



Tonight's Agenda

- 6:00 pm – Open House
- 6:30 pm – Presentation
 - **Introduction**
 - Ron Endlich, North Link Deputy Project Director
 - **Roosevelt Station Construction**
 - Kristin Hoffman, Station Project Manager
 - **Noise Variance**
 - Jeff Munnoch, Community Outreach Supervisor
 - **Next Steps**
 - **Questions and Answers**
- 7:45 pm – Return to Open House
- 8:30 pm – Close

Roosevelt Station Construction Open House

March 26, 2012



Link Light Rail System



- 16 miles of light rail with 13 stations currently in service
- University Link under construction; opens 2016
- ST2 Plan funded extensions to Overlake, South King County, and Lynnwood
- 54 mile system

North Link (University District to Northgate)

- 4.3-mile light rail extension
- Stations at Brooklyn, Roosevelt, and Northgate
- Completion: 2021
- 62,000 daily boardings added to system by 2030



Roosevelt Station

Key Features

- Station platform 70'-90' underground
- Elevators, escalators and stairs at both entrances
- Bicycle parking
- Connections to buses on NE 65th St, 12th Ave NE and Roosevelt Way NE
- 8,000 daily boardings (2030)



Roosevelt Station Schedule



ST Standard Construction Procedures



- Standard provisions written into contracts
- Promote the local business district
- 24-hour construction hotline (888-298-2395)

