



# *West Seattle and Ballard Link Extensions*

CID研讨会 #2

2022年11月16日

# Union Station和广场引流

# 我们从研讨会#1听到的内容

## What we heard from Workshop #1

字体大小是基于研讨会#1中投票活动的结果。  
Responses are sized based on the dot polling activity result in Workshop #1.

- 安全设施, 比如路灯  
Safety features, e.g. lighting
- 餐饮/食物/零售  
Dining/food/vending
- 零售空间/售货亭  
Retail spaces/kiosks

- 标示设施, 比如行人导向标示、公共艺术  
Signage, e.g. wayfinding, public art
- 园境设计  
Landscaped areas
- 公众设施, 比如座位区、自行车停放处  
Public amenities, e.g. sitting areas, places for bicycles
- 活动, 比如社区活动、市集、表演、展览、锻炼课程  
Activities, e.g. community events, markets, performances, exhibitions, exercise classes

### 您会想如何利用这个广场? How would you like the plaza to be used?

- 具有亚洲特色的多元文化农贸市场  
Multicultural farmers market (Asian specialty)
- 室外餐饮/食物 **Outdoor dining/food**  
锻炼课程 Exercise classes  
艺术或文化展览 Art or cultural exhibitions 社区节庆 **Community celebrations**
- 零售空间/售货亭 **Retail spaces/kiosks**
- 室外夜市 **Outdoor night market**
- 自动售货机 **Vending carts**  
适合各年龄段使用的设施 Intergenerational use of plaza space/facilities  
根据International Special Review District (ISRD)的指导, 增设具有亚洲特色的 design characteristics as per International Special Review District (ISRD)
- 表演 **Performances**

### 您希望在这个广场上看到什么设施? What amenities would you like to see in the plaza?

- 社区介绍的讯息  
Neighborhood Information
- 行人导向标示 **Wayfinding signs** 公共艺术 **Public art**  
放置自行车的地方 Places for bicycles
- 座位区 **Sitting areas** 多语言标示 Multilingual signs
- 园境设计 **Landscaped areas**
- 路灯 **Overhead lights** 漂亮的灯——串联的仙女灯  
Pretty lights – string fairy lights

### 您会想看到联合车站被如何使用? What uses would you like to see in Union Station?

- 尽可能地保留历史特征  
Preserve Historic character as much as possible
- 锻炼课程 Exercise classes 像波士顿Faneuil Hall或圣地亚哥的Liberty Station一样  
“即拿即走”的快餐 “Grab and go” dining Like Boston Faneuil Hall or San Diego's Liberty Station
- 交通讯息 Transit information 表演 **Performances**
- 室内集市 **Indoor market**
- 展览 Exhibitions 座位区 **Sitting areas**  
警务人员 Police presence
- 咖啡店/茶店 **Café/tea shop**
- 社区活动 **Community events** 零售/餐车 **Vending/food carts**
- 音乐 **Music** 声学效果更好, 功能更适用。支持BIPOC商店可支付的空间  
Better acoustics, more functional. Other spaces to support commercial affordability for BIPOC businesses
- 其它小型企业 Other small businesses 致力于亚洲艺术的艺术中心 (电影、戏剧)  
Art center dedicated to Asian arts (films, theater)

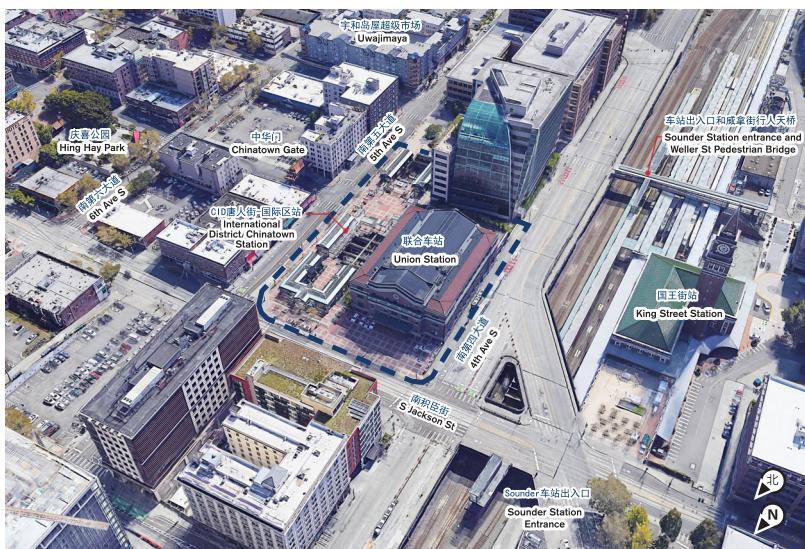
### 怎样能让您在广场上感到更安全呢? What would help you feel safer in the plaza?

- 在广场上设置一个24小时有人当值的警务站  
Locate a police substation in plaza that is manned 24/7
- 有24小时的安全感  
Safety first, 24 hours
- 希望有更多人来光临这区/不只是走过的游客  
More people visiting the area/  
not just walking through to tourist
- 晚上入黑要多街灯  
Lights at night/dark
- 注意雨水的排放—防止车辆（公交车！）喷湿整个人行道  
Attention to rainwater drainage – to prevent vehicles (buses!) spraying entire sidewalks!  
(E.g. west side of 4th, outside Union Station). Tourists get showered!



你希望在广场上和联合车站内设置以下的项目？

Where would you like to see these uses  
on the plaza and in the Union Station?



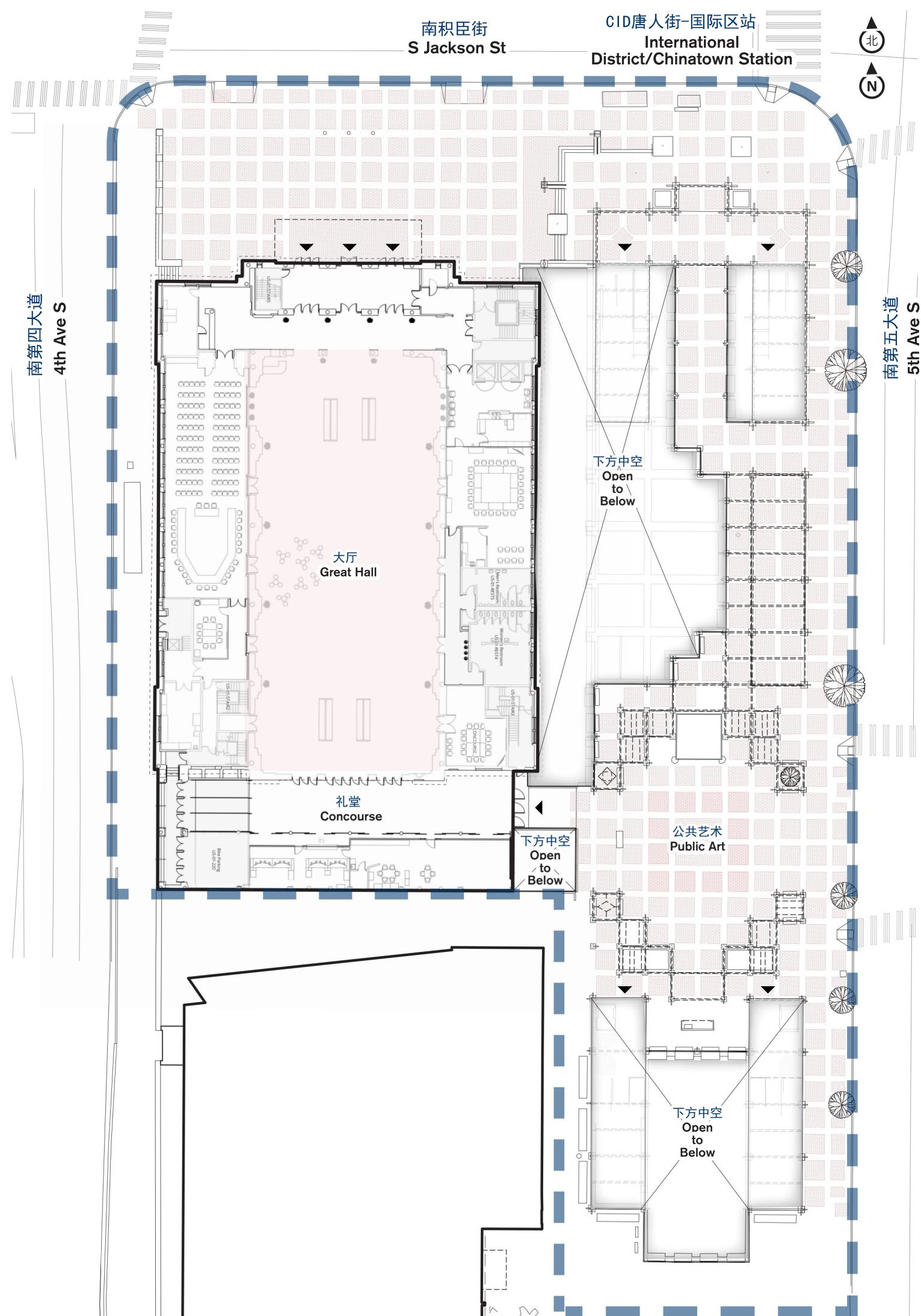
潜在的用途和特别项目  
Potential uses and features

