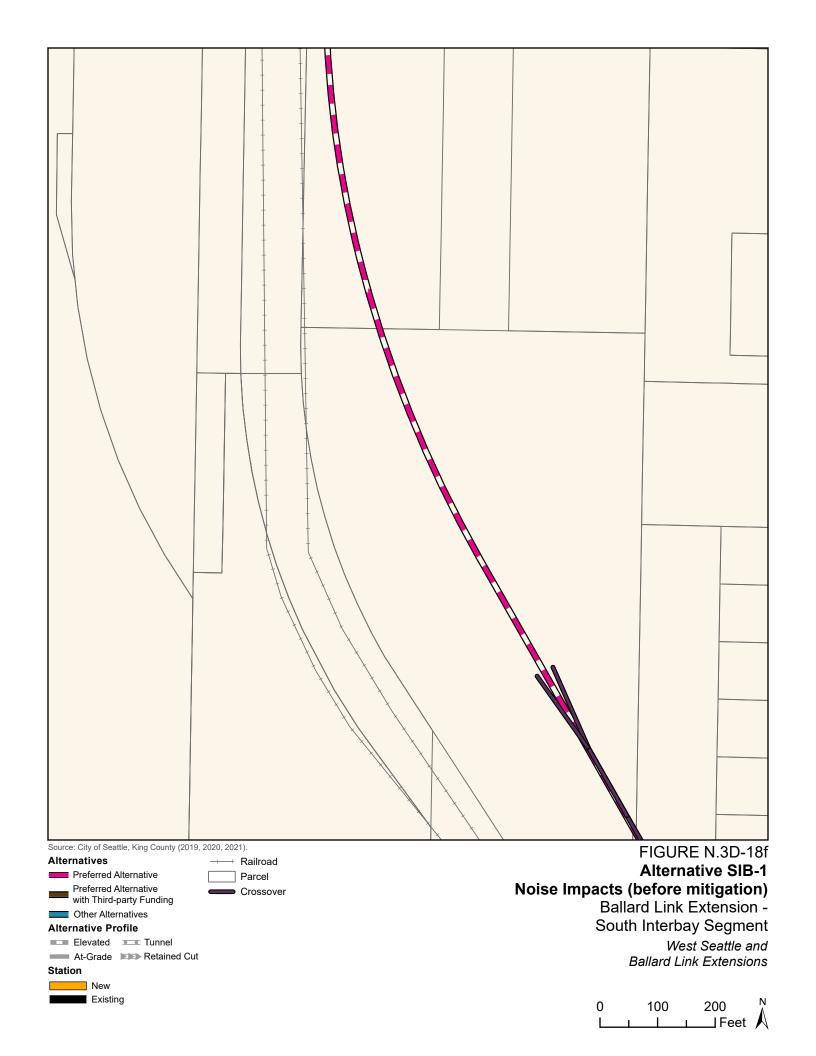


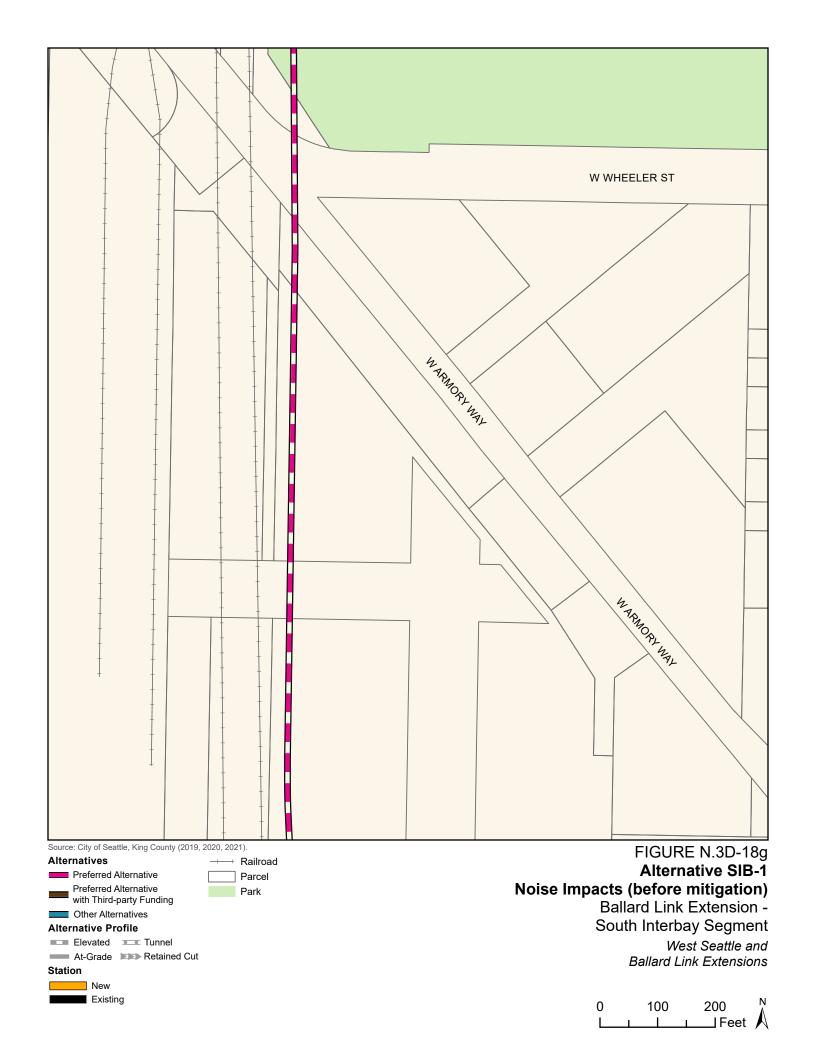




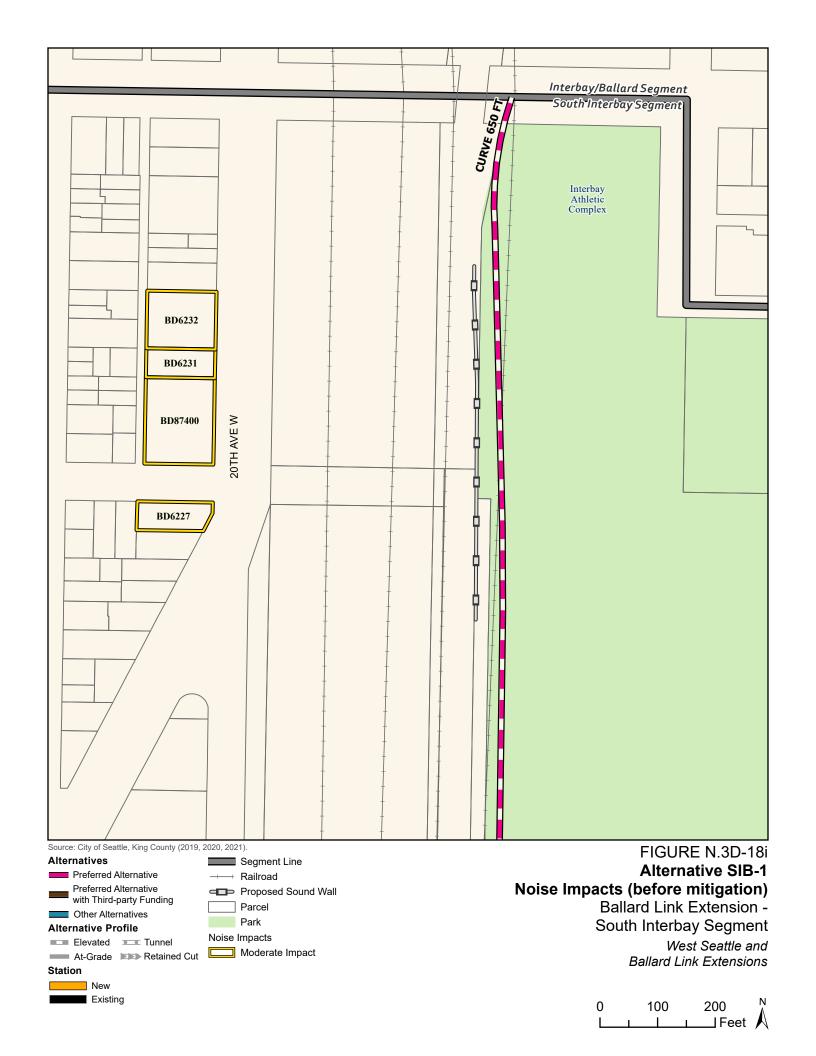


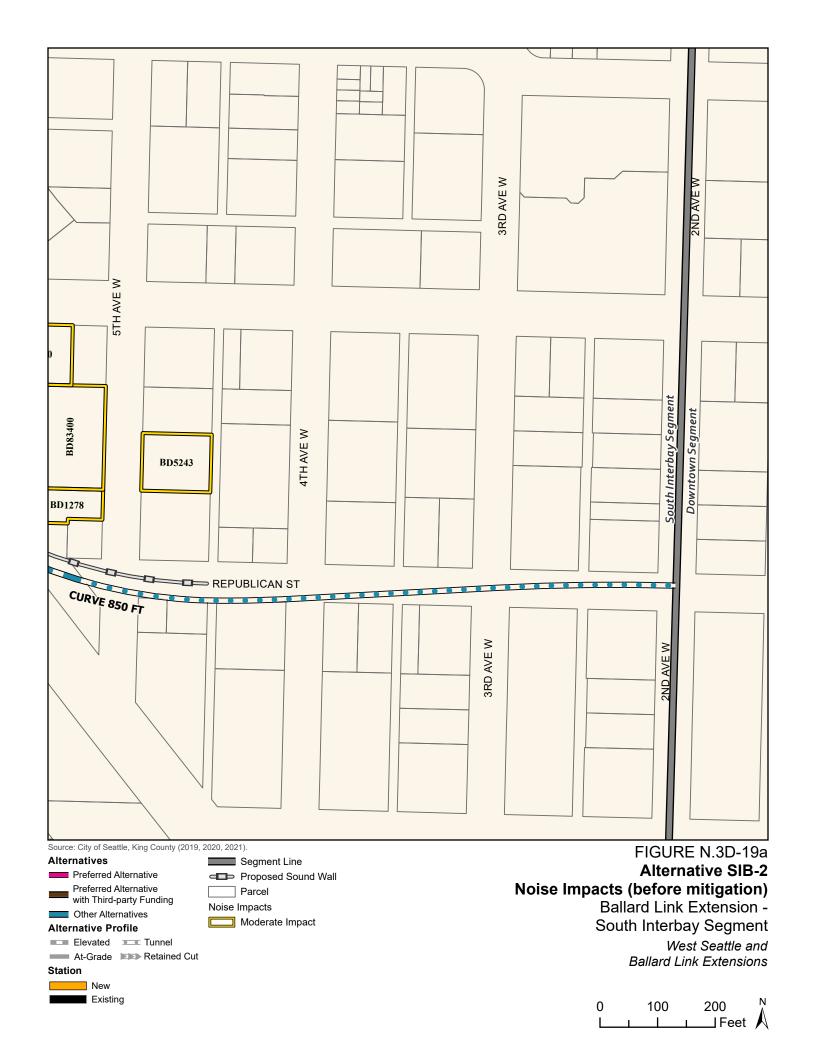


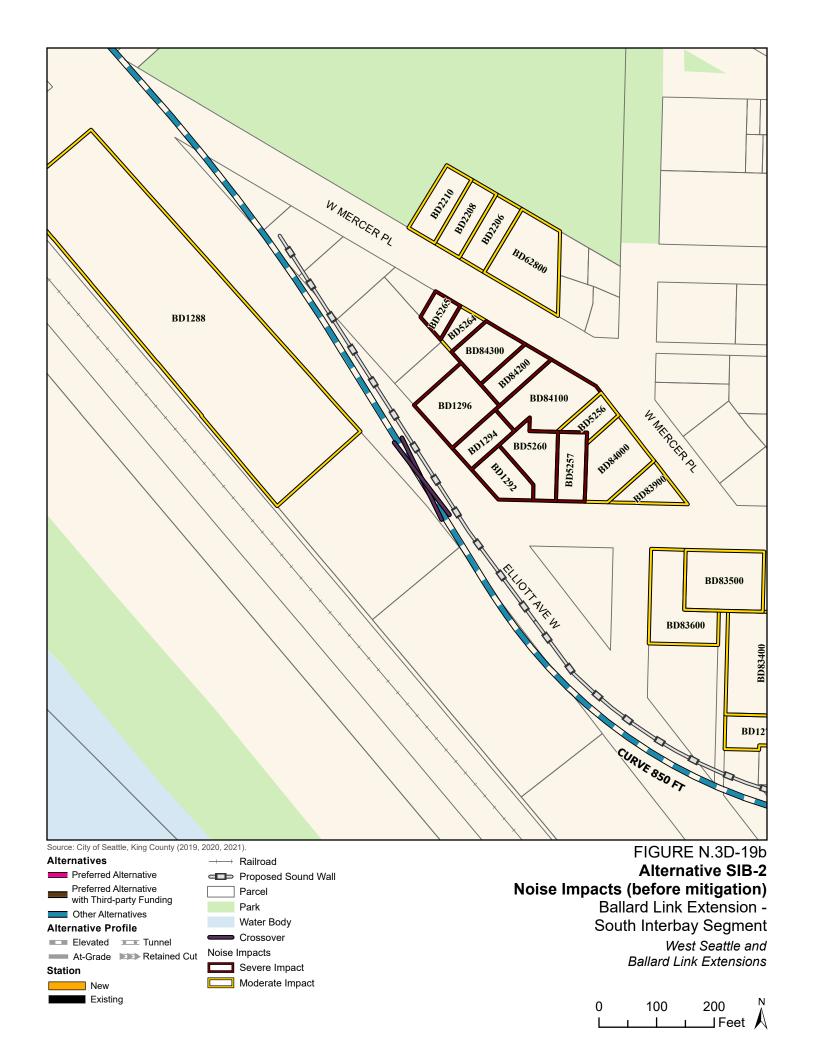


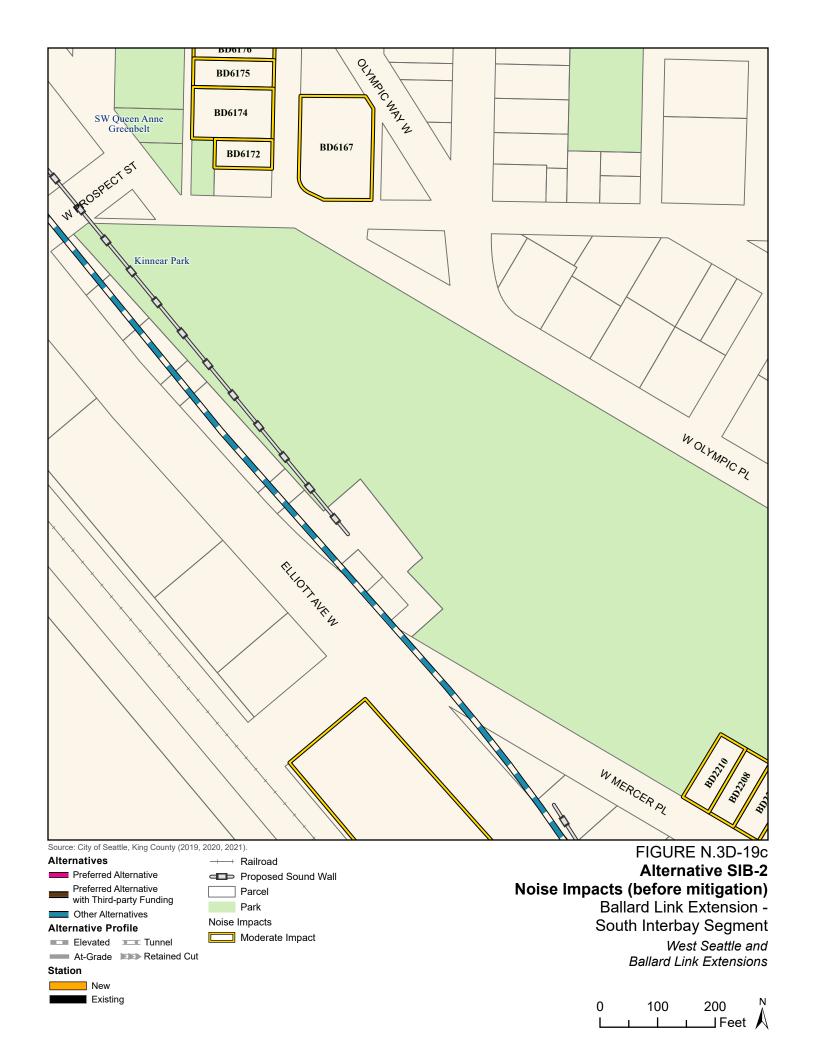


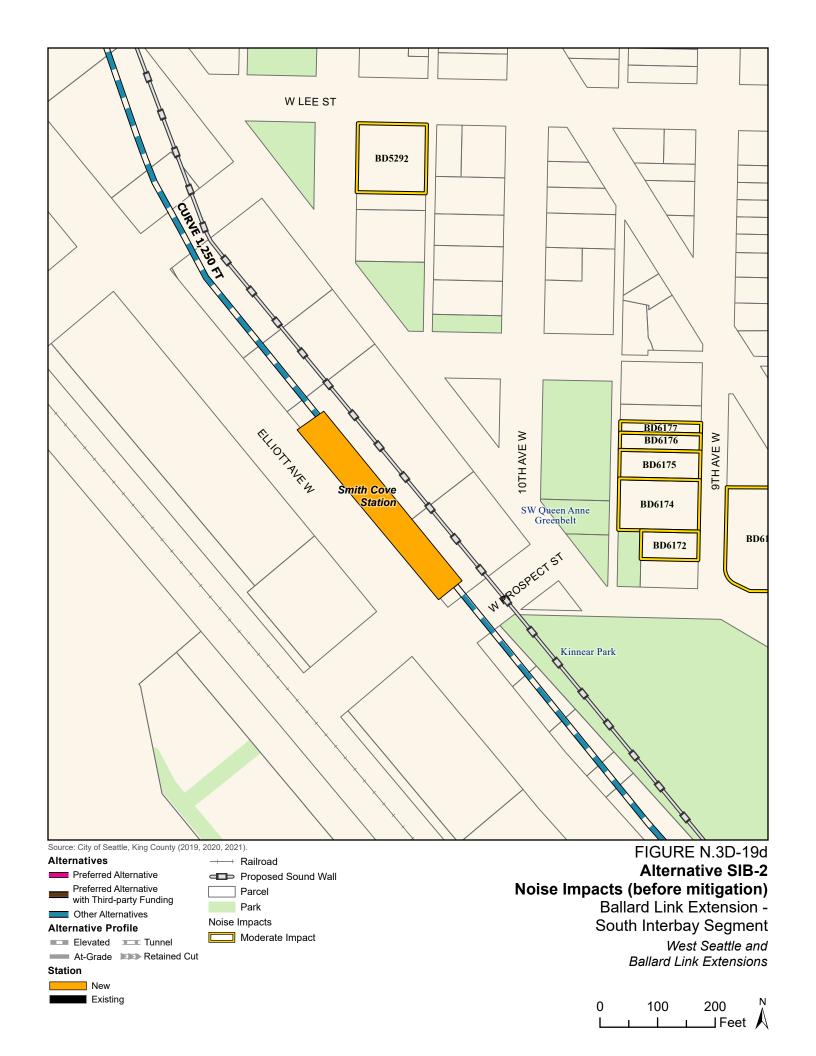


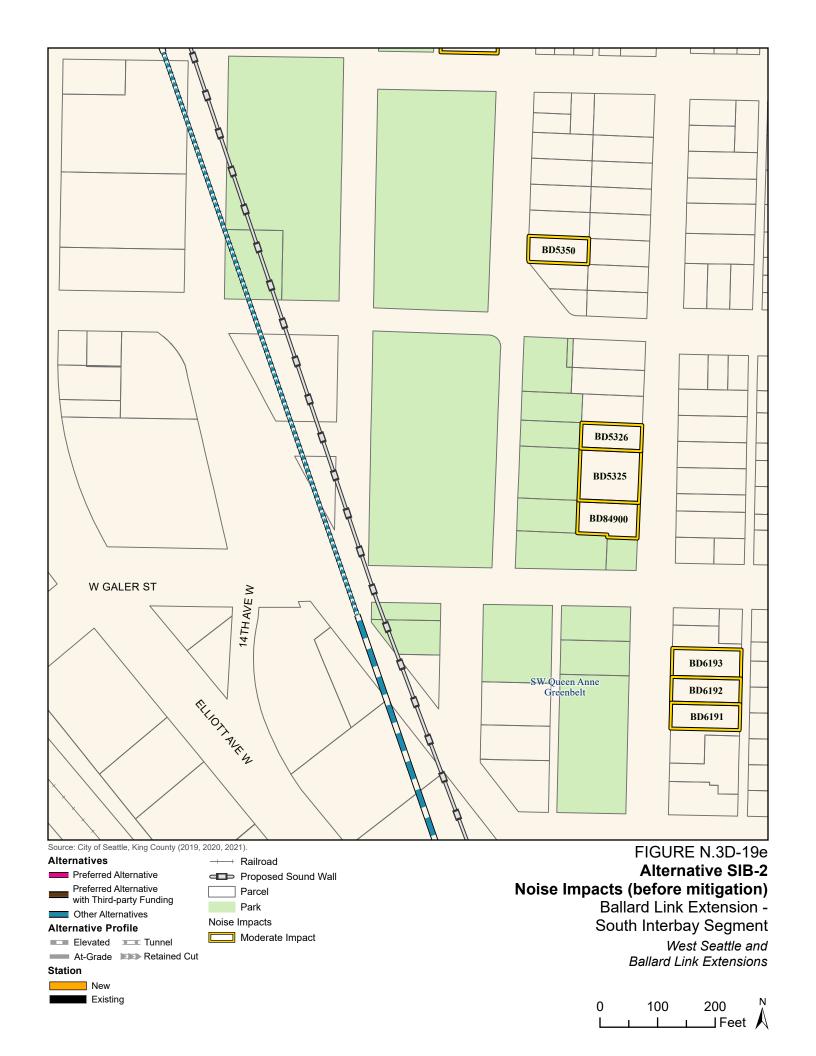


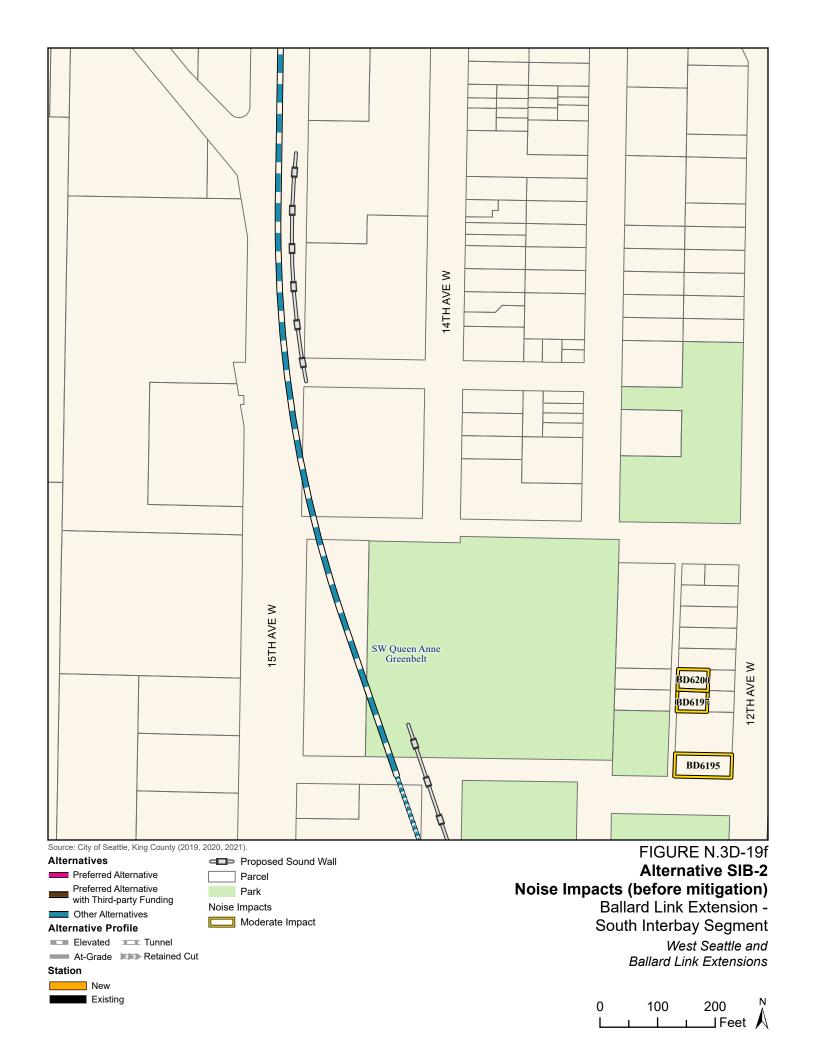


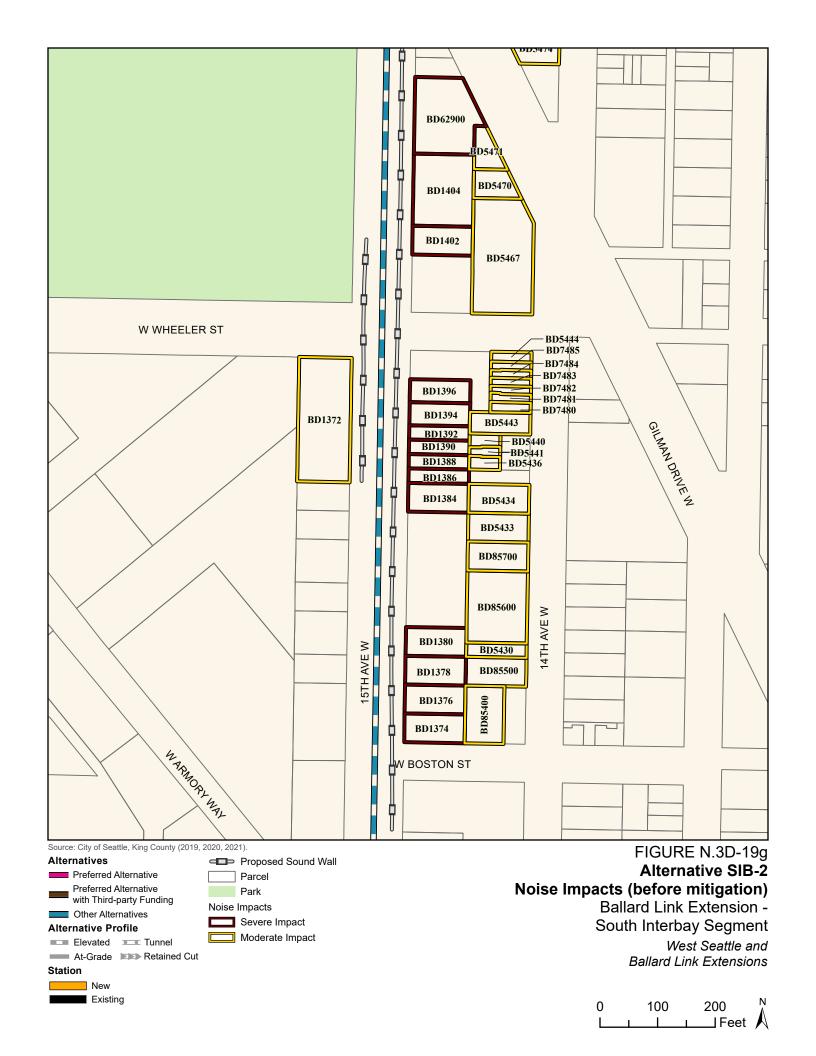


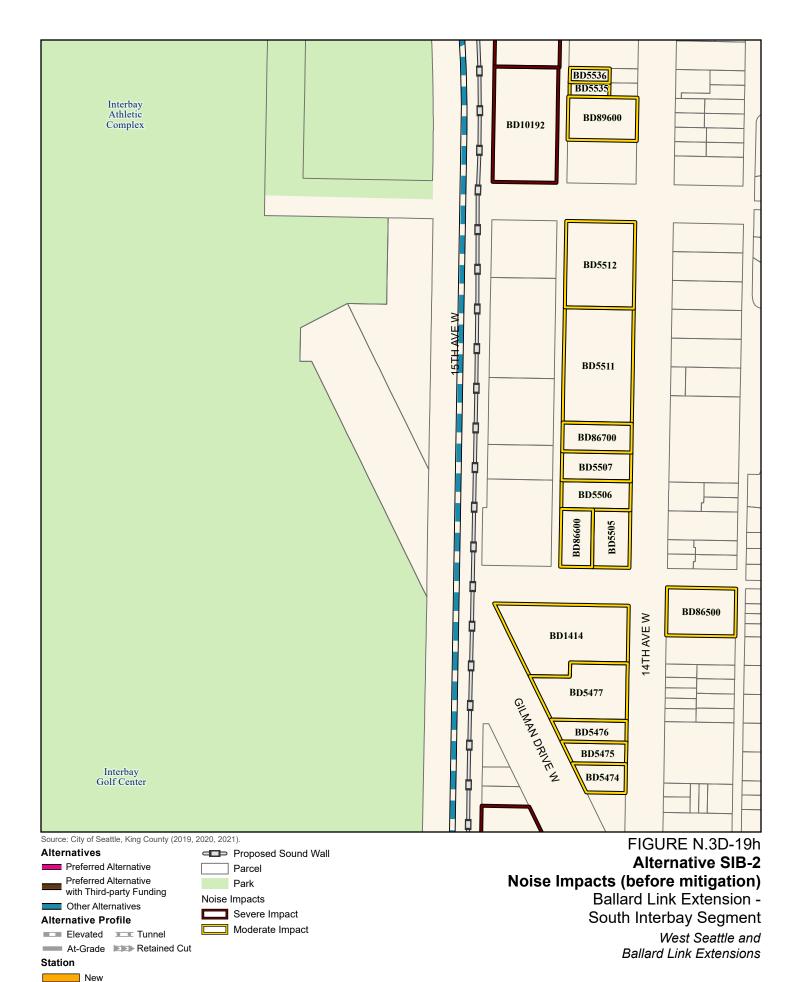






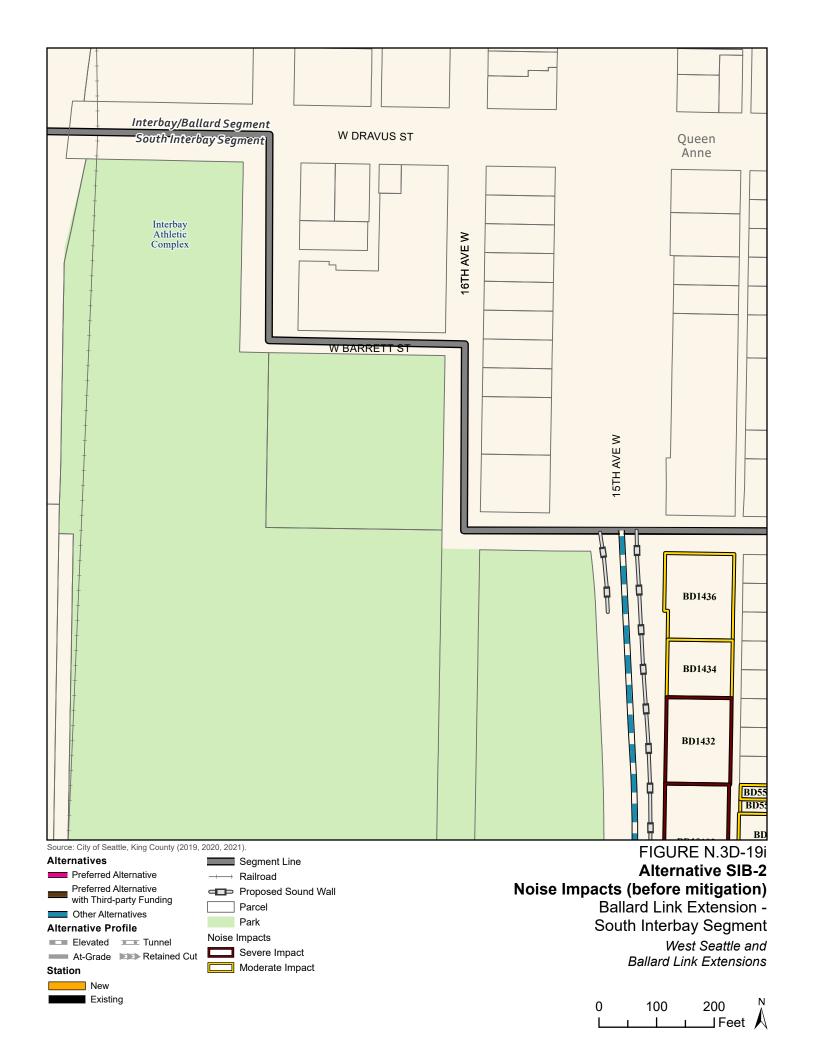






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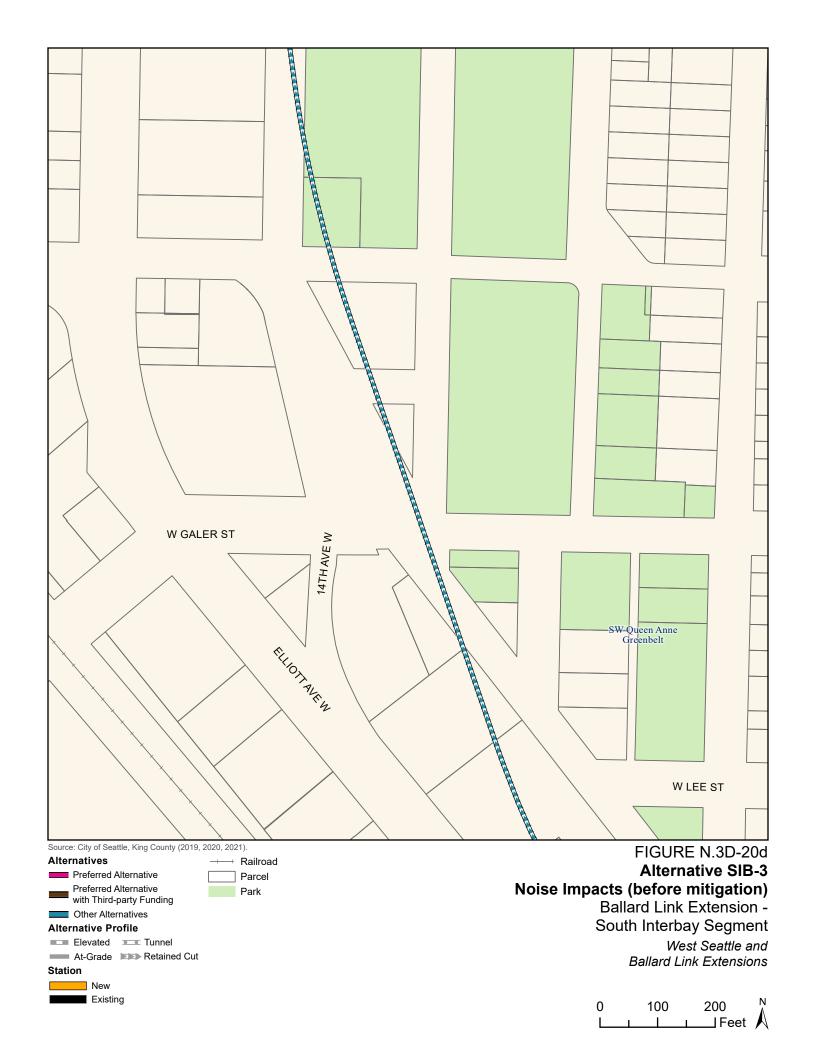
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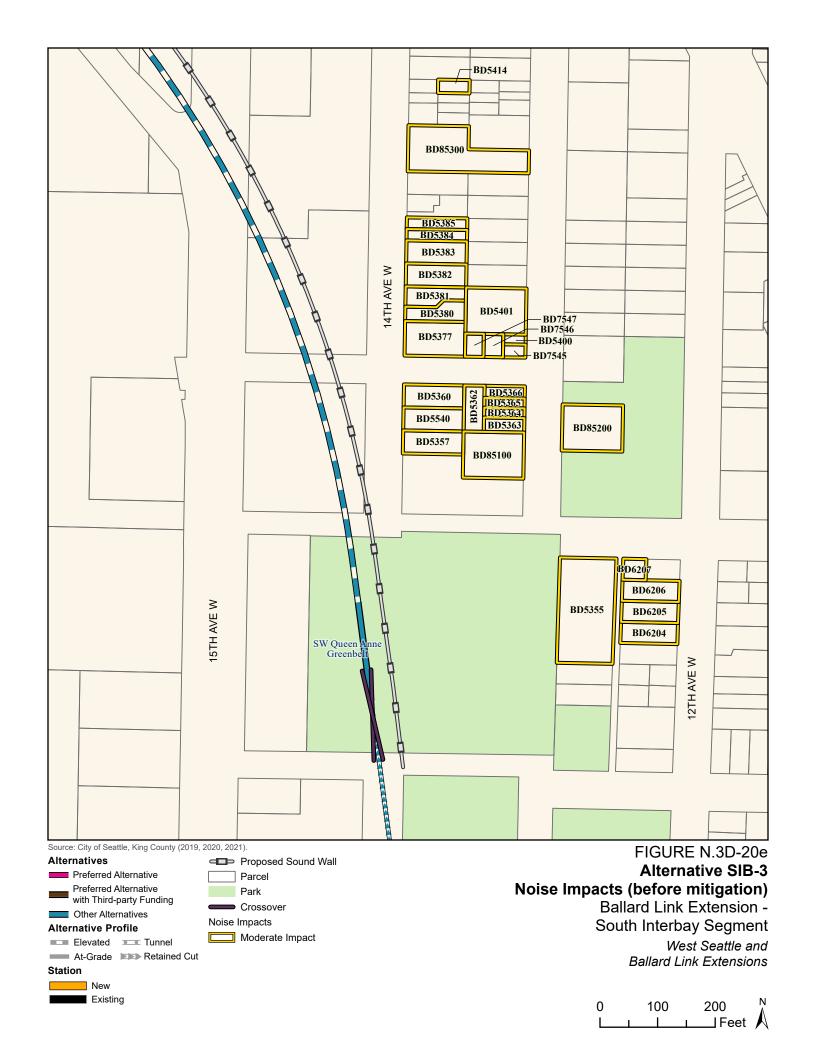