Pre-Demolition Activity Salvage

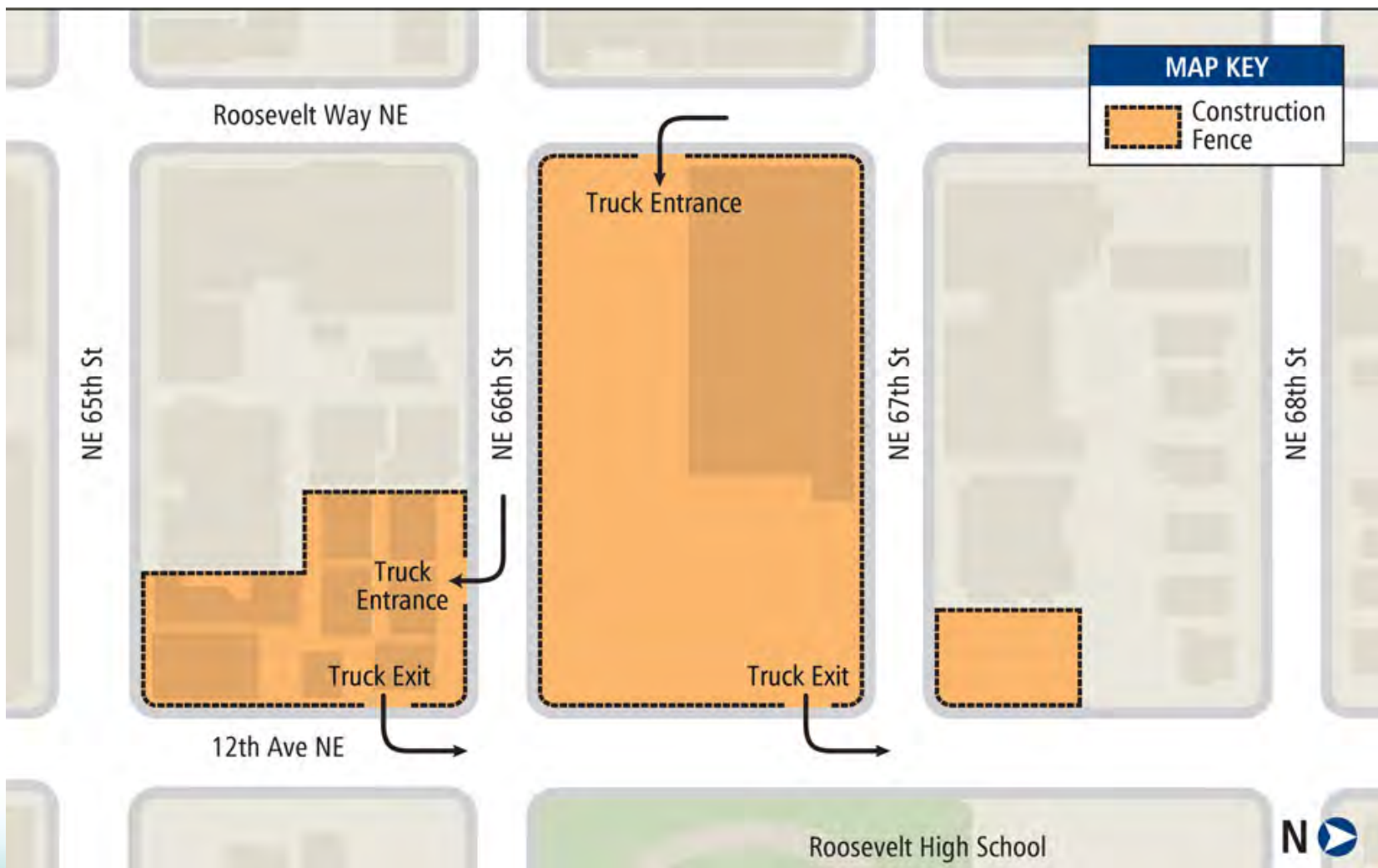


- Buildings salvaged – light fixtures, doors, windows, hardware, etc.
- Standard Radio – façade deconstructed this Spring/Summer
- Townhouses – buyer found



1. Site Demolition Contract

Mid 2012 – Early 2013



1. Demolition Phase Tree Removal



- Businesses along 12th Ave NE – trees and shrubs to be removed
- QFC – majority of trees and shrubs to be removed