- 安全设施, 比如路灯  
Safety features, e.g. lighting
- 餐饮/食物/零售  
Dining/food/vending
- 零售空间/售货亭  
Retail spaces/kiosks
- 标示设施, 比如行人导向标示、公共艺术  
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Activities, e.g. community events, markets, performances, exhibitions, exercise classes

这项活动只属探讨性质，并不代表Sound Transit承诺修改这里所描述的任何特定空间。实施工作需要Sound Transit董事会作进一步决定和研究。

This activity is intended to support exploration and discussion only, and does not represent a commitment by Sound Transit to modify any particular spaces depicted here. Further study and action by the Sound Transit Board will be necessary to support implementation.

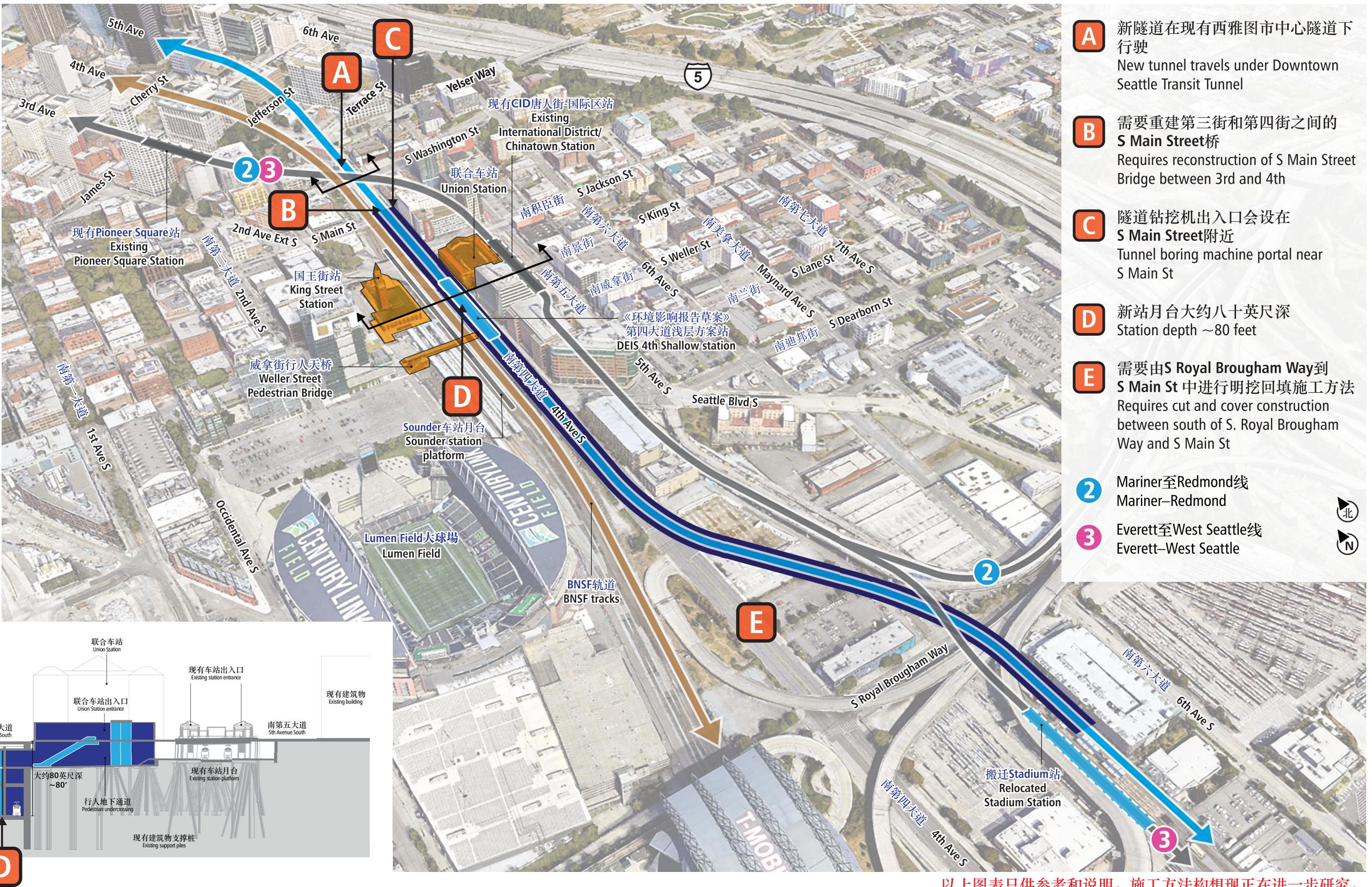
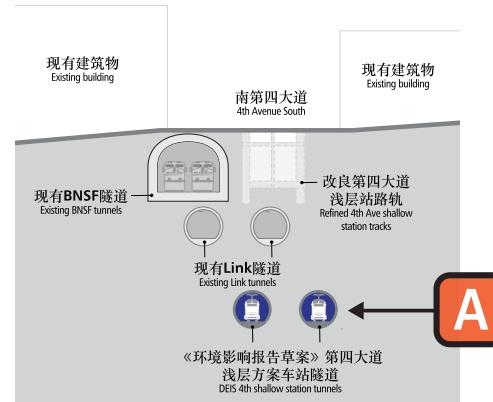
联合车站和广场 Union Station and plaza area