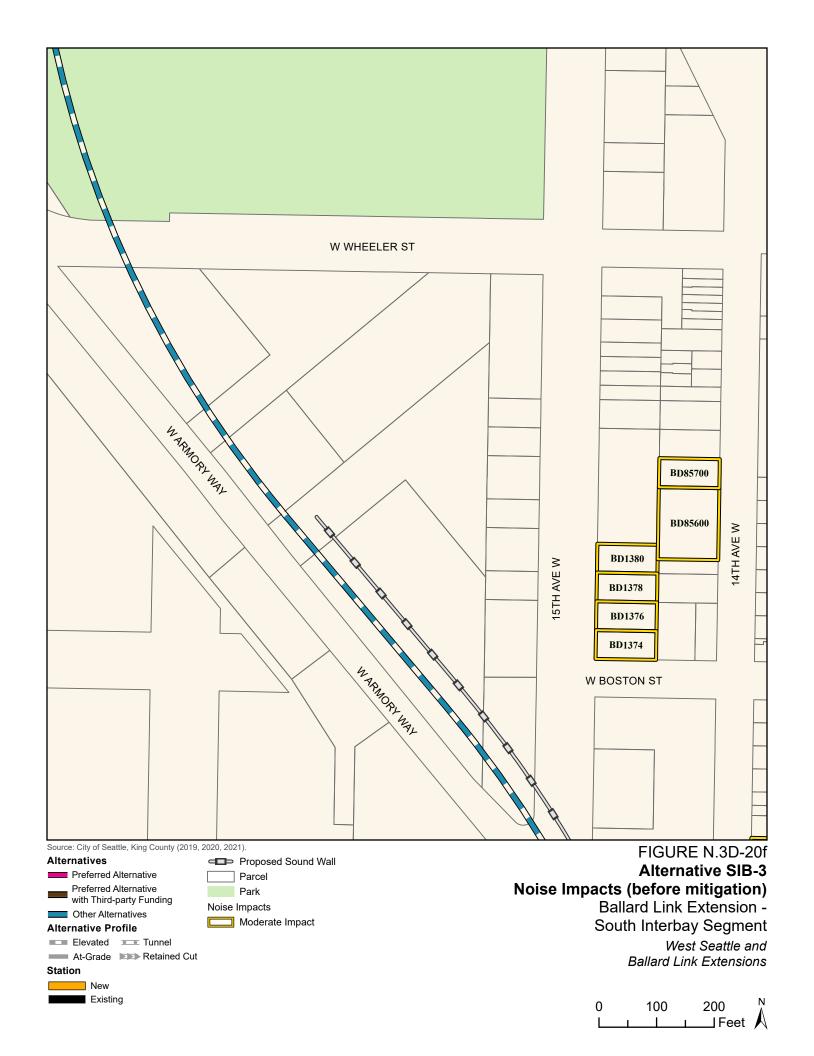




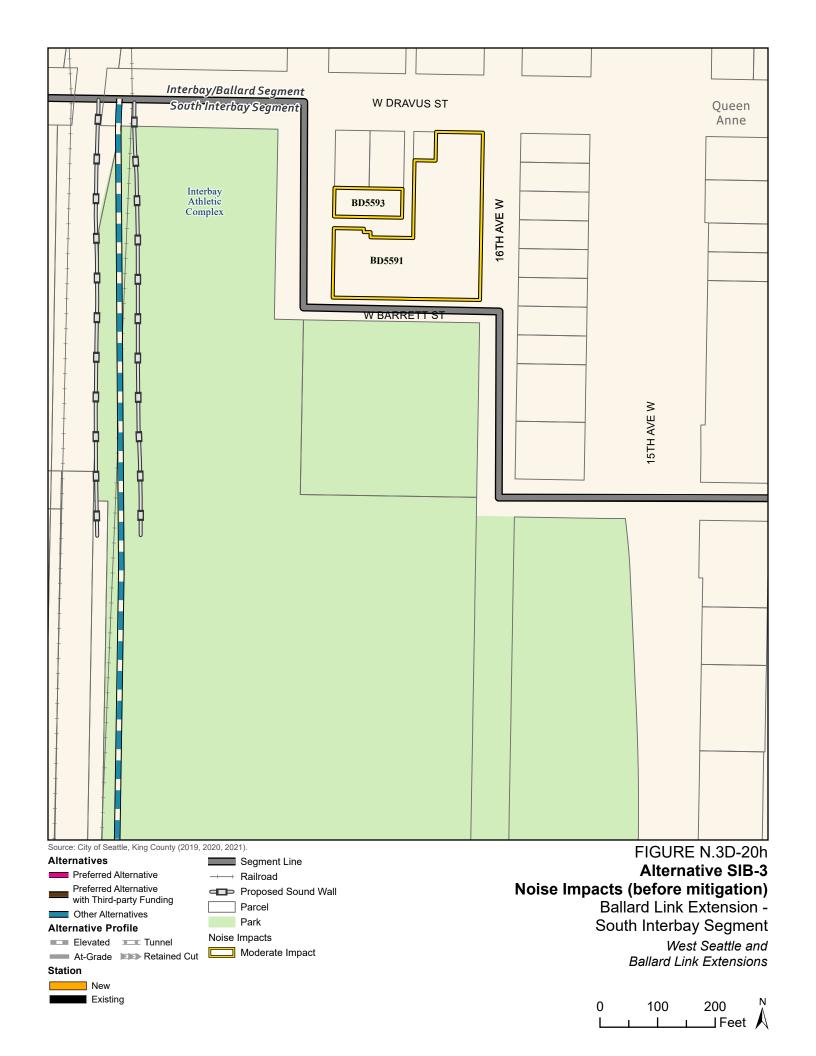


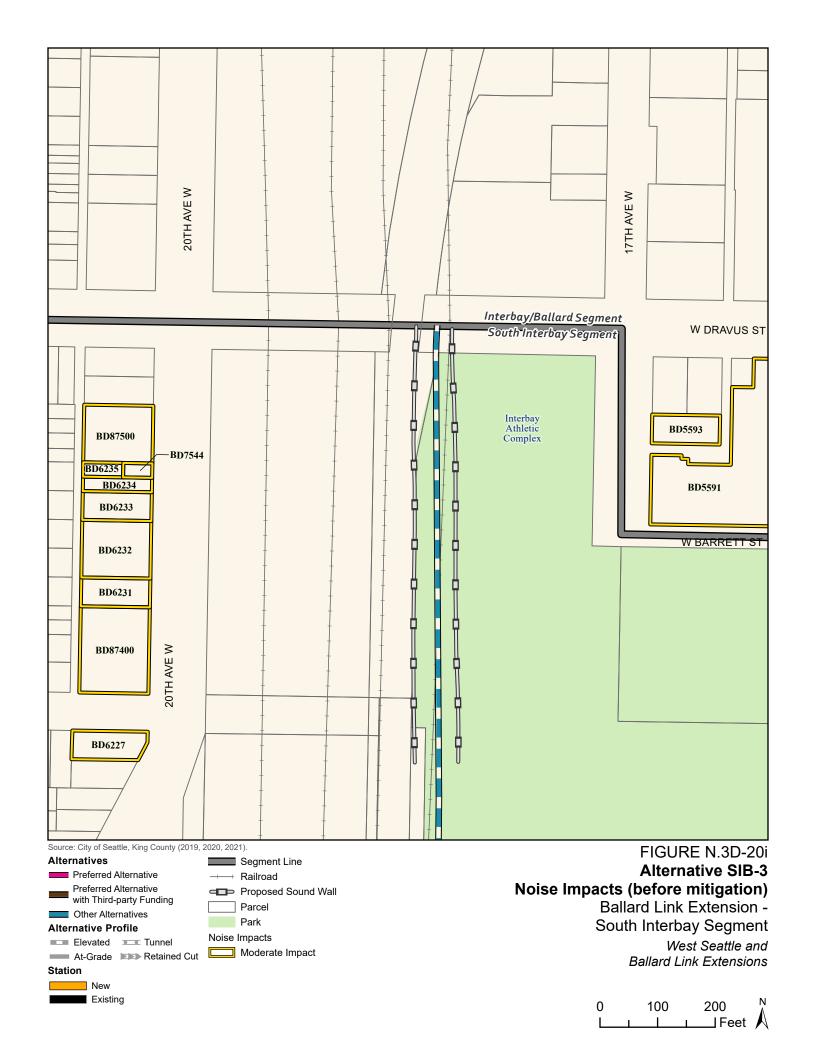


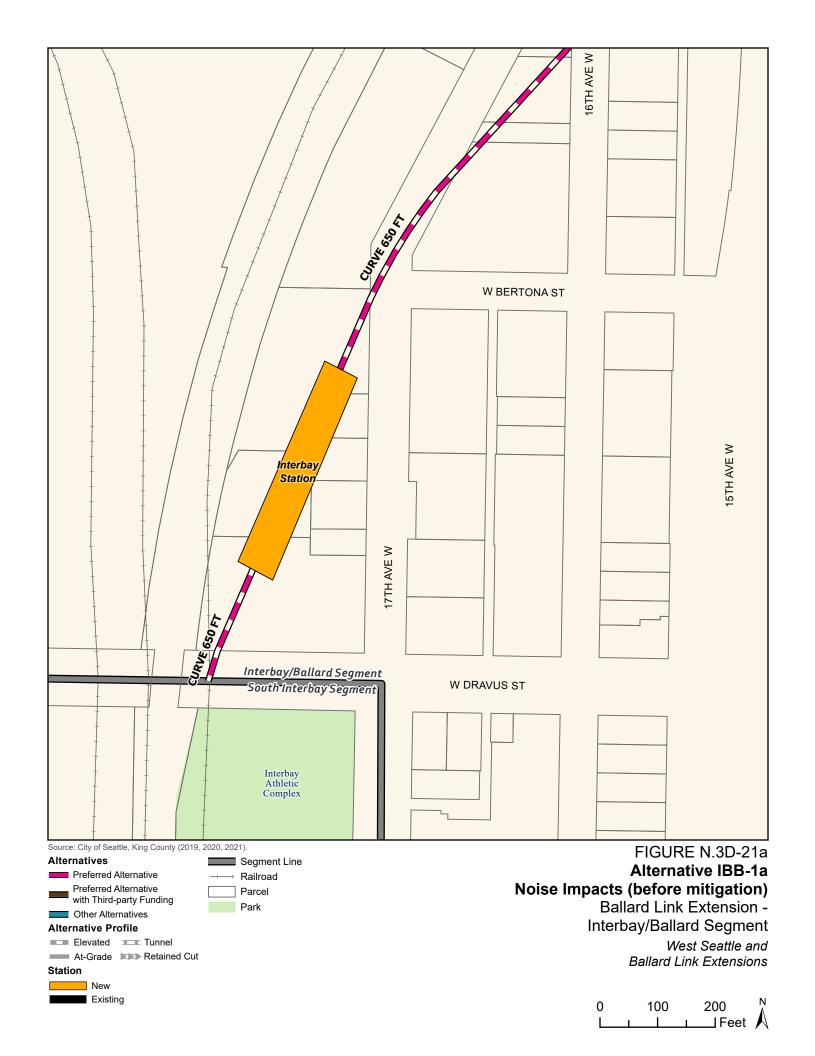


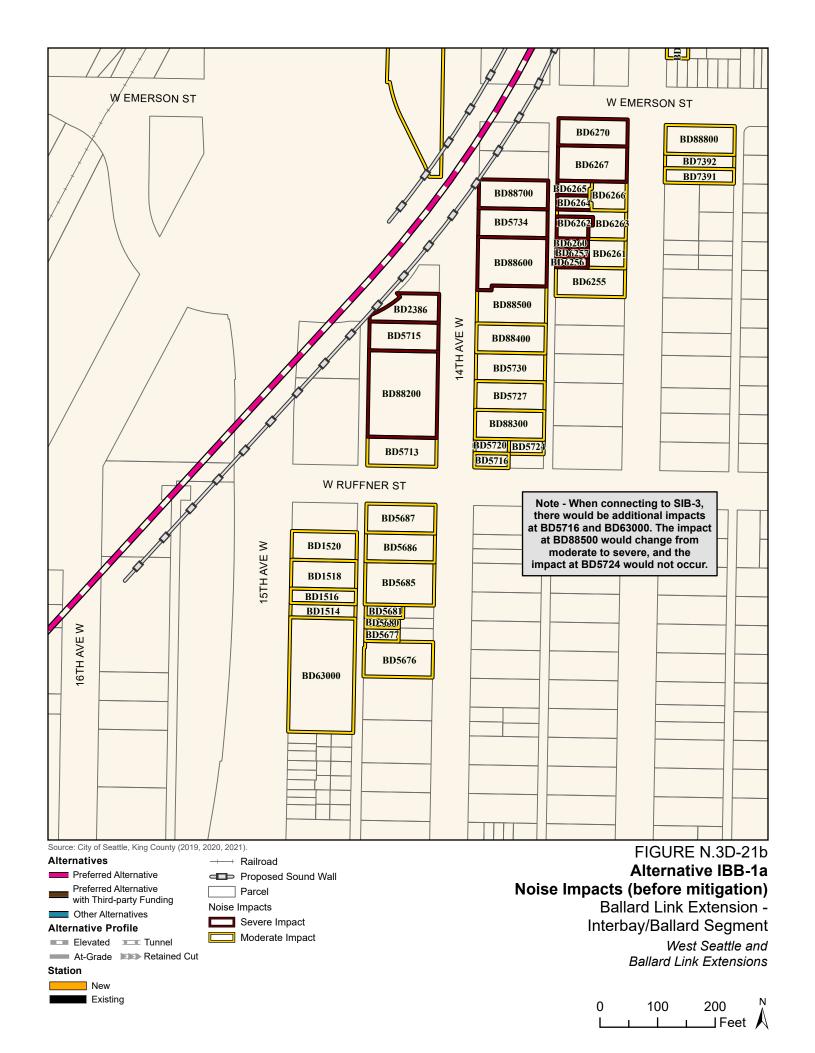


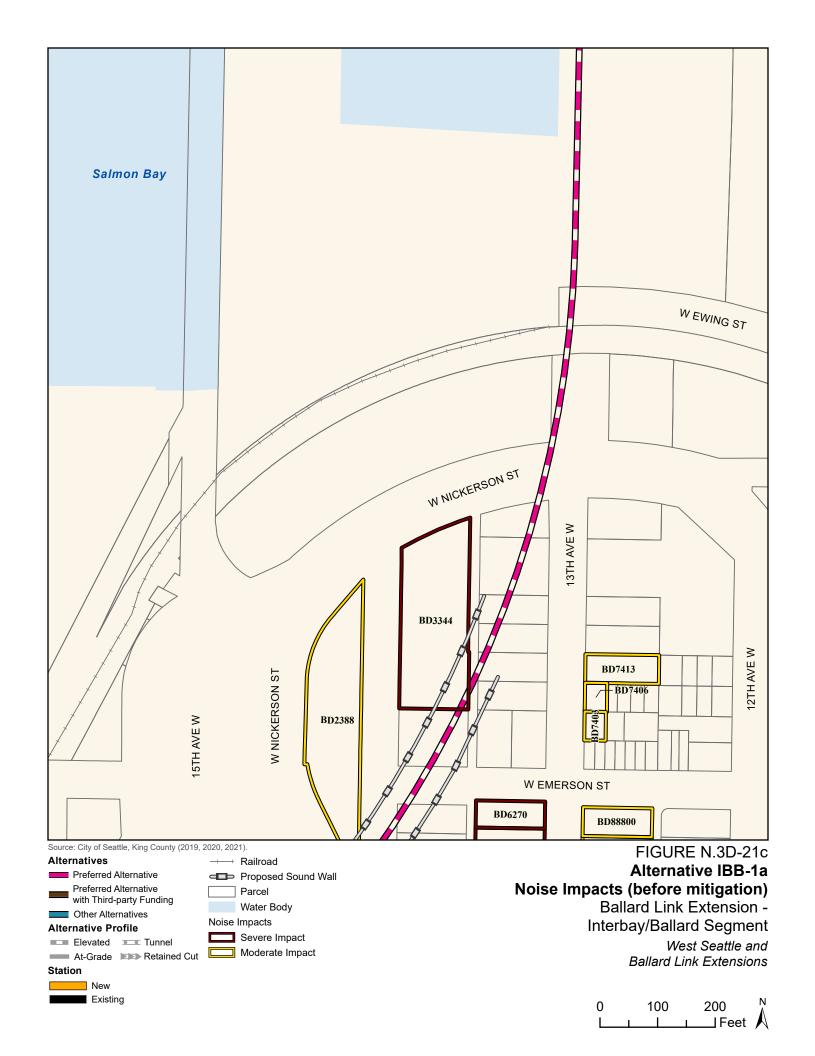


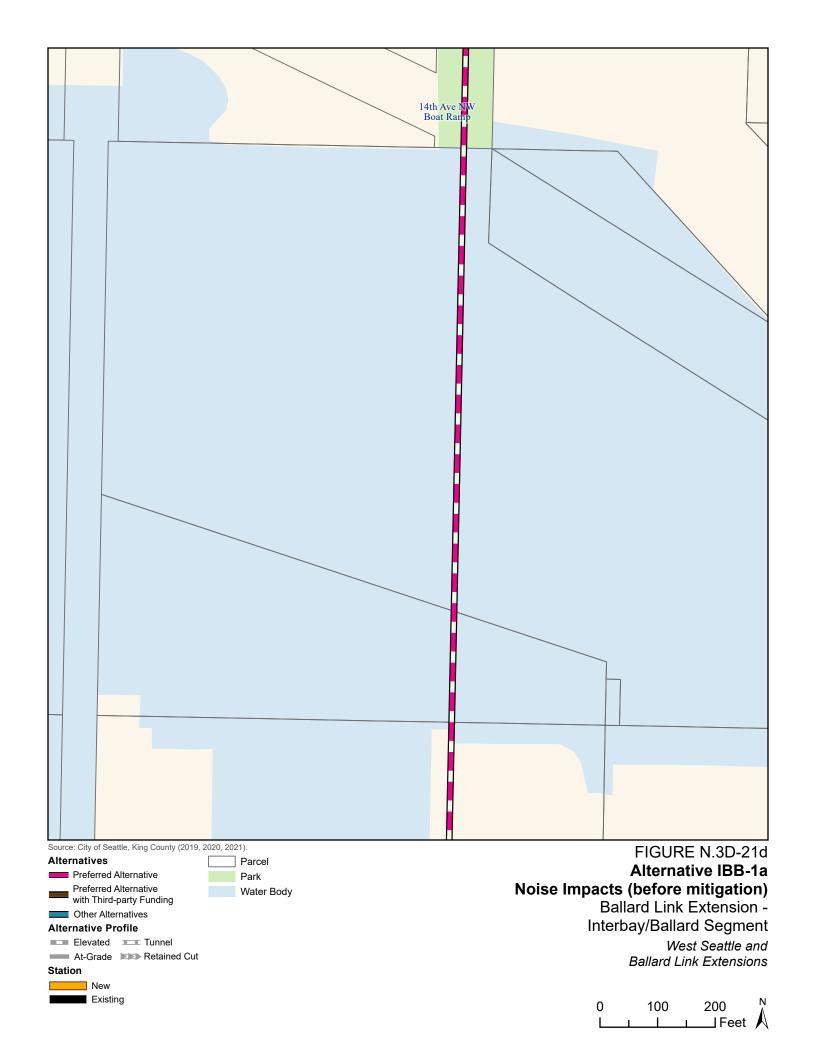




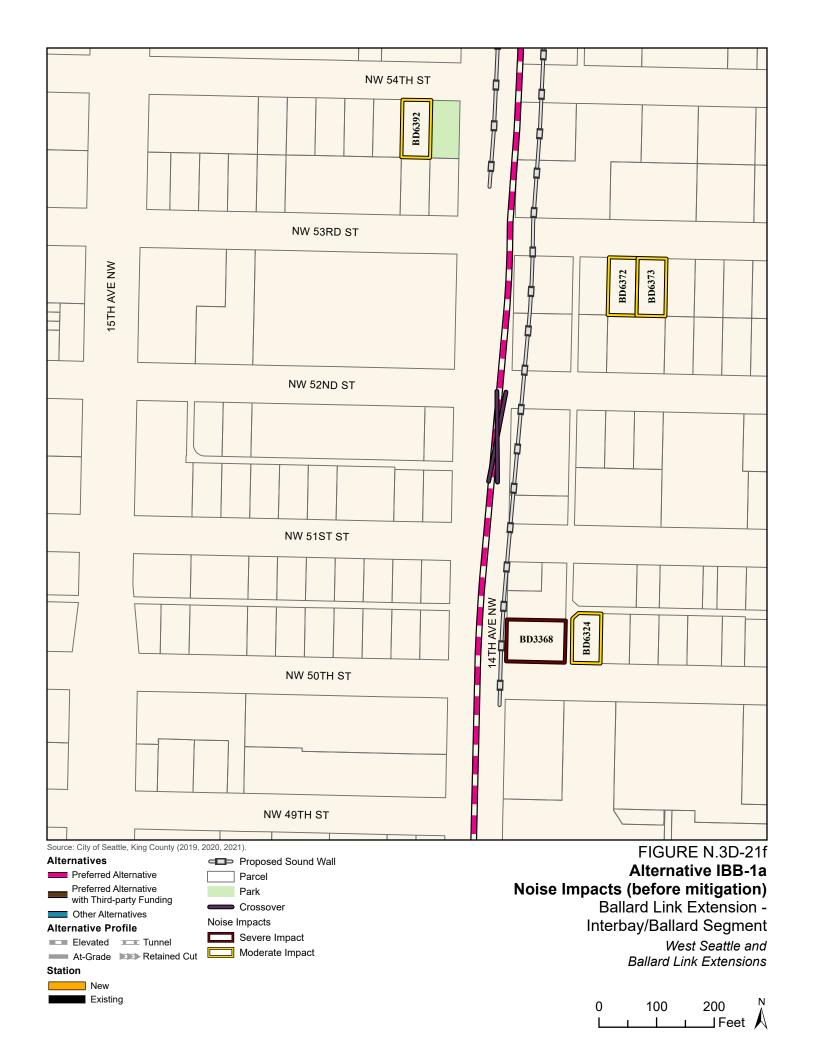


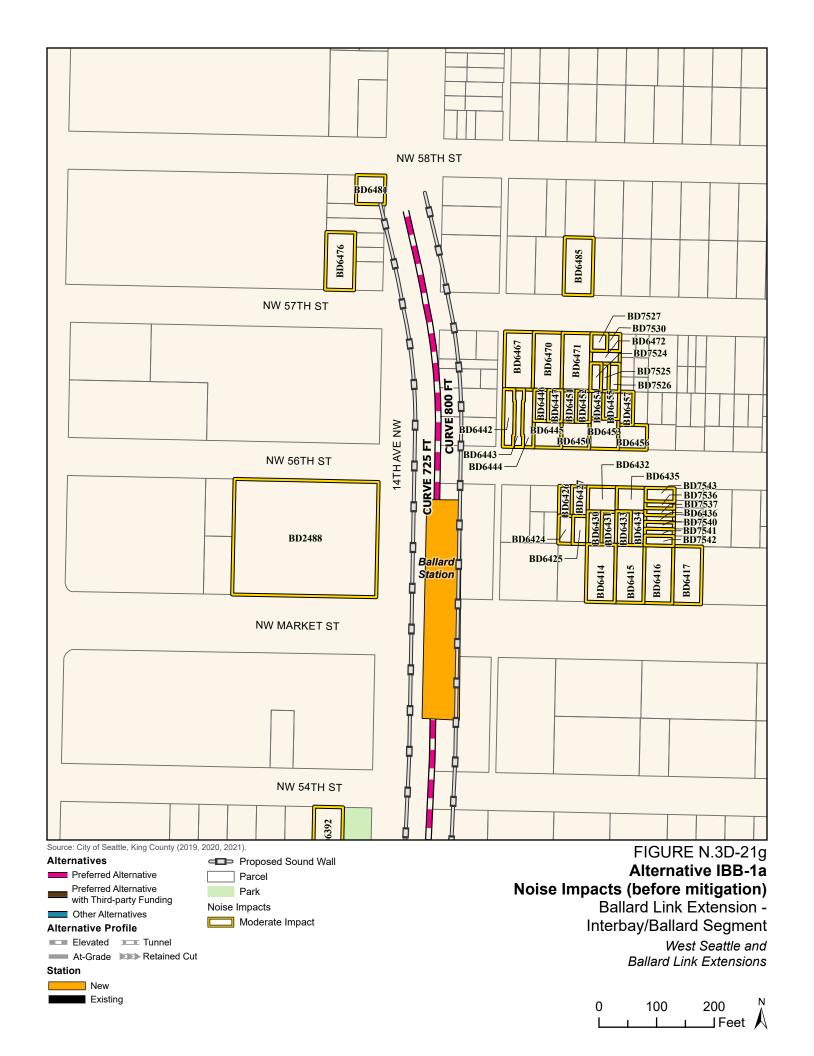


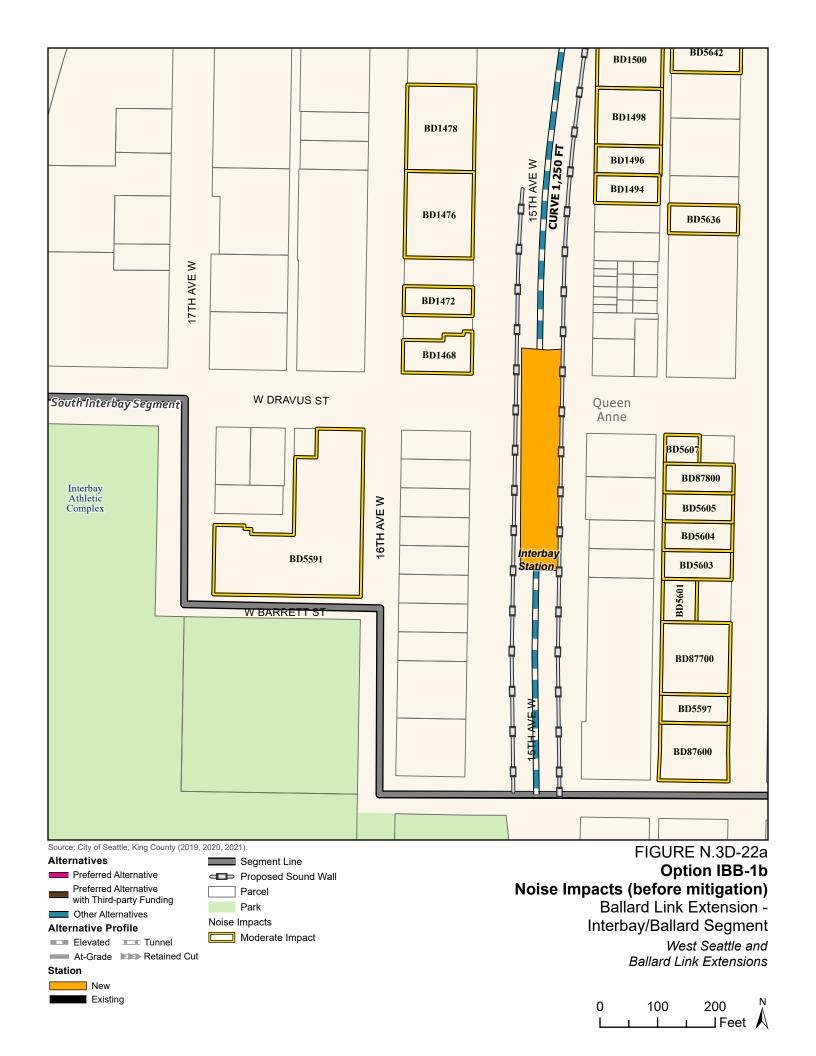


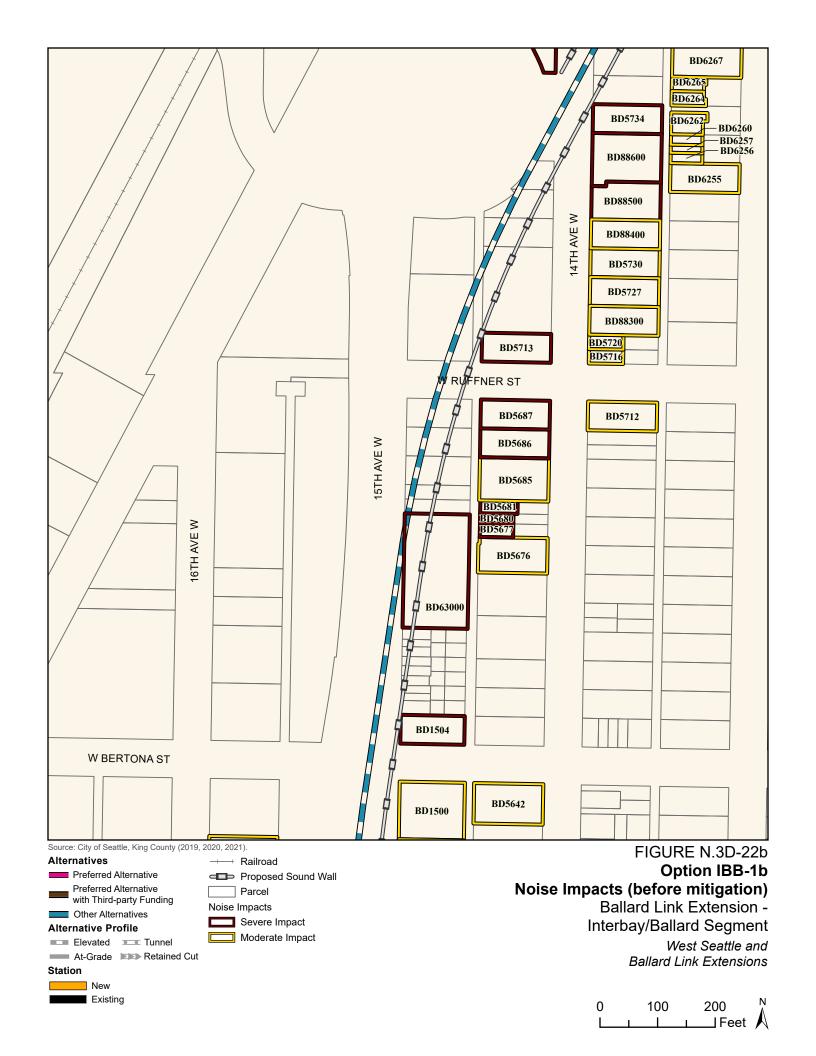


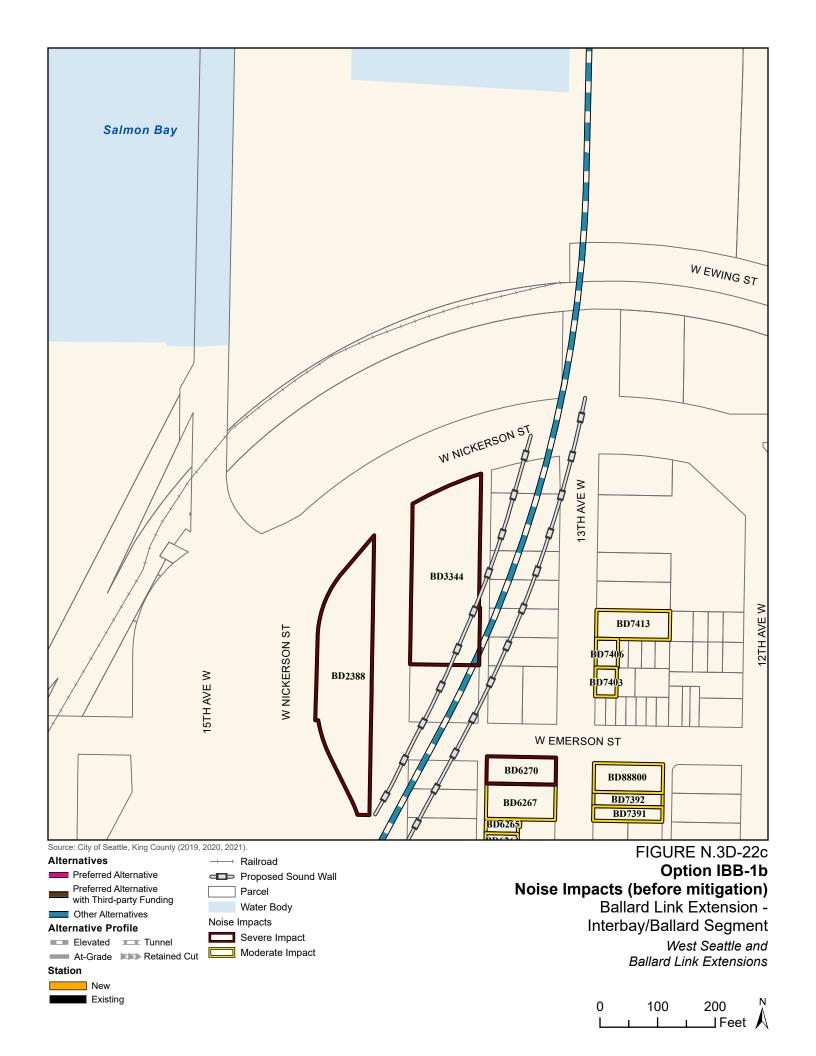


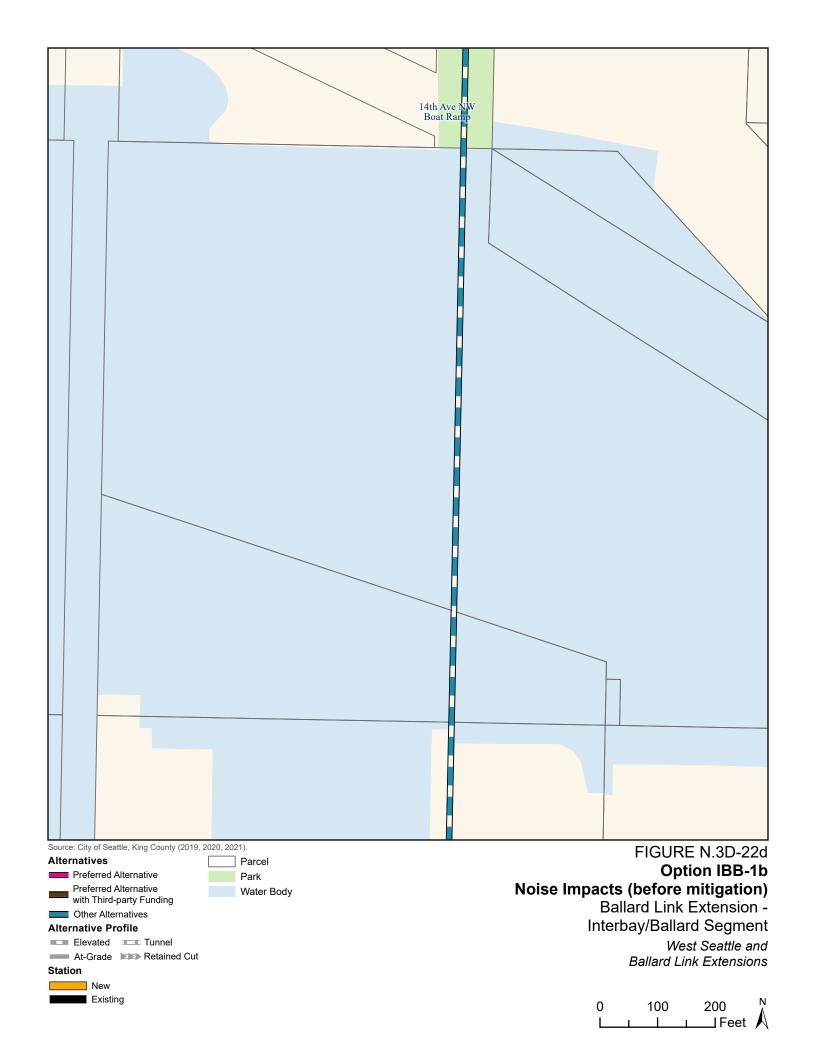


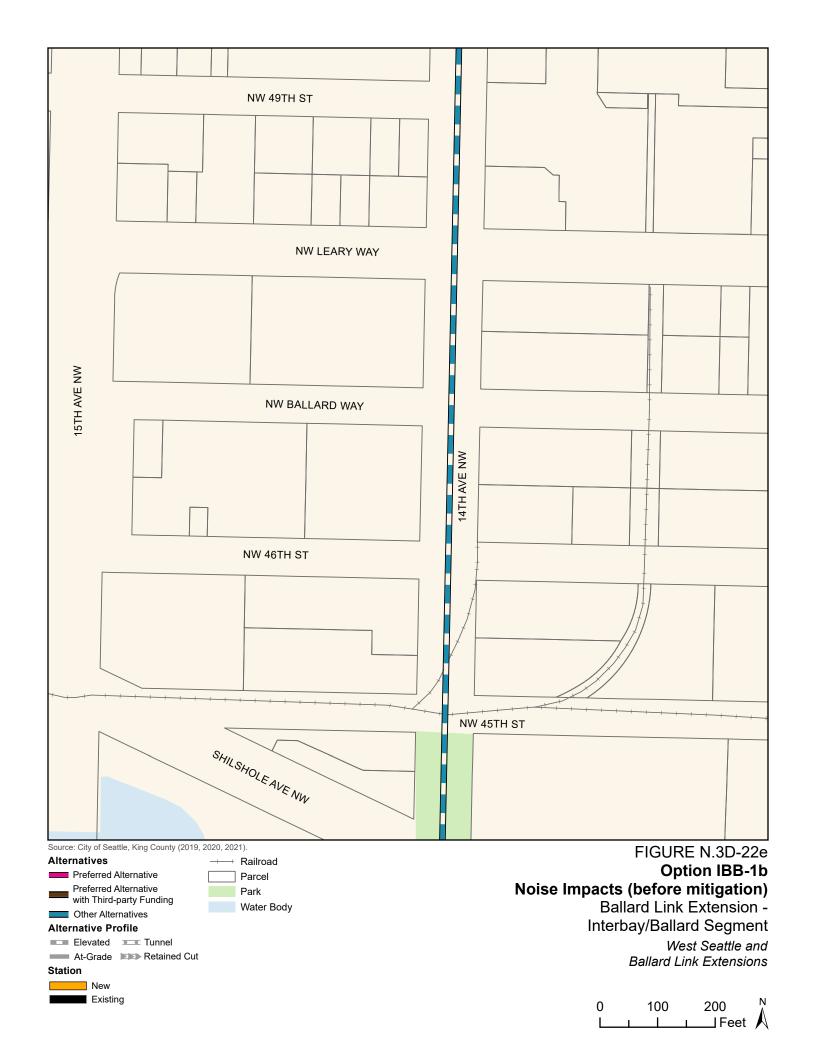


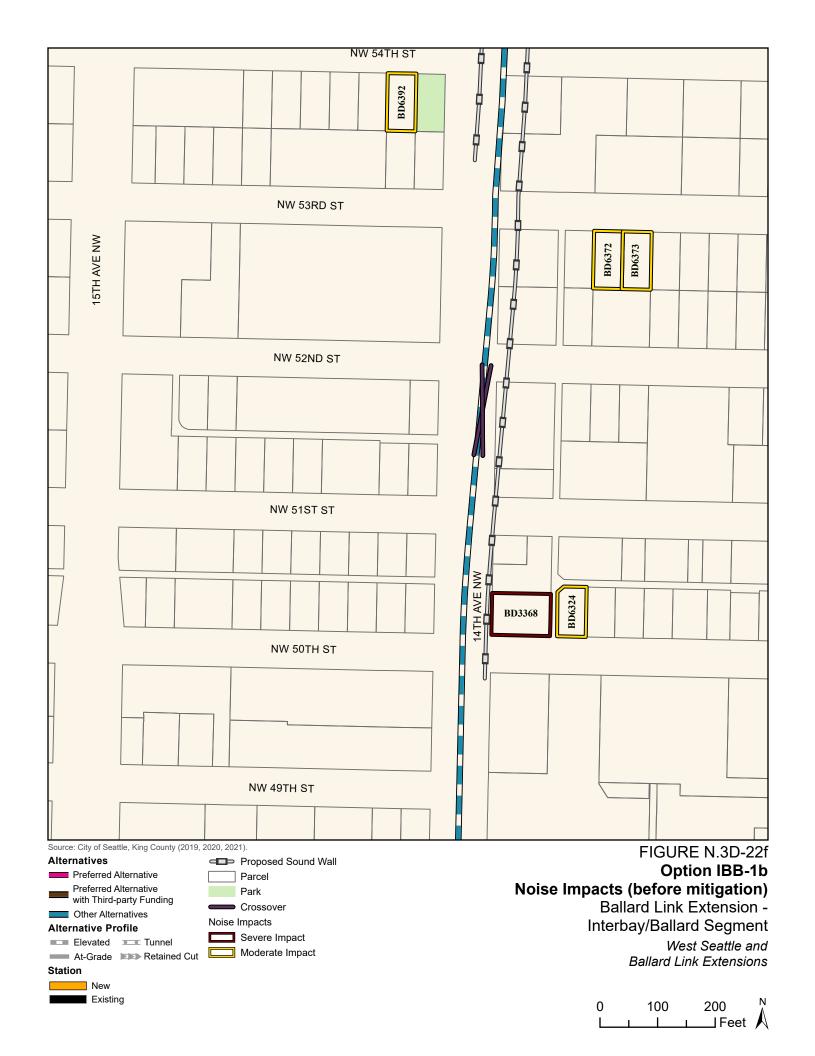


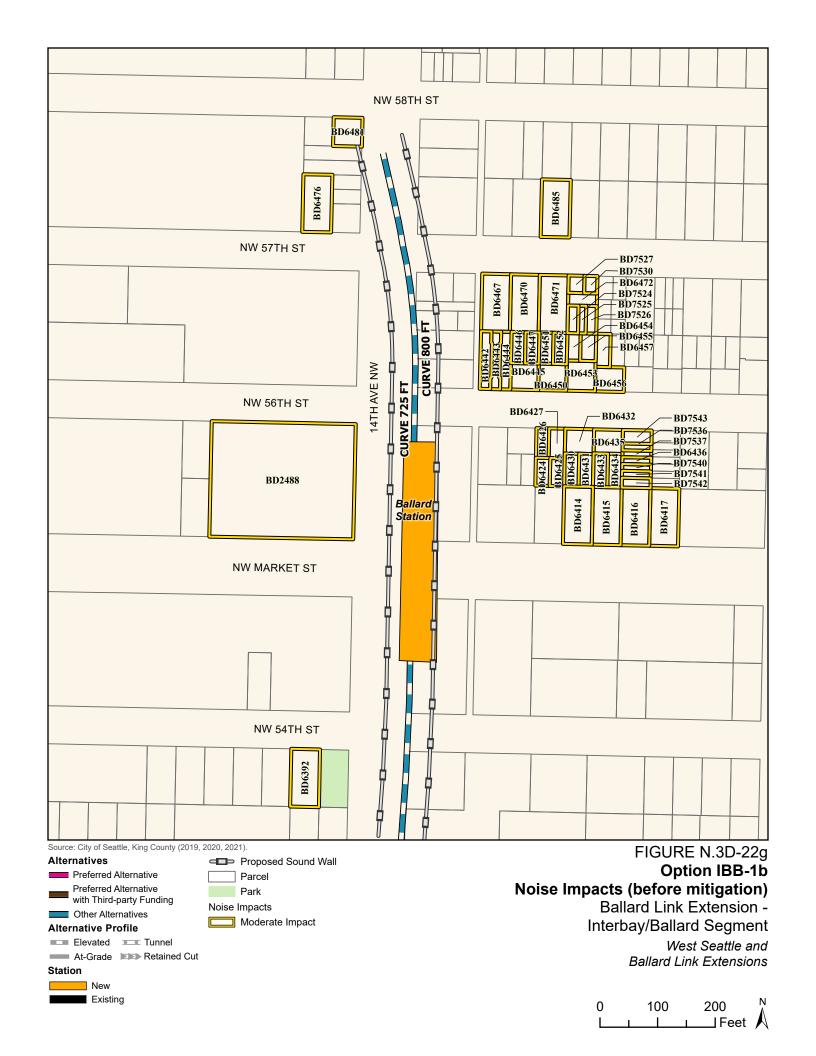


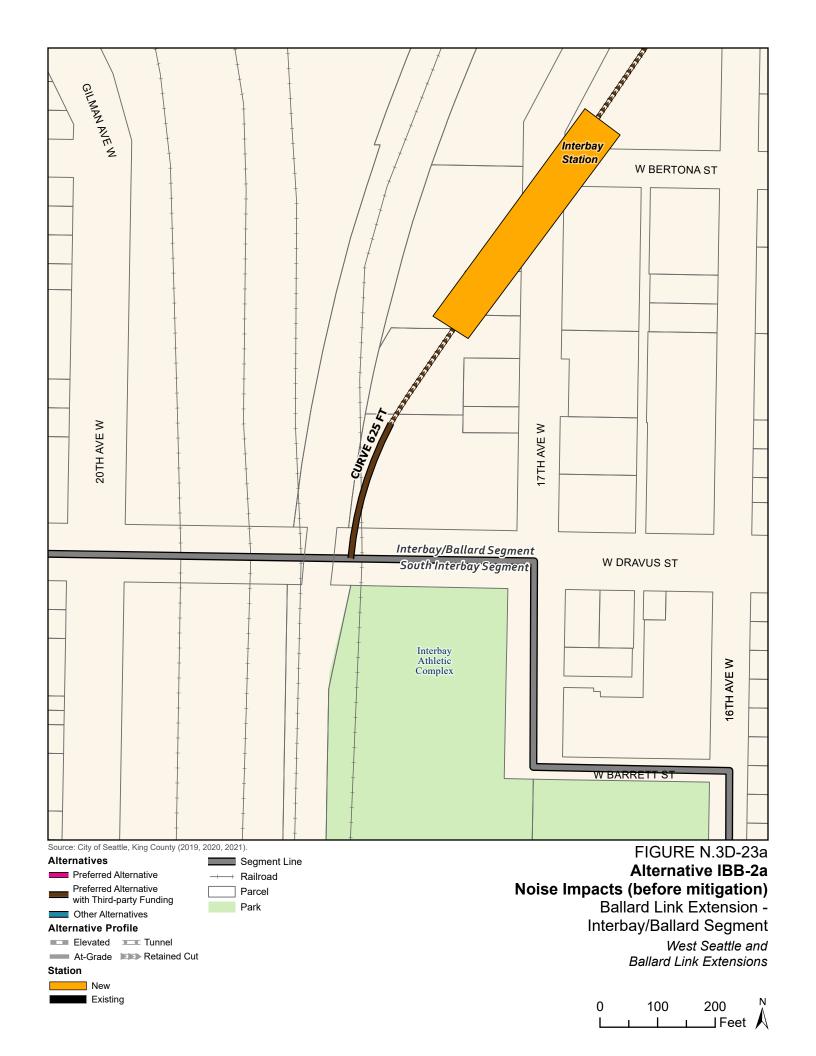


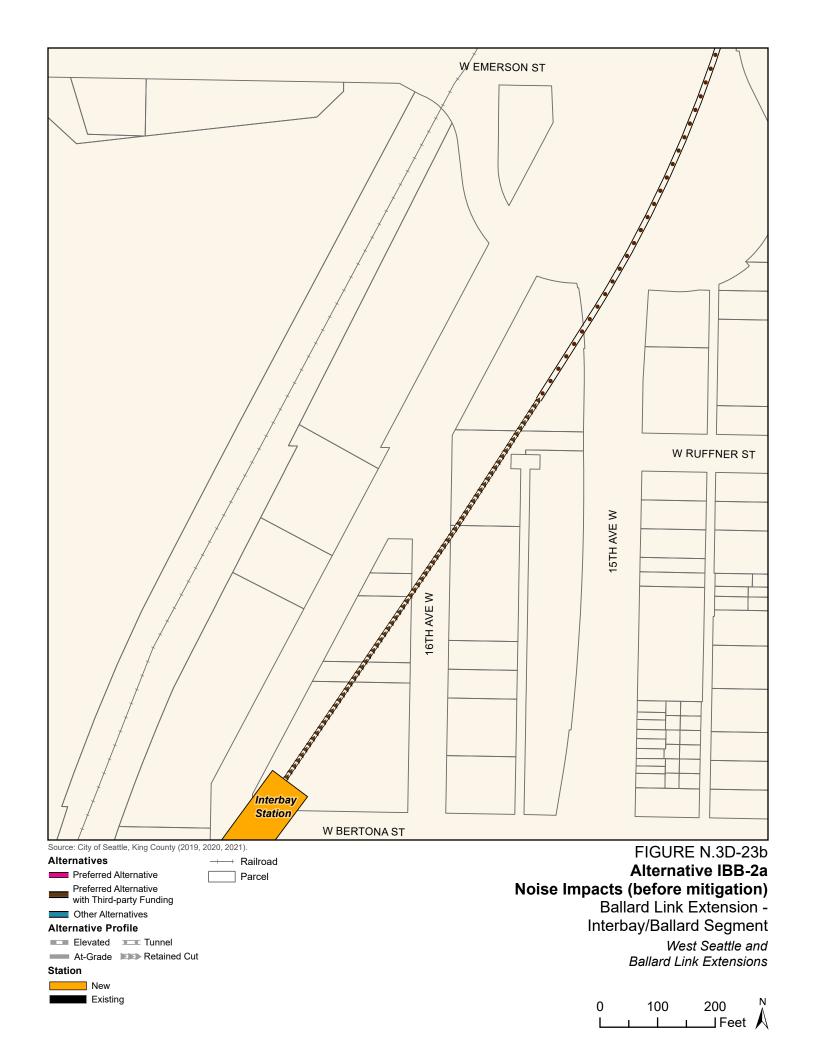


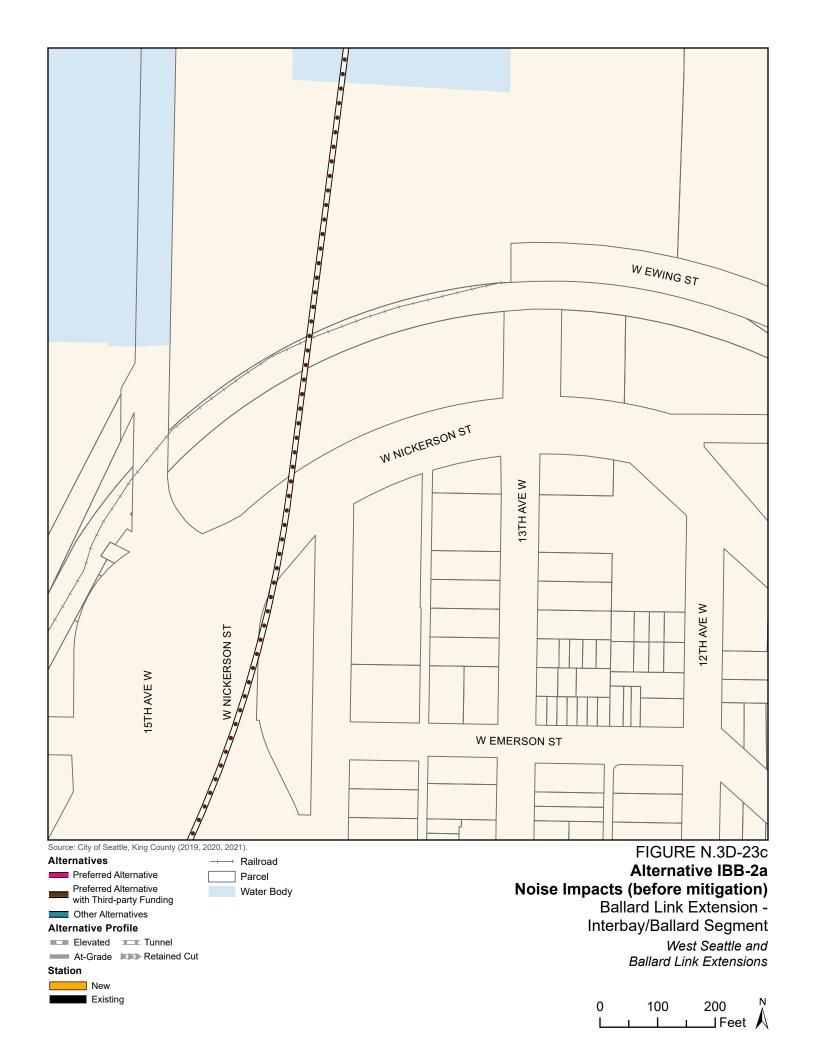


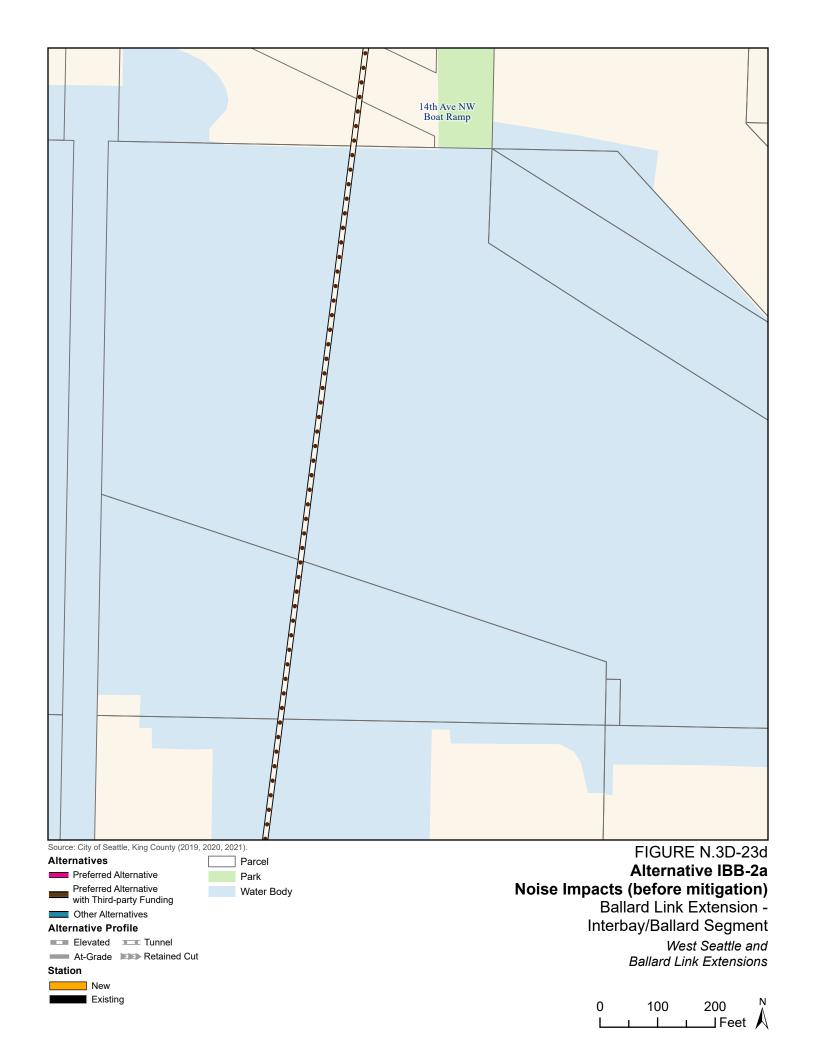