1. Dust Control



- Watering during demo
- Covered loads
- Street sweeping
- Wheel washes



2. Utility Relocation

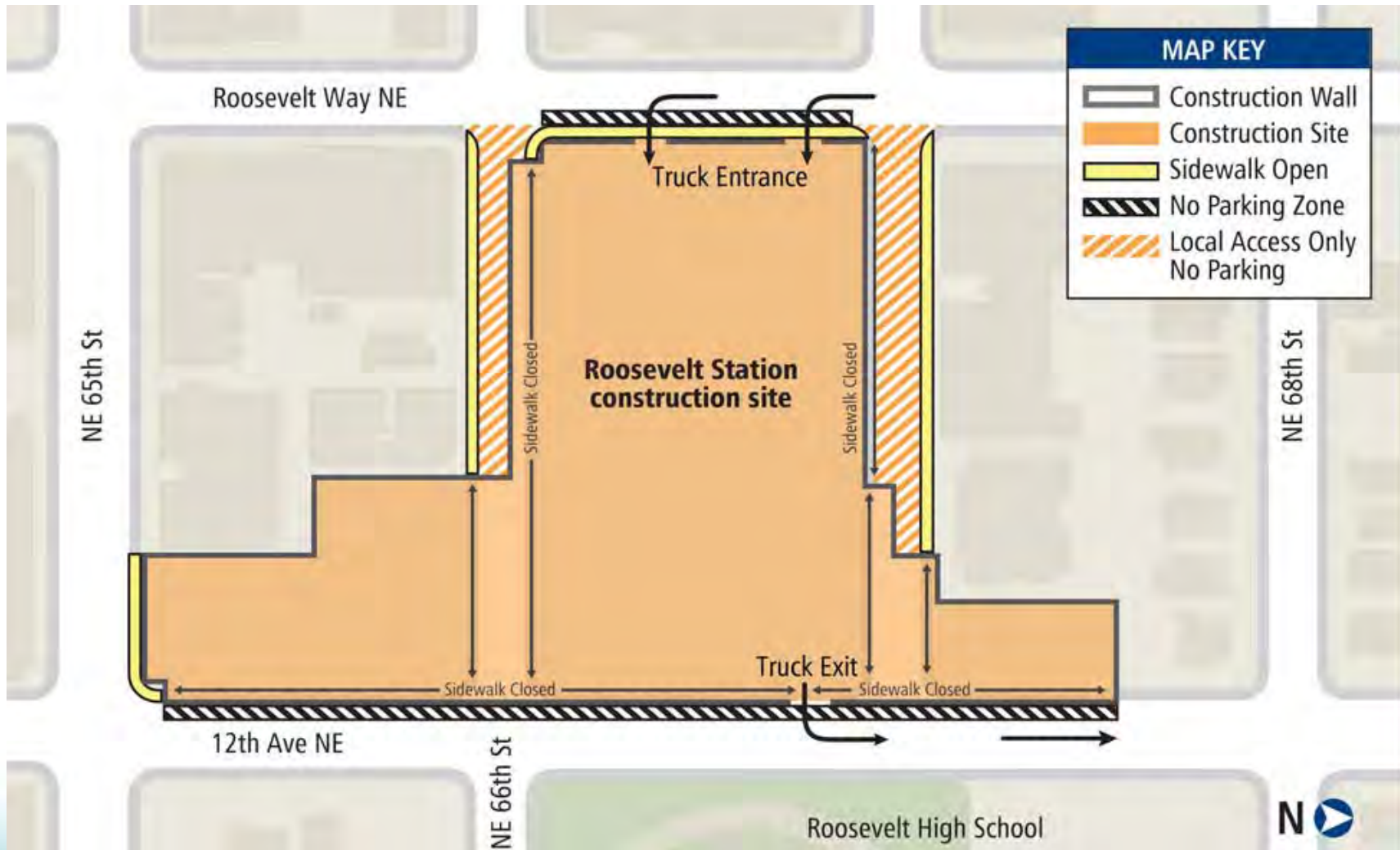


- NE 65th Street
- NE 66th Street
- NE 67th Street
- 12th Avenue NE
- Roosevelt Way NE

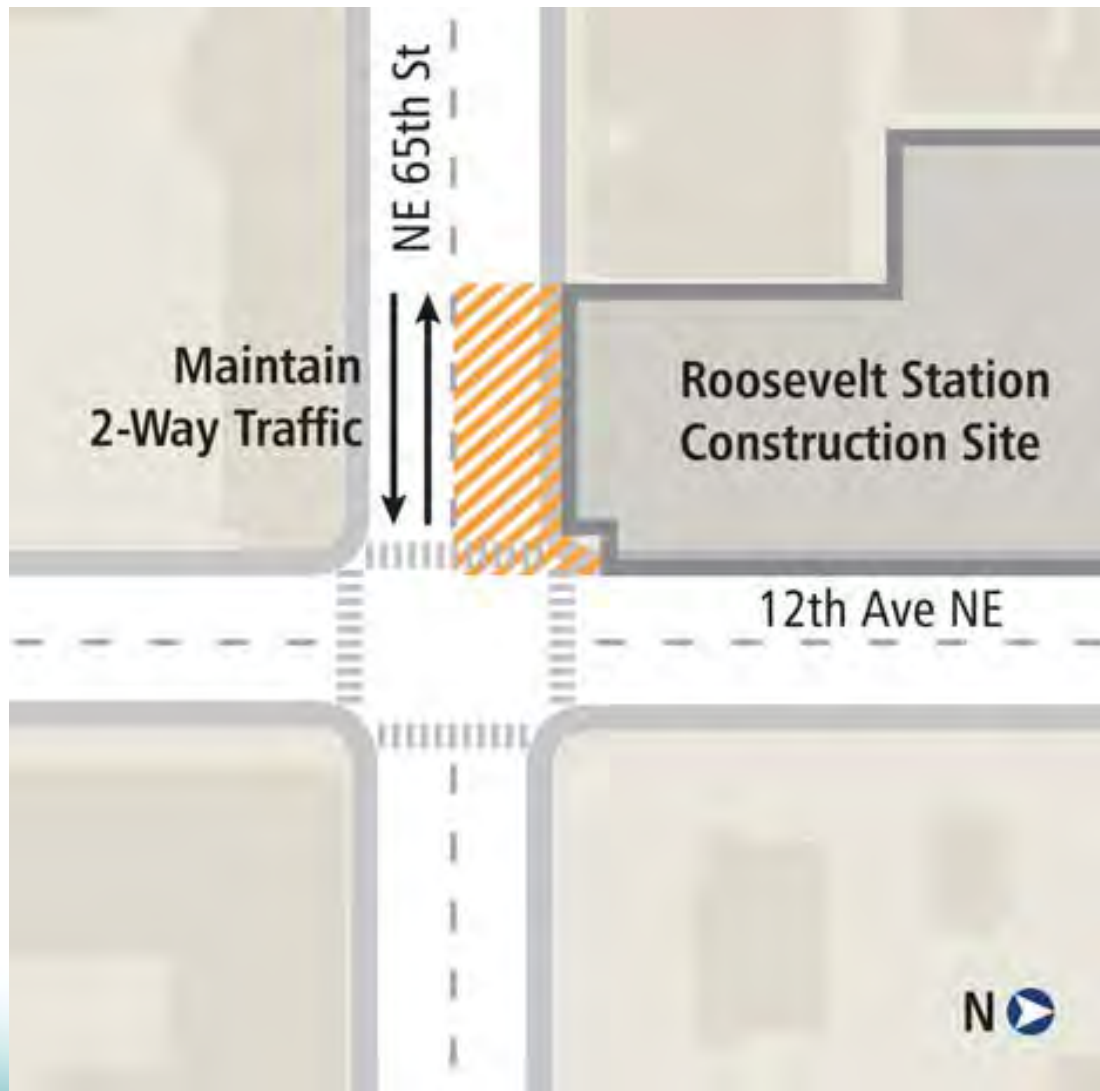


3. Excavation and Tunneling Contract

2013 - 2017



3. Jet Grouting



- Approximately 3 months of work
- Daytime work only
- No parking in this area during this work