# 4th Shallow – 改良构思 和施工注意事项

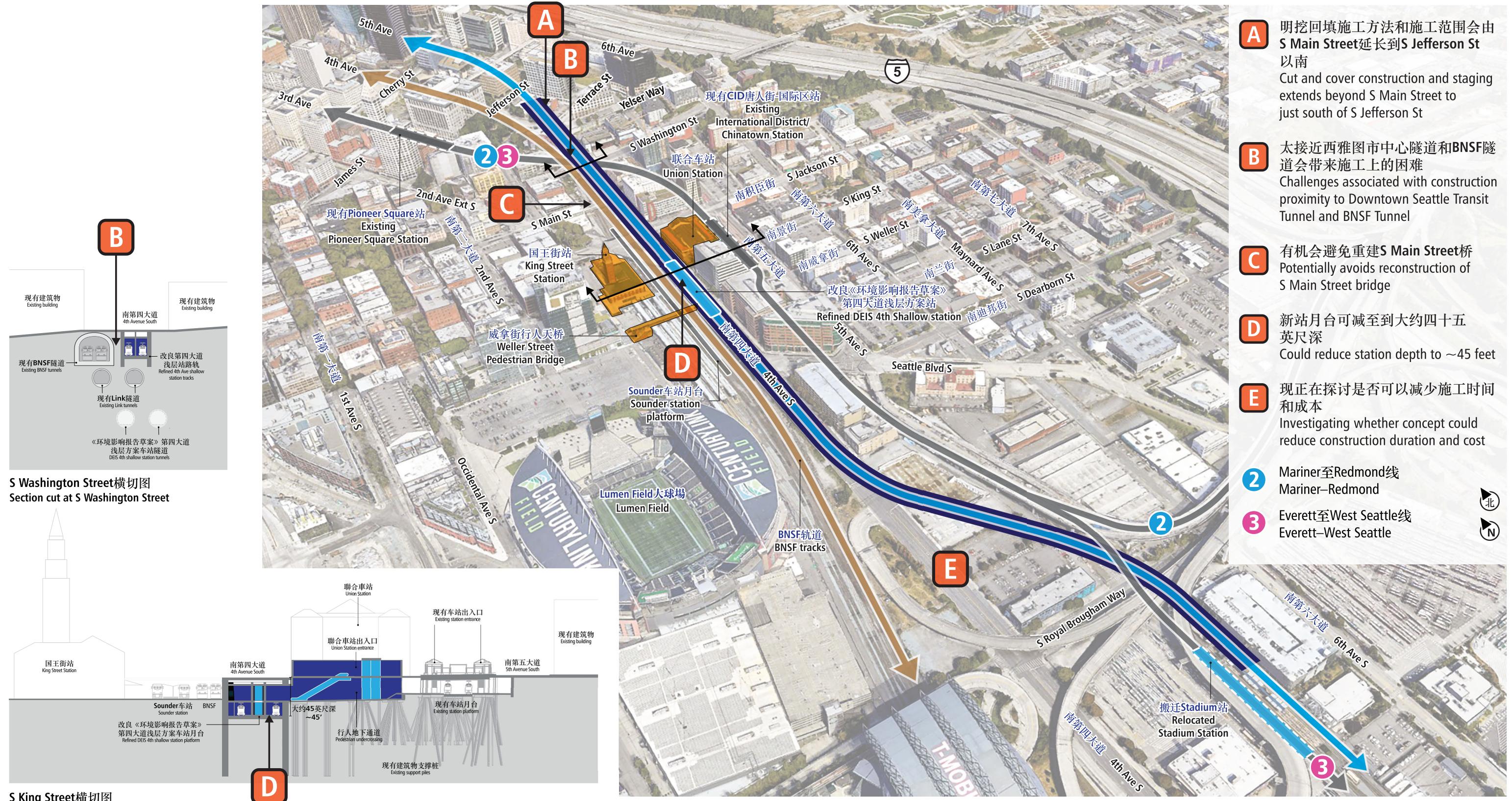
# 施工注意事项 - 《环境影响报告草案》第四大道浅层方案车站

## Construction considerations – Draft EIS 4th Ave Shallow station



# 施工注意事项 - 改良《环境影响报告草案》第四大道浅层方案车站构想

## Construction considerations – refined Draft EIS 4th Ave Shallow station concept



# 探讨减少施工对社区影响的方法

Exploring methods to reduce construction impacts to neighborhood

挡土墙/桥梁结构  
施工技术  
Retaining wall/  
bridge structure  
construction  
technique

隔音牆/屏障  
Sound walls/barriers

低噪音施工设备  
Low-noise  
equipment

施工阶段分期关闭  
Phased construction  
closures

临时性道路铺面  
Temporary roadway  
decking

用暂时性艺术/创意  
建筑阻隔墙  
Temporary art/creative  
construction screening

限制施工时间在  
白天运作  
Limiting construction  
work hours to daytime

交通运作管理  
Access management

# 4th Shallow – 通风、城市 设计和邻里连接路线

# 通风和紧急出口选项 - 第四大道浅层车站方案

## Ventilation and emergency egress options - 4th Ave Shallow station

### 隧道通风的设计和运作

#### Design and operation of tunnel ventilation

车站两端都需要通风

**Ventilation needed at both ends of station**

轻轨车辆使用电力运作

**Light rail vehicles operate using electric power**

通风扇仅在紧急情况下启动，以排出隧道内的烟雾

**Vent fans would be activated only in emergencies to exhaust smoke from tunnel**

通风扇每月短暂运行一次，目的是测试其有效性

**Vents are run once a month for a brief period to validate functionality**

结构的高度决定在与运作的建筑距离

**Structure height determined by proximity to occupied buildings**

### 案例 Examples



这个紧急出口位于波士顿的车站  
结合了凳子和遮阳棚

**Incorporating benches and weather protection at a station emergency egress stair in Boston**



位于西雅图UW车站的垂直通风口  
**Vertical ventilation at UW Station in Seattle**



这个波士顿的例子将通风设施与历史建筑结合  
**This example in Boston illustrates an example of integrating ventilation with historic building**

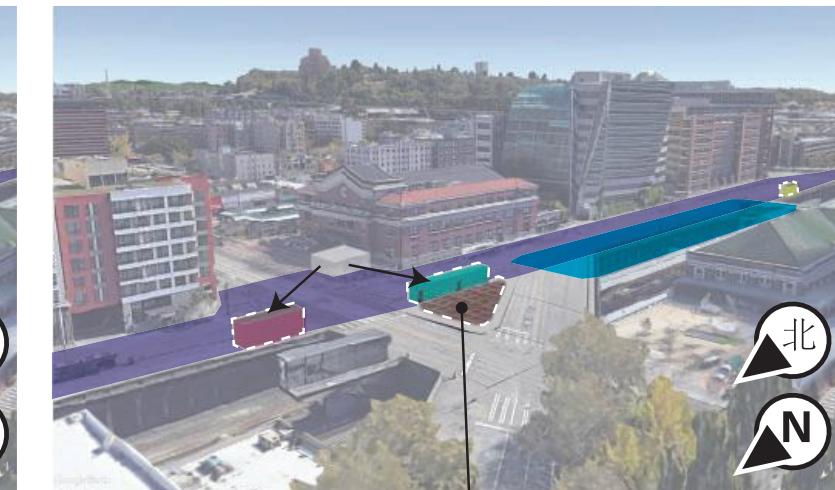
南积臣街北边的两端

**Both north of South Jackson Street**



分布于南积臣街的两端

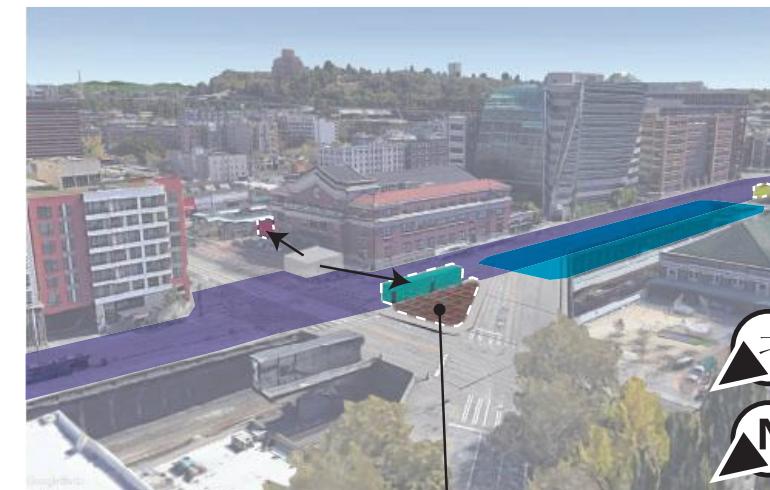
**Split on either side of South Jackson Street**