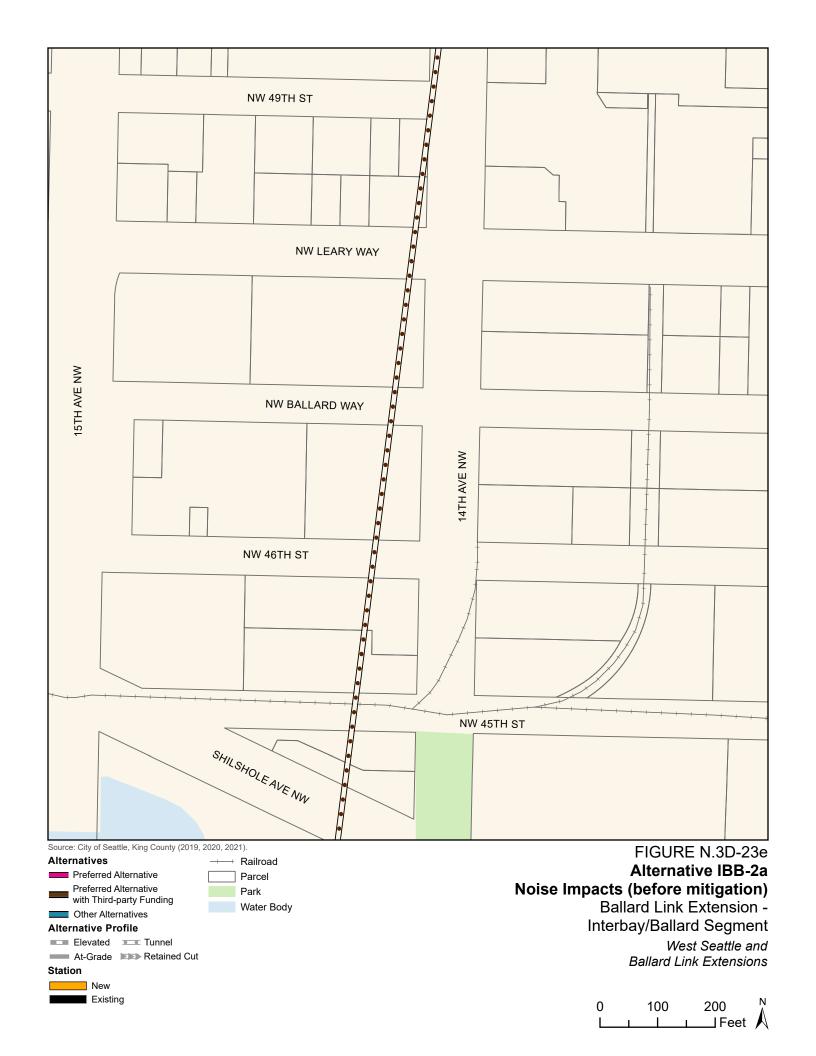


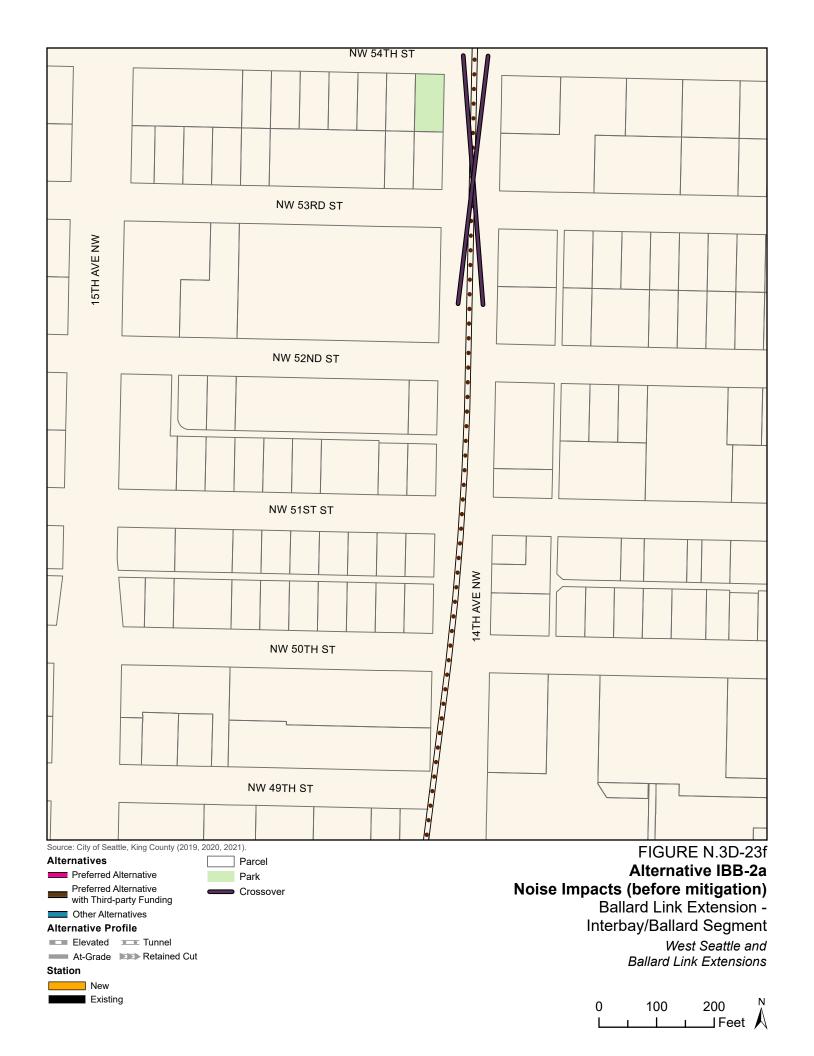


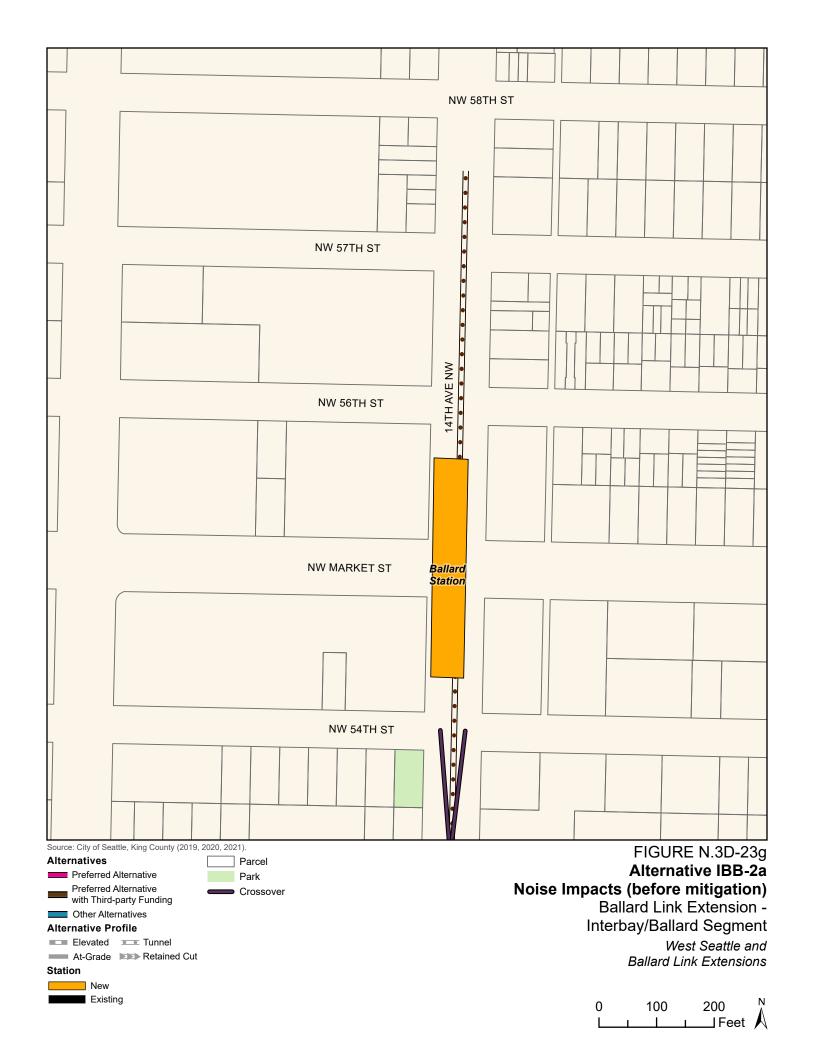


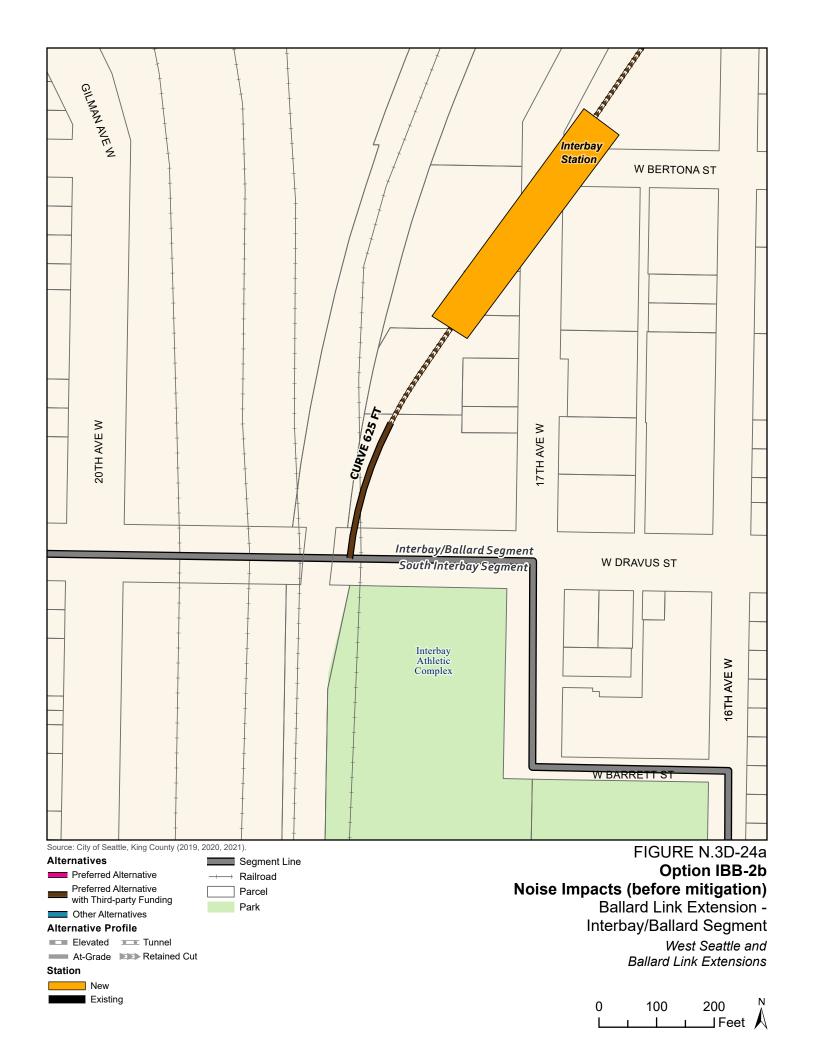




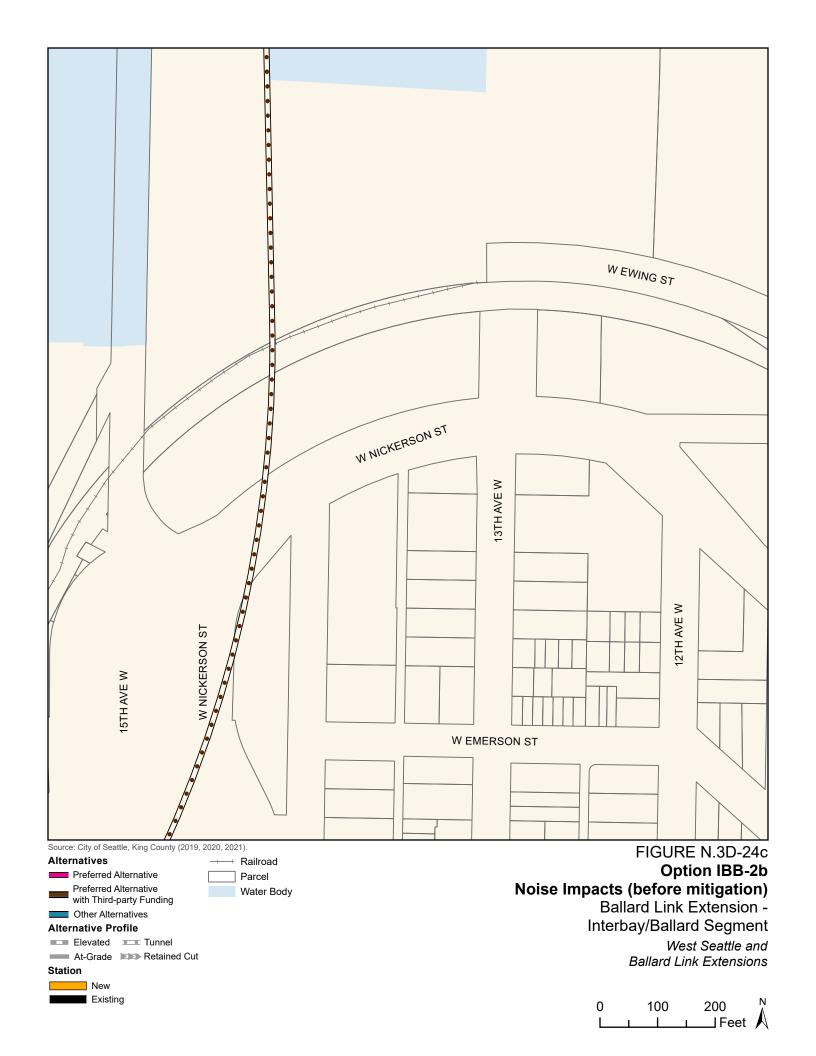


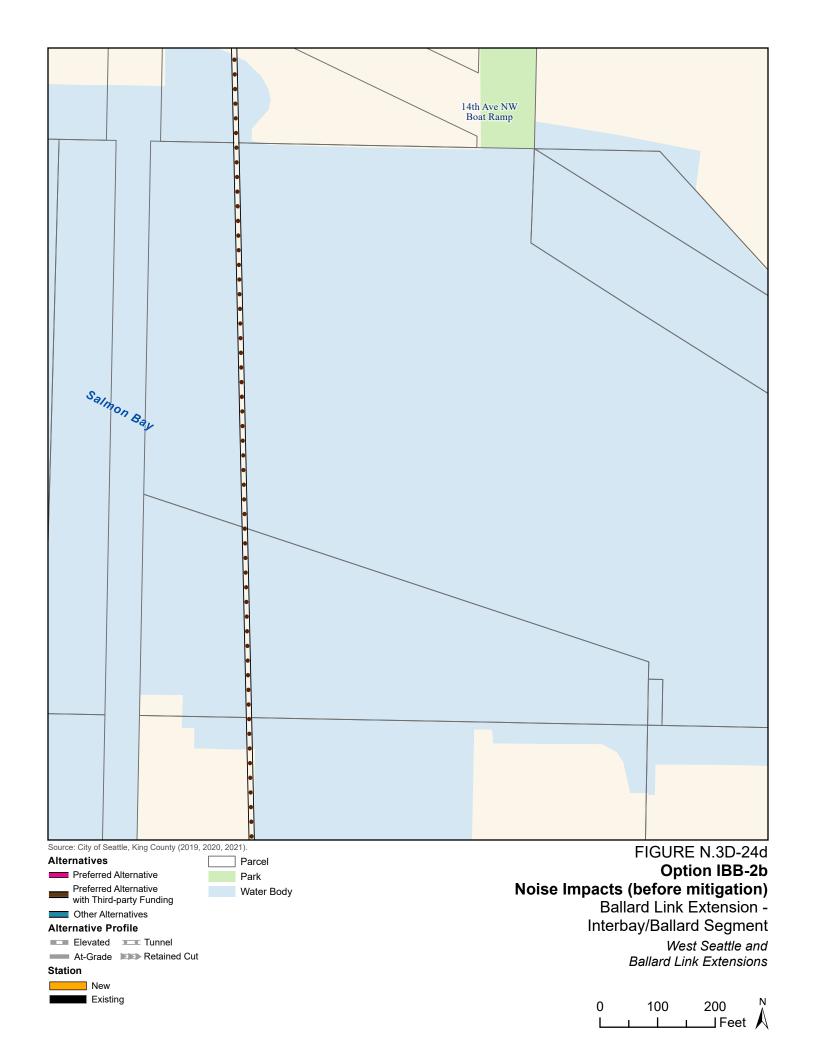


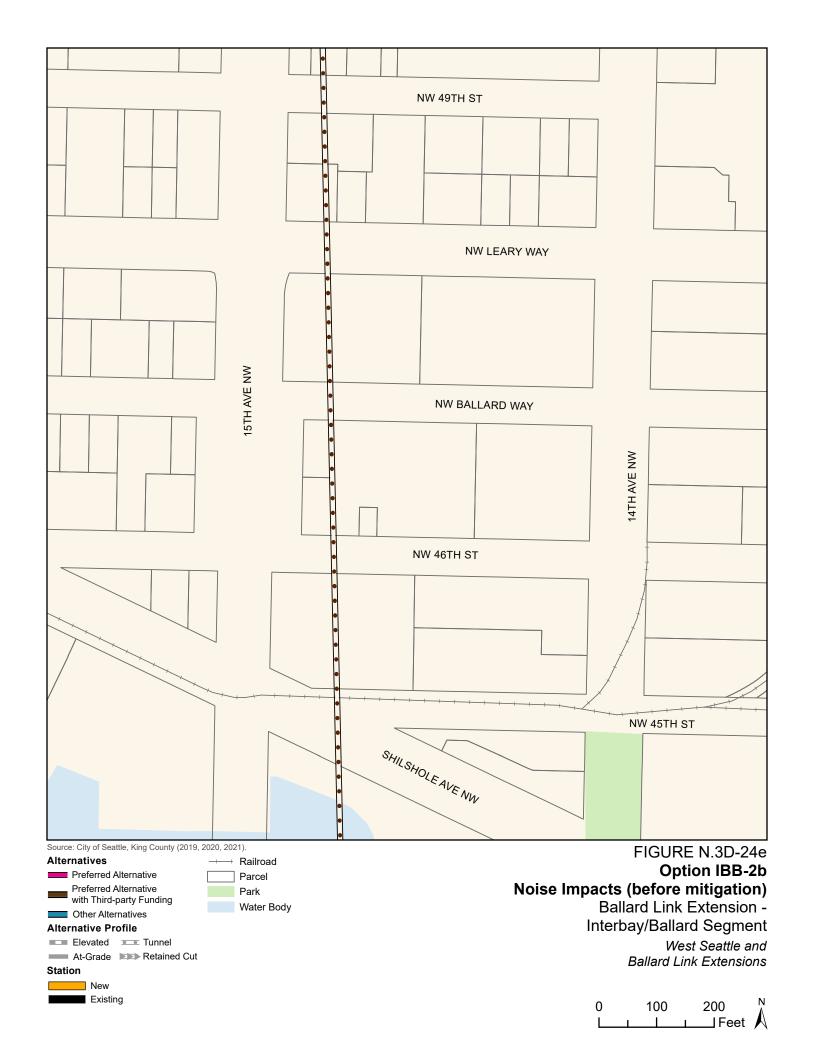


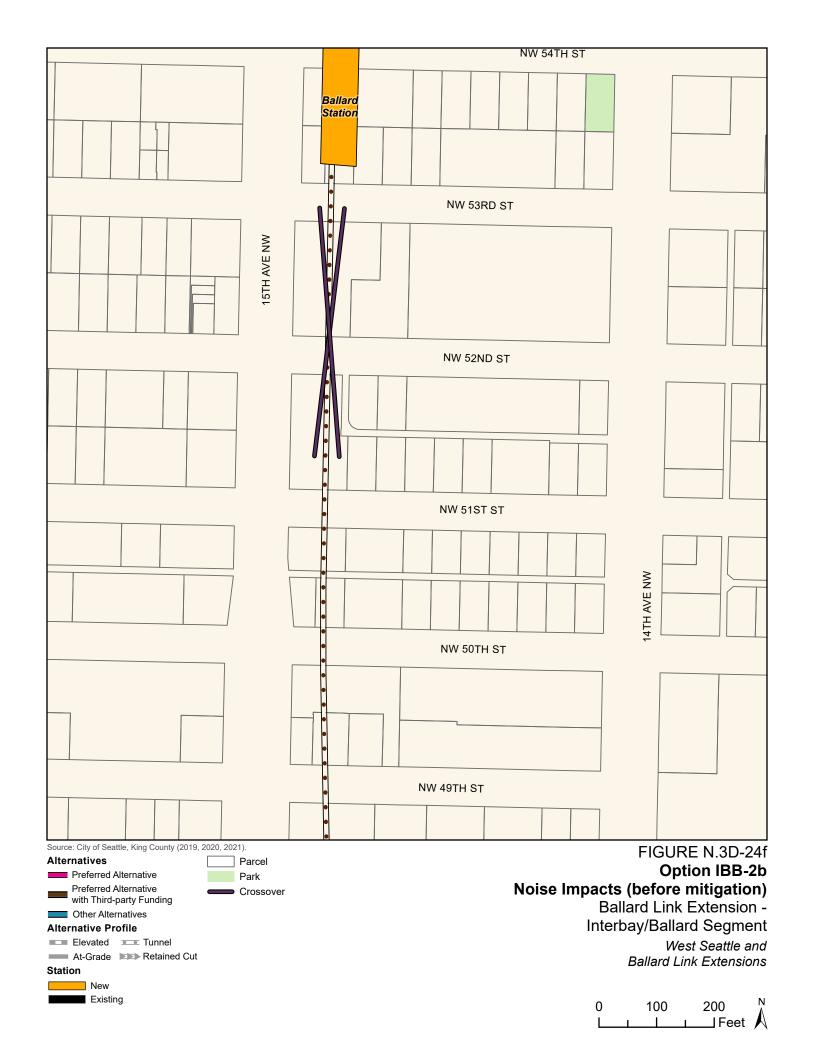


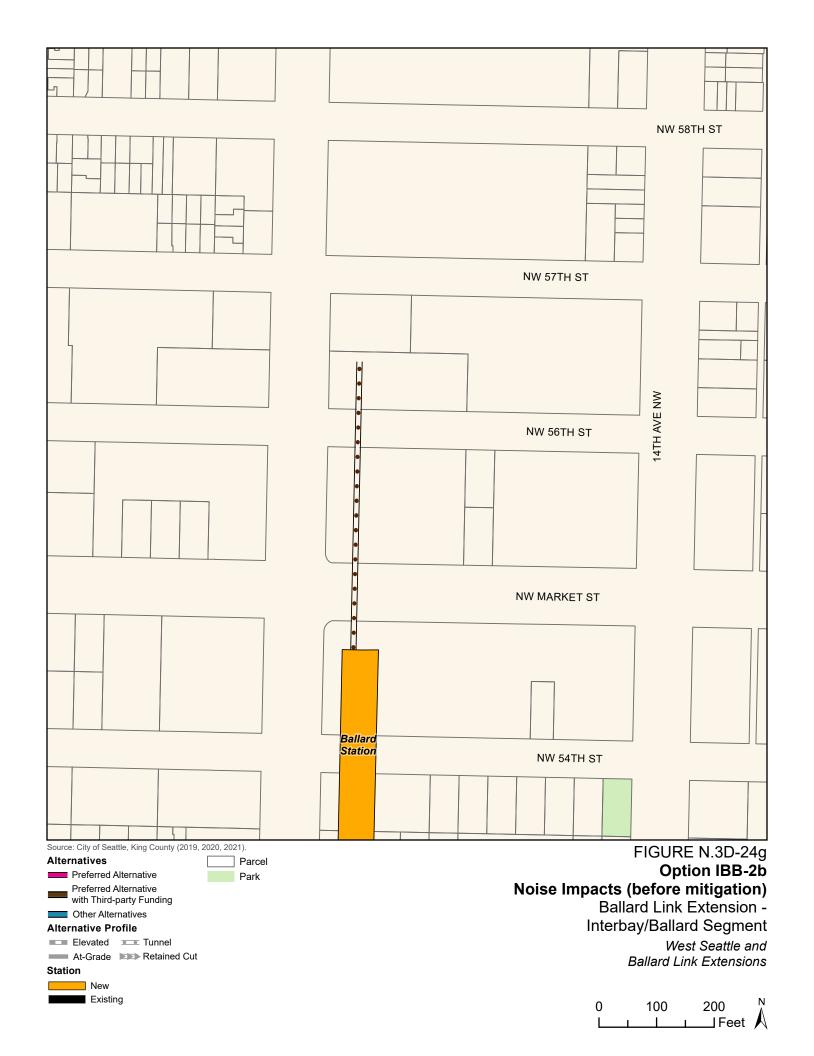


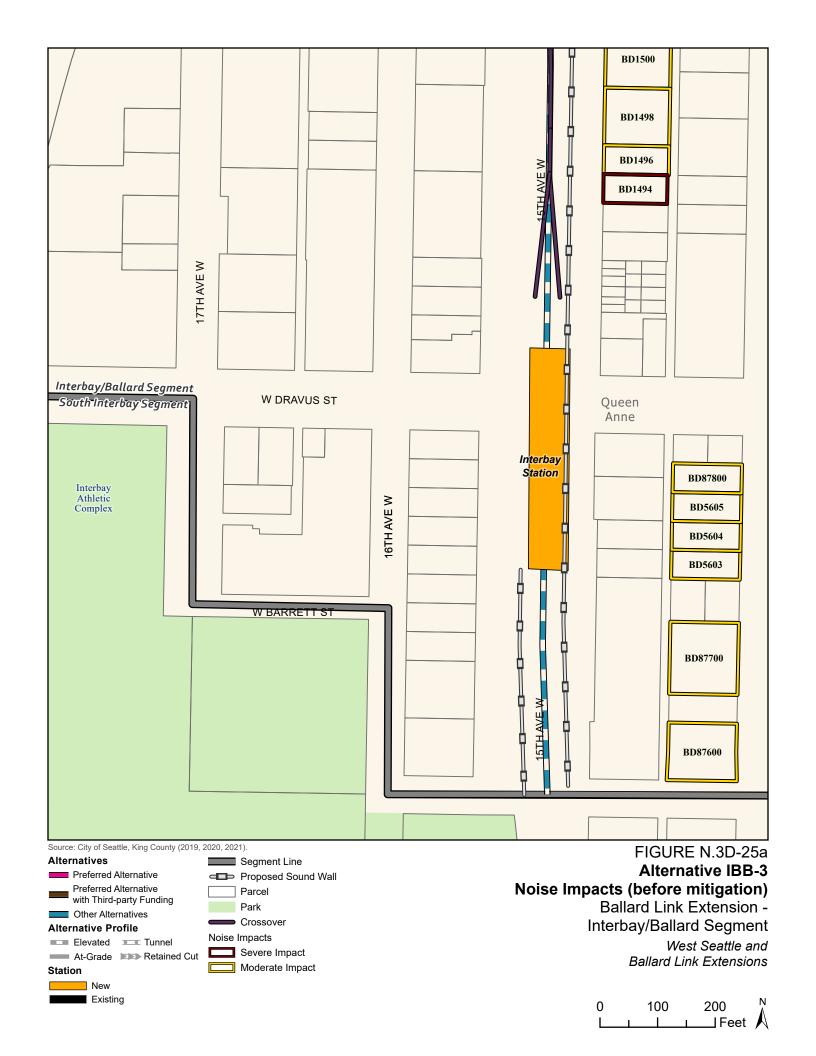


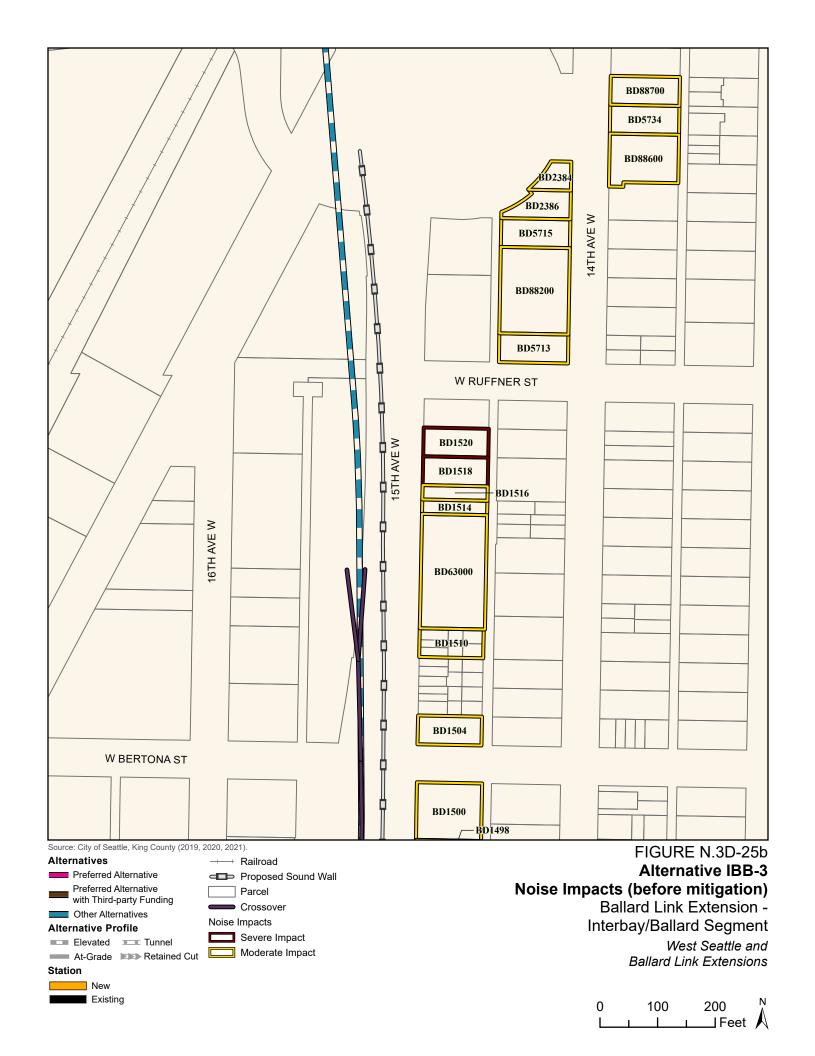




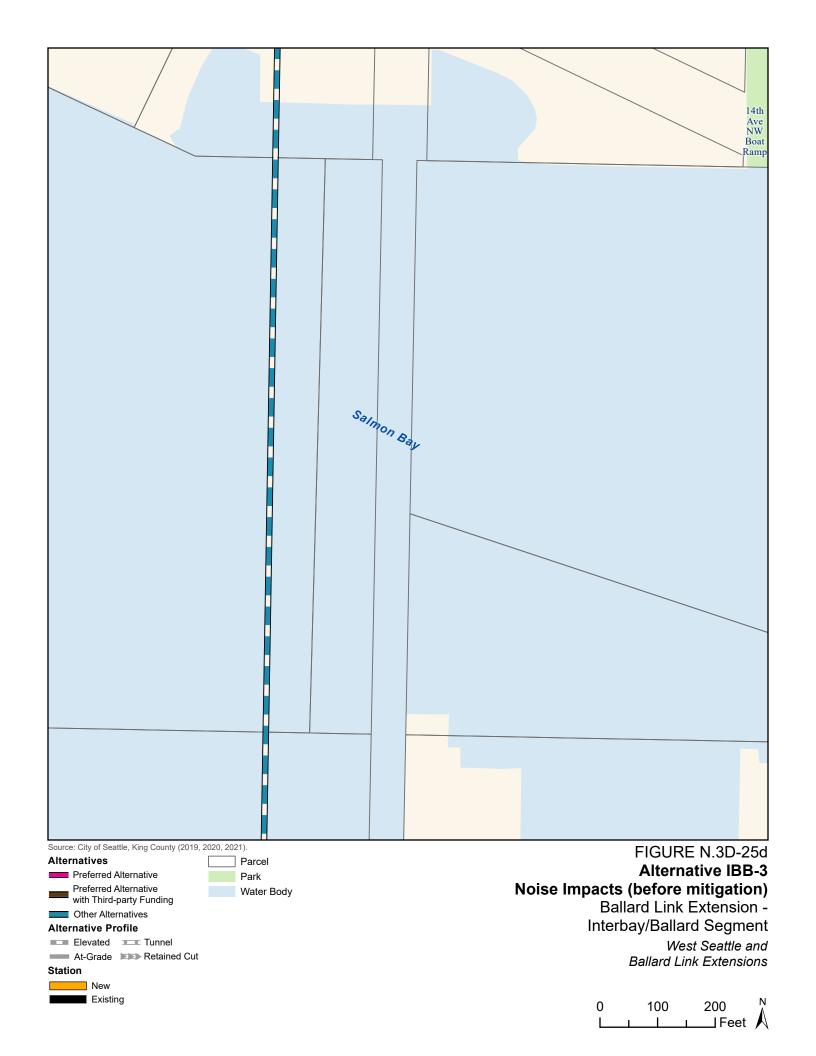




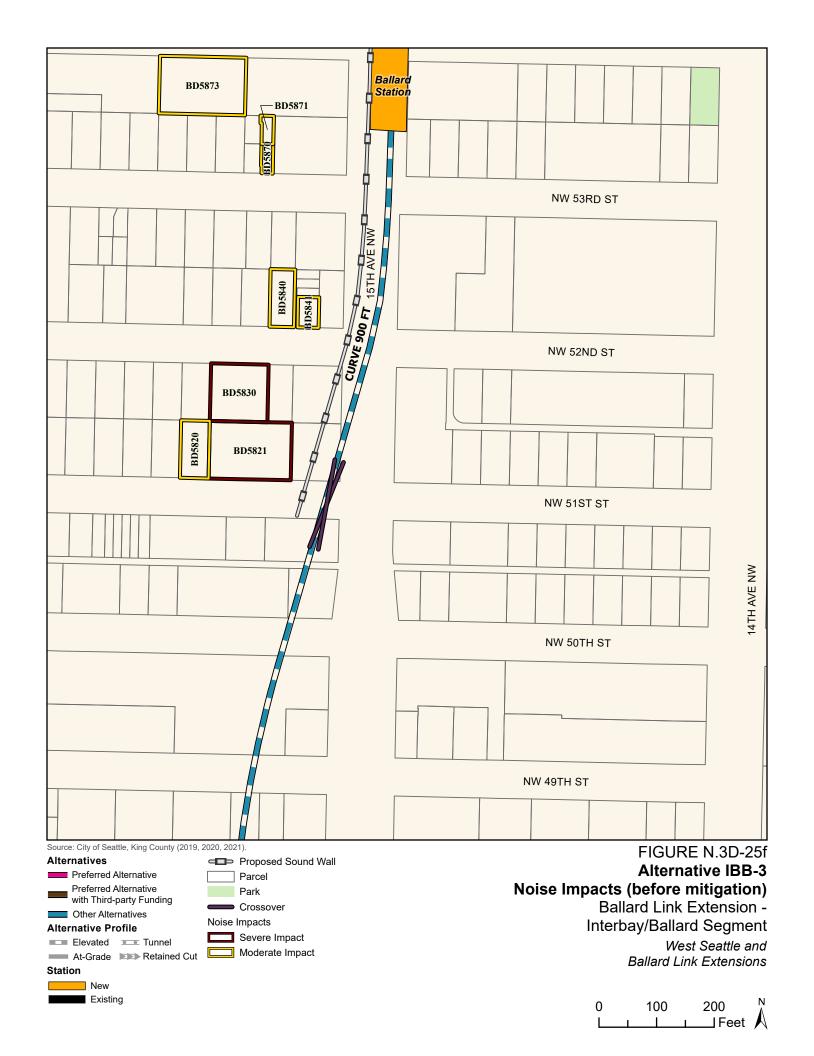


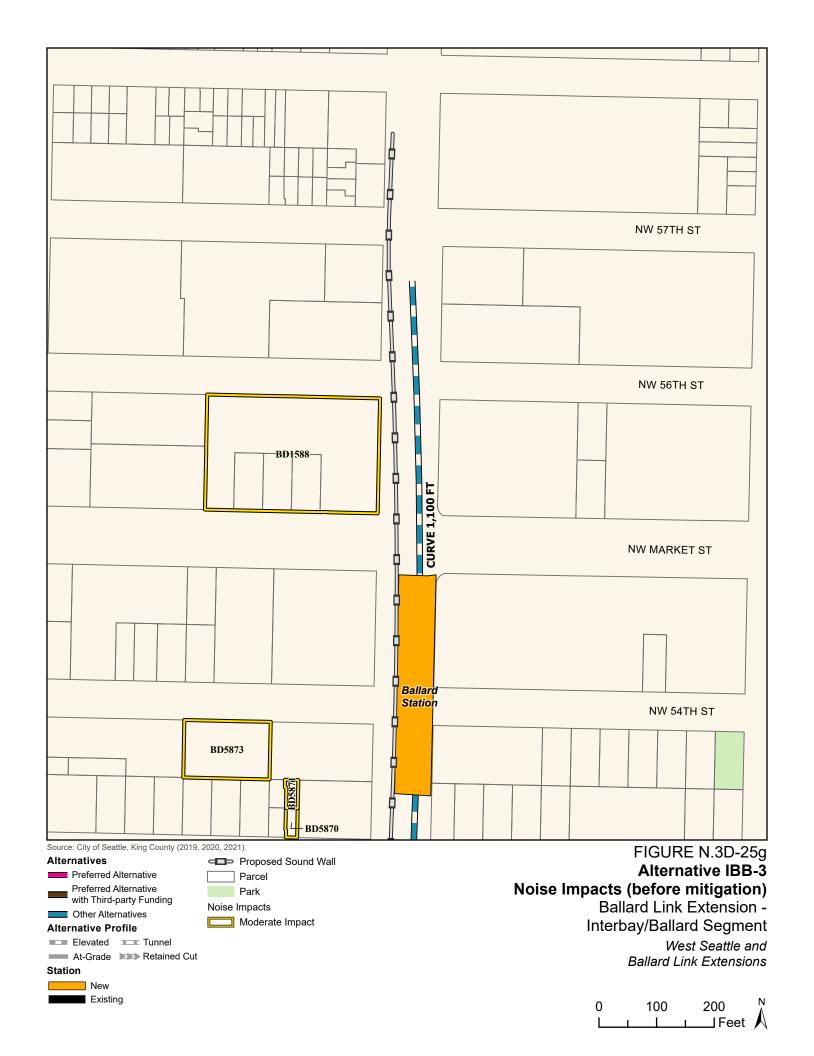






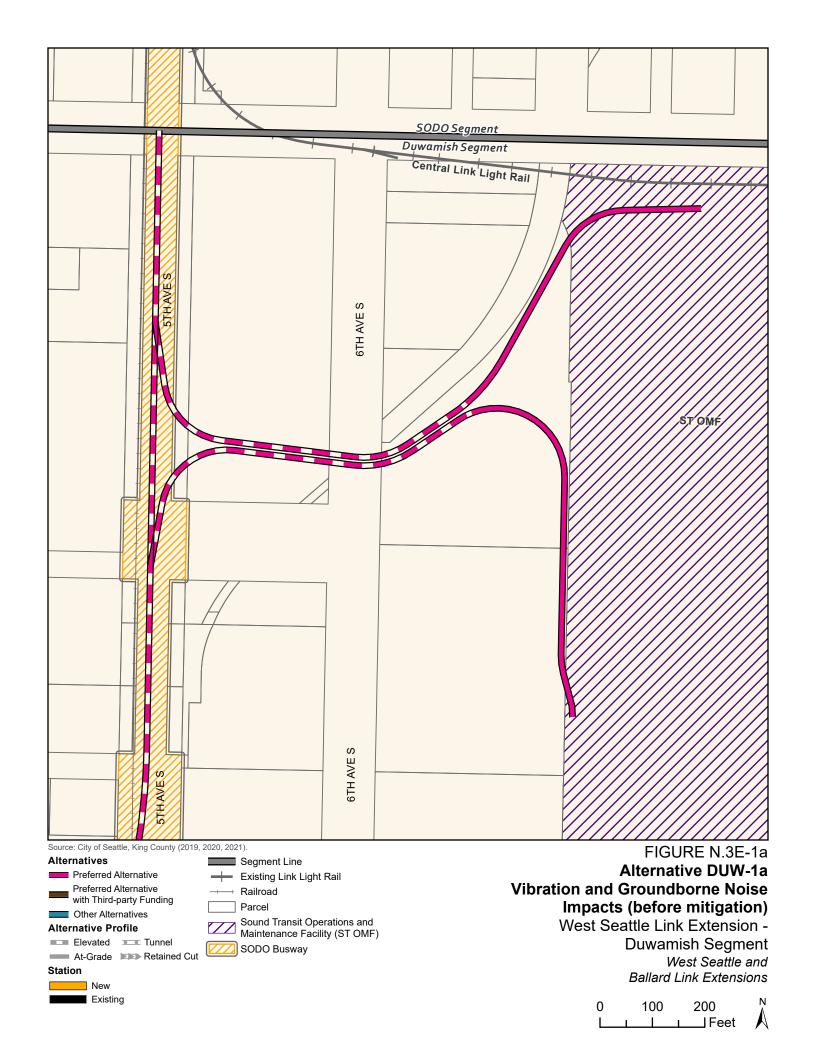




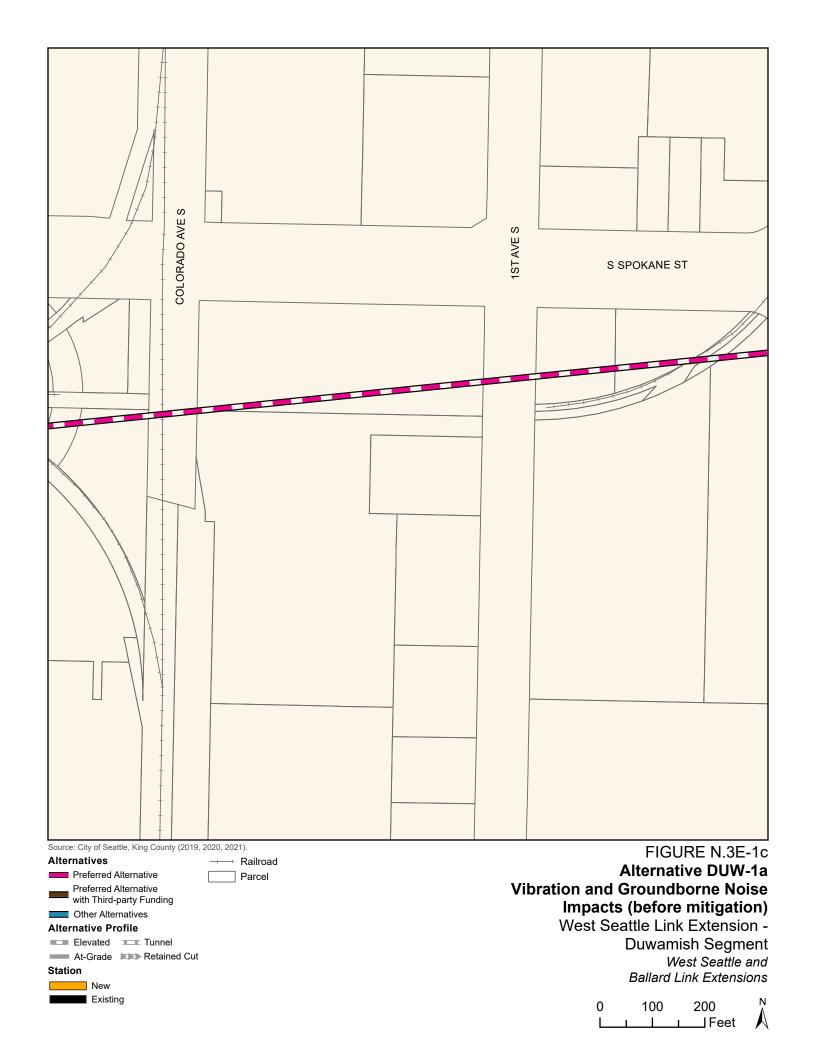


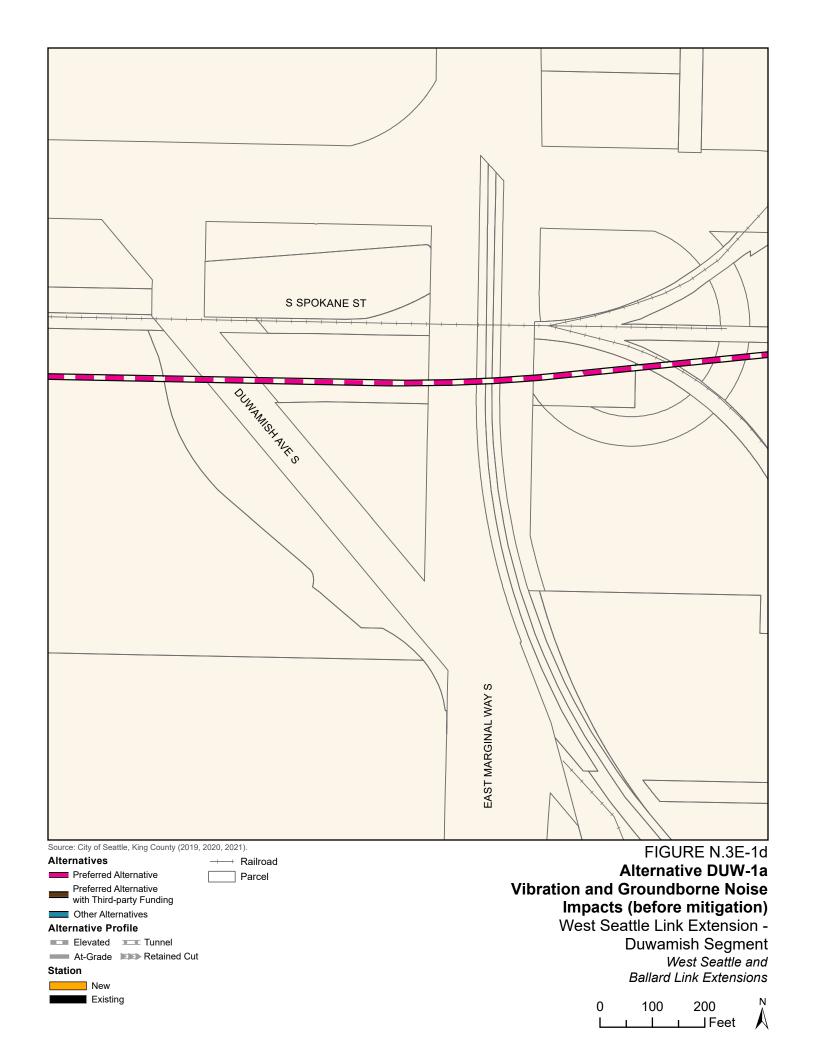


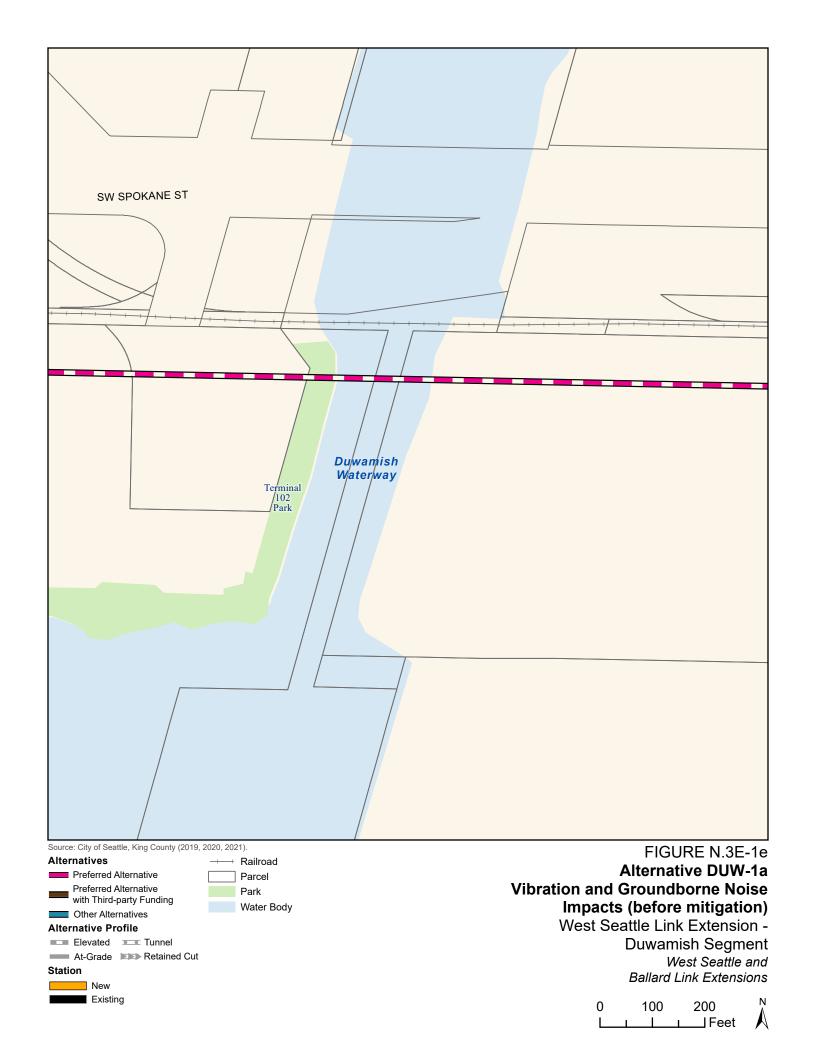
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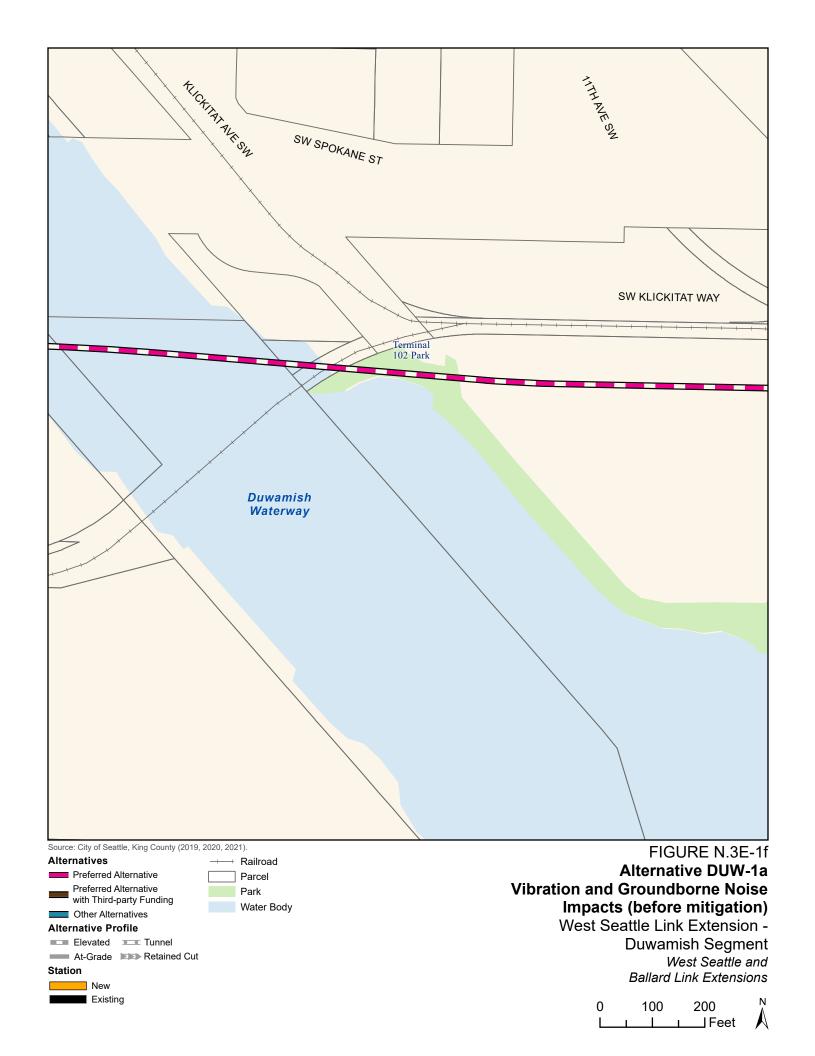