3. Contractor Parking



- Contractor workers not allowed to park on city streets
- ST has initially located several potential lots, that could accommodate workers
- Contractor responsible for finding parking lot(s) to accommodate all the workers

3. Scarlet Oak Trees



- Trees located in NE 67th Street right-of-way
- ST explored options to relocate trees but no feasible solution found
- ST exploring options for tree salvage and reuse

3. Typical Construction Activities



Sidewalk closure and driving lane alteration



Sidewalk closure around construction site

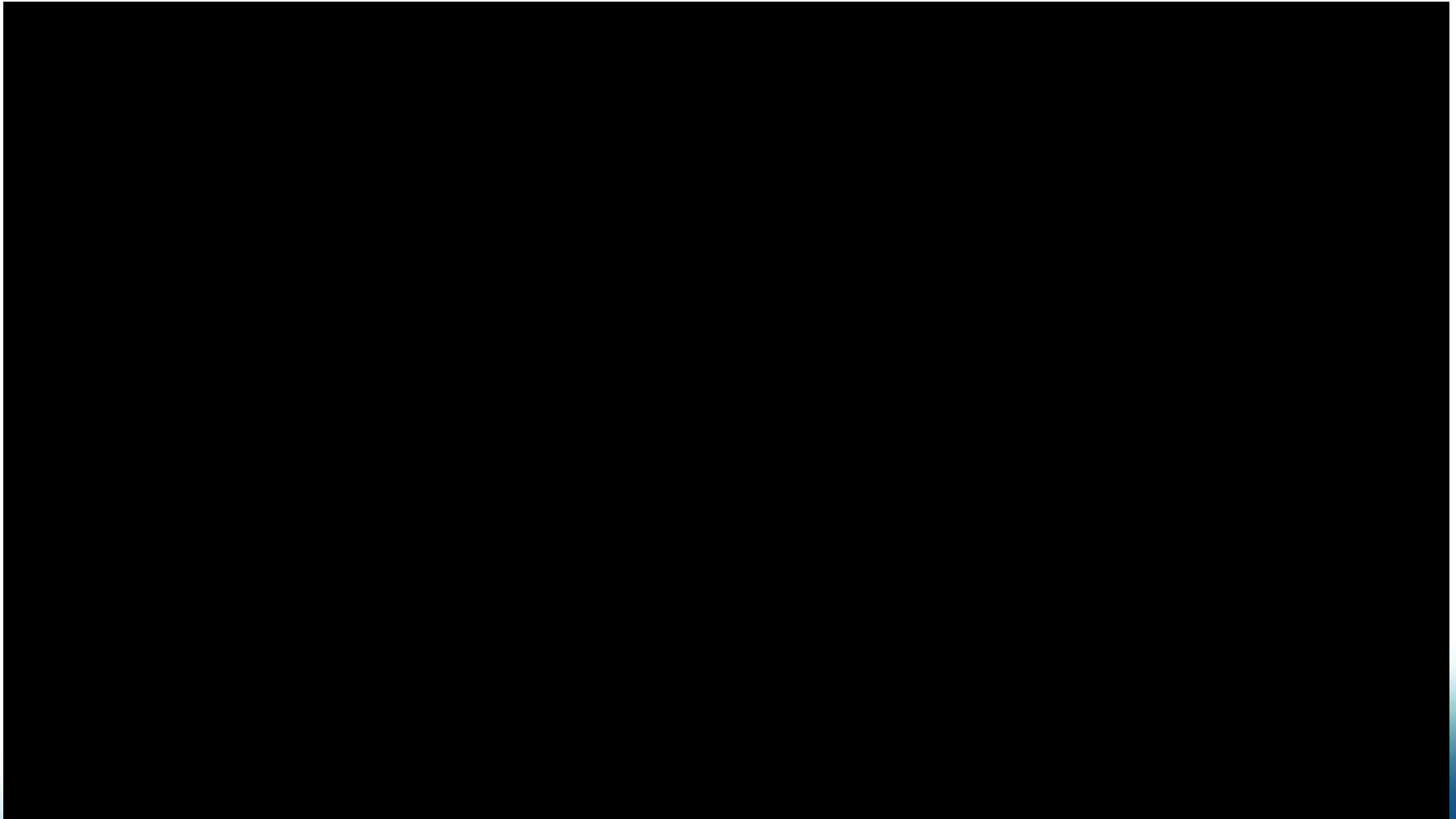


Construction gate at site entrance



Construction wall and walkway protection

3. Tunneling and Excavation Animation



3. Truck Route (from north)

- Trucks enter site southbound from Roosevelt Way NE