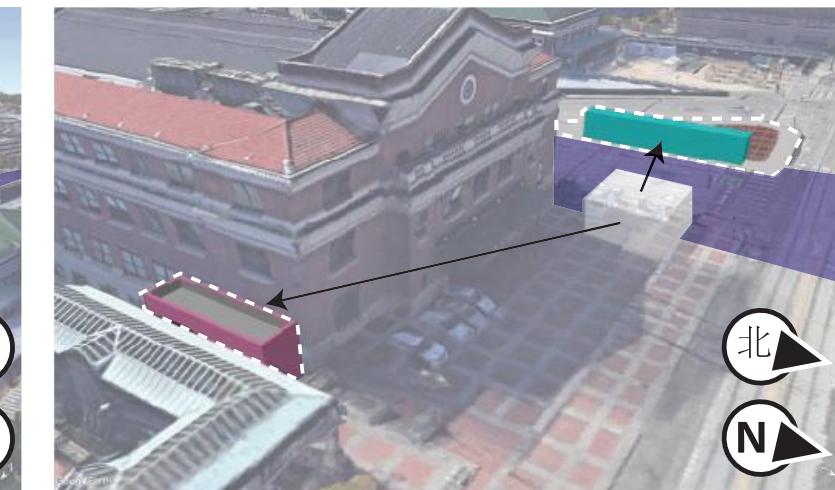
有可能需要在这个位置加一个上盖  
**Potential need to add a lid in this location**

联合车站的东侧和南积臣街的南端

**East side of Union Station and south of South Jackson Street**



有可能需要在这个位置加一个上盖  
**Potential need to add a lid in this location**



### 图例

#### Legend

	《环境影响报告草案》北部隧道通风和紧急出口位置 <b>DEIS location for North Tunnel Ventilation and Emergency Egress</b>
	北部隧道通风 <b>Ventilation Building - North Tunnel</b>
	南部隧道通风 <b>Ventilation Building - South Tunnel</b>
	北部紧急出口 <b>Emergency Egress North</b>
	高架桥更换工程 <b>Viaduct replacement work</b>
	车站位置 <b>Station Location</b>

# 第四大道浅层站-CID唐人街-国际区站连接Sounder车站隧道构想

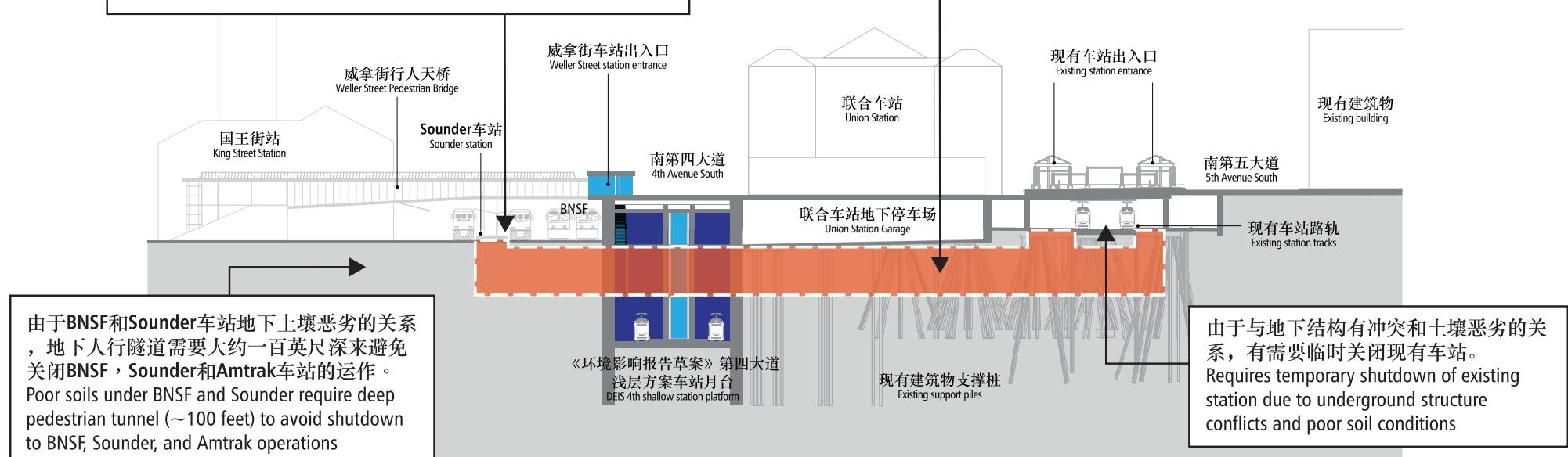
## 4th Ave Shallow station – Link to Sounder transfer tunnel concept



横切平面图 Section plan

现有Sounder车站的平台没有足够的宽度来安全地容纳楼梯和电梯。如扩宽月台会需要关闭或重新安置国王街站的轨道  
Current Sounder platform does not have sufficient width to safely accommodate vertical circulation. Widened platform would require closure and/or relocation of tracks at King St Station

影响现有建筑物支撑桩  
Affects existing building support piles



横切图 Section

以上图表仅展示社区要求的构想，目的只供讨论。此构想尚未有作进一步设计。  
Diagram illustrates community-requested concept for discussion purposes only. Concepts have not been engineered.