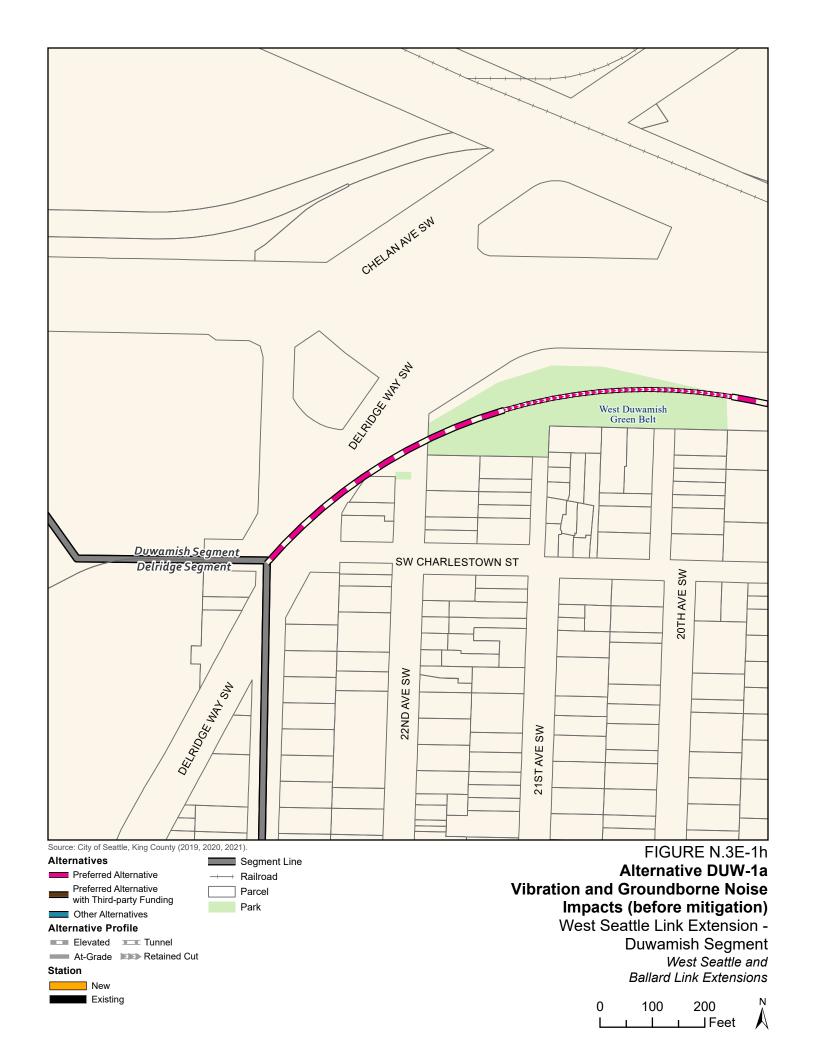


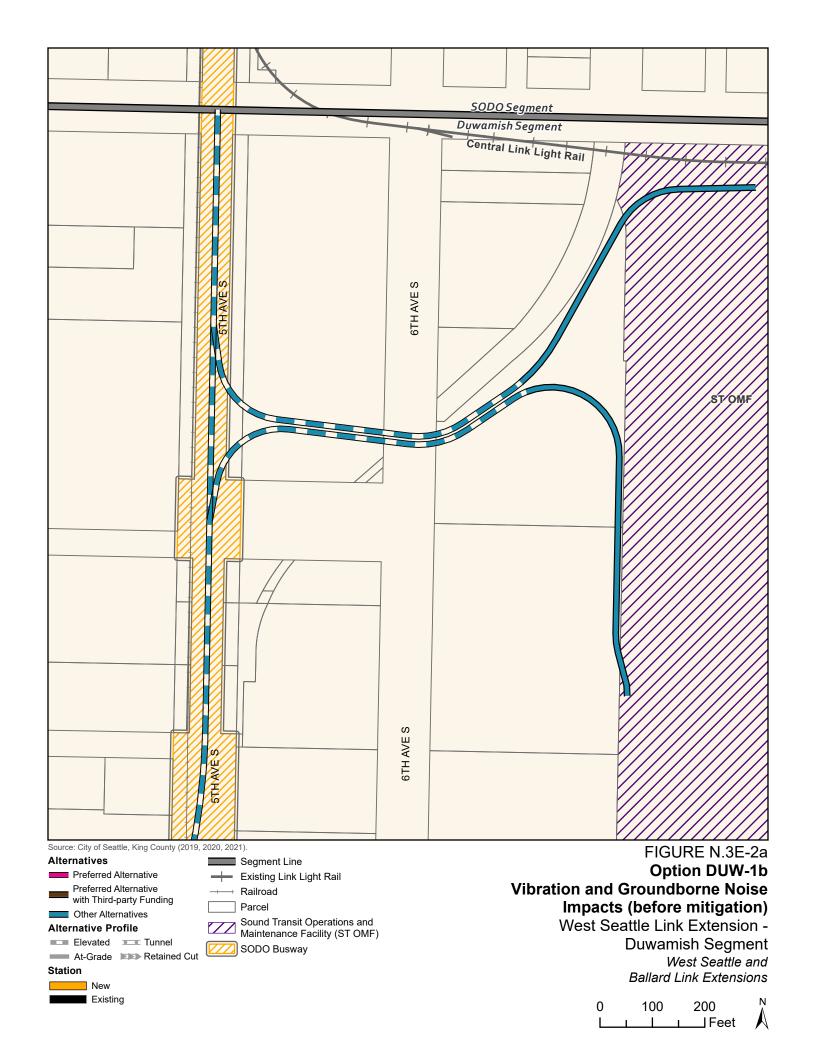






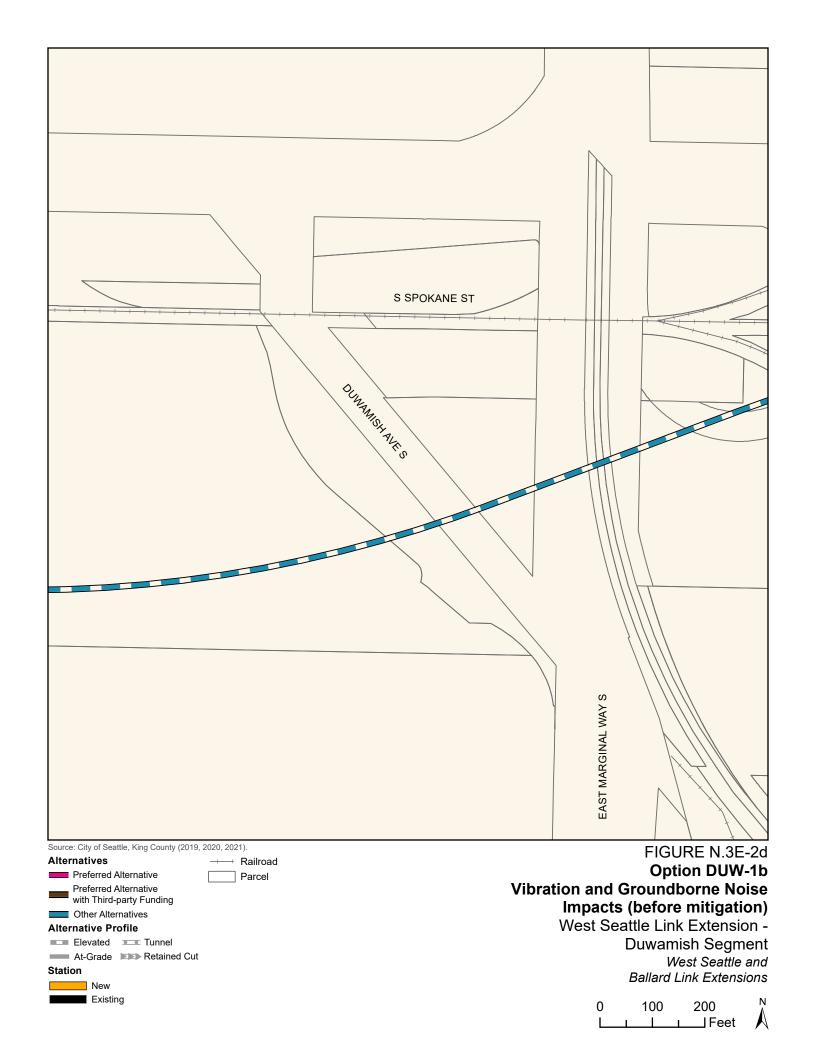


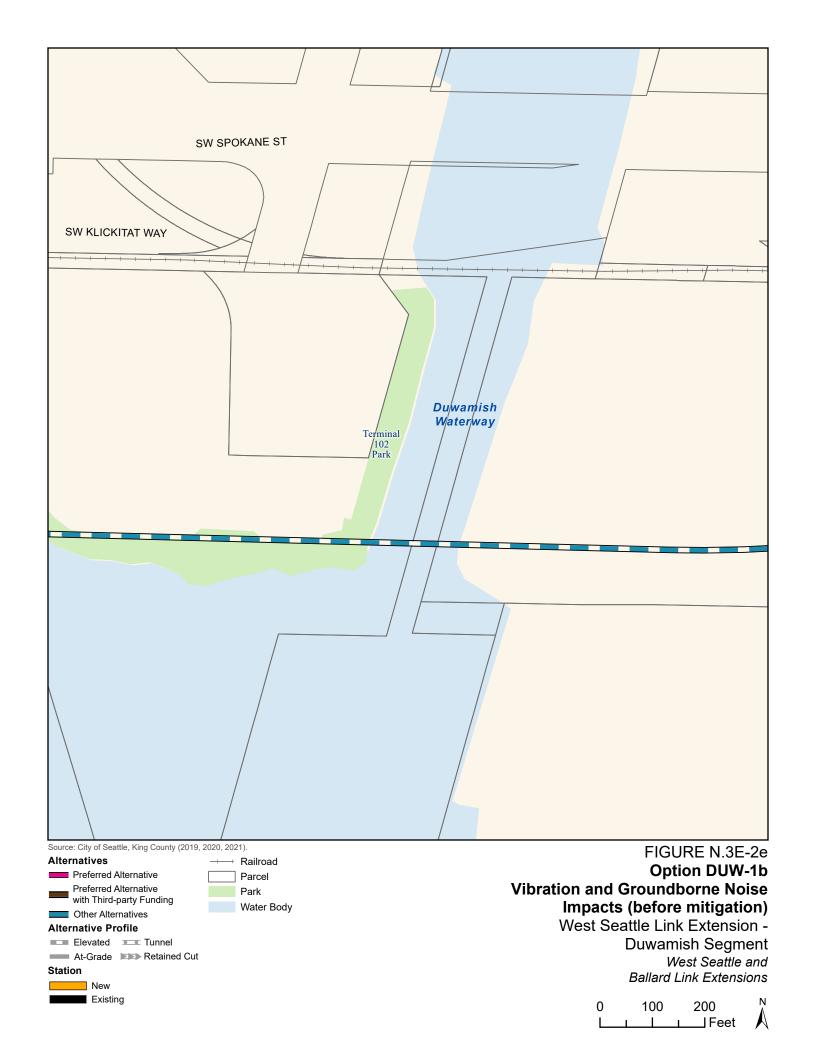


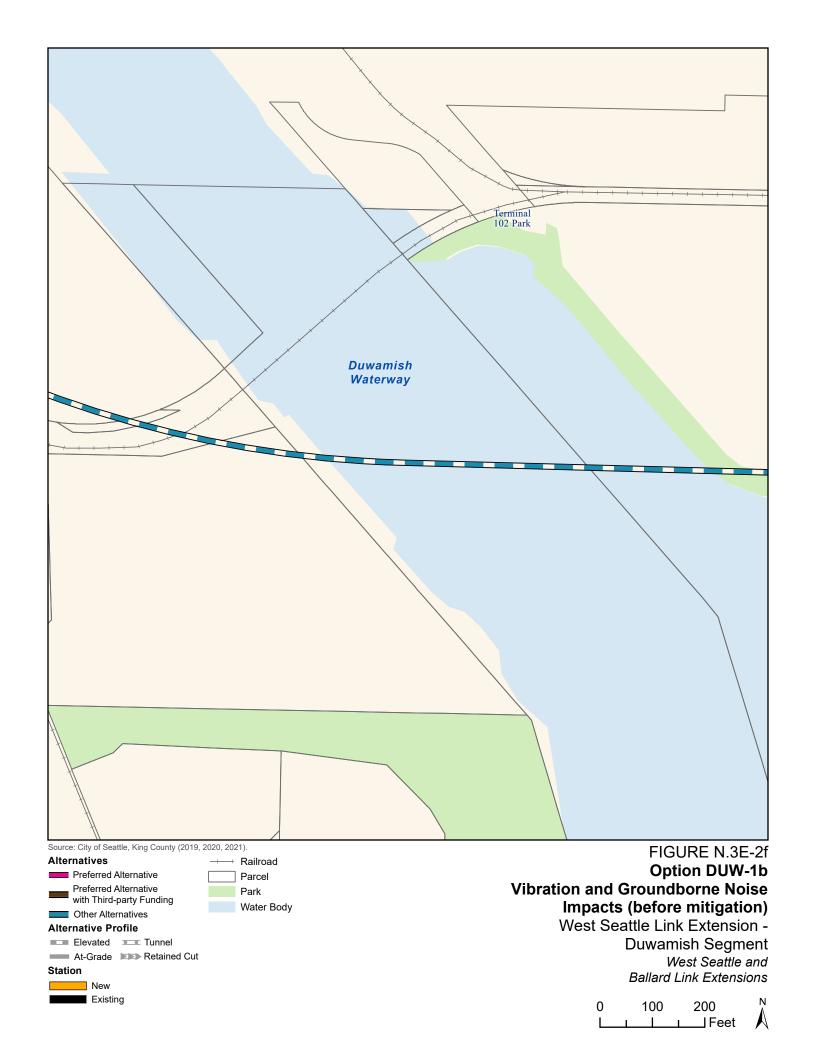


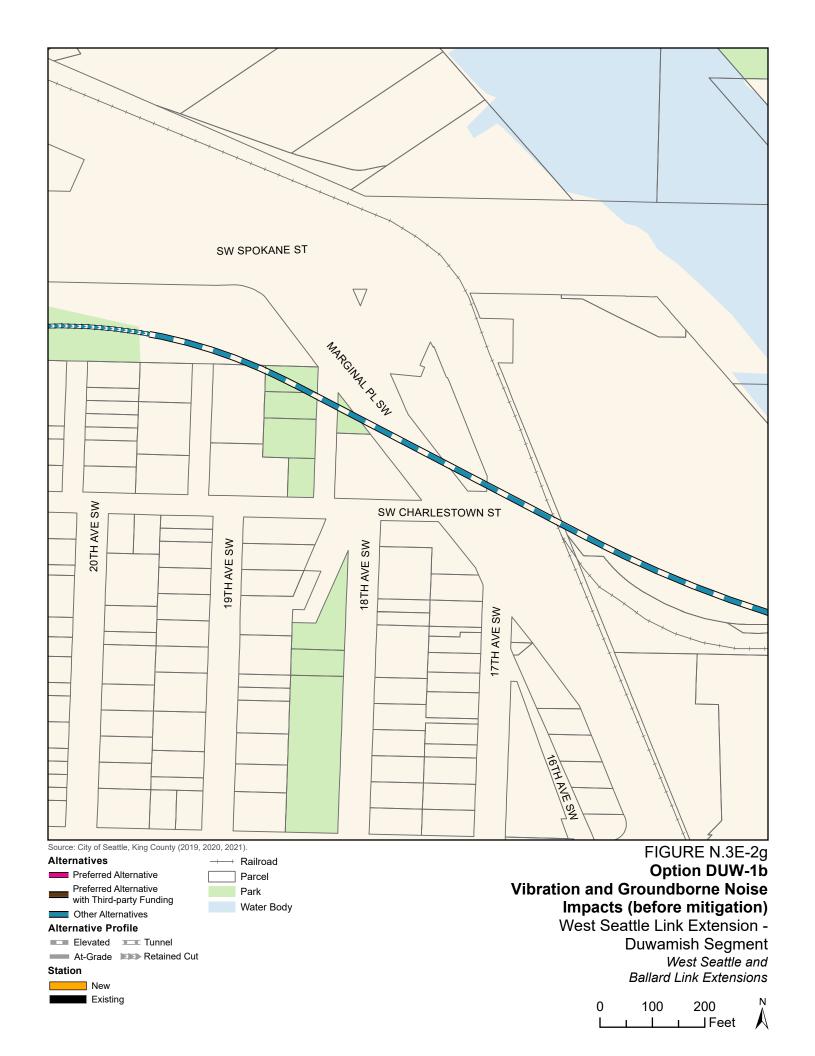




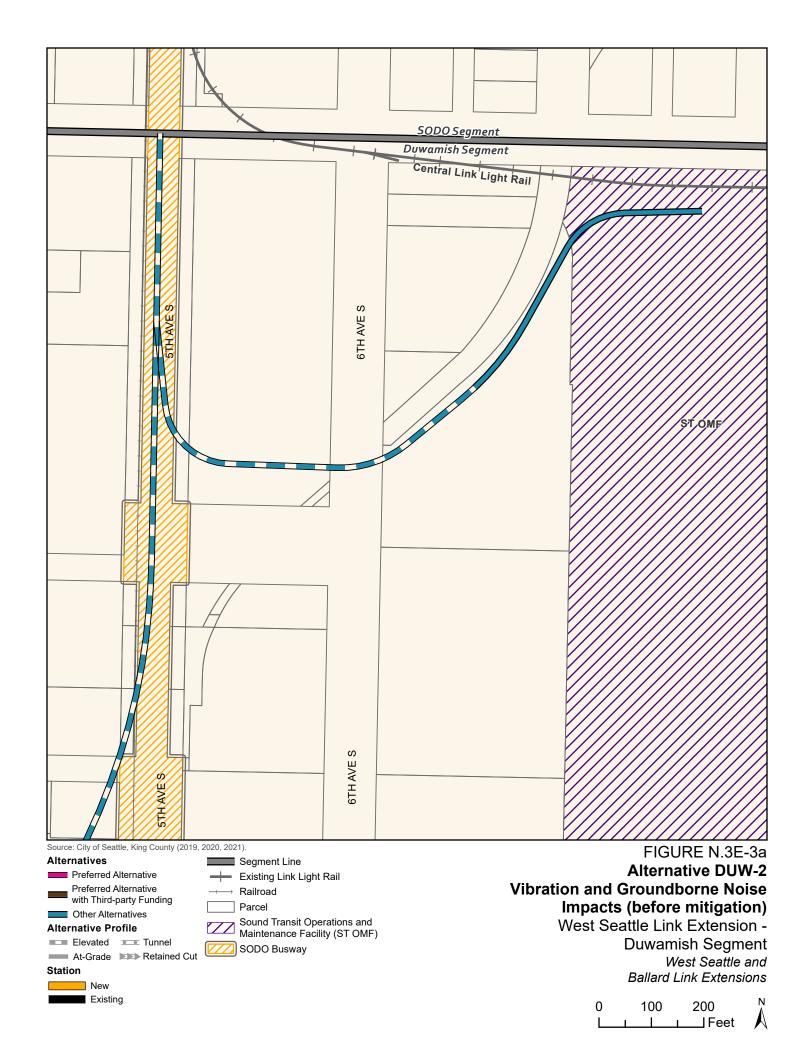




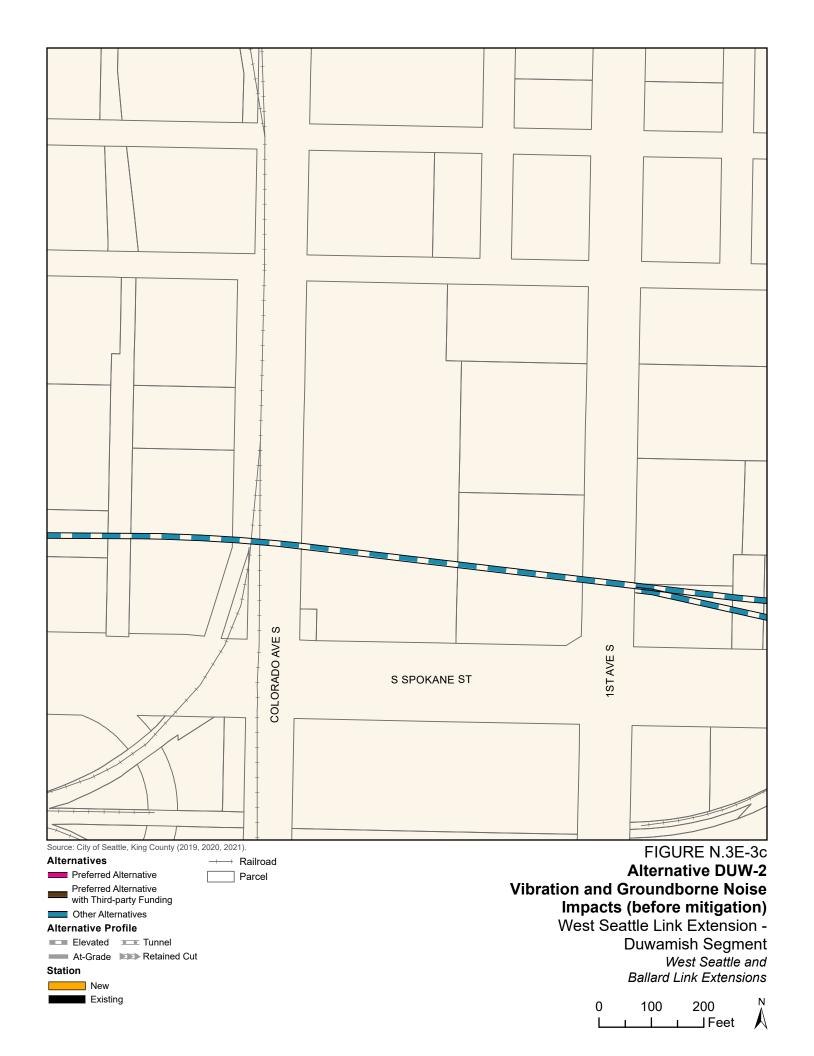




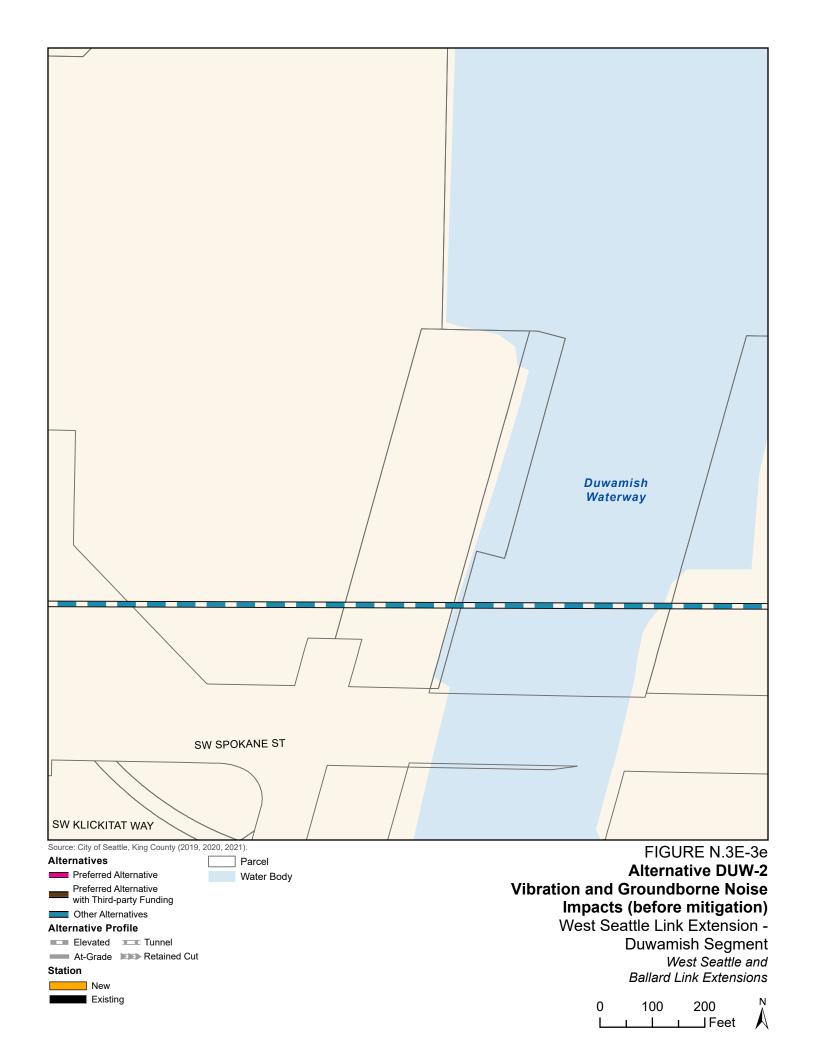




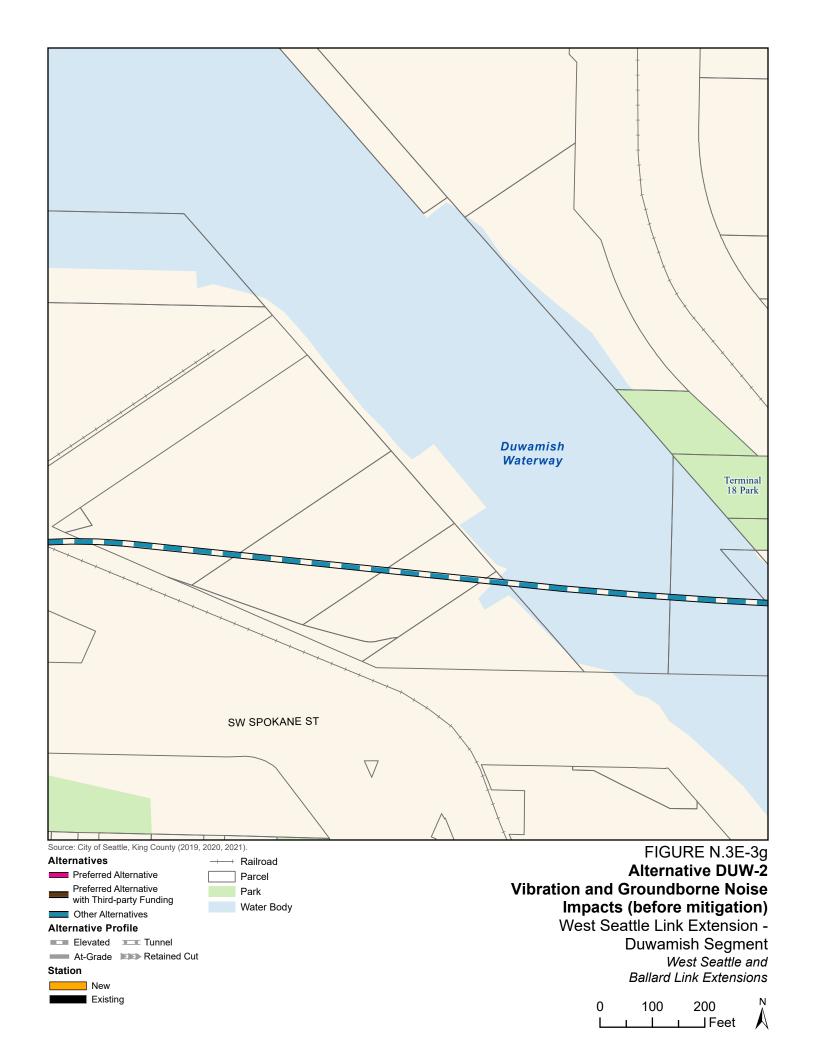


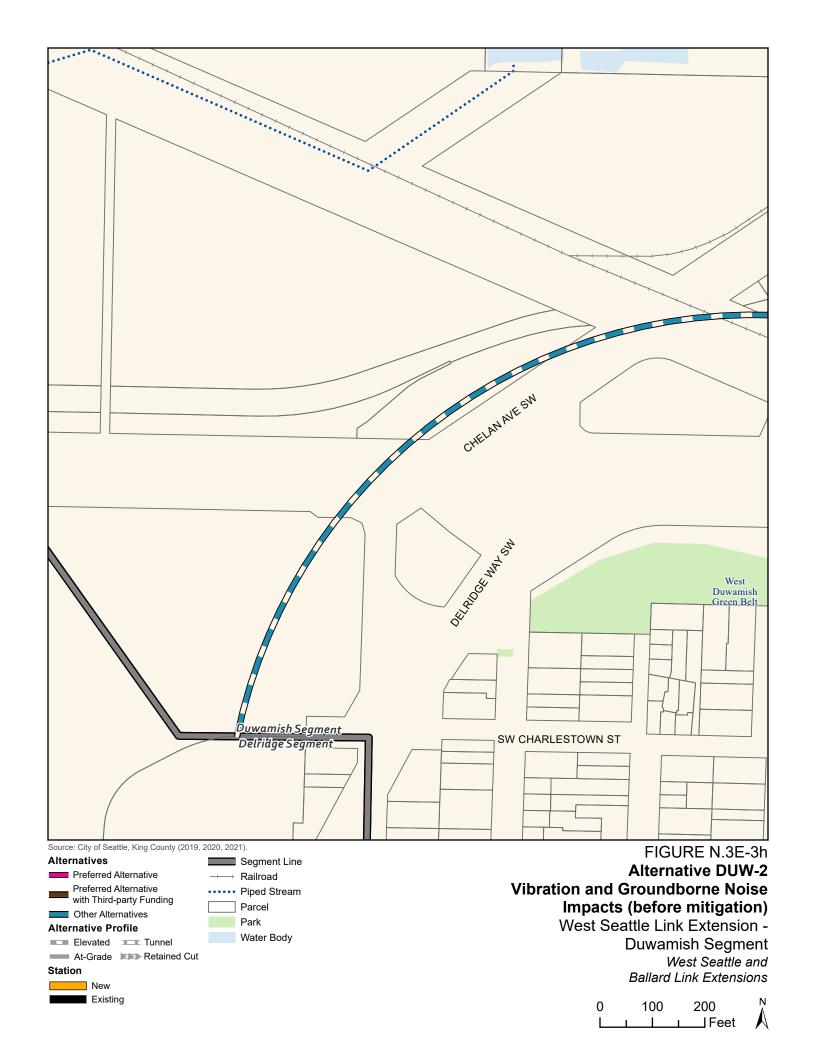






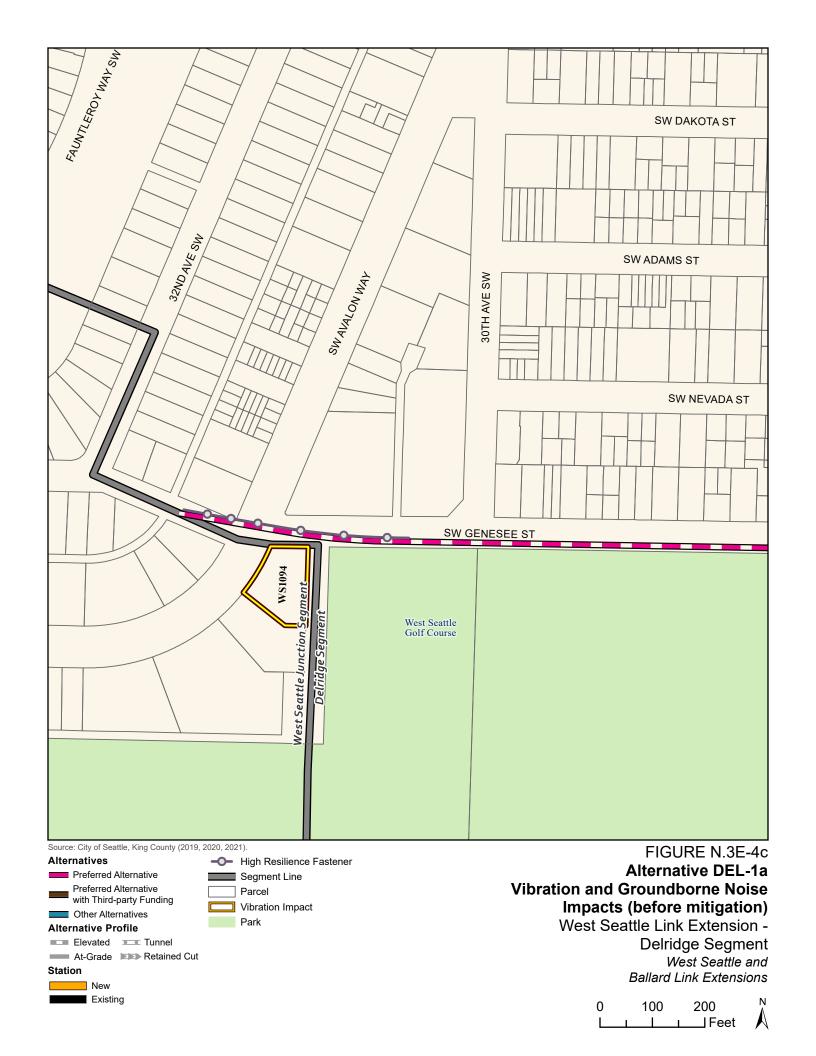






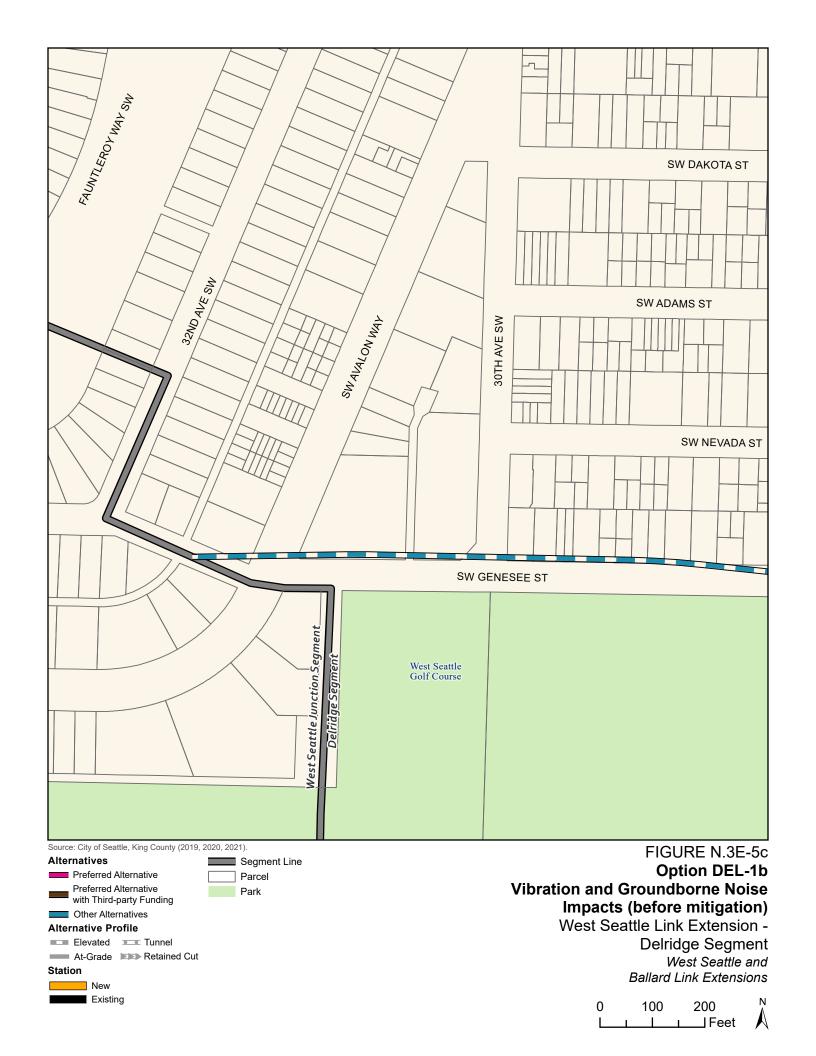


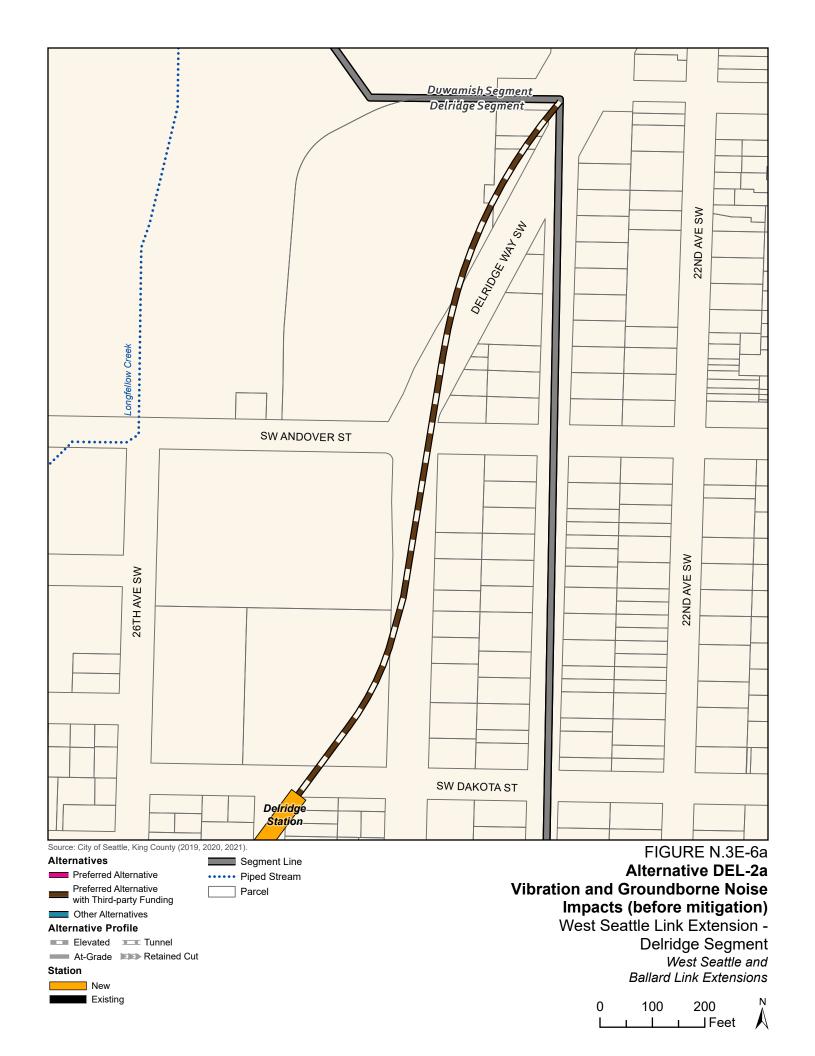


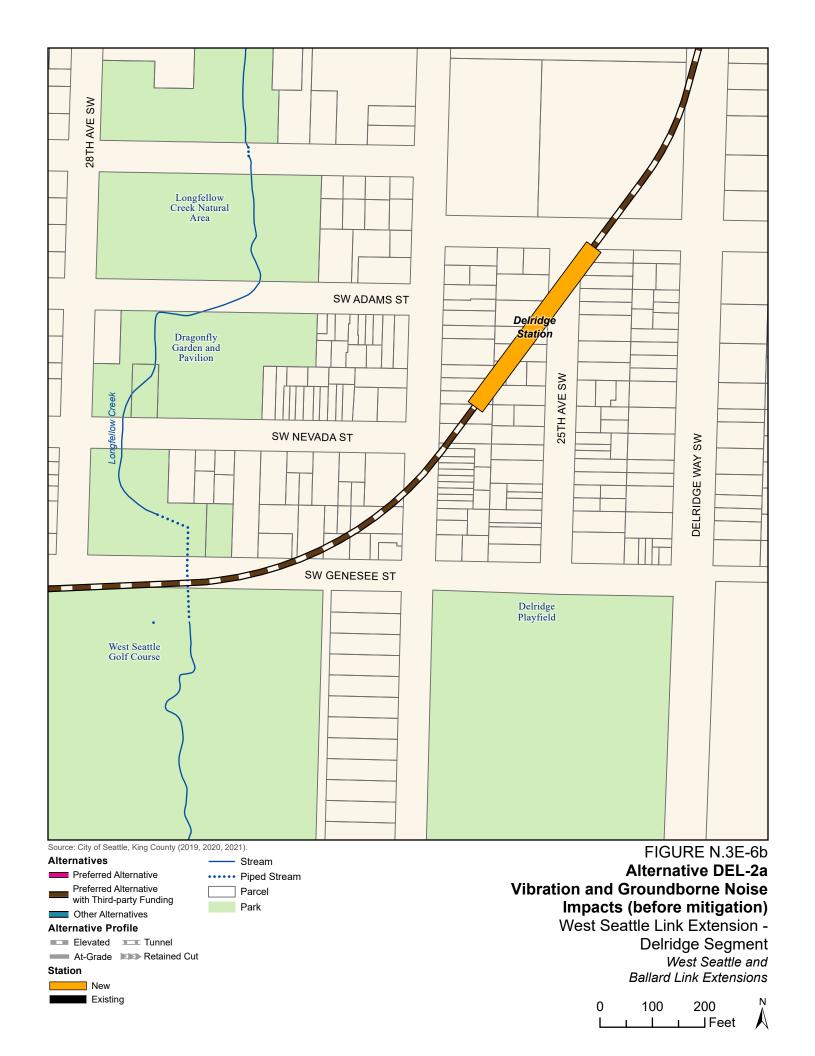


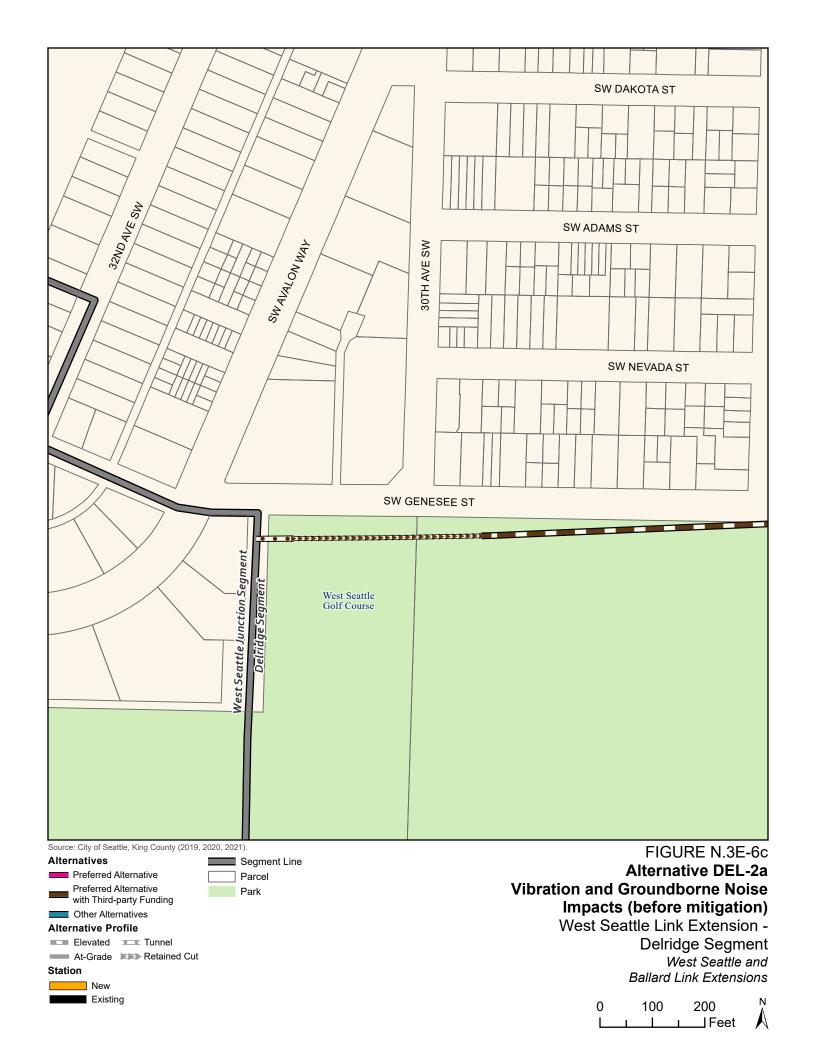