- Trucks leave site northbound on 12th Avenue NE



3. Truck Route (from south)

- Trucks enter site southbound from Roosevelt Way NE
- Trucks leave site northbound on 12th Avenue NE



3. Noise Variance



- ST seeking Major Public Project Construction Noise Variance from City of Seattle
- Noise variance establishes noise limits for contractor work between 10pm - 7am weekdays, 10pm - 9am weekends, holidays
- Daytime construction activities will comply with City's construction noise limits

3. Why Work at Night?



- Anticipate about one year for station box excavation
- Anticipate up to two years of 24/7 construction activity for tunneling
- Certain activities are required for tunnel worker safety
- Maximizes project safety, efficiency, duration and cost

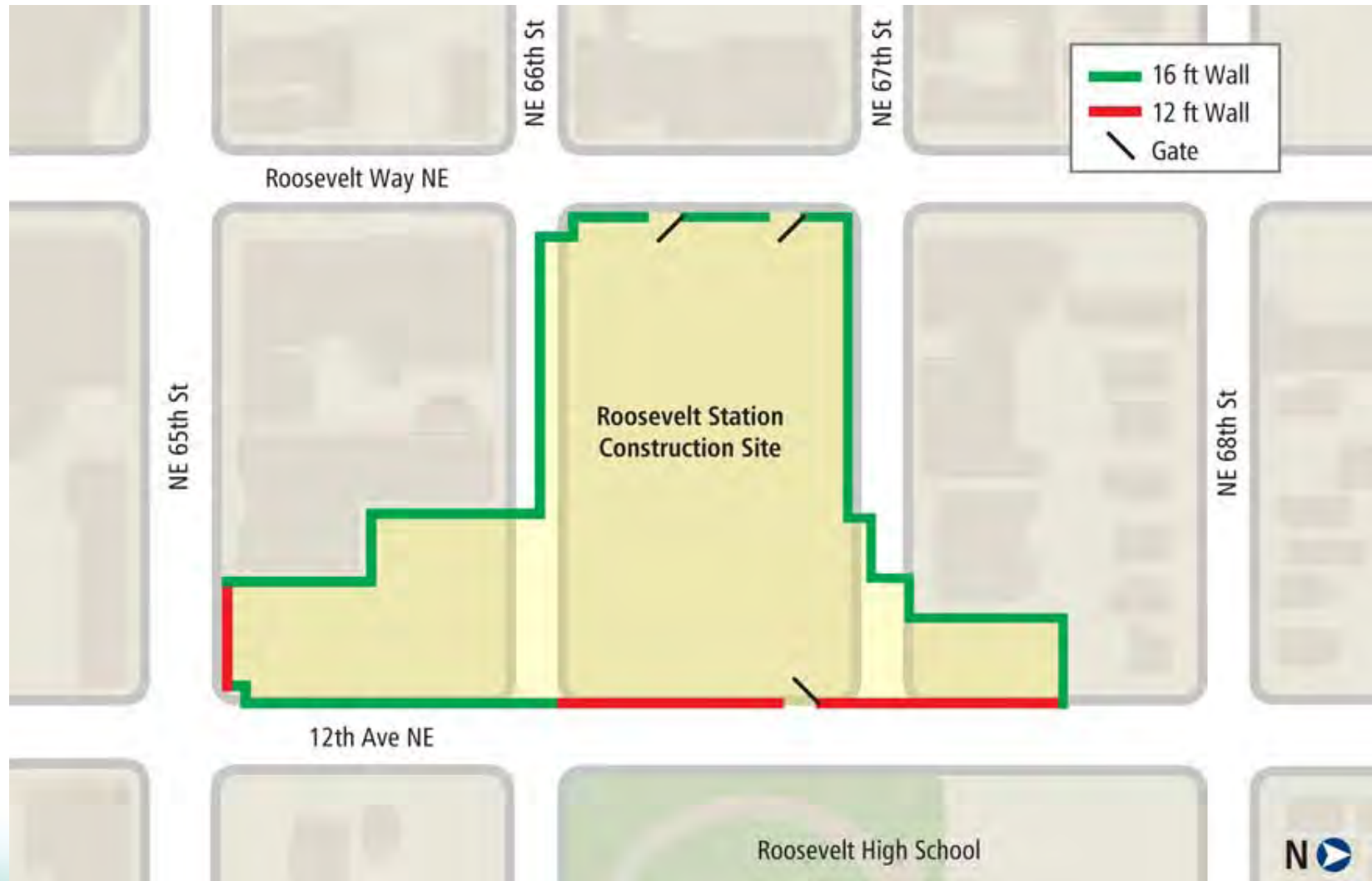
3. What Goes on at Night?