# 《环境影响报告草案》第四大道浅层方案车站加建上盖概念:社区提出第四大道交通绕道构想

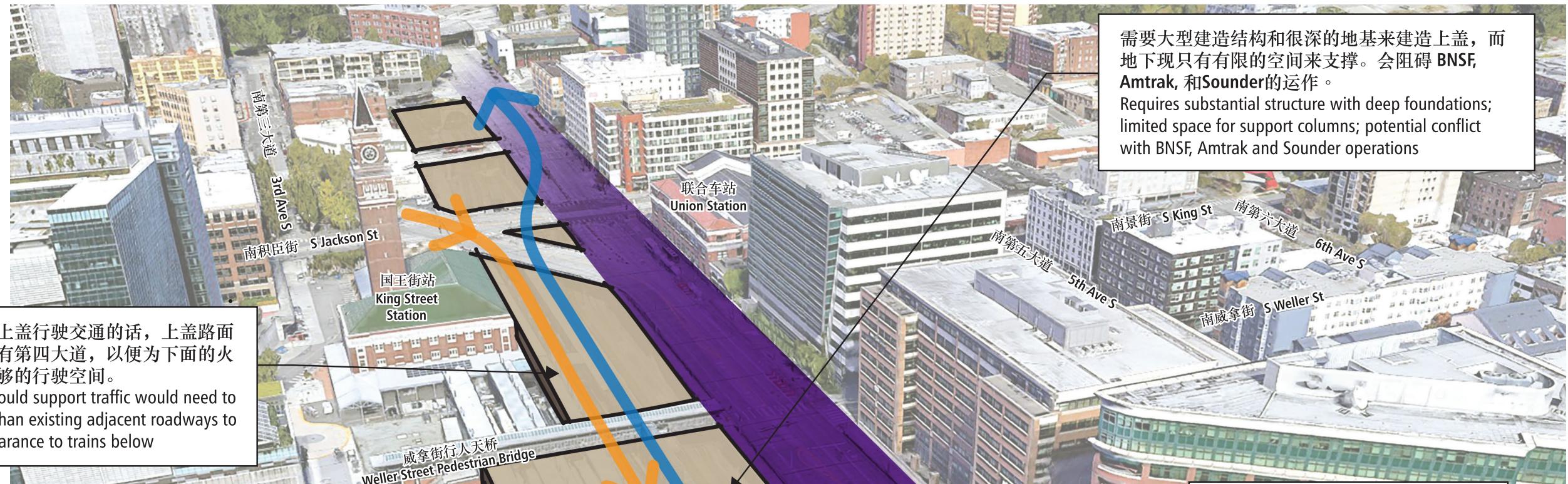
## Lid concept for Draft EIS 4th Shallow station – community proposed 4th Ave traffic detour idea

道路工程的界限  
Limits of roadway construction

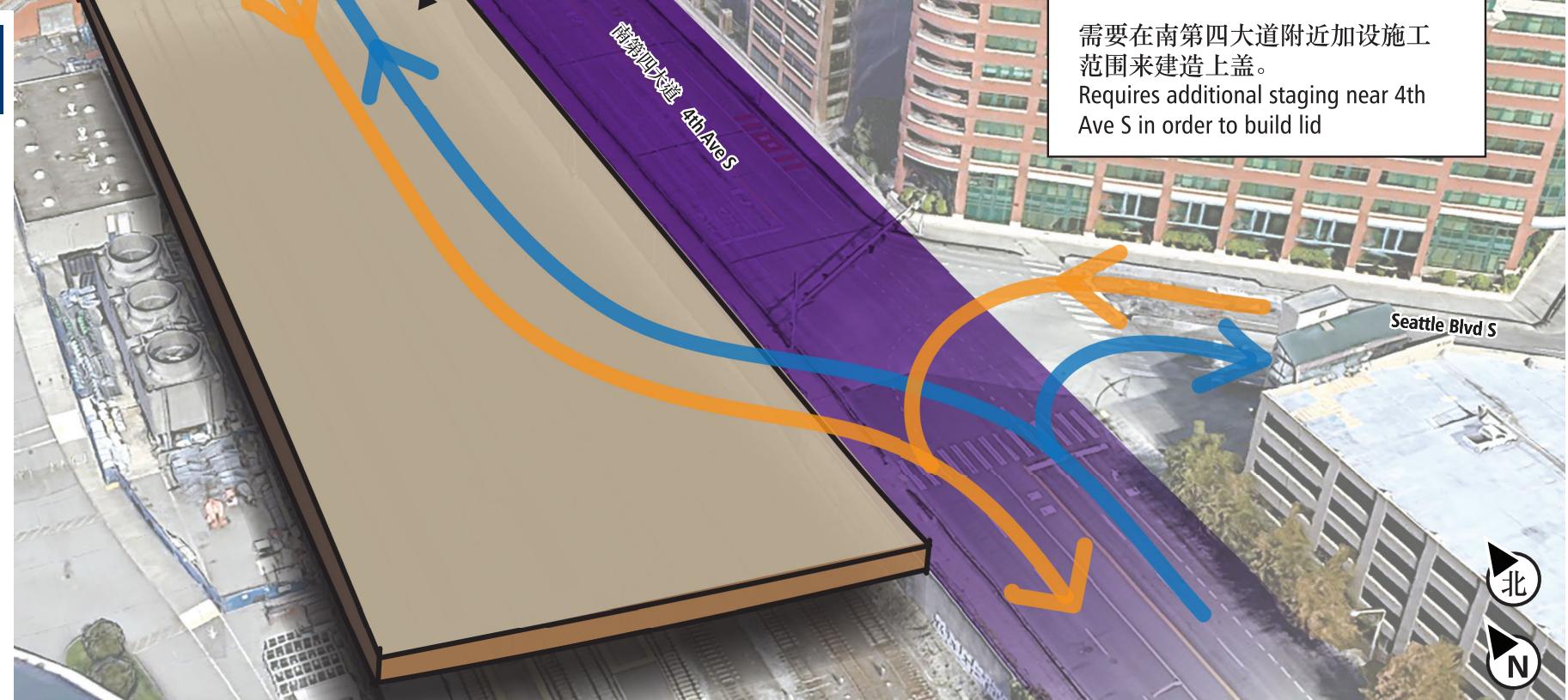
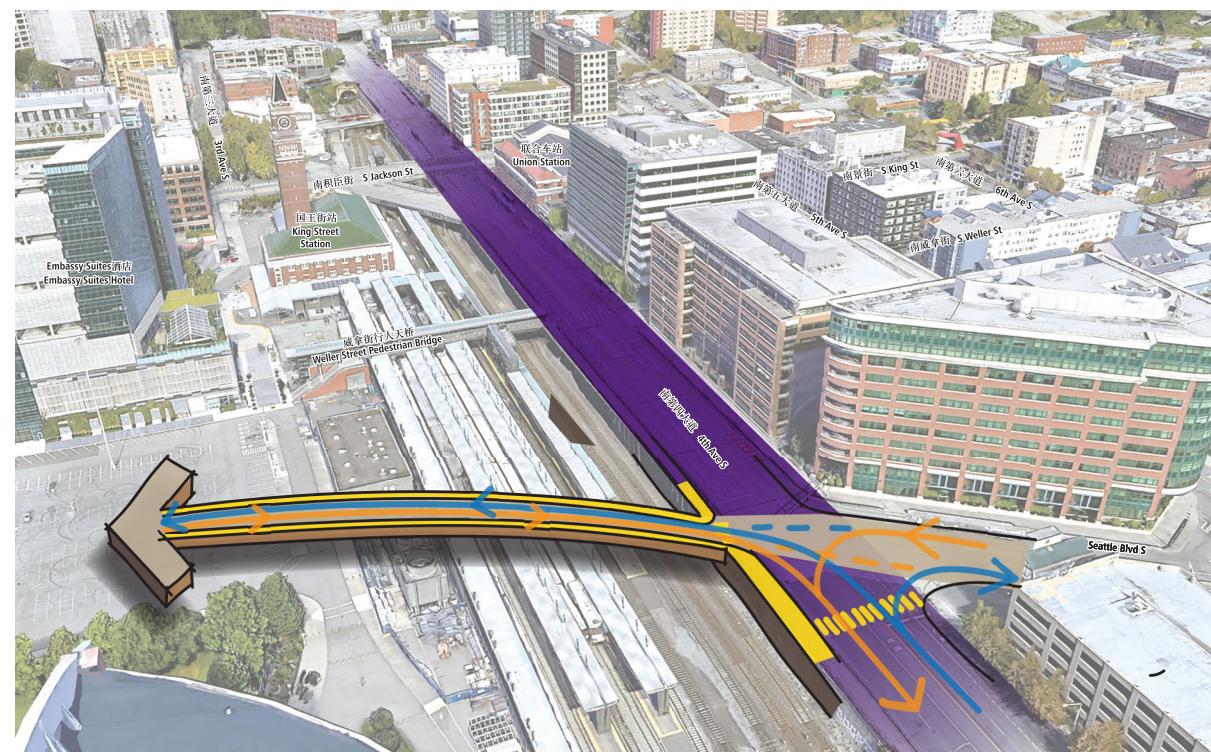
上盖  
Lid