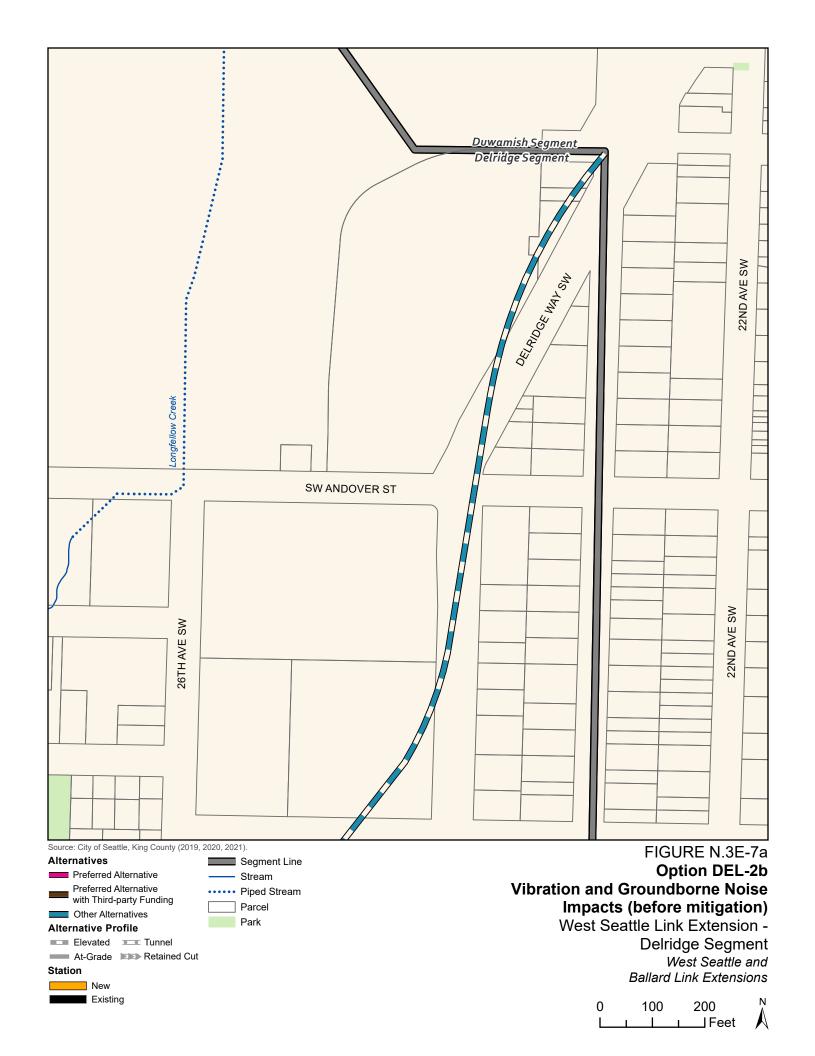


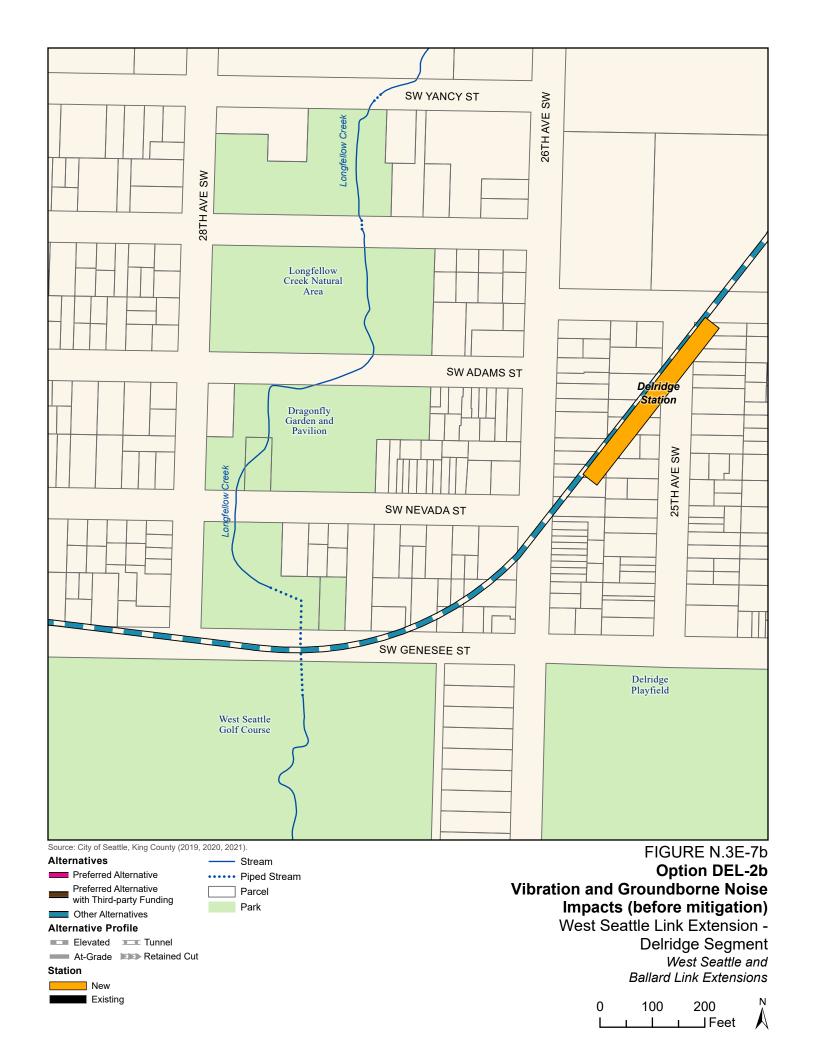


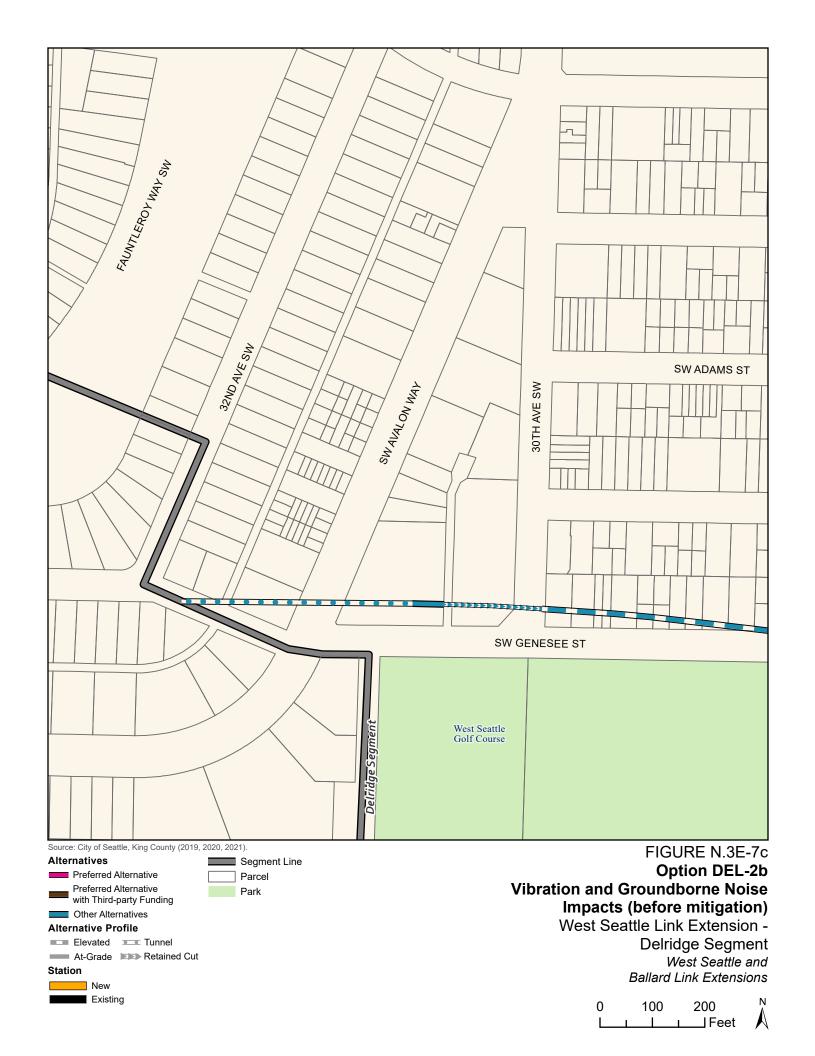


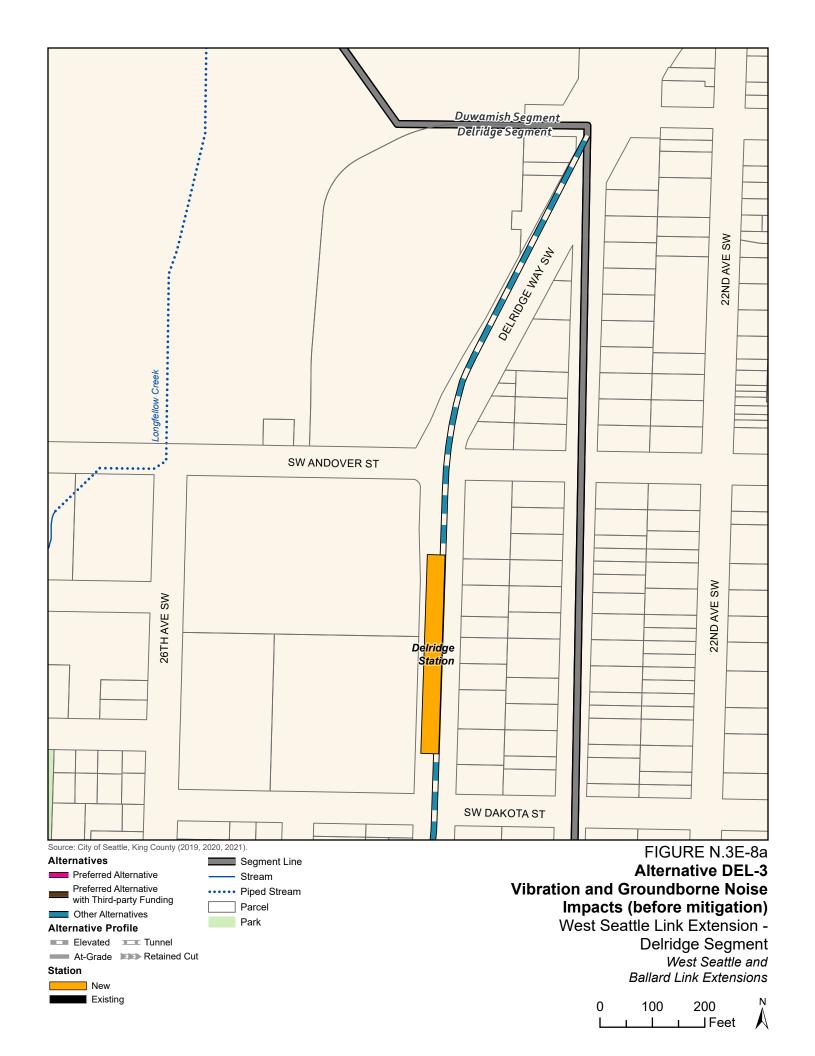


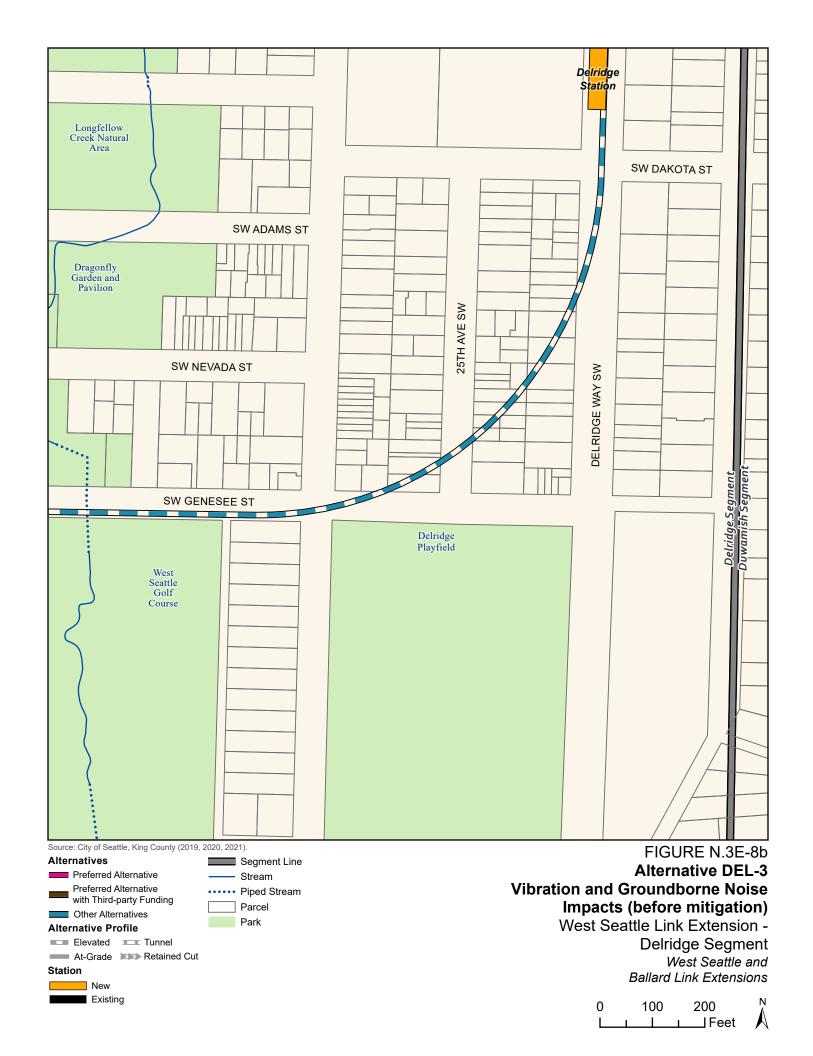


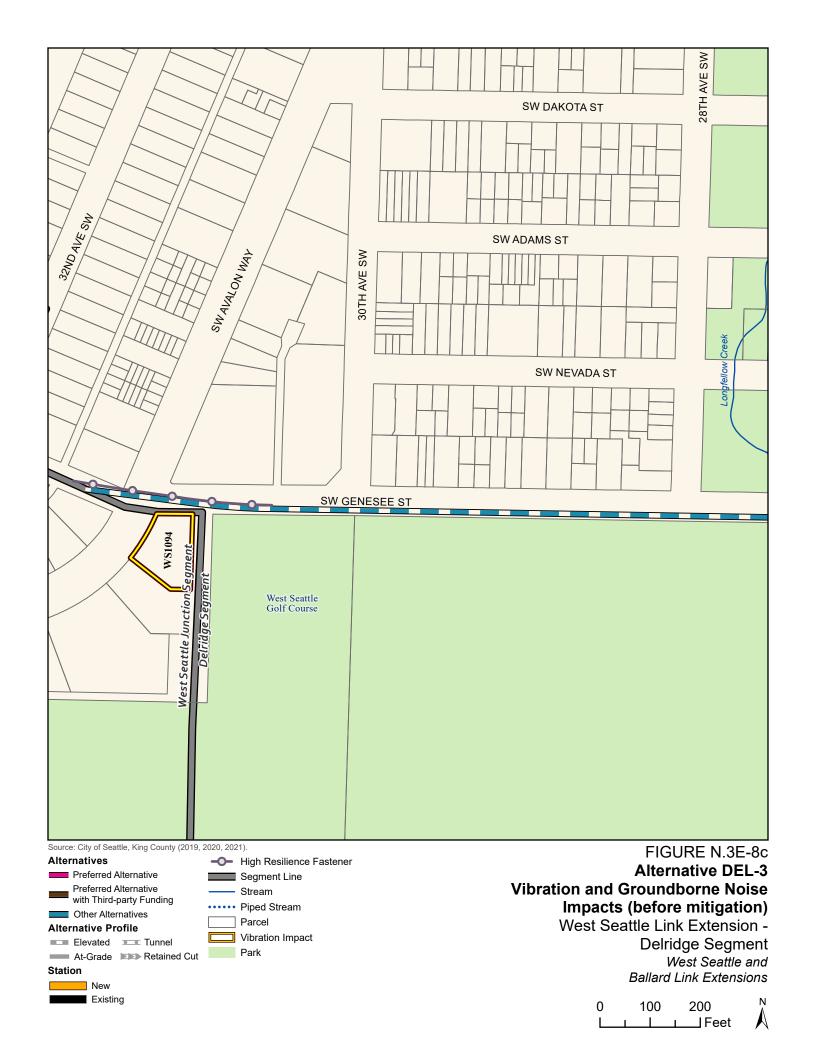


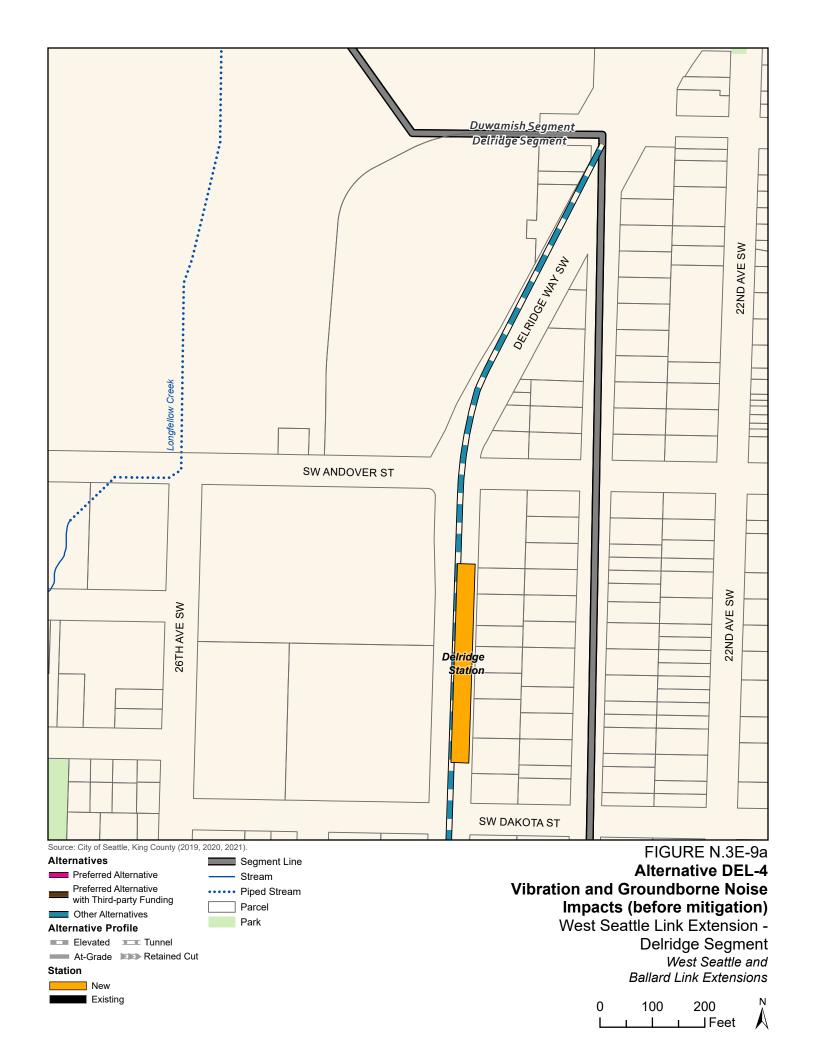




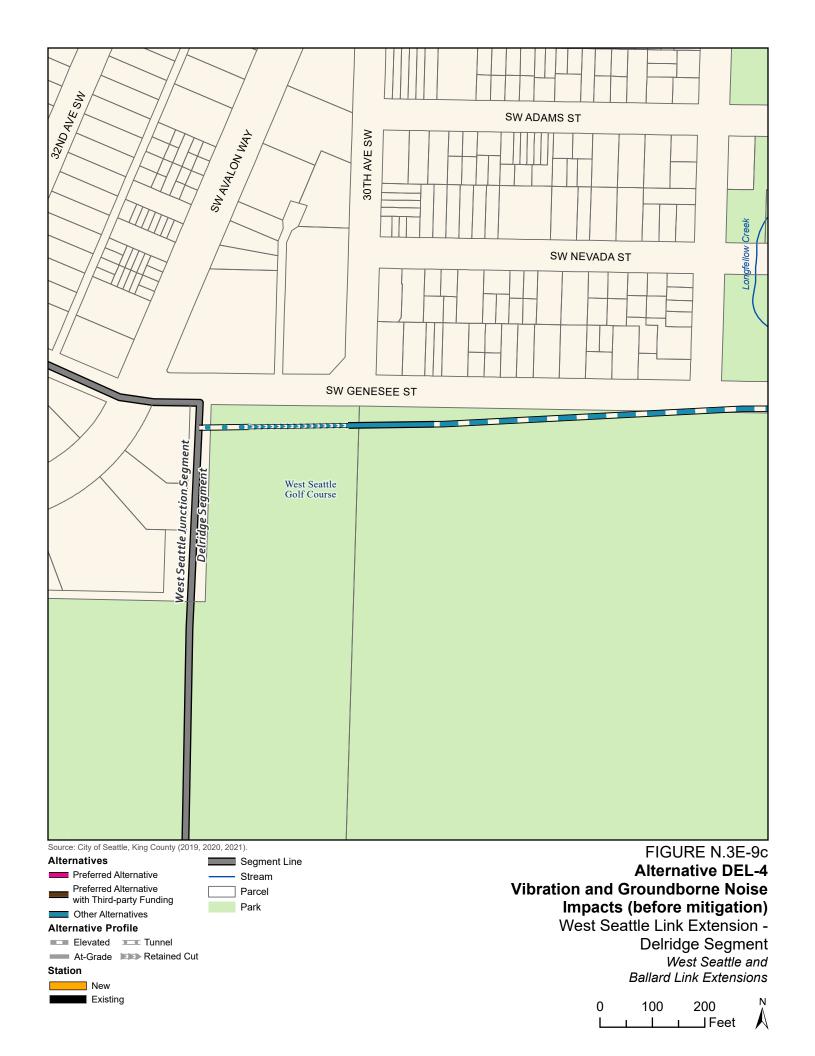


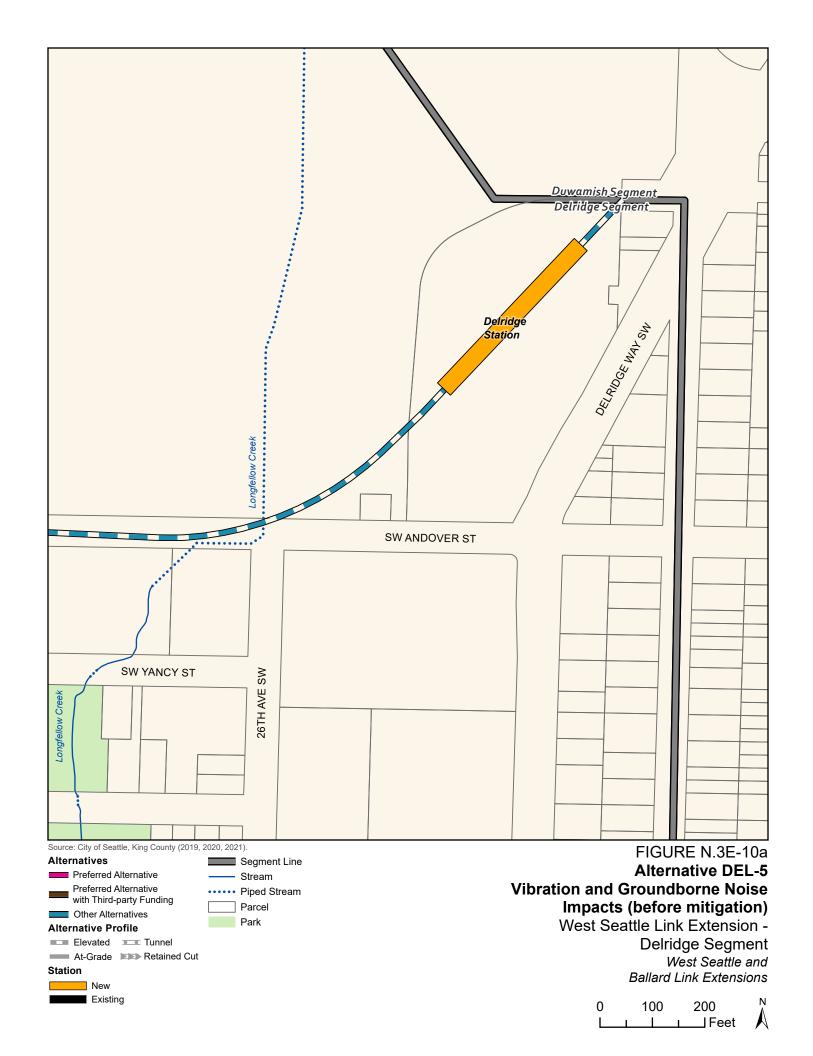






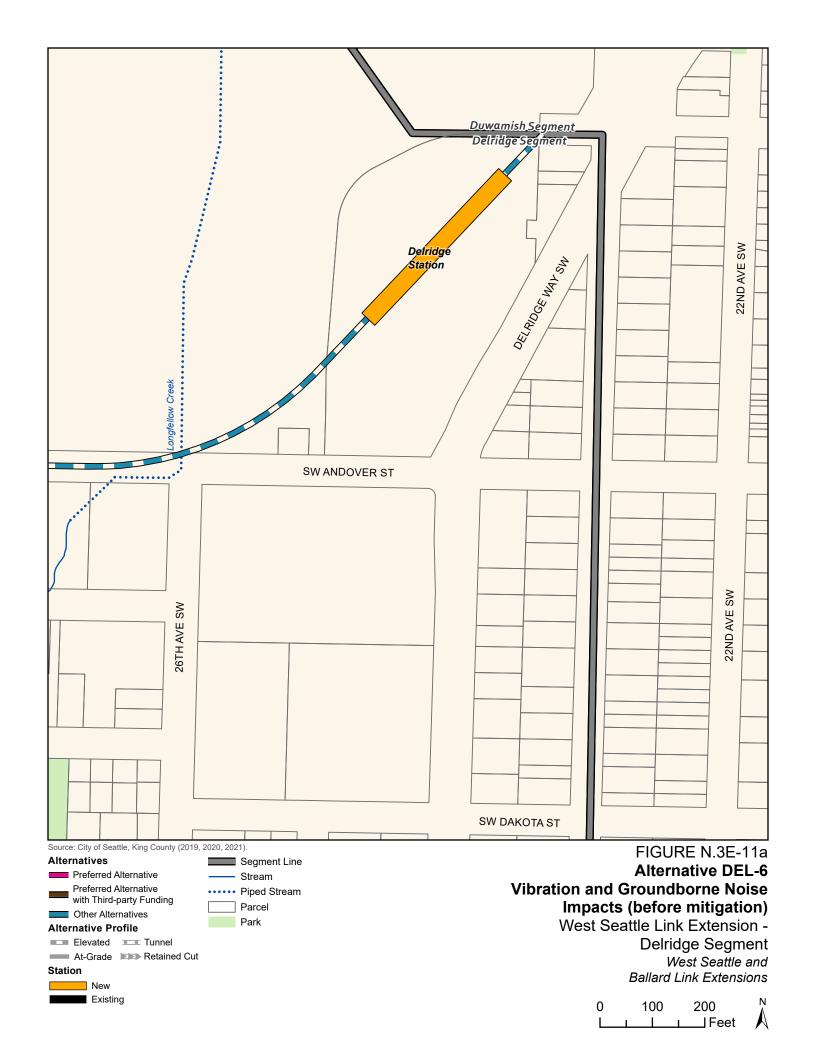


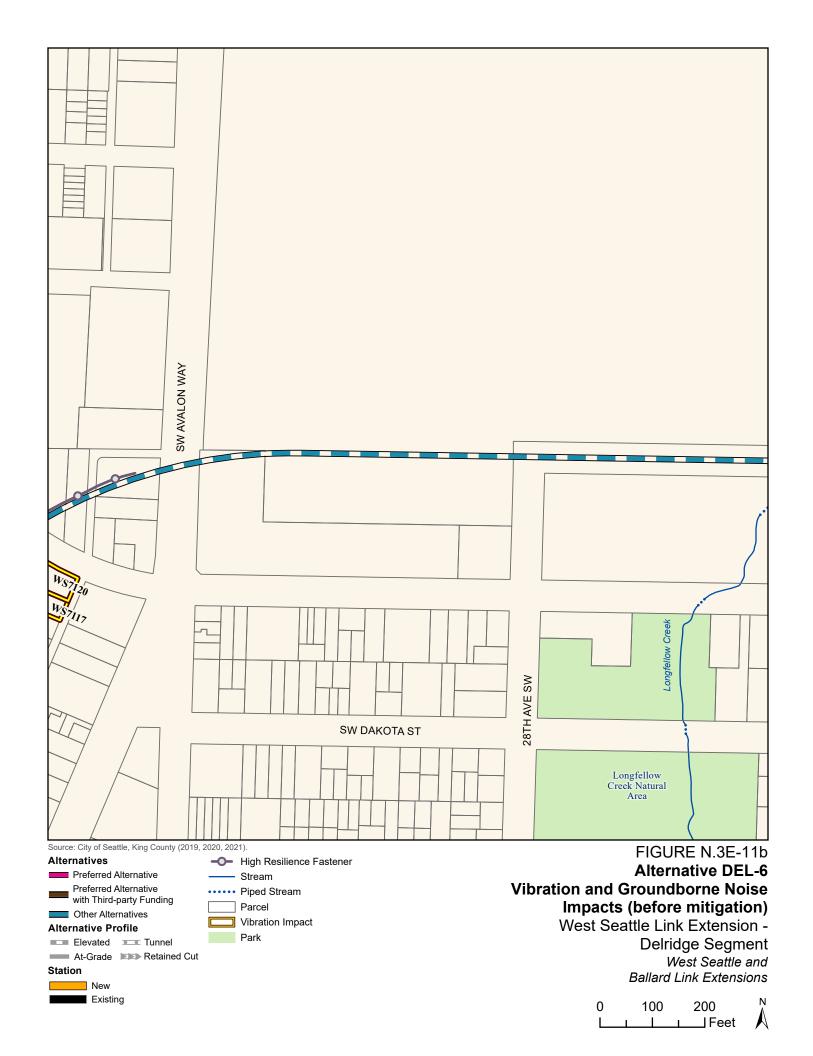




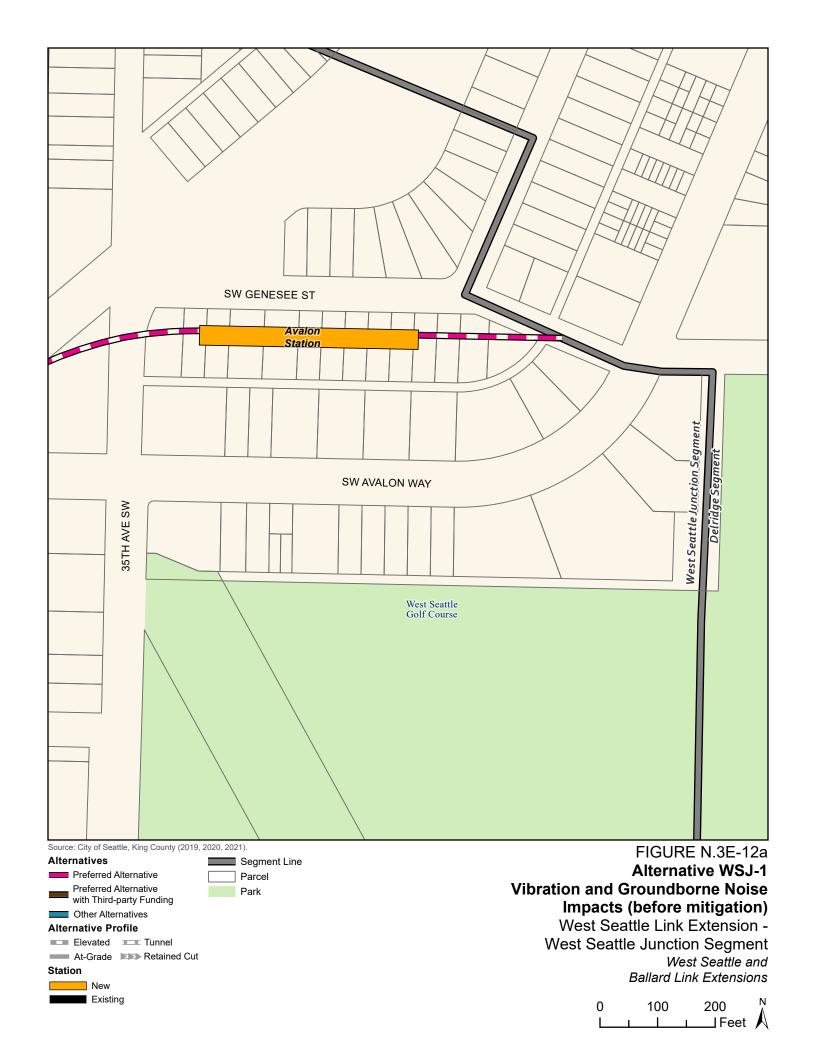




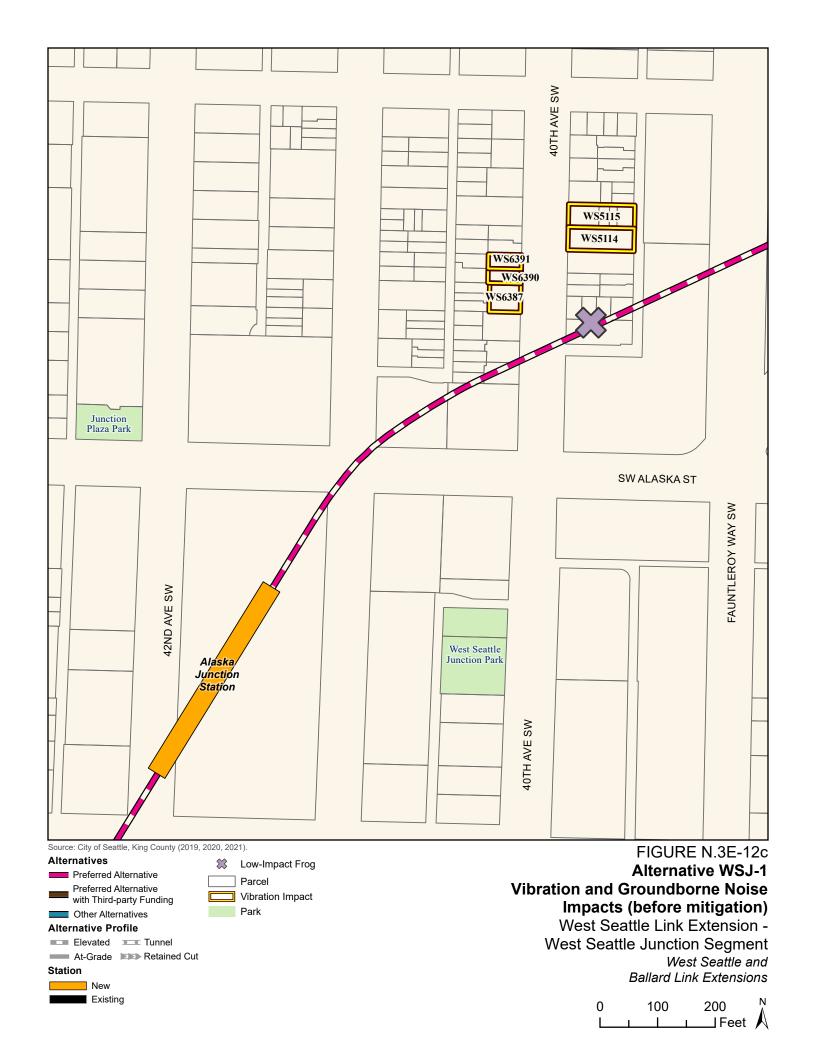












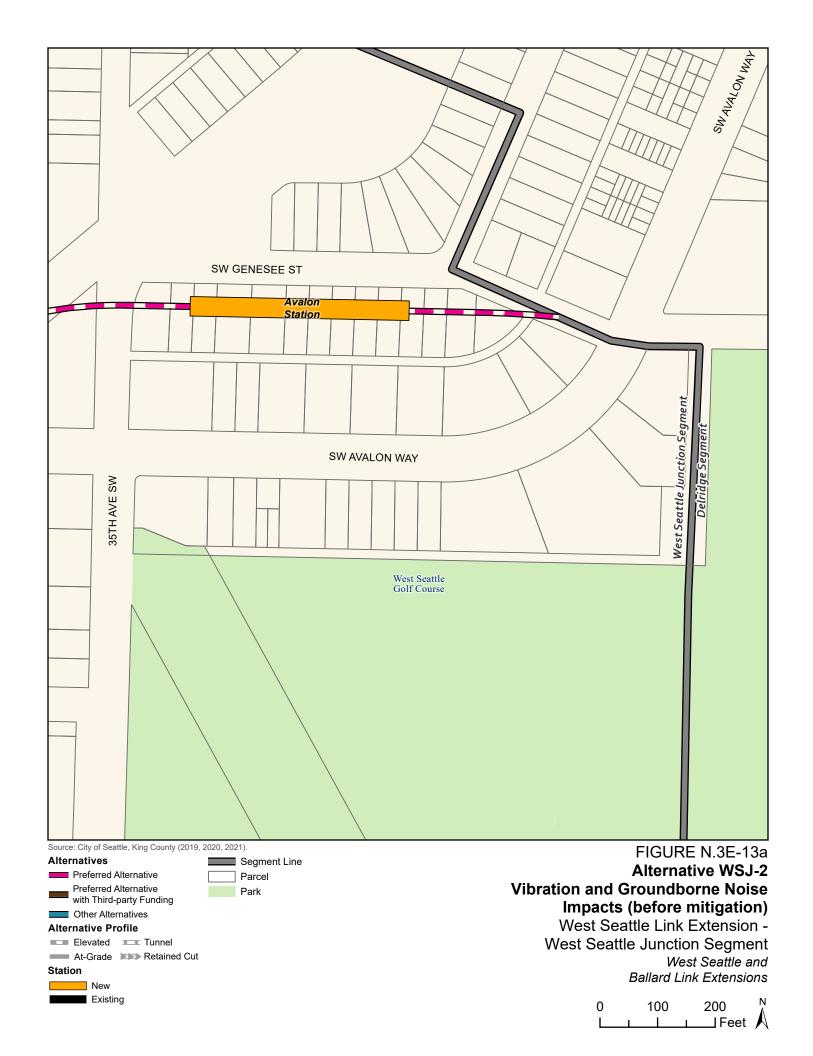


Other Alternatives **Alternative Profile** Elevated Tunnel At-Grade Retained Cut Station New Existing

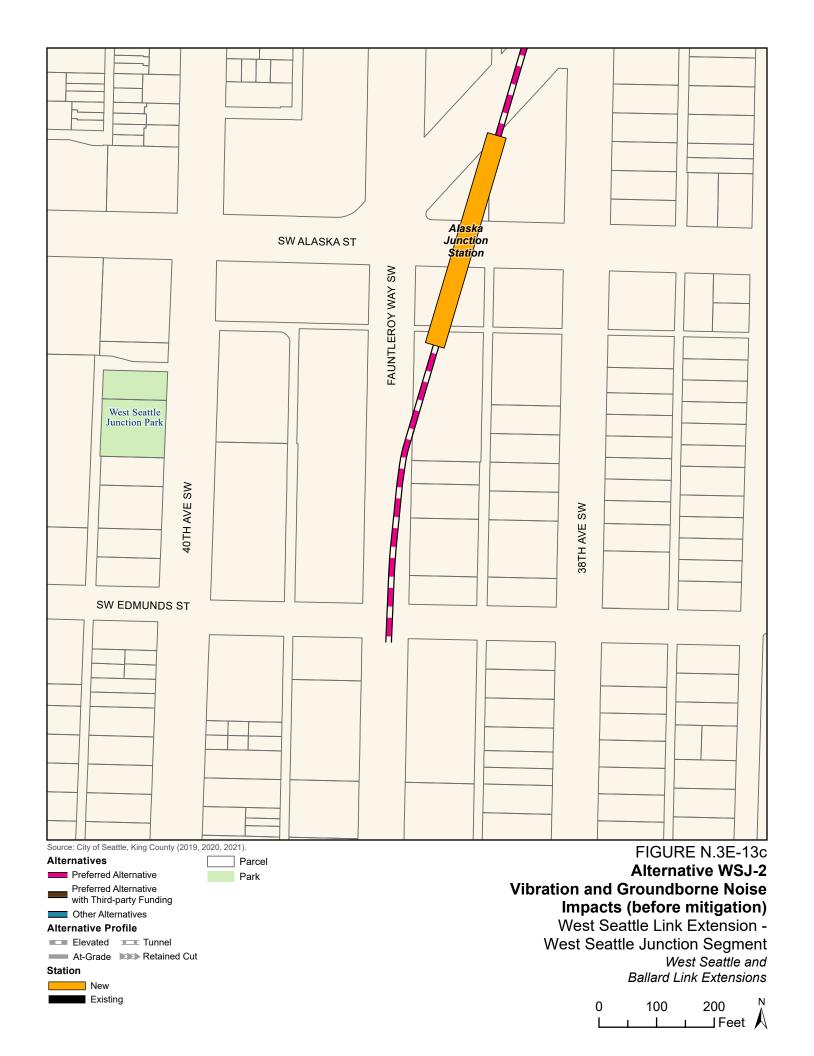