- Tunnel ventilation fans, pumps, air compressors
- Generator
- Vehicles
 - hauling and delivery trucks
 - muck haul trucks
 - front-end loaders, backhoe
 - loaders, excavators
- No high impact equipment (jackhammers, concrete saws, etc.)

3. Construction Wall

2013-2019



3. Construction Wall Photo Simulations



Corner of NE 65th St & 12th Ave NE looking northwest



Corner of NE 65th St & 12th Ave NE looking north

3. Construction Wall Photo Simulation



NE 67th St looking east

3. Noise Mitigation



- Solid plywood construction wall
- Stationary equipment (compressors, generators) enclosed in noise reducing material
- Nighttime Truck Operations
 - No beeping alarms at night
 - Engine idle limit of 5 minutes
 - No compression brakes
 - Muck haul bins lined with noise dampening material
- Monitoring

3. Level of Common Sounds

Sound	Sound Level ¹	Approximate Relative Loudness ²
Jet Plane @ 100'	130	128
120 Rock Music with Amplifier	120	64
110 Thunder, Danger of Permanent Hearing Loss	110	32
100 Boiler Shop, Power Mower	100	16
90 Orchestral Crescendo at 25 feet	90	8
80 Busy Street	80	4
70 Interior of Department Store	70	2
60 Ordinary Conversation @ 3'	60	1
50 Quiet Car at Low Speed	50	1/2
40 Average Office	40	1/4
30 City Residence, Interior	30	1/8
20 Quiet Country Residence, Interior	20	1/32
10 Rustle of Leaves	10	1/64
0 Threshold of Hearing	0	1/128

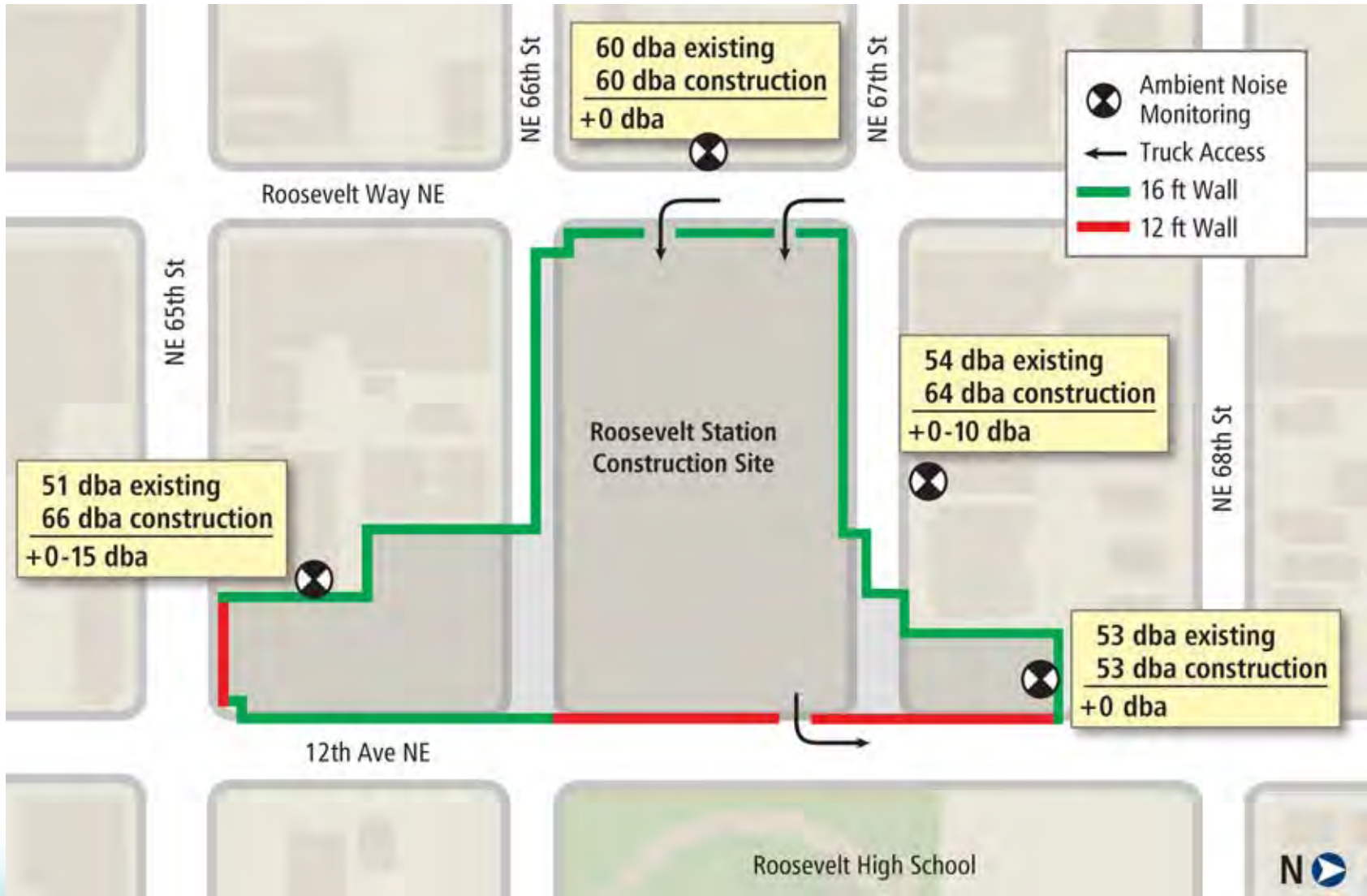
Existing nighttime noise on Roosevelt Way NE