往北行绕道  
Northbound detour

往南行绕道  
Southbound detour



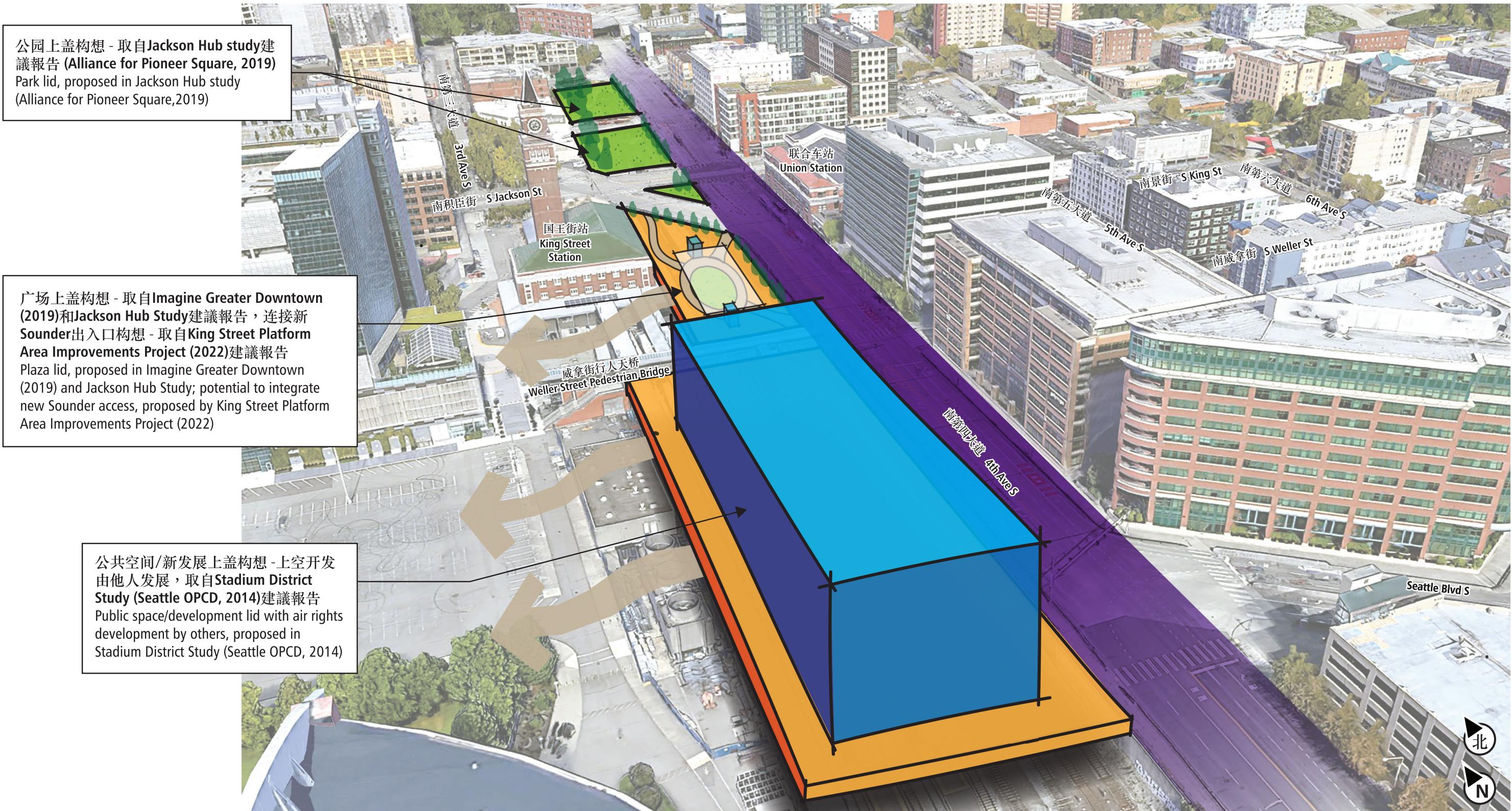
其他构想: 近Seattle Blvd S横过BNSF的新连接概念  
Other idea: new connection across BNSF near Seattle Blvd S



以上图表仅展示社区要求的构想, 目的只供讨论。此构想尚未有作进一步设计。  
Diagram illustrates community-requested concept for discussion purposes only. Concepts have not been engineered.

# 其他加建上盖概念: 社区开放空间与发展机会构想

## Other lid concepts – Community open space and development



# 其他想法 – 初步评估

# 初步评估--CID唐人街-国际区以北/Pioneer Square区域 Initial assessment - North of CID/Pioneer Square

## 两者的共同点 Common to both



为CID唐人街-国际区、Pioneer Square, 和市中心以南区域/Midtown提供服务, 步行距离约10分钟。

Serves CID, Pioneer Square, and south end of downtown/midtown within a 10-minute walk



步行至Sounder车站入口处的时间超过5分钟  
可在未来的1号线 (Ballard/Tacoma)、2号线 (Mariner/Redmond) 和3号线 (Everett/West Seattle) 之间转线。

Greater than 5-minute walk to Sounder station entrance

Allows transfers between future 1 Line (Ballard/Tacoma), 2 Line (Mariner/Redmond), and 3 Line (Everett/West Seattle)



避免车站施工直接影响到CID唐人街-国际区;  
卡车交通和绕行路线可能影响CID唐人街-国际区

施工可能会影响Pioneer Square/市中心南部

Avoids direct station construction disruption in CID; truck traffic and detour routes may affect CID