West Seattle Link Extension -

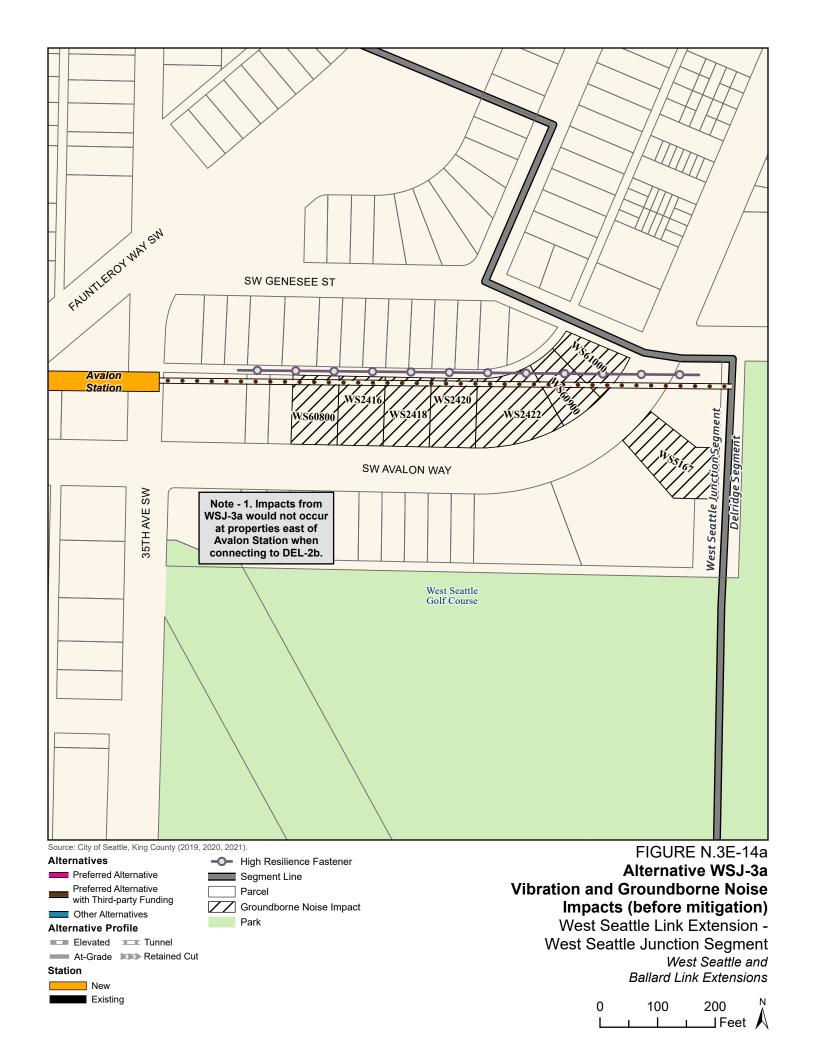
West Seattle Junction Segment West Seattle and Ballard Link Extensions

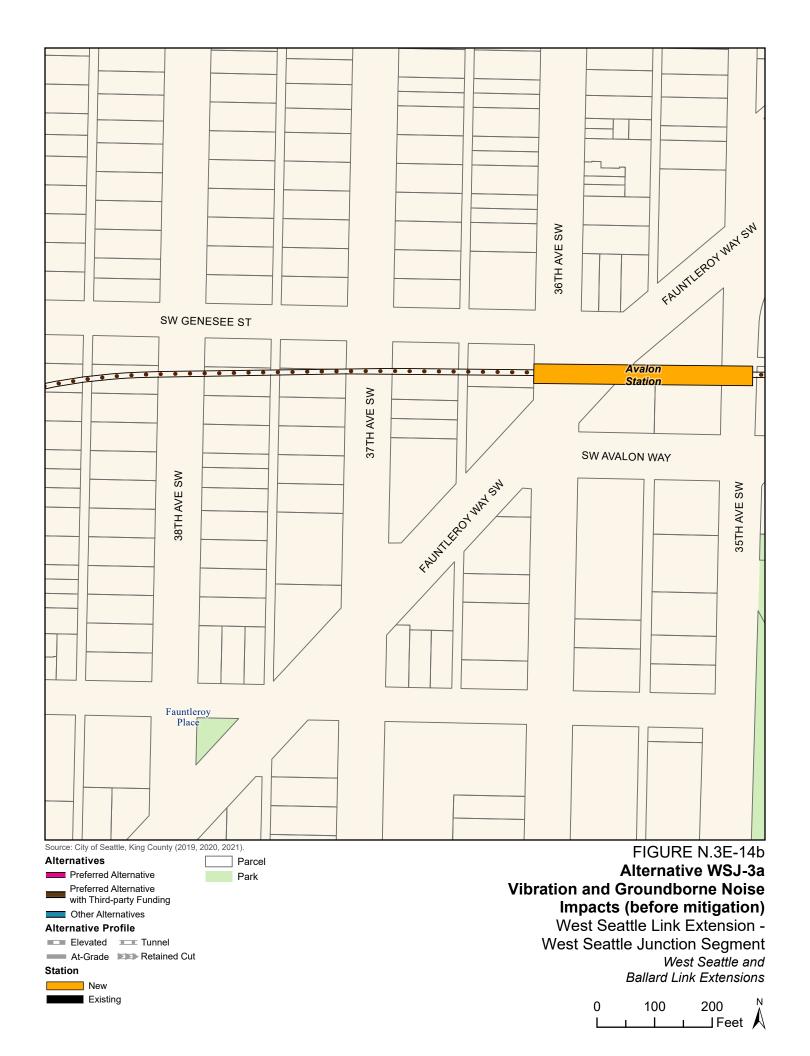
> 100 200 ____Feet 🙏

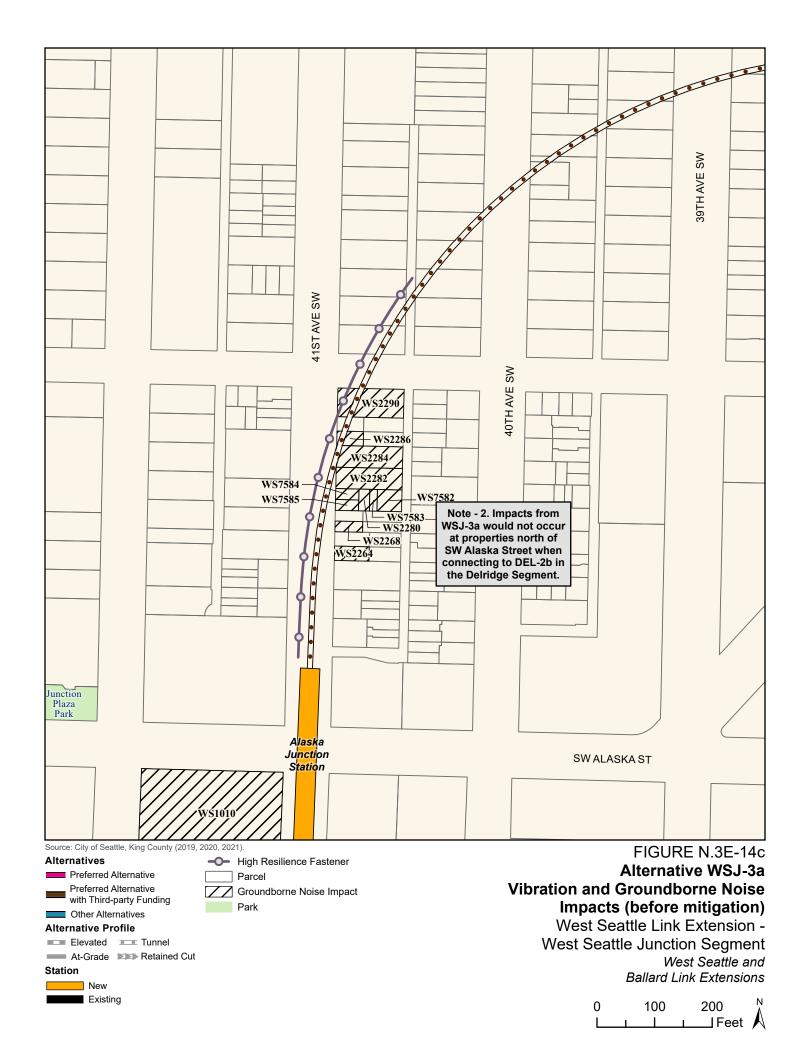


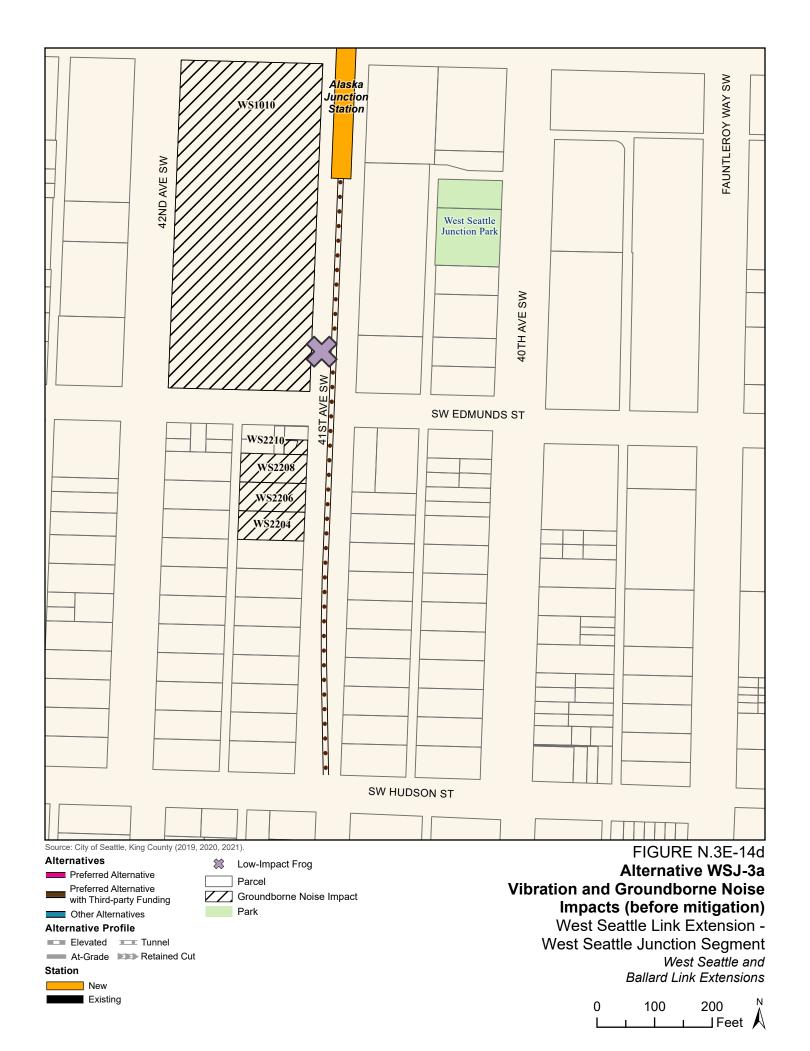


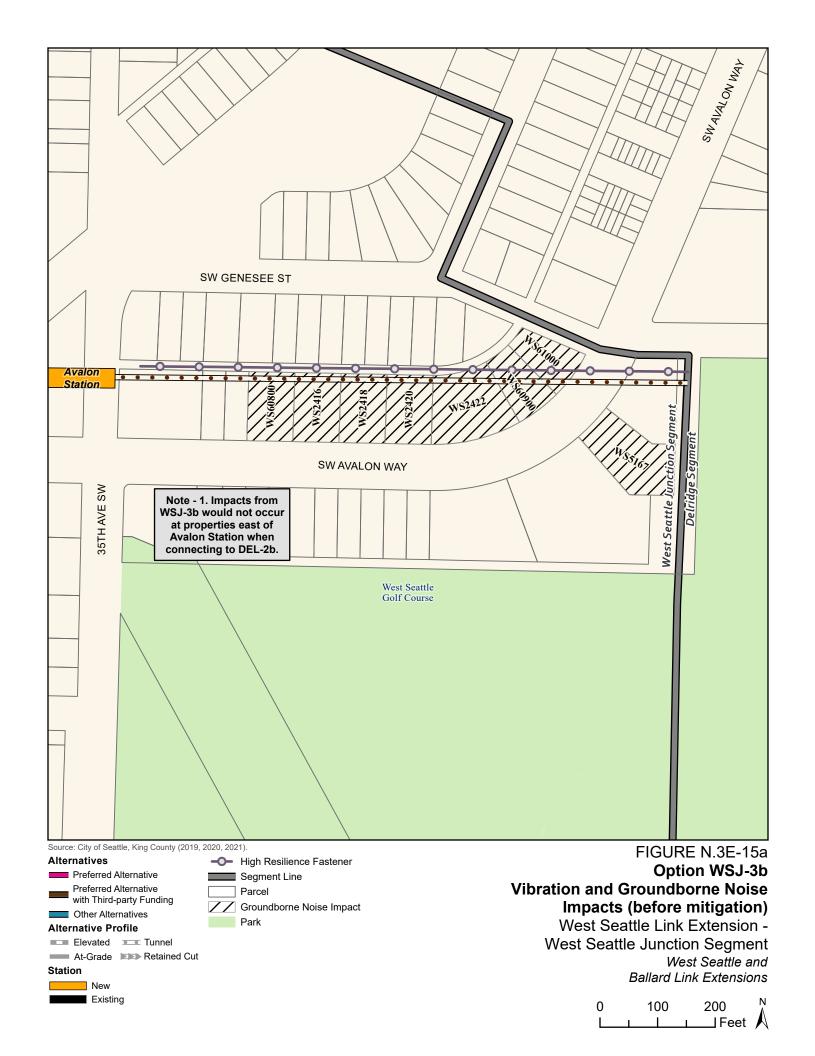




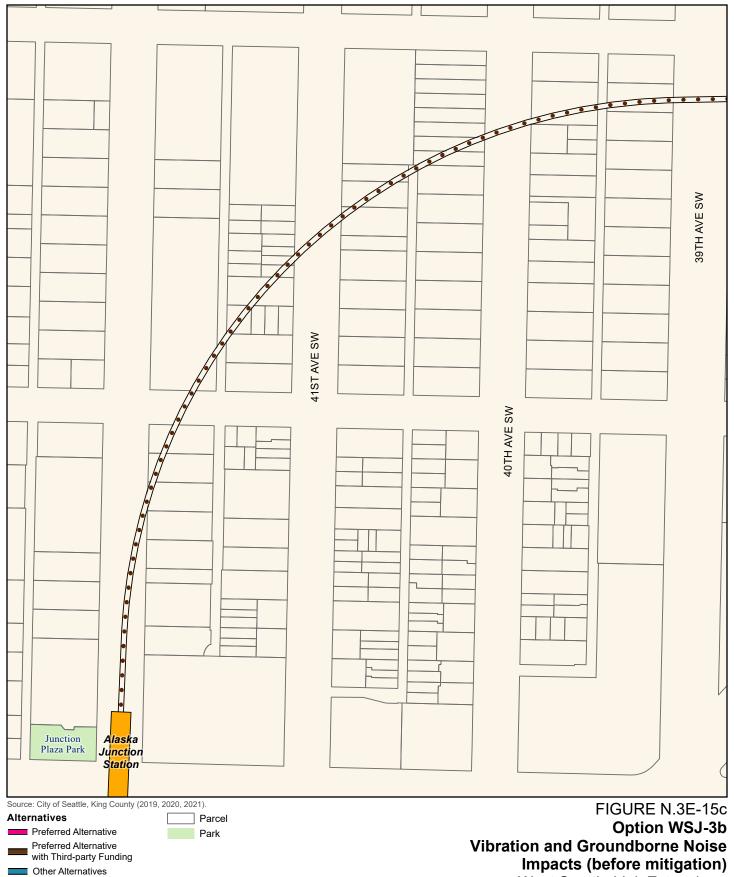












Alternative Profile

Elevated Tunnel

At-Grade Retained Cut

Station

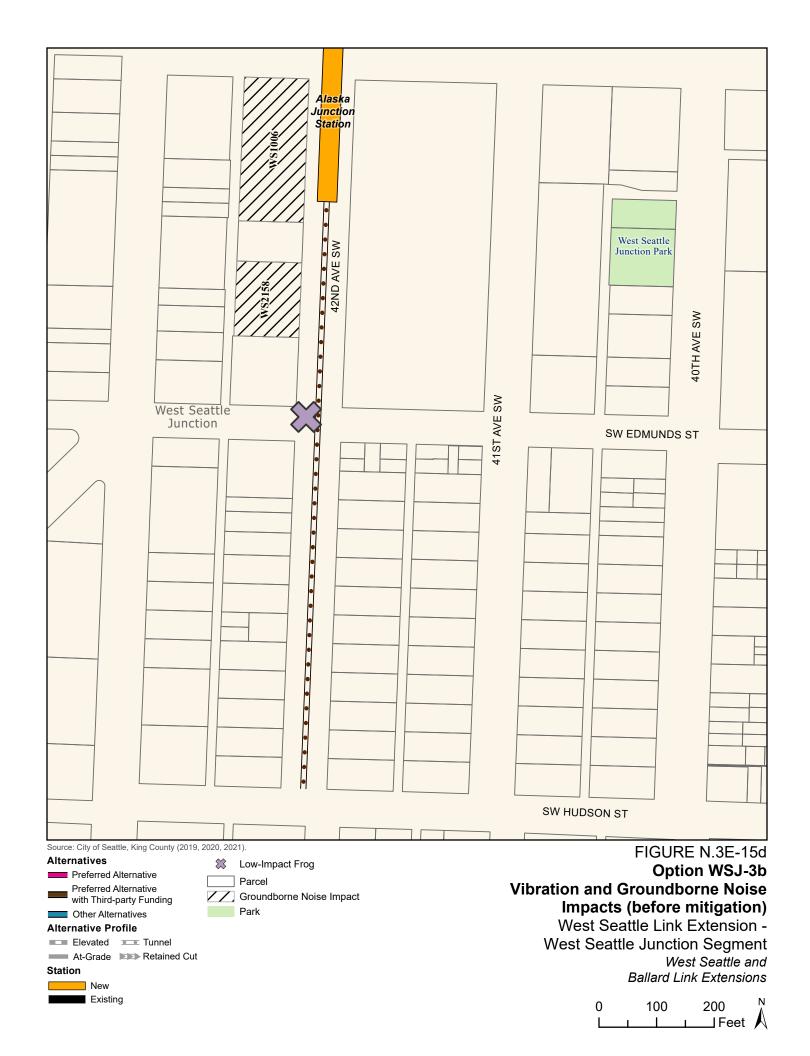
New

New

Existing

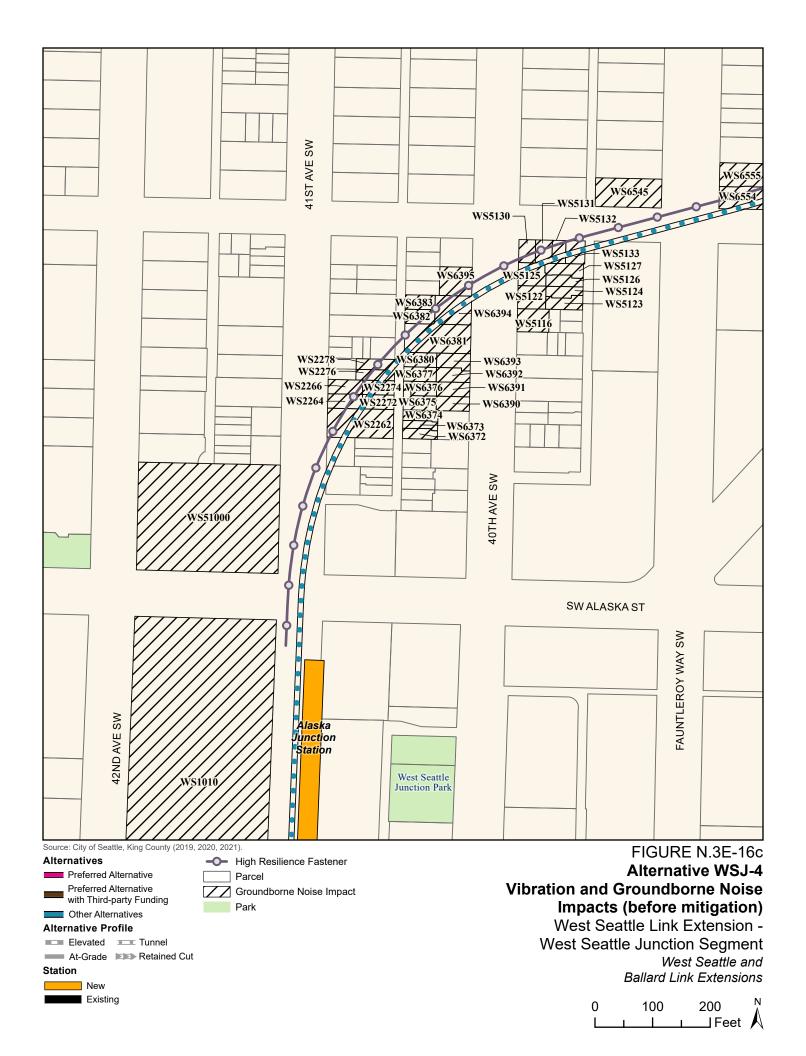
West Seattle Link Extension West Seattle Junction Segment

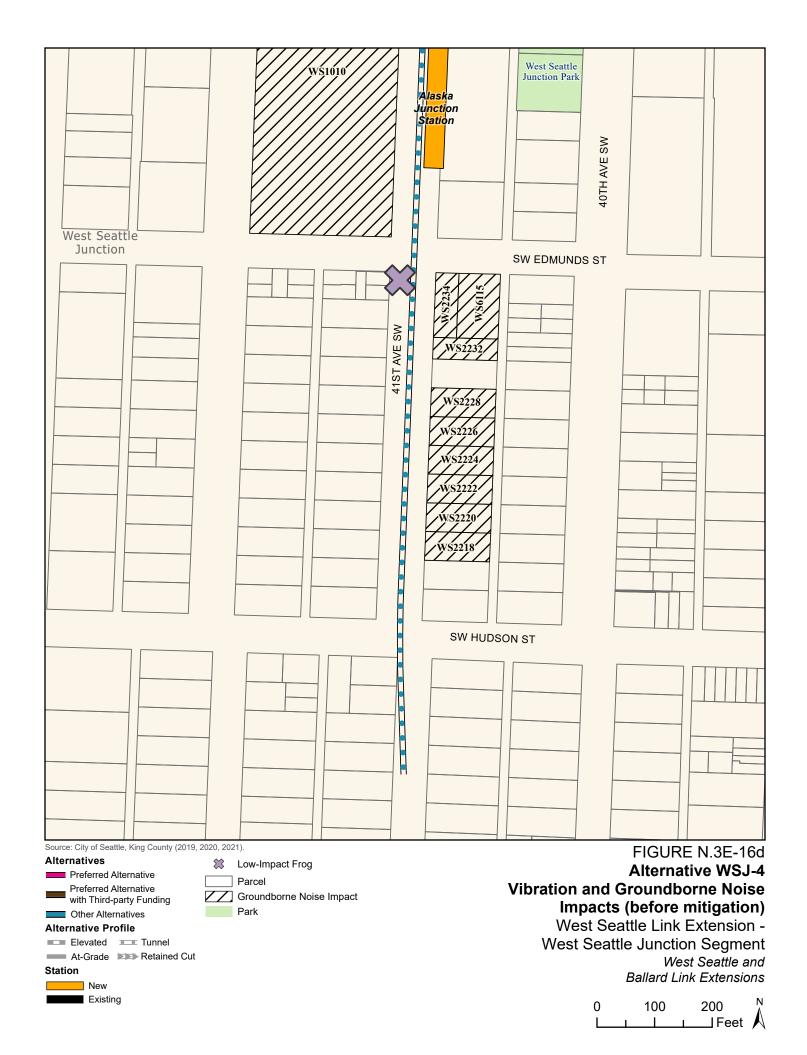
West Seattle and
Ballard Link Extensions