120
110
100
90
80
70
60
50
40
30
20
10
0

Existing nighttime noise at Dwell & Roosevelt Apts.

120
110
100
90
80
70
60
50
40
30
20
10
0

3. Nighttime Noise Predictions



3. Level of Common Sounds

Sound	Sound Level ¹	Approximate Relative Loudness ²
Jet Plane @ 100'	130	128
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100 Boiler Shop, Power Mower	100	16
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20 Quiet Country Residence, Interior	20	1/32
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0 Threshold of Hearing	0	1/128

Construction noise at Dwell & Roosevelt Apts.



3. Monitoring and Responding to Complaints



- Continuous sound monitoring stations
- 24 hour Construction Hotline: 1-888-298-2395
- Independent response by City Noise Abatement Specialist
- City, ST and contractor will investigate, determine how to prevent future incidents, and respond back to caller
- City review after 1 year

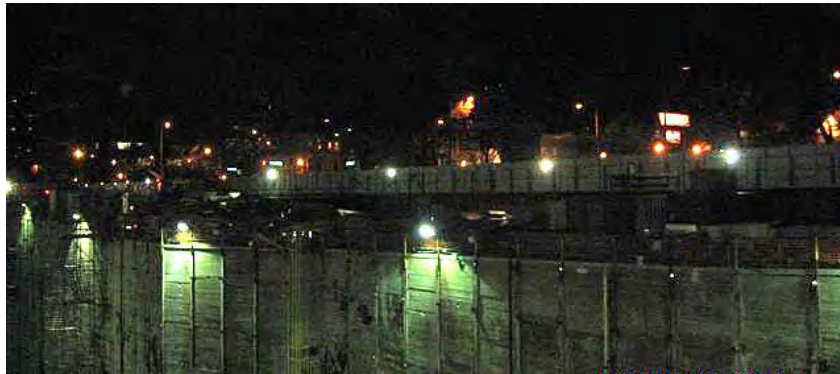
3. Noise Variance Next Steps



- Receive comments and questions tonight; incorporate feedback into variance application
- City of Seattle (DPD) will hold a public meeting to receive comments this summer
- City will decide whether to approve a noise variance within 60 days after public comment is received
- Contractor will prepare a detailed noise management plan
- Follow-up information at meeting(s) later this year
- Box excavation begins late 2013