Construction disruptions may affect Pioneer Square/South Downtown area



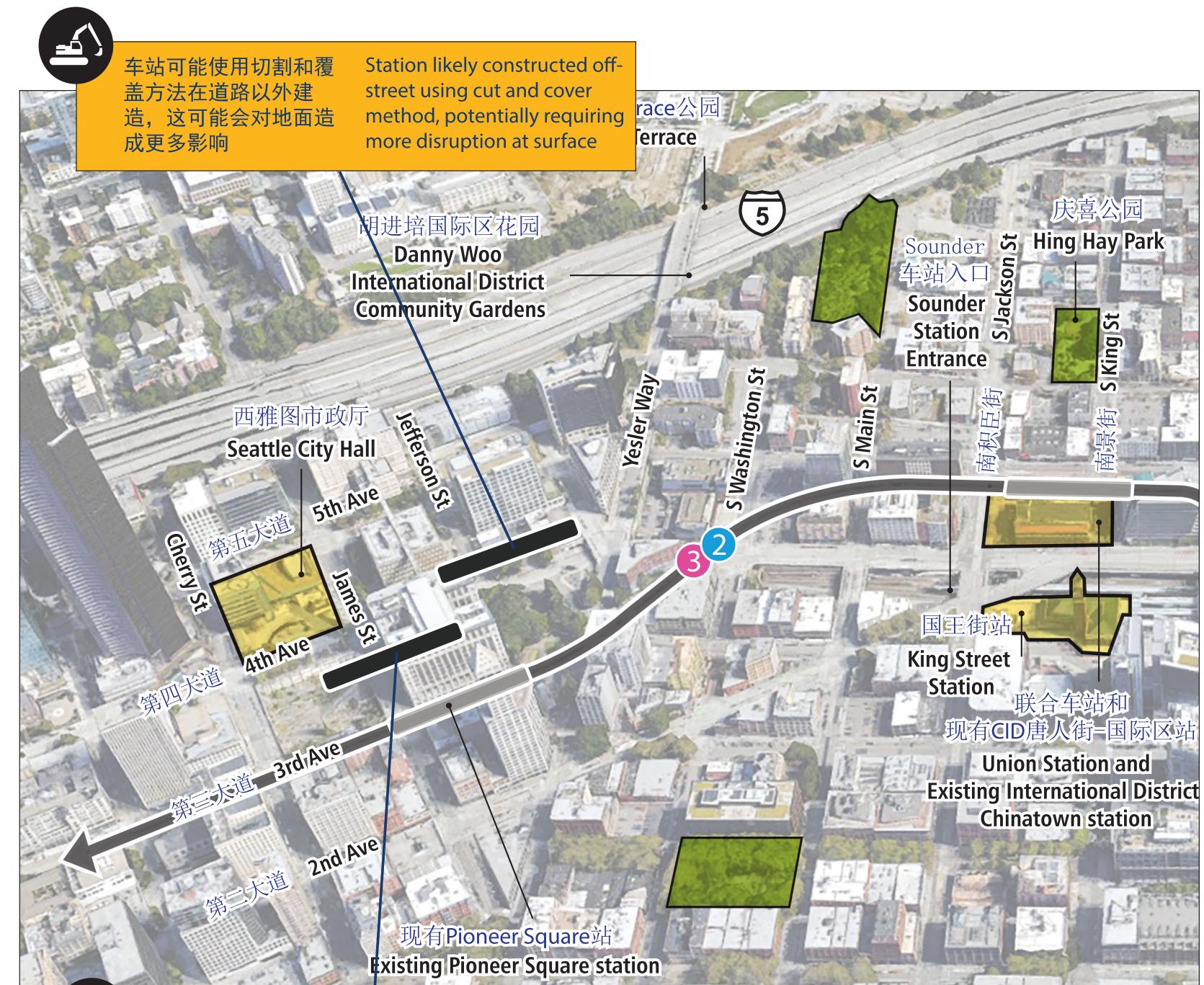
可服务到的社区  
Communities Served

对接接驳客的使  
用性  
Utility for  
regional riders

施工作出的影响  
和可行性  
Construction  
disruptions  
and feasibility



考虑的车站位置  
Potential station location



车站有可能在私人和公共土地地下进行挖掘的工程。有可能影响到City Hall Park未来的发展规划

Station likely mined under private and public property, potentially affecting planned future development at City Hall Park



# 初步評估--CID唐人街-國際區以南區域/Stadium Initial assessment - South of CID/Stadium

**两者的共同点 Common to both**

为CID唐人街-国际区、Lumen Field大球场 / TMobile Park大球场和SODO北部提供服务，步行距离约10分钟。  
Serves CID, Lumen Field/T-Mobile Park, and northern SODO within a 10-minute walk

可在未来的1号线（Ballard/Tacoma）和3号线（Everett/West Seattle）之间在Stadium 转线，但有可能转换不到2号线（Mariner/Redmond）。  
May allow transfers between future 1 Line (Ballard/Tacoma) and 3 Line (Everett/West Seattle) at Stadium, but likely not 2 Line (Mariner/Redmond)

避免了车站施工直接影响CID唐人街-国际区；绕道和道路关闭可能会影响到CID唐人街-国际区。明挖回填施工方法可能影响道路，以及CID唐人街-国际区南部的现有及计划中的开发项目。  
A avoids direct station construction disruption in CID; some detours and roadway closures may affect CID  
Cut and cover construction may affect roadways and access to existing and planned developments south of CID



可服务到的社区  
Communities Served



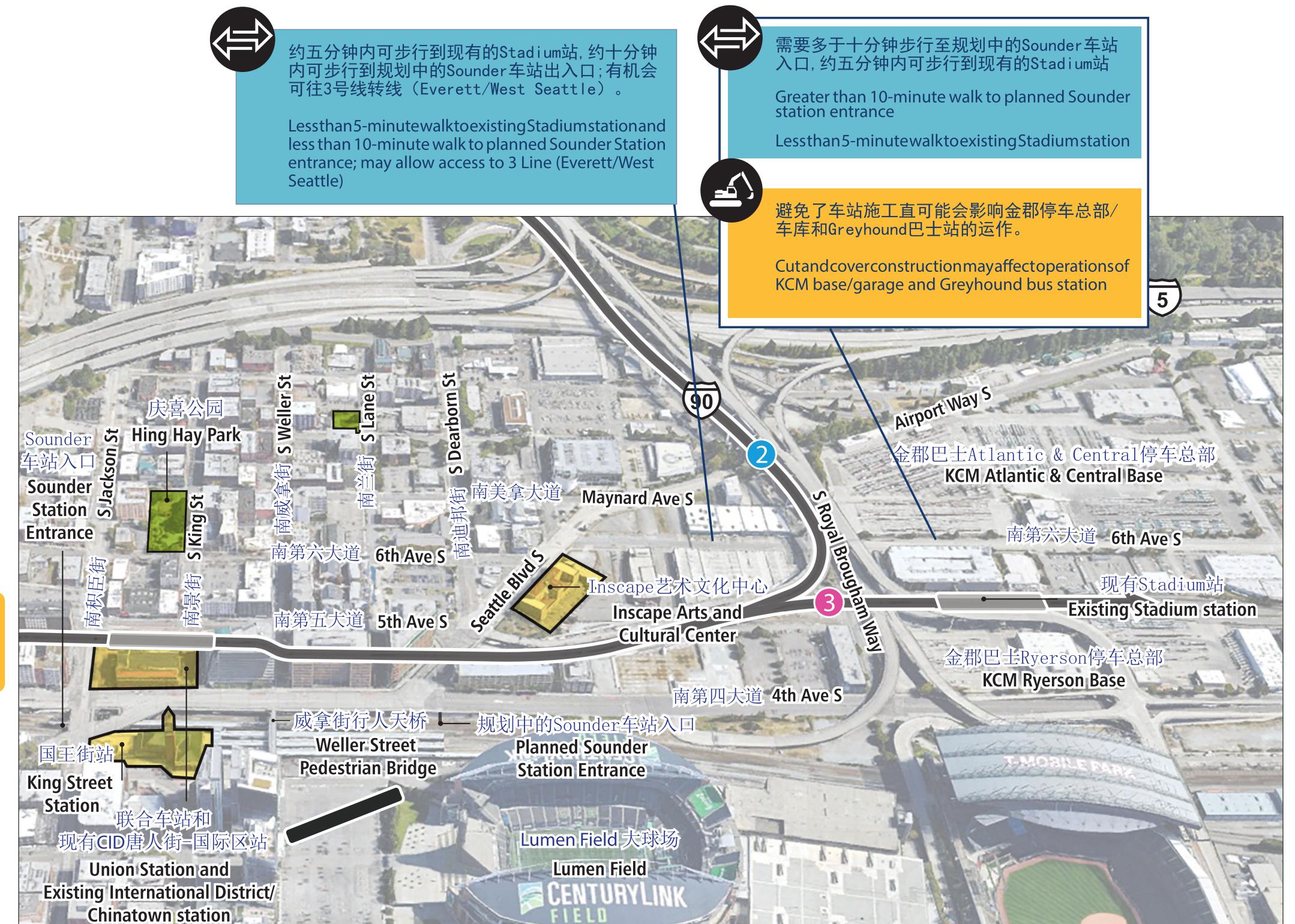
对接接驳搭客的使用性  
Utility for regional riders