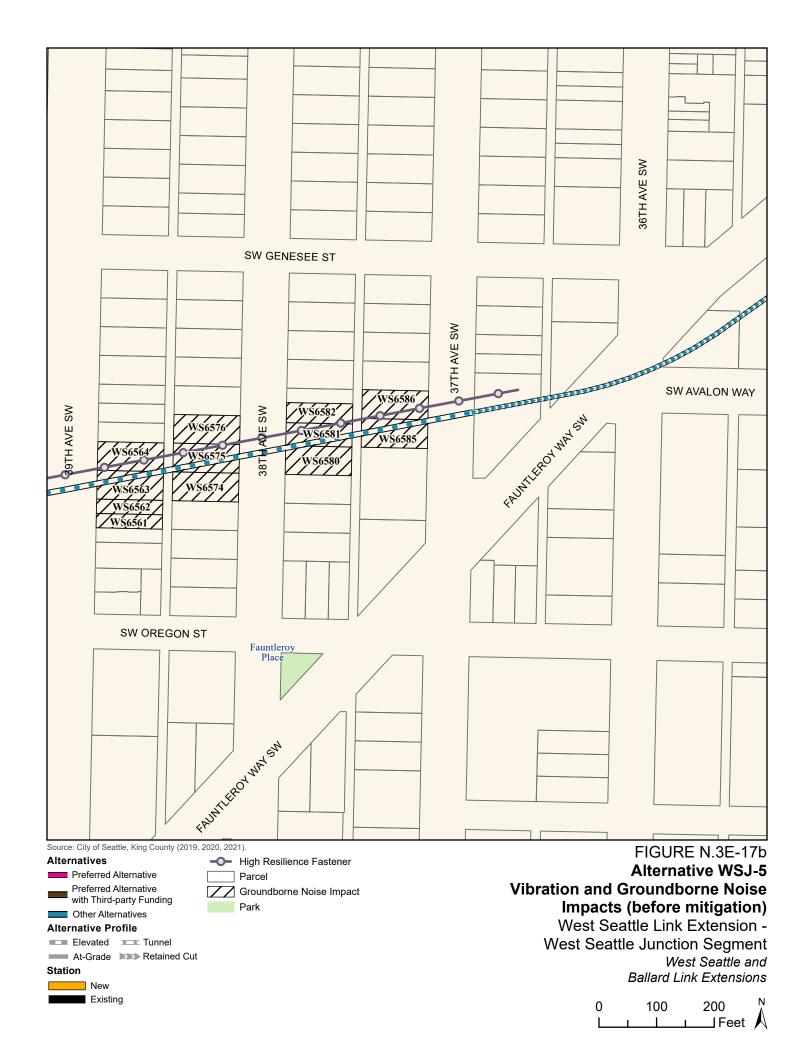


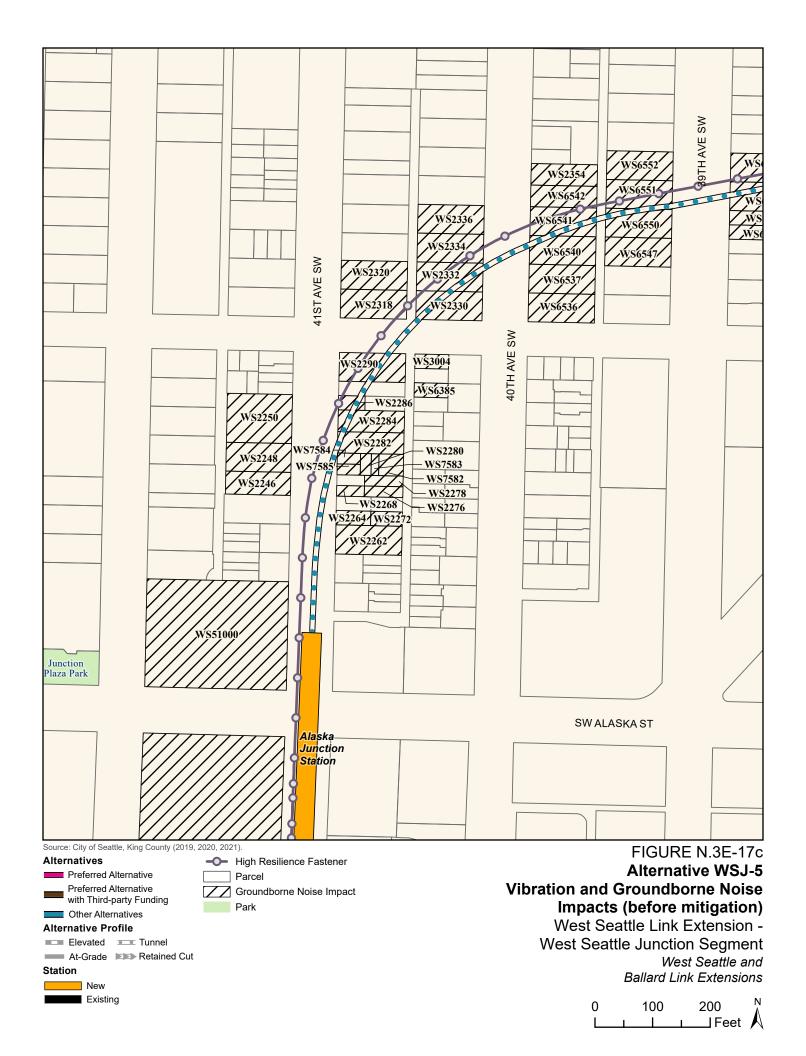


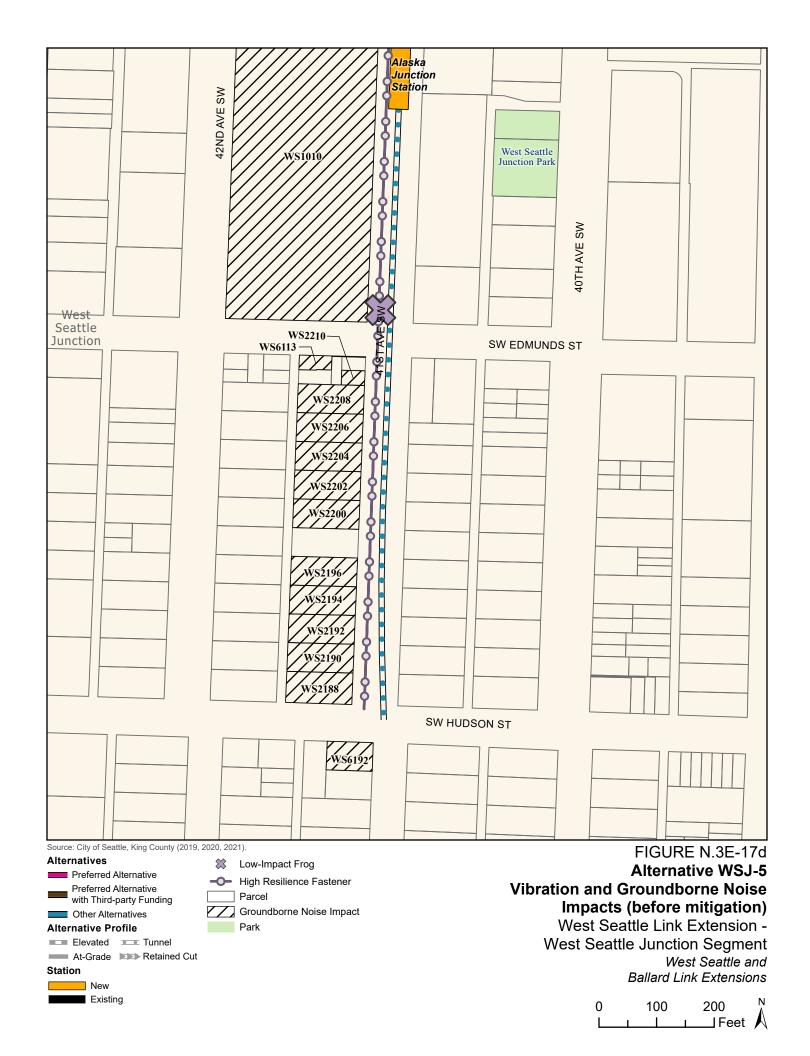


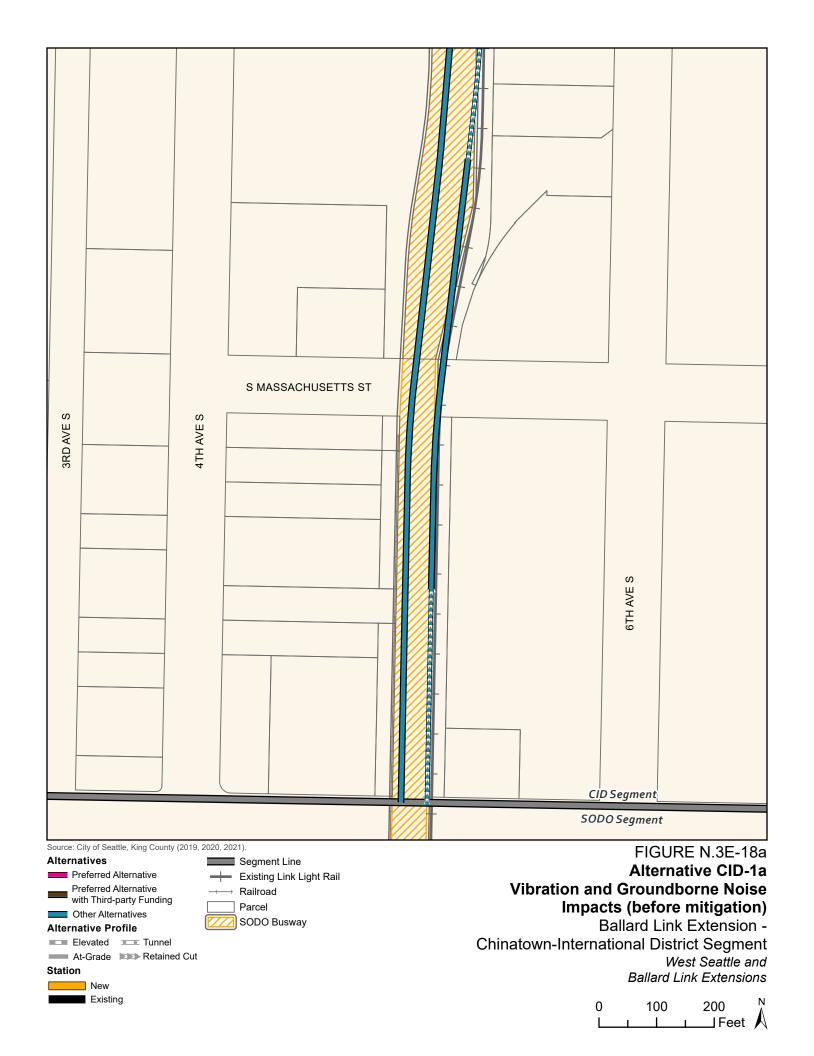


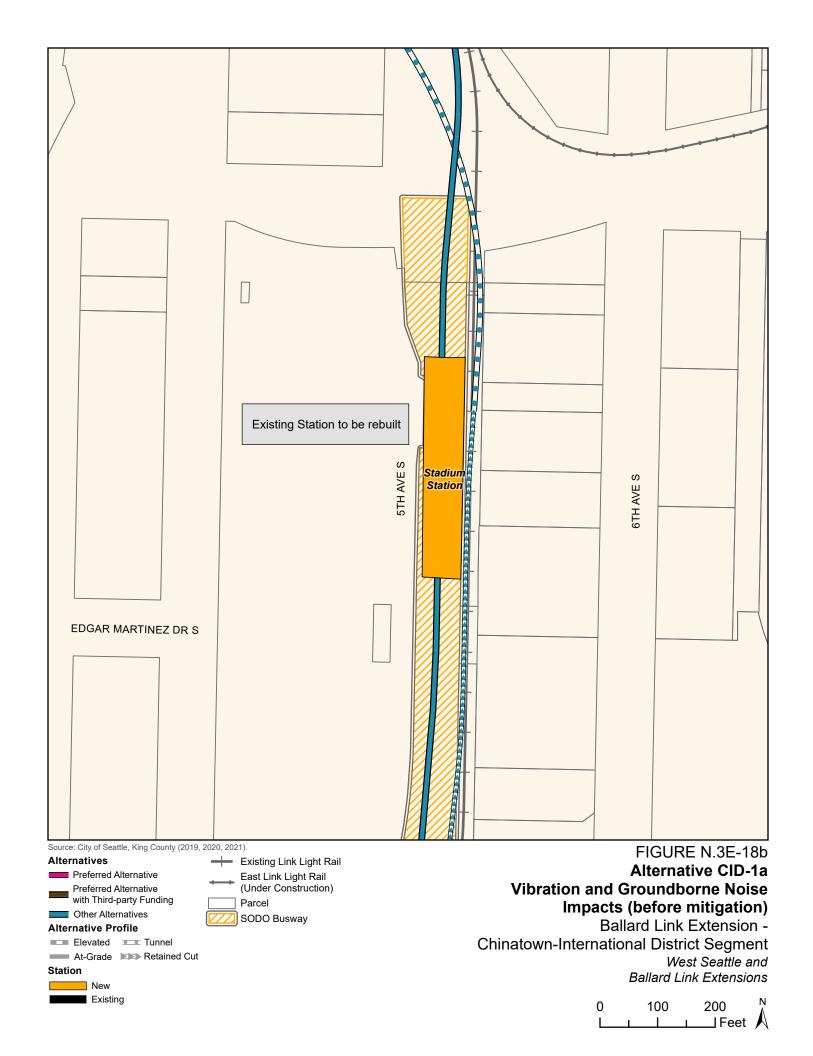


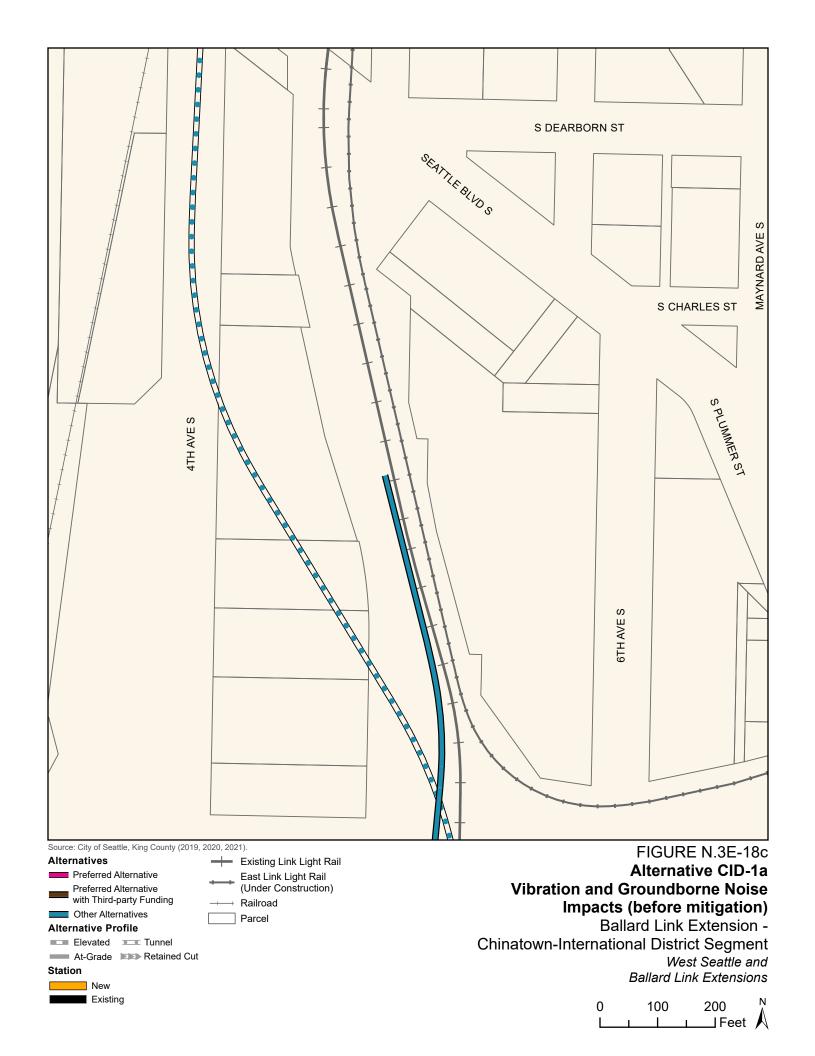


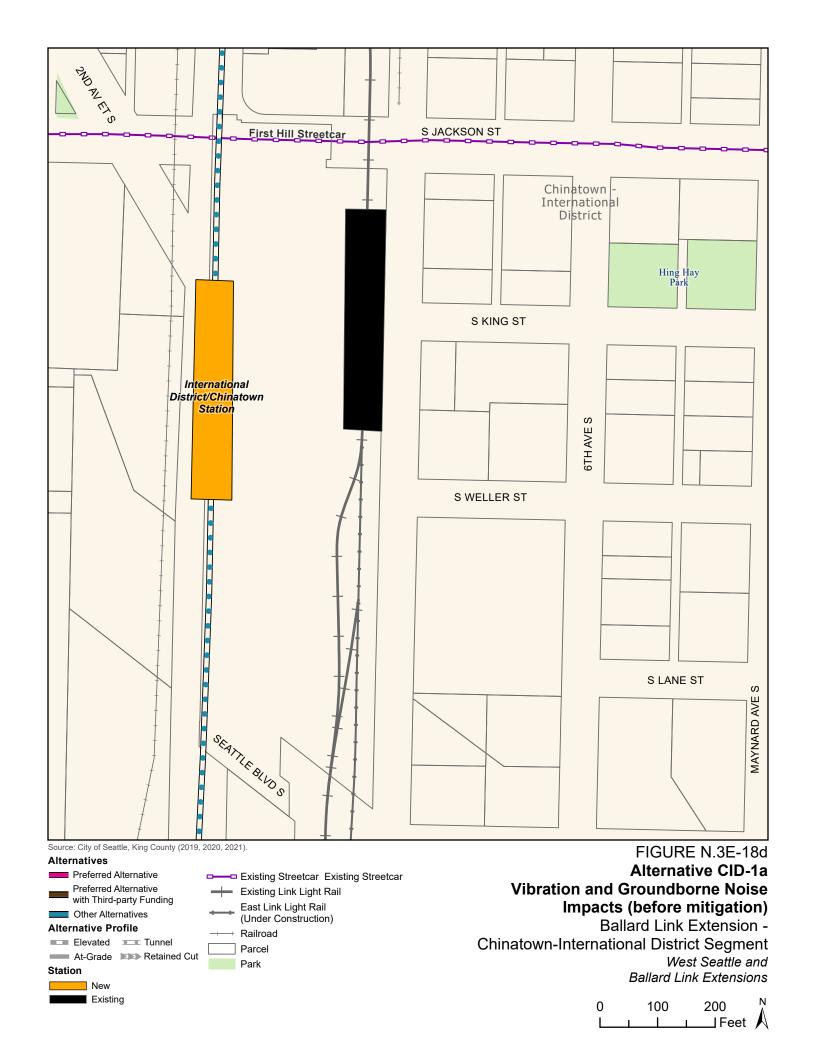






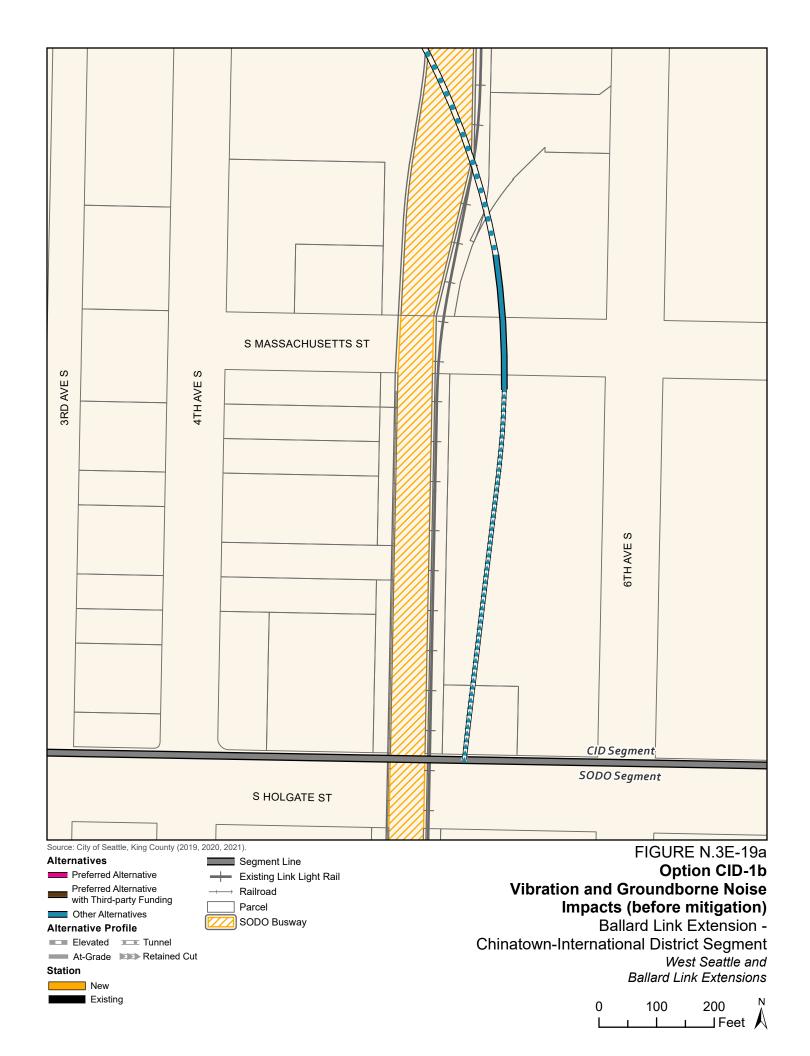


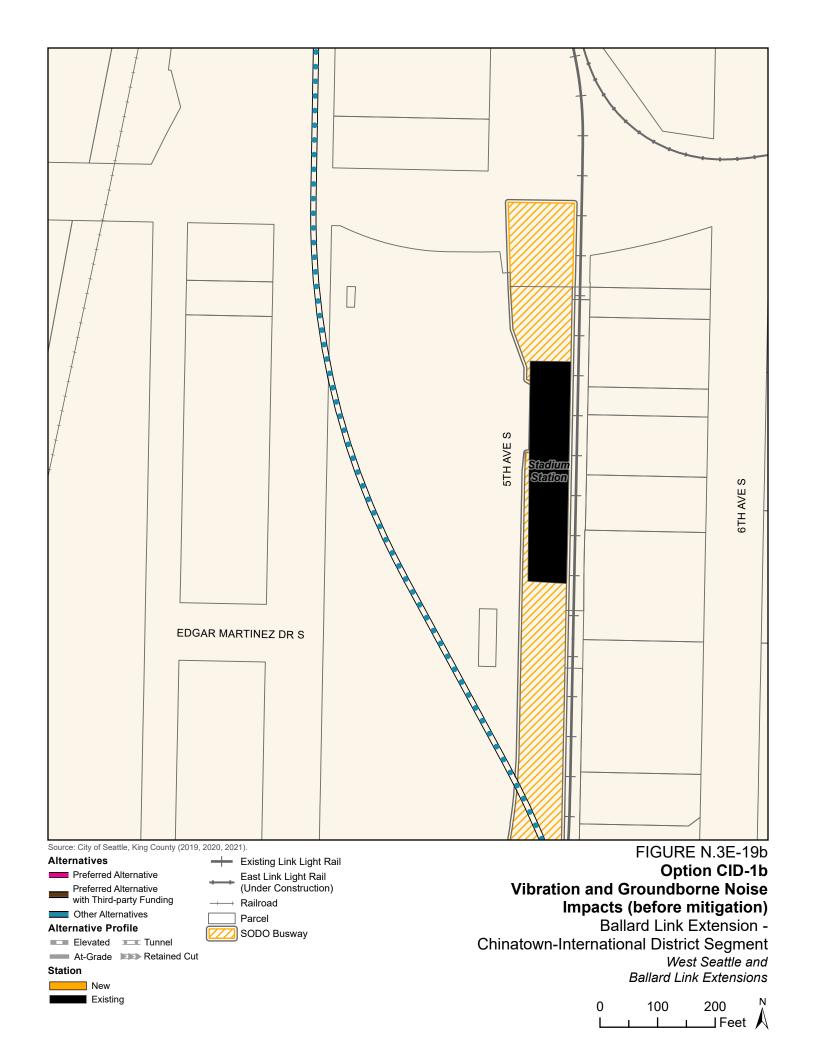


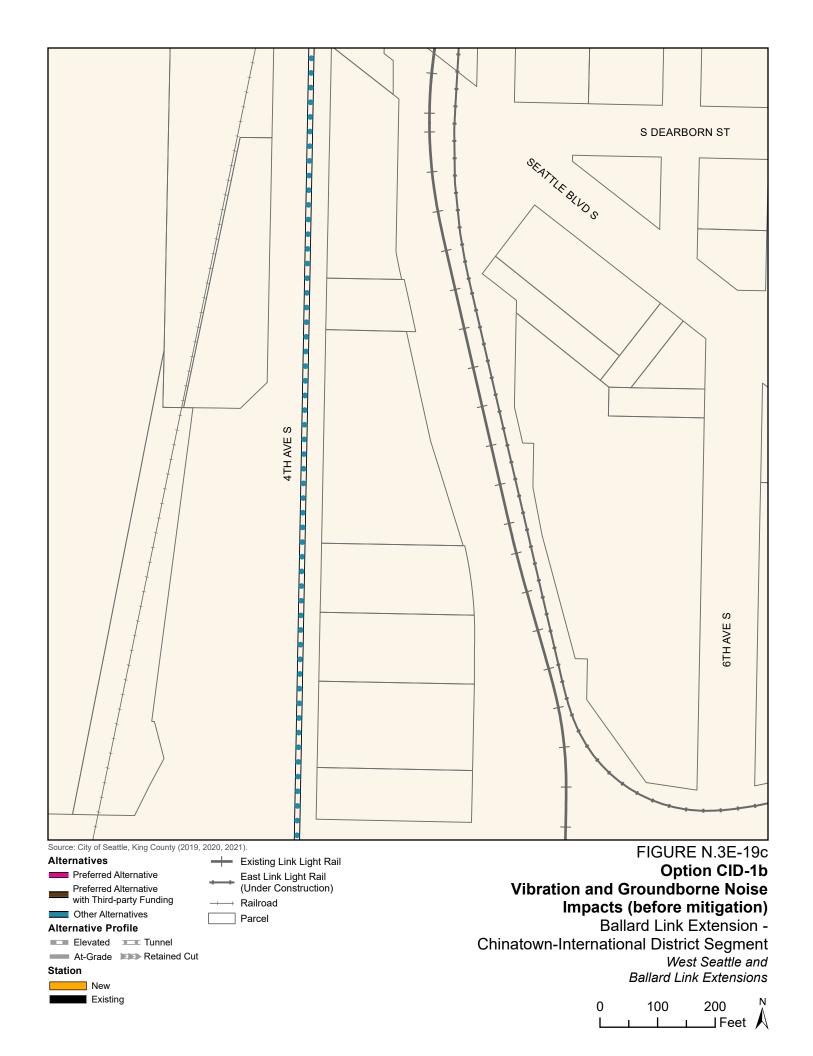


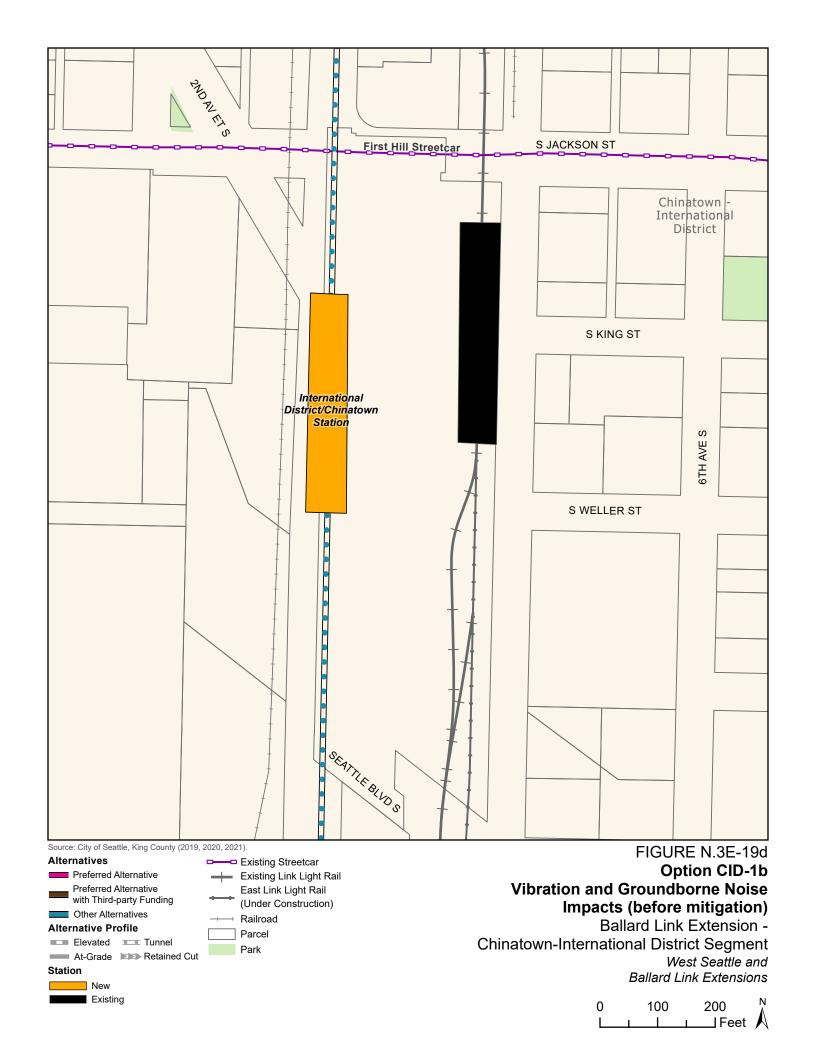




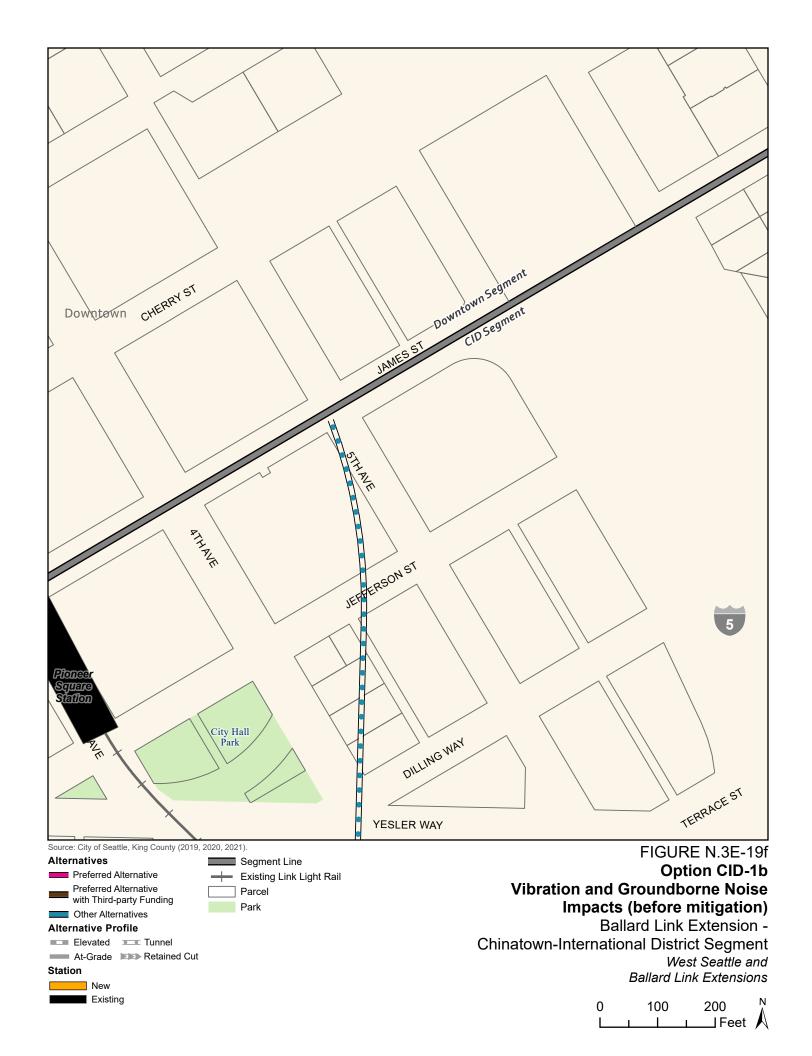


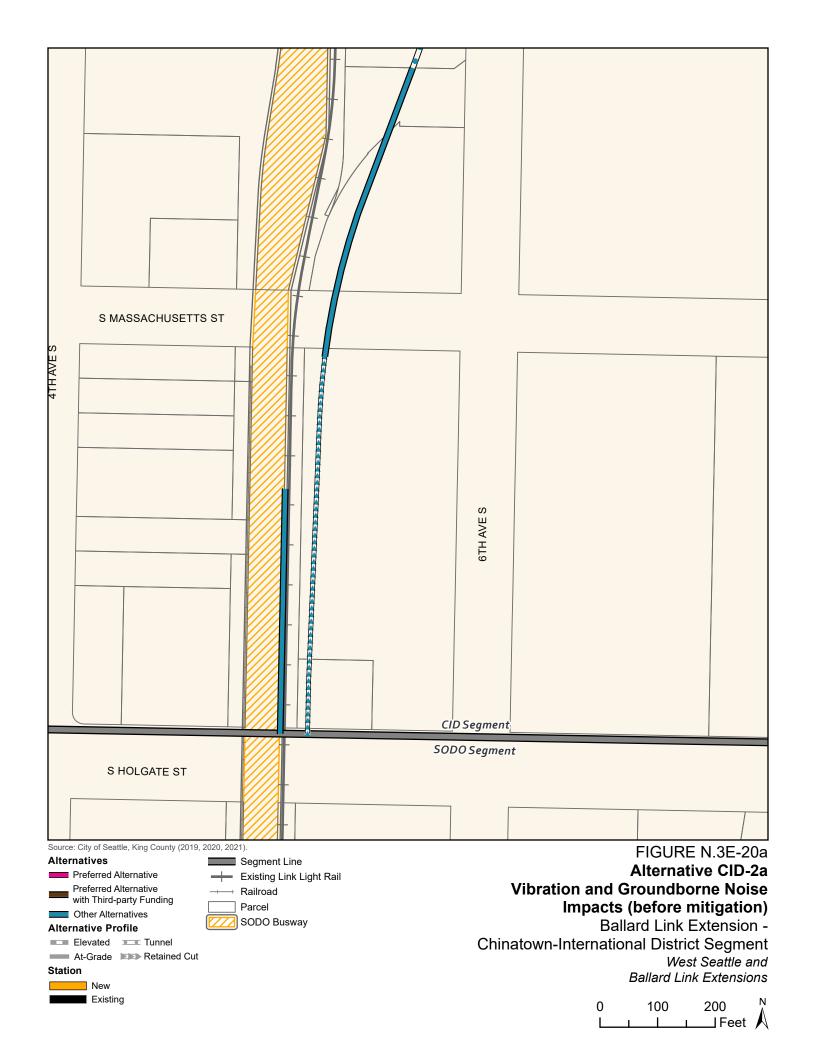


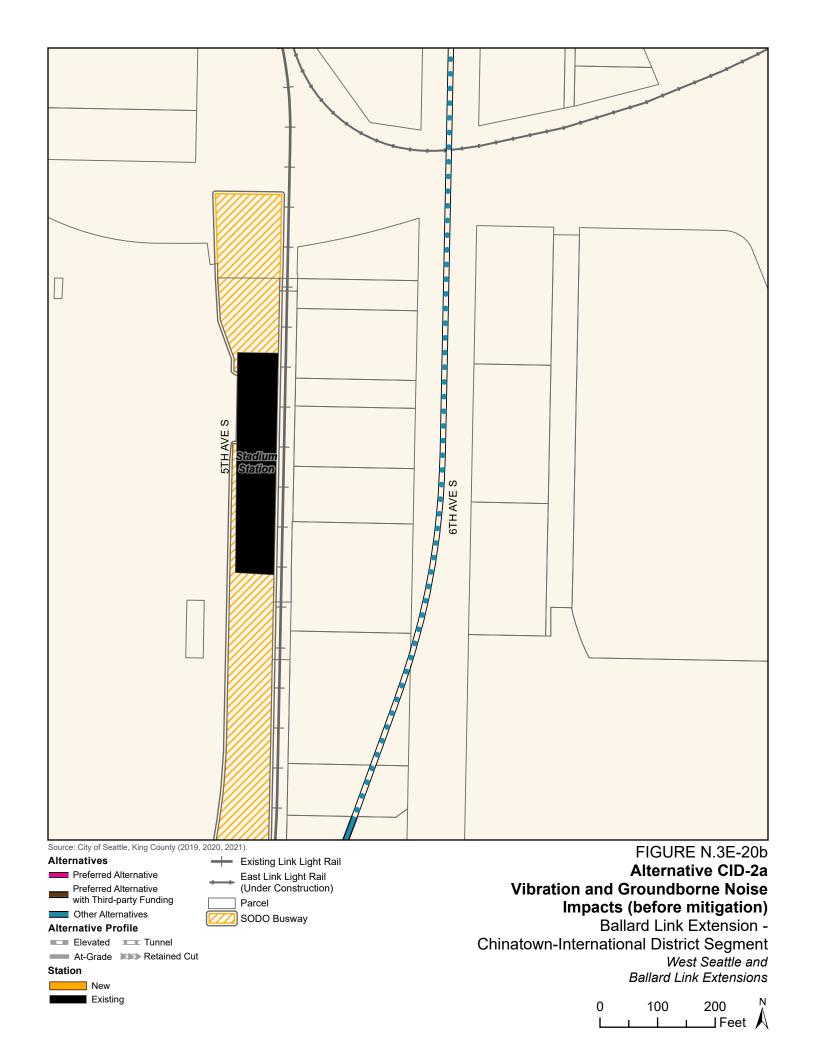


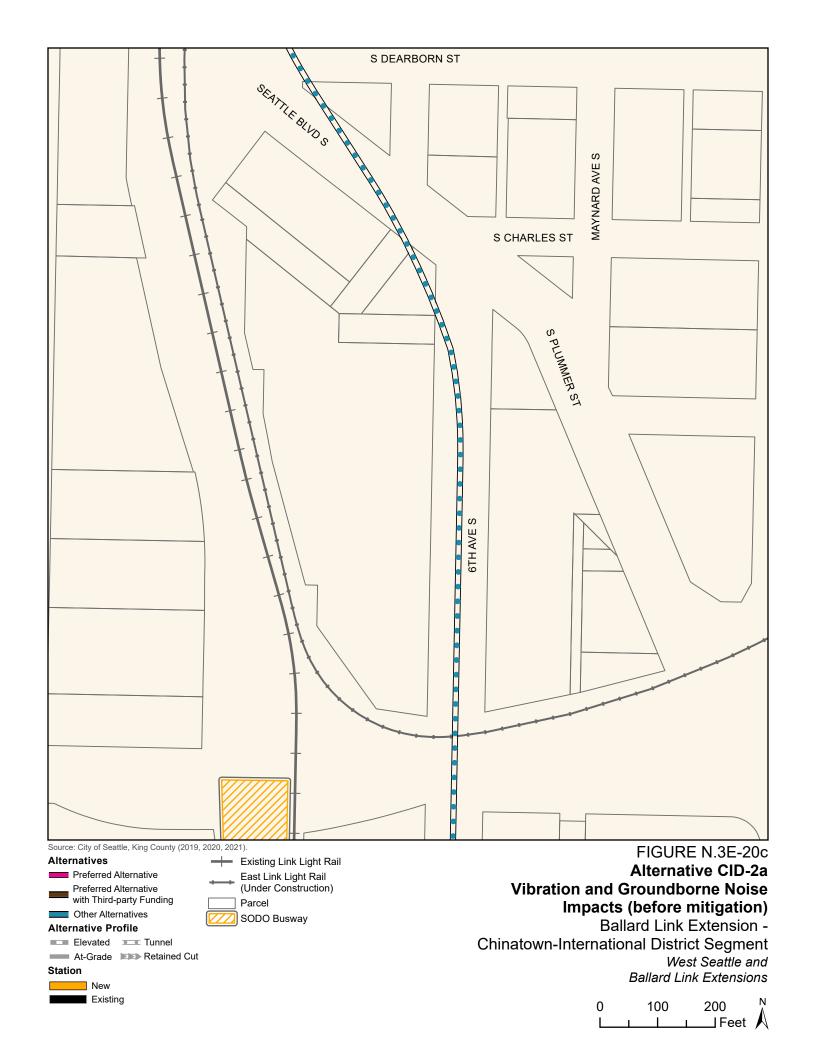


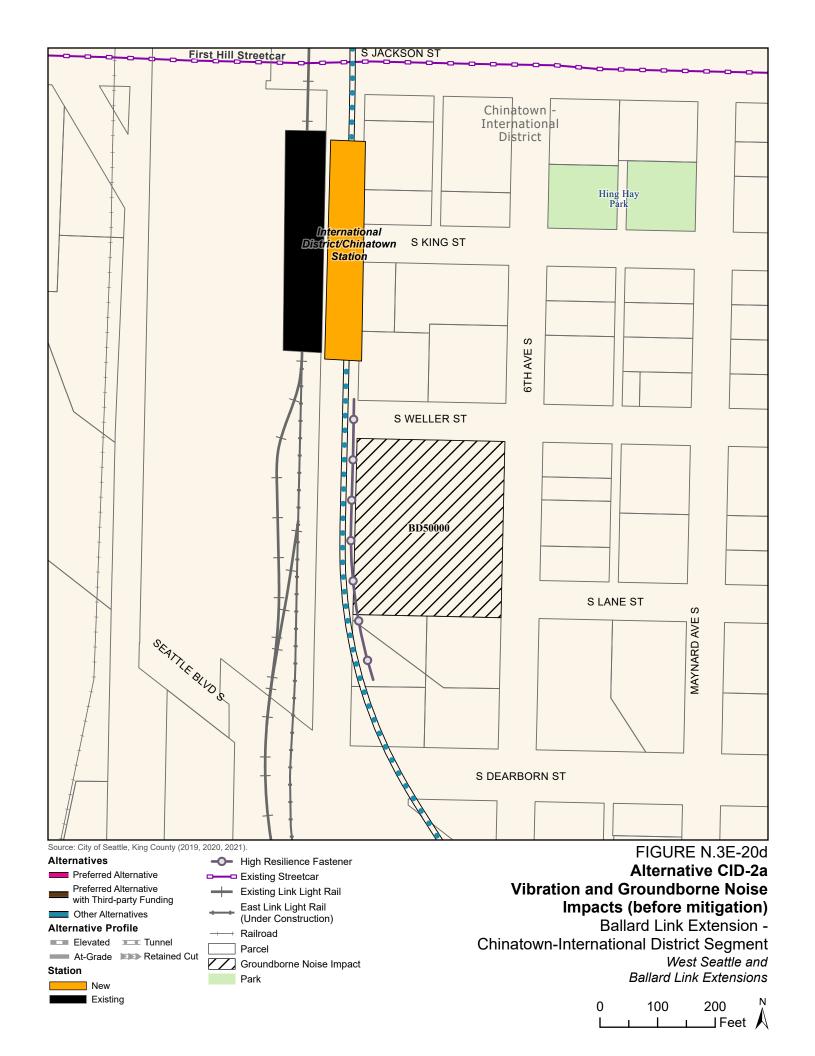


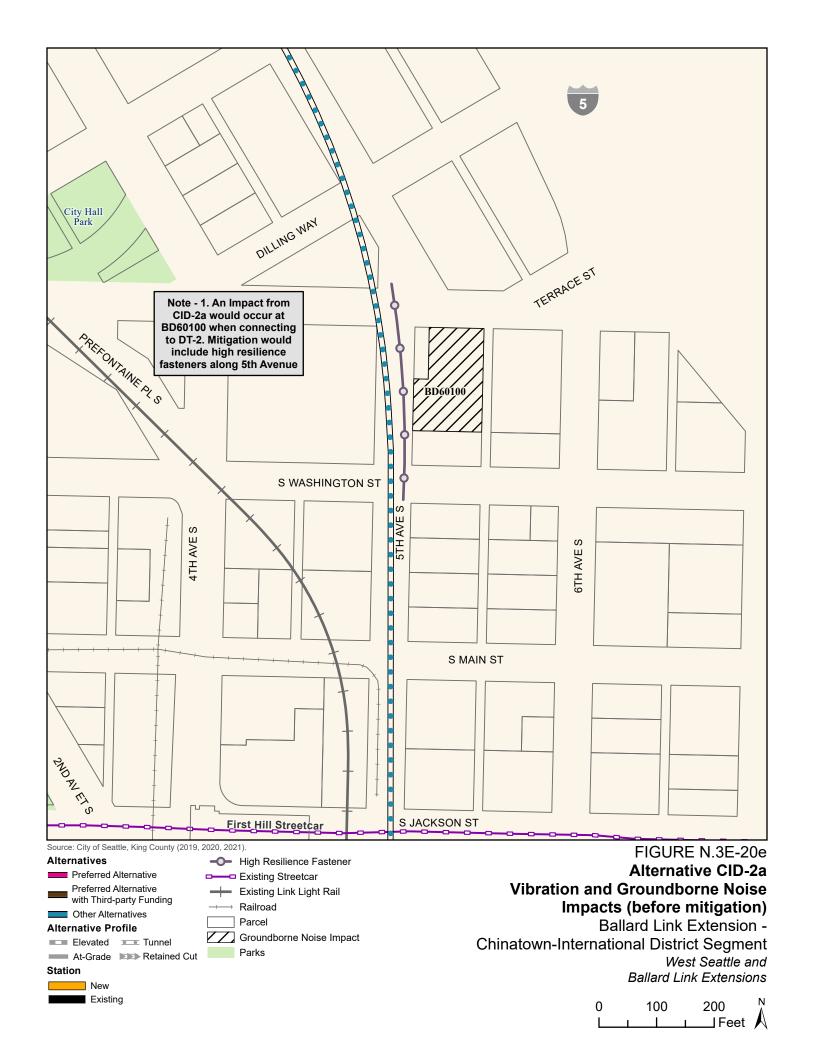




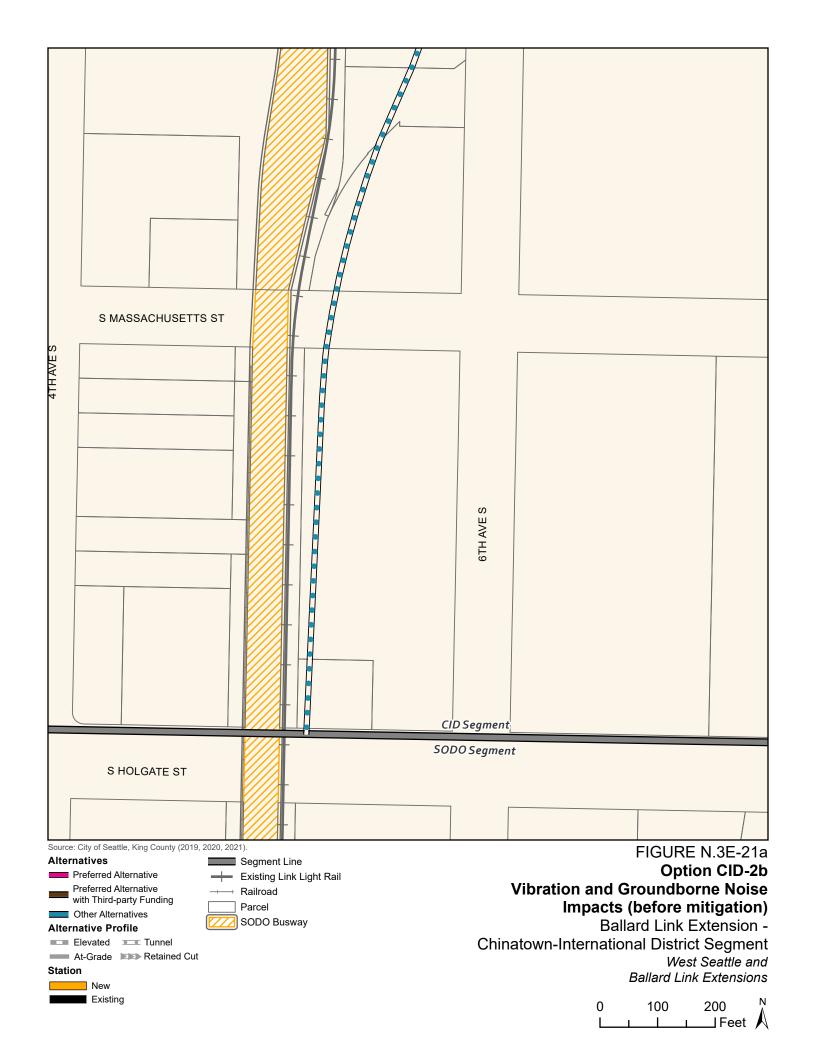