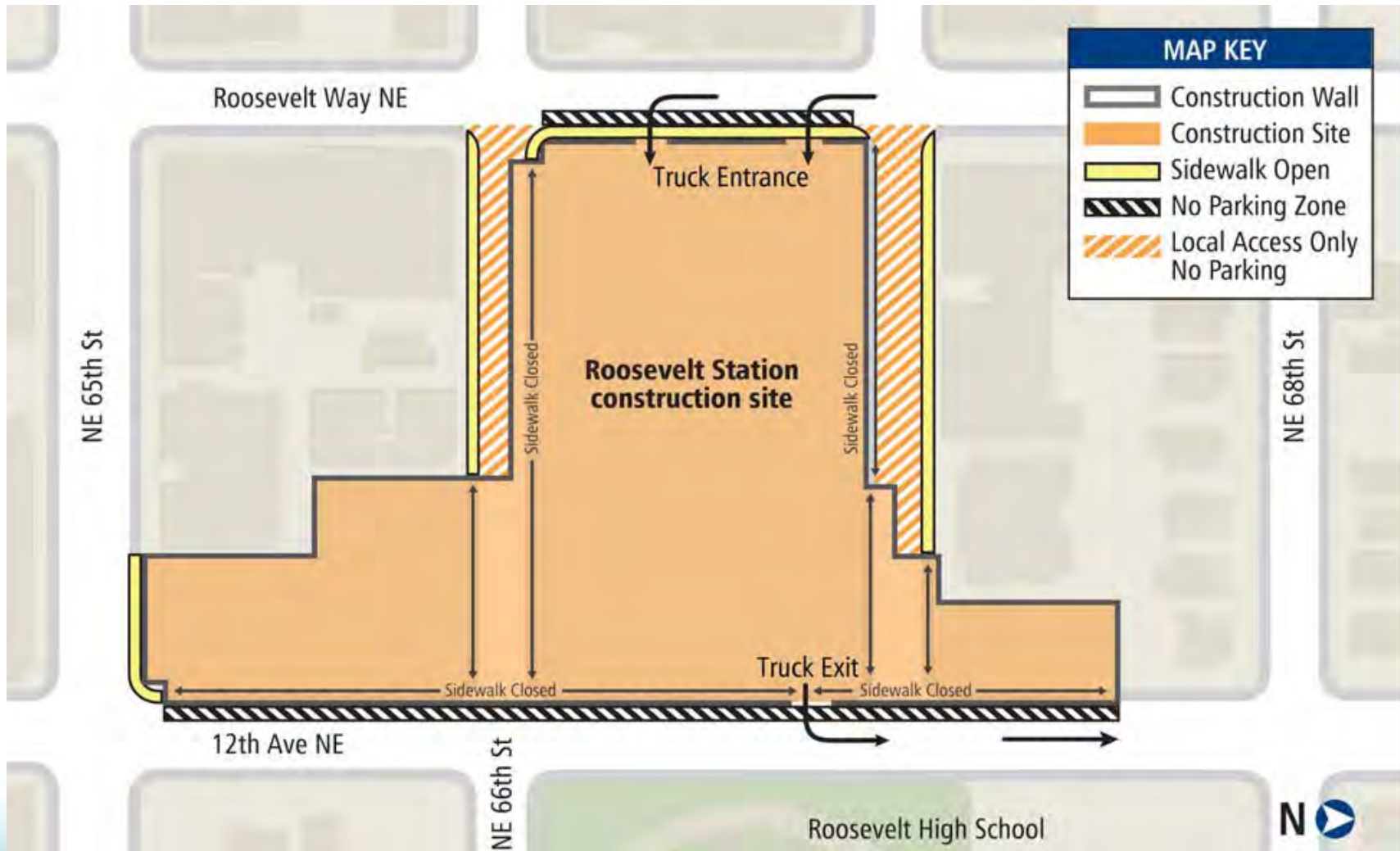
3. Exterior Construction Wall Lighting



- Construction lighting
 - inside construction walls
 - fixtures shrouded, directing light downward
- Security lighting
 - exterior lighting on construction walls
 - Balance illumination for security while minimizing stray lighting

4. Station Construction Contract

2017-2019



Project Next Steps



- Station 60% design open house – April 11, 2012
- Cloud 9 building
- Station naming



Questions?



Get Involved and Stay Informed



- Attend Final Design Open Houses
 - Learn more about your neighborhood station's design including bike facilities, pedestrian and bike connections and public art
- Sign Up to Receive Email Updates
 - www.soundtransit.org/subscribe
- Sound Transit Website
 - www.soundtransit.org/northlink
- Contact Ellen Blair:
 - 206.398.5043
 - northlink@soundtransit.org