施工作出的影响  
and可行性  
Construction disruptions and feasibility



考虑的车站位置  
Potential station location



# 初步评估--CID唐人街-国际区以西/Lumen Field

## Initial assessment - West of CID/Lumen Field

### 兩者的共同點 Common to both



为CID唐人街-国际区、Lumen Field大球场 / TMobile Park大球场和SODO北部提供服务，步行距离约10分钟。

Serves CID, Lumen Field, and Pioneer Square within a 10-minute walk



步行约5分钟可到达Sounder车站 出入口和国王街车站内 Amtrak服务台

可通过威拿街行人天桥，在现有CID唐人街-国际区站来转换未来的1号线 (Ballard/Tacoma)，2号线 (Mariner/Redmond)，以及 3号线 (Everett/West Seattle)

Less than 5-minute walk to Sounder station entrance and Amtrak service at King Street Station

May allow transfers between future 1 Line (Ballard/Tacoma) to 2 Line (Mariner/Redmond) and 3 Line (Everett/West Seattle) at IDS via Weller Street Pedestrian Bridge



避免了车站施工直接影响CID唐人街-国际区；  
避免了CID唐人街-国际区关闭主要道路

施工干扰和大型工程车可能会影响Pioneer Square

Avoids direct station construction disruption in CID; avoids major roadway closures in CID

Construction disruptions and truck traffic may affect Pioneer Square



可服务到的社区  
Communities Served



对接接驳客的使  
用性  
Utility for  
regional riders



施工作出的影响  
和可行性  
Construction  
disruptions  
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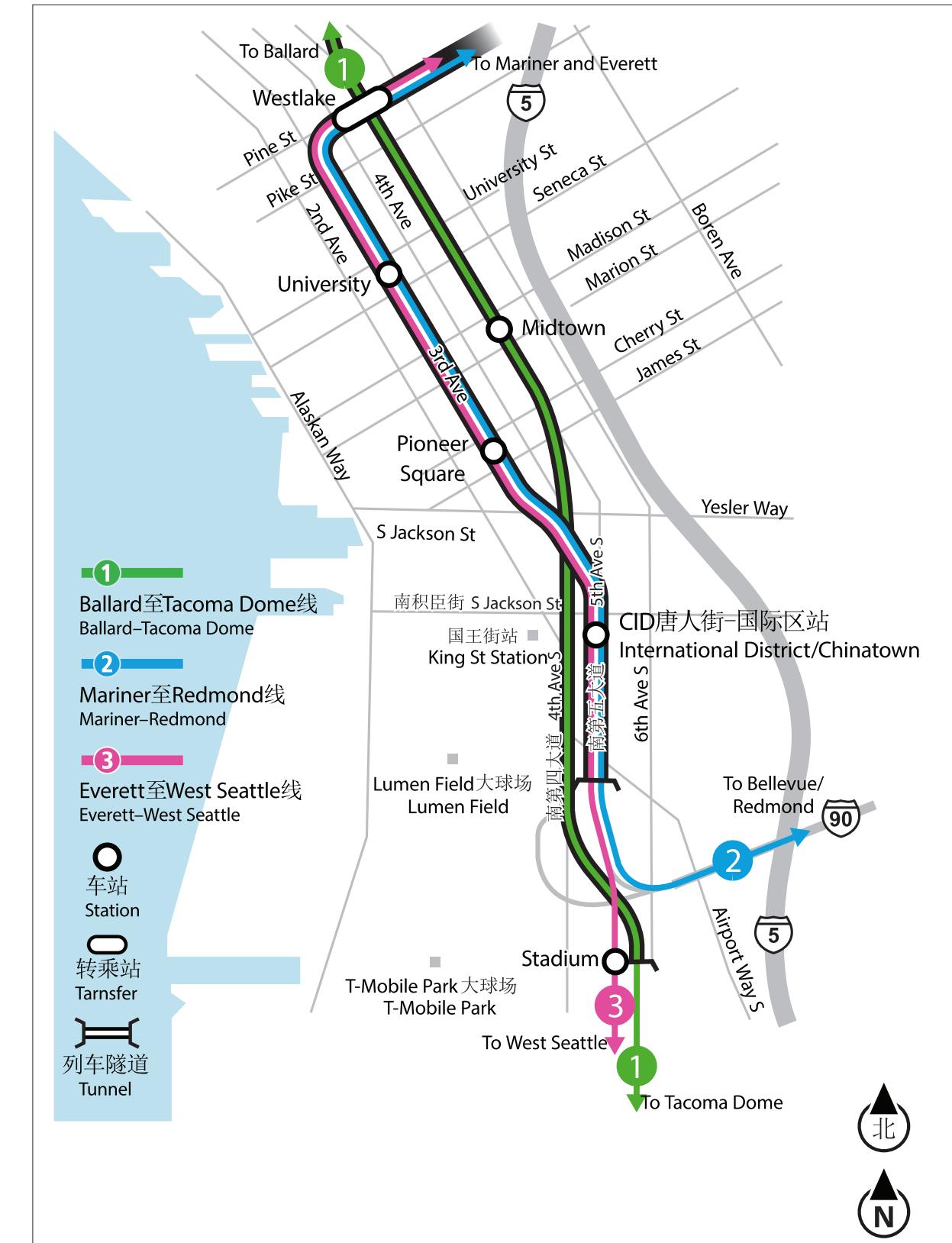
考虑的车站位置  
Potential station location



图示为车站的大概的位置，仅供参考和说明目的。  
Diagrams are an approximate representation of station location for illustrative purposes only

# 初步評估 – 無CID站

## Initial assessment - No CID Station



# 初步评估--建议不再推进

## Initial assessment - Proposed to not move forward

### 第五大道积臣街以北

#### 5<sup>th</sup> Avenue north of S Jackson Street

车站构造不符合在路权范围内，并有可能影响到现有和未来规划的发展。

Station would not fit within street right-of-way and would potentially affect existing and planned developments.

### 利用现有的downtown隧道

#### Use existing downtown tunnel

不符合ST3计划，该计划提出了第二条隧道，以适应整个地区未来的服务水平和系统扩展。

Not consistent with ST3 plan, which proposed a second tunnel in order to accommodate future service levels and system expansions across the region.

### 联合车站下方

#### Below Union Station

会对现有和历史建筑的带来很大的影响，或导致车站设置到非常深。

Results in substantial effects to existing and historic structures, or very deep station.

### 联合车站停车场/救世军

#### Union Station Garage/Salvation Army

对现有建筑和第四大道高架桥带来很大的影响，或导致车站设置到非常深。

Results in substantial impacts to existing buildings and 4th Ave viaduct, or very deep station.

### 在CID唐人街国际区以南增设东线转换站

#### Infill East Link transfer station south of CID

由于从I-90线进入CID唐人街-国际区站的坡度和弯曲度，需要一个难以实现的车站设计。

Requires an impractical station design due to grade and curvature of approach to IDS station from I-90 alignment.

### Judkins公园到First Hill

#### Judkins Park to First Hill

对现有建筑和第四大道高架桥带来很大的影响，或导致车站设置到非常深。

Idea envisions a different corridor and serves different station areas than those identified in voter-approved ST3 plan.



访问我们的网站并订阅电子邮件以获取项目更新：

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其他信息形式 : 800-201-4900 / TTY: 711 | 电子邮件 : [accessibility@soundtransit.org](mailto:accessibility@soundtransit.org)