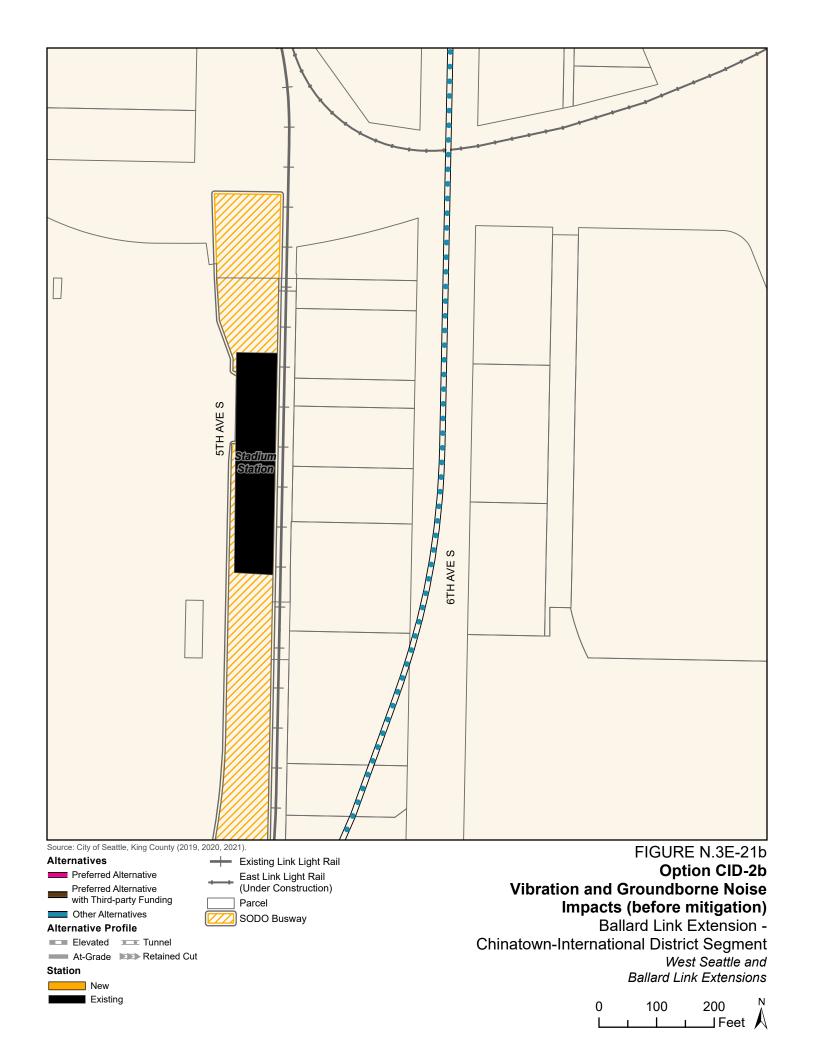


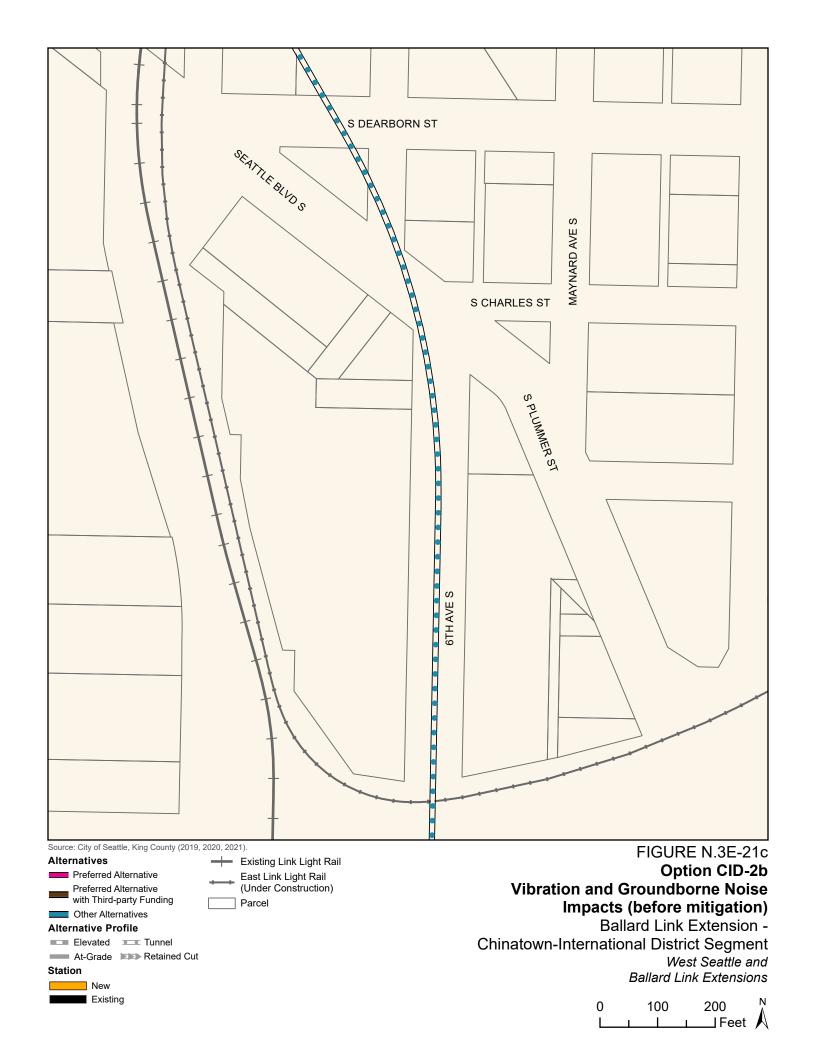


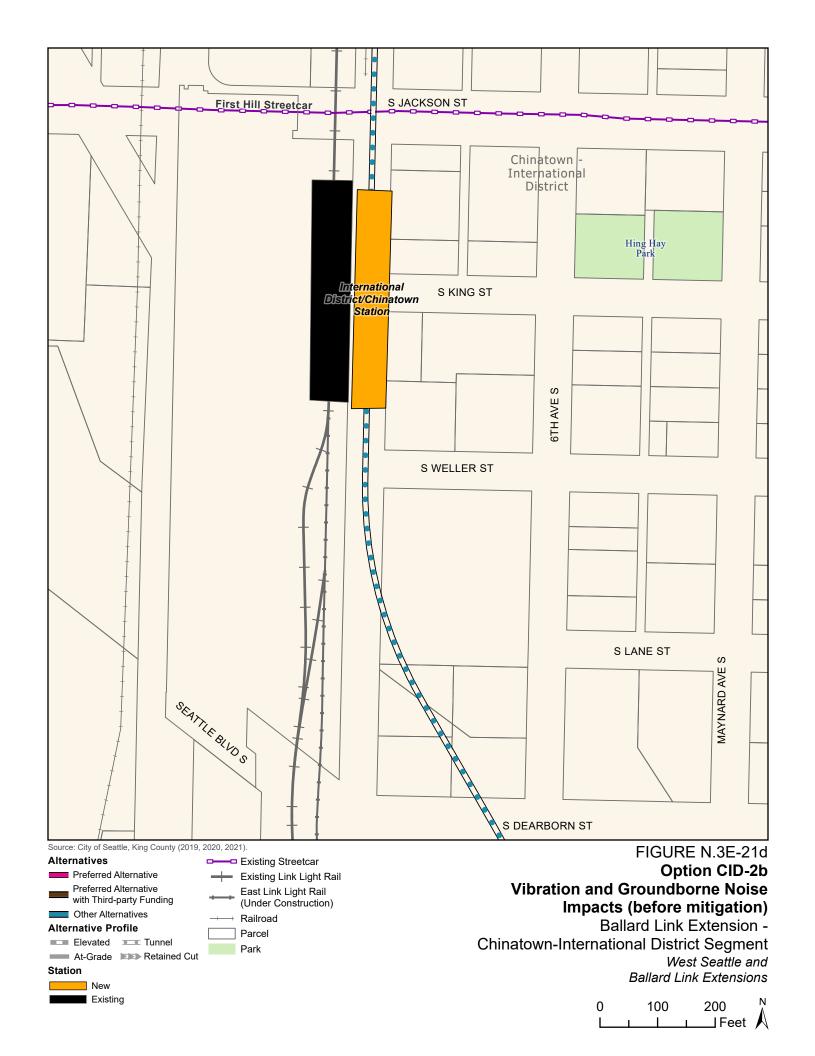


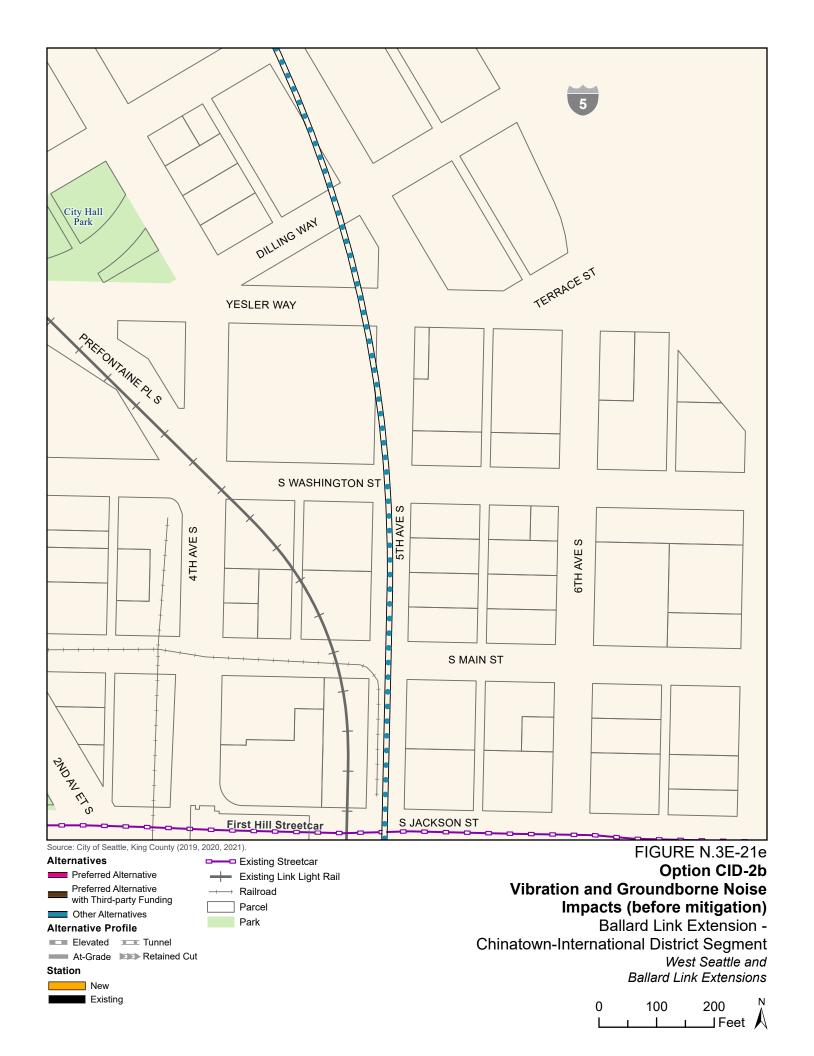








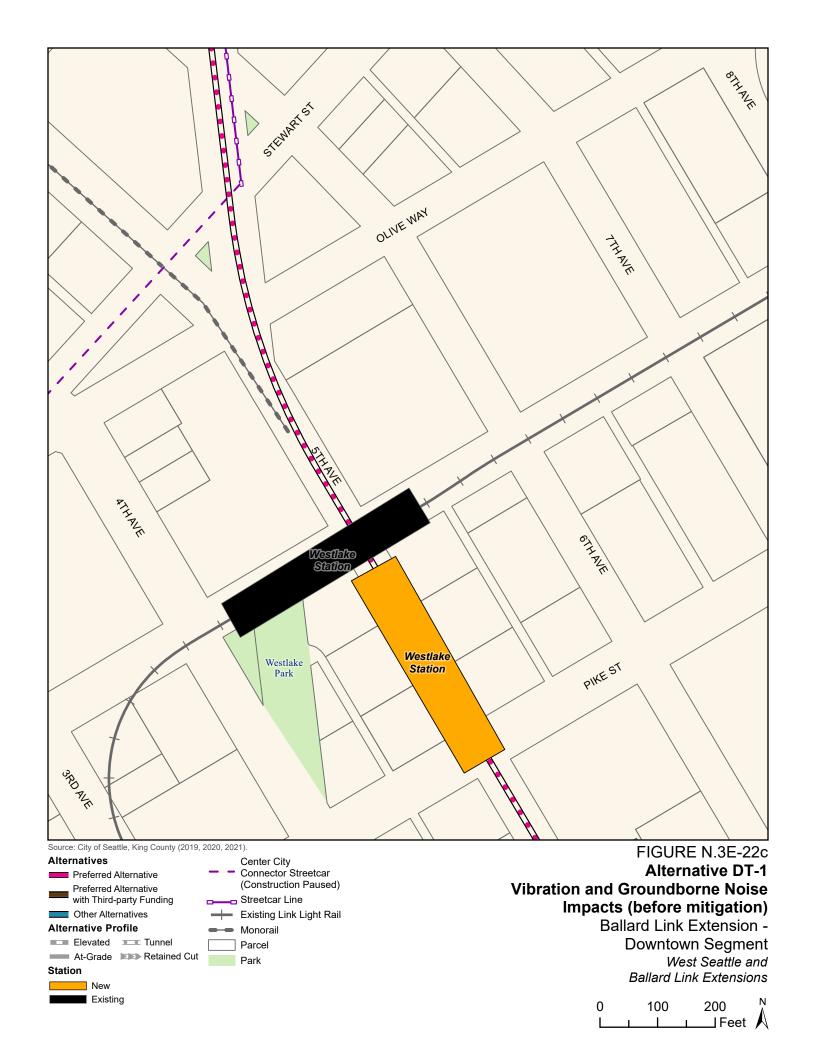








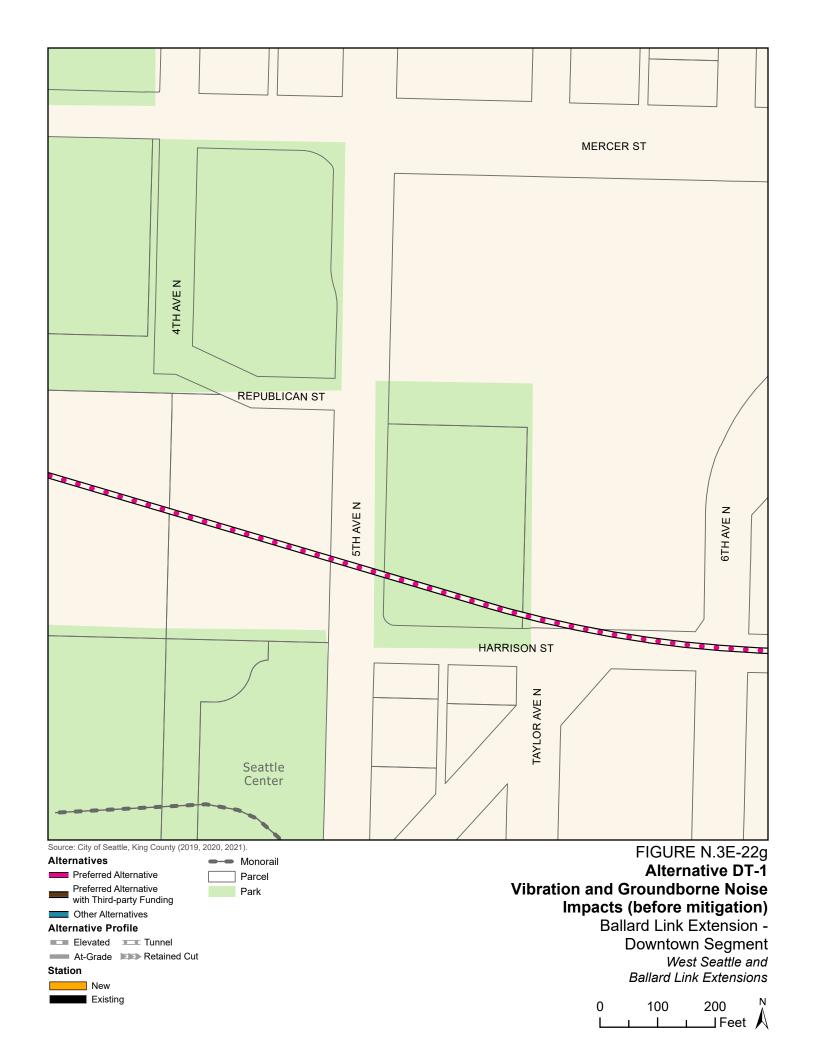


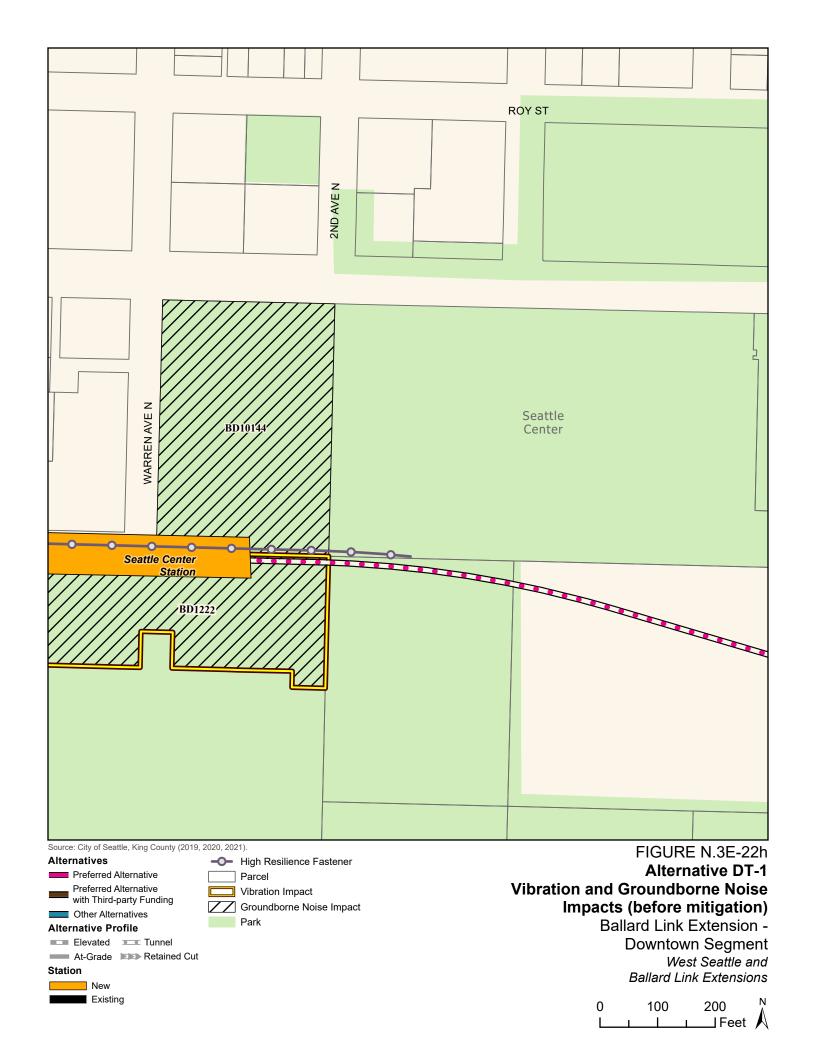


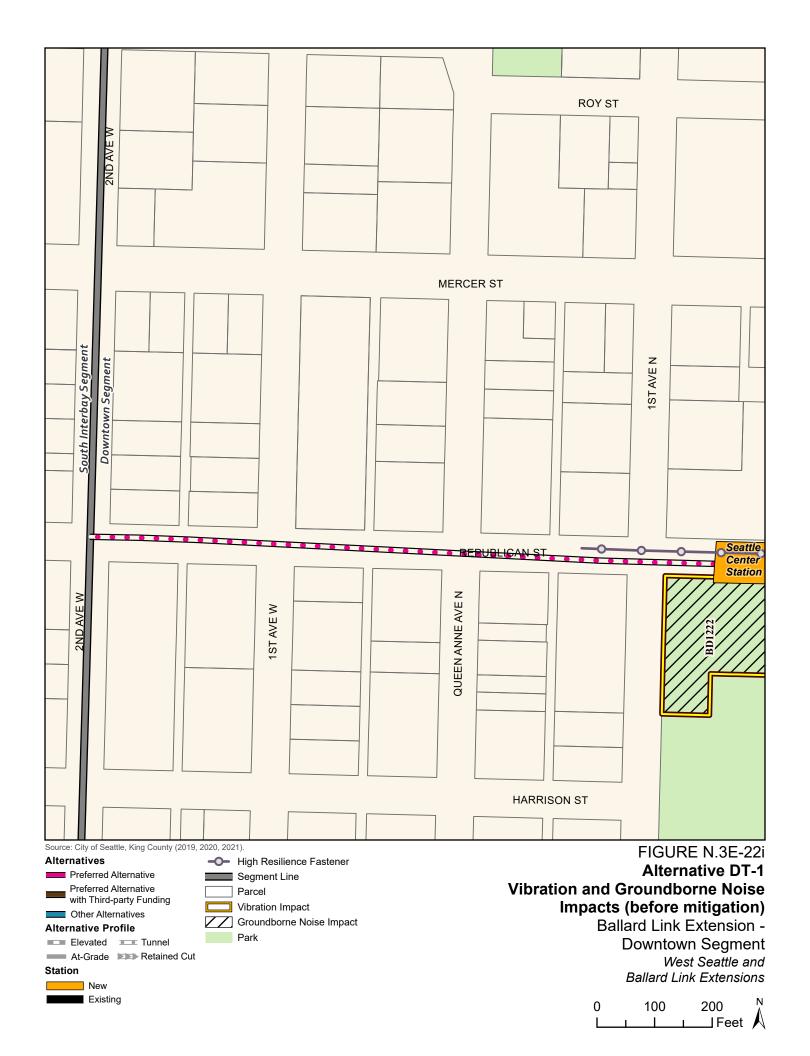






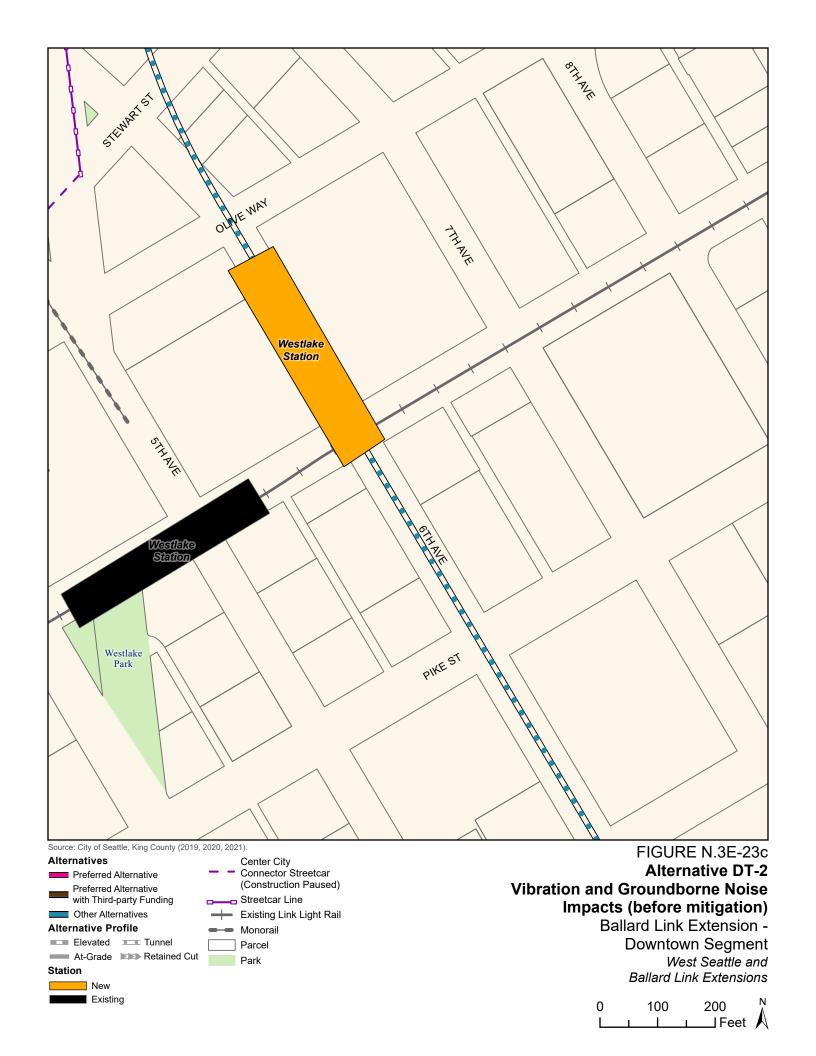


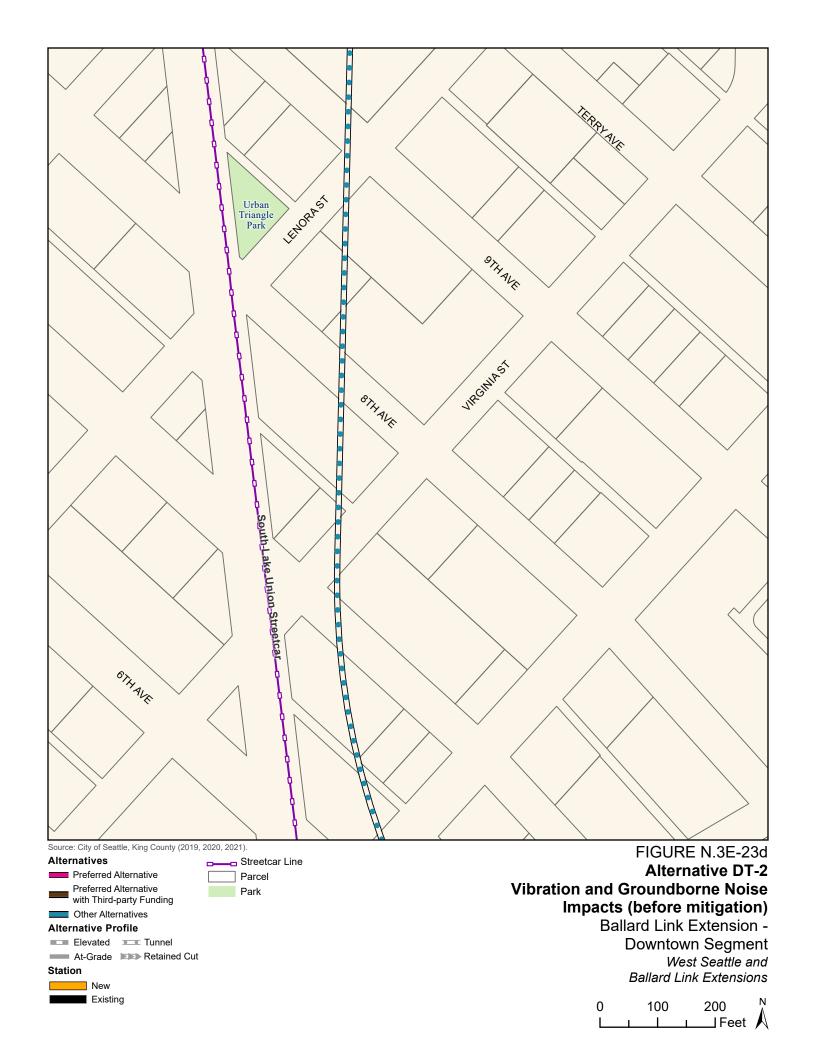


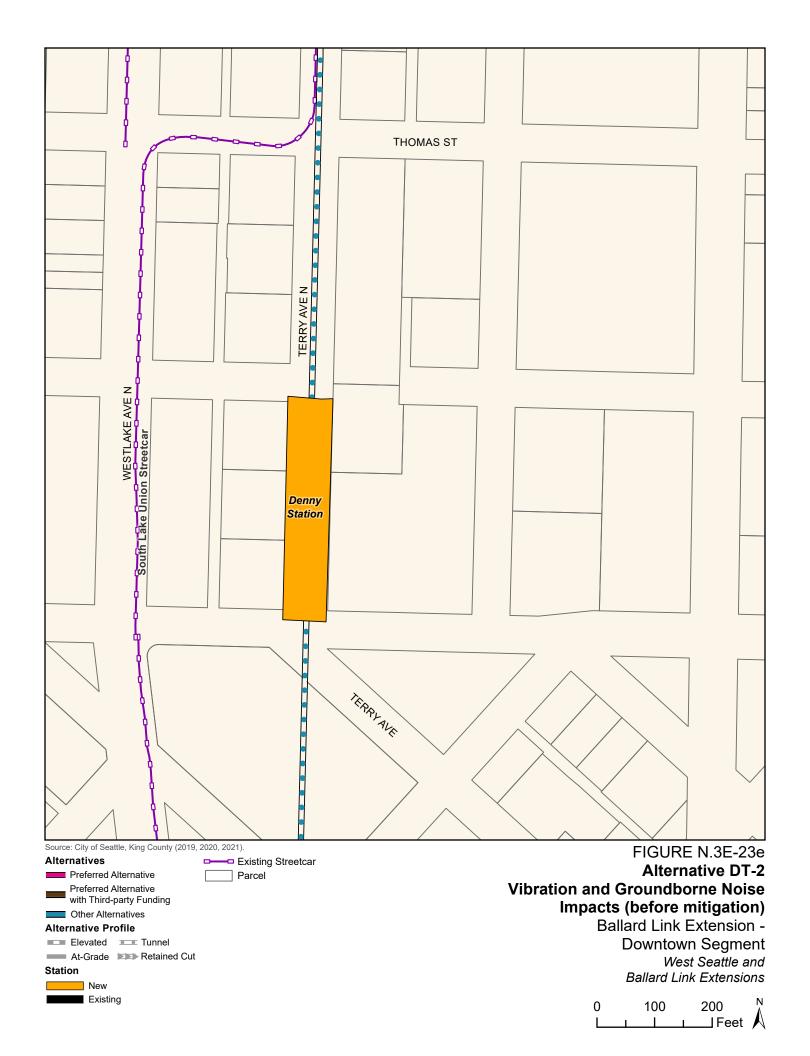




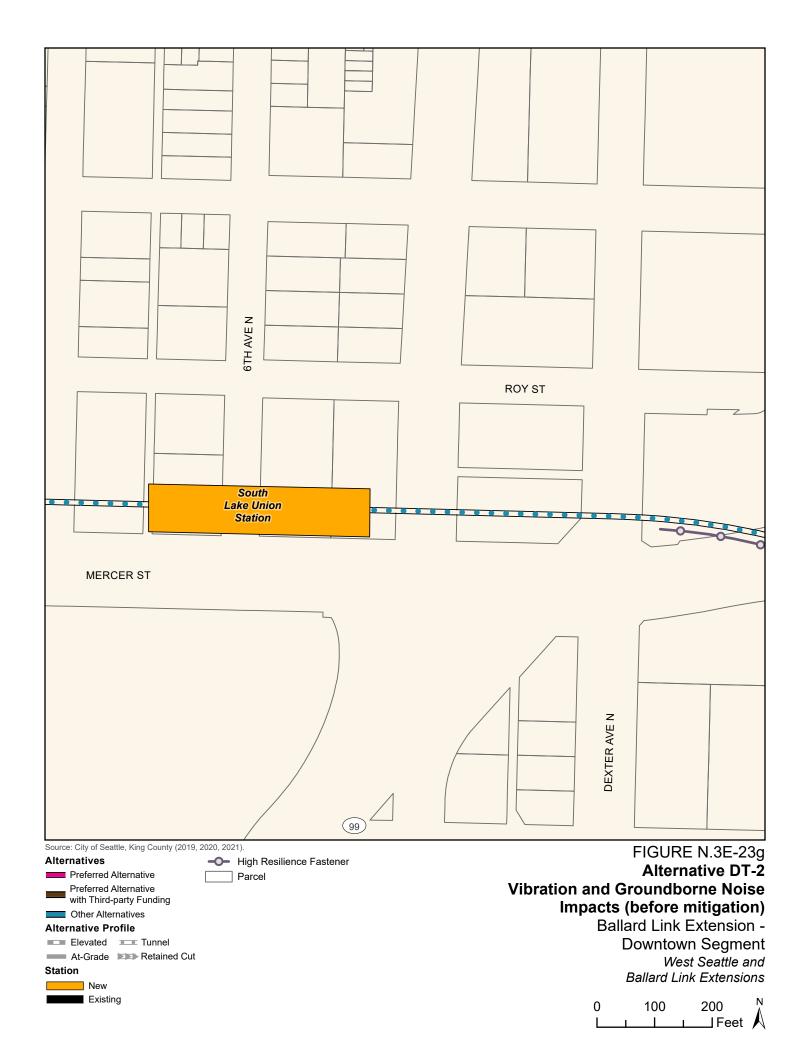


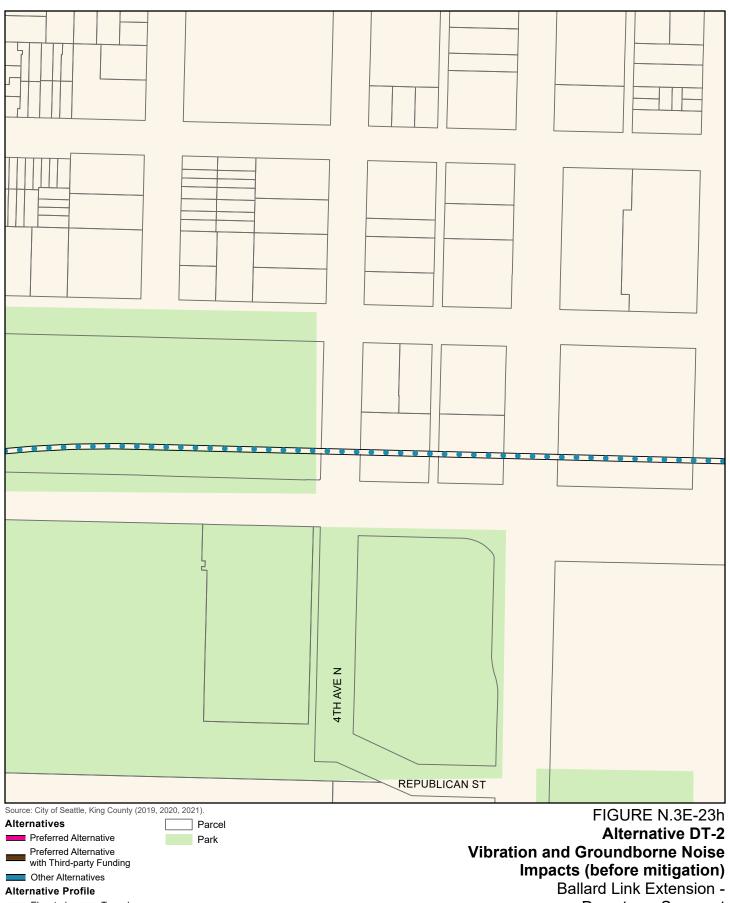












Elevated Tunnel At-Grade Retained Cut Station New Existing

Downtown Segment West Seattle and Ballard Link Extensions

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