



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

根据International Special Review District (ISRD) 的指导, 增设具有亚洲特色的设计
Add Asian (Chinese) design characteristics as per International Special Review District (ISRD)

适合各年龄段使用的设施
Intergenerational use of plaza space/facilities

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
放置自行车的地方 Places for bicycles

公共艺术 Public art

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
“即拿即走”的快餐 “Grab and go” dining
像波士顿Faneuil Hall或圣地亚哥的Liberty Station一样
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
其它小型企业 Other small businesses
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

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 (公共汽车!) 溅湿整个人行道
(例如, 第四大道的西侧, 联合车站外)。游客们会被淋湿!
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?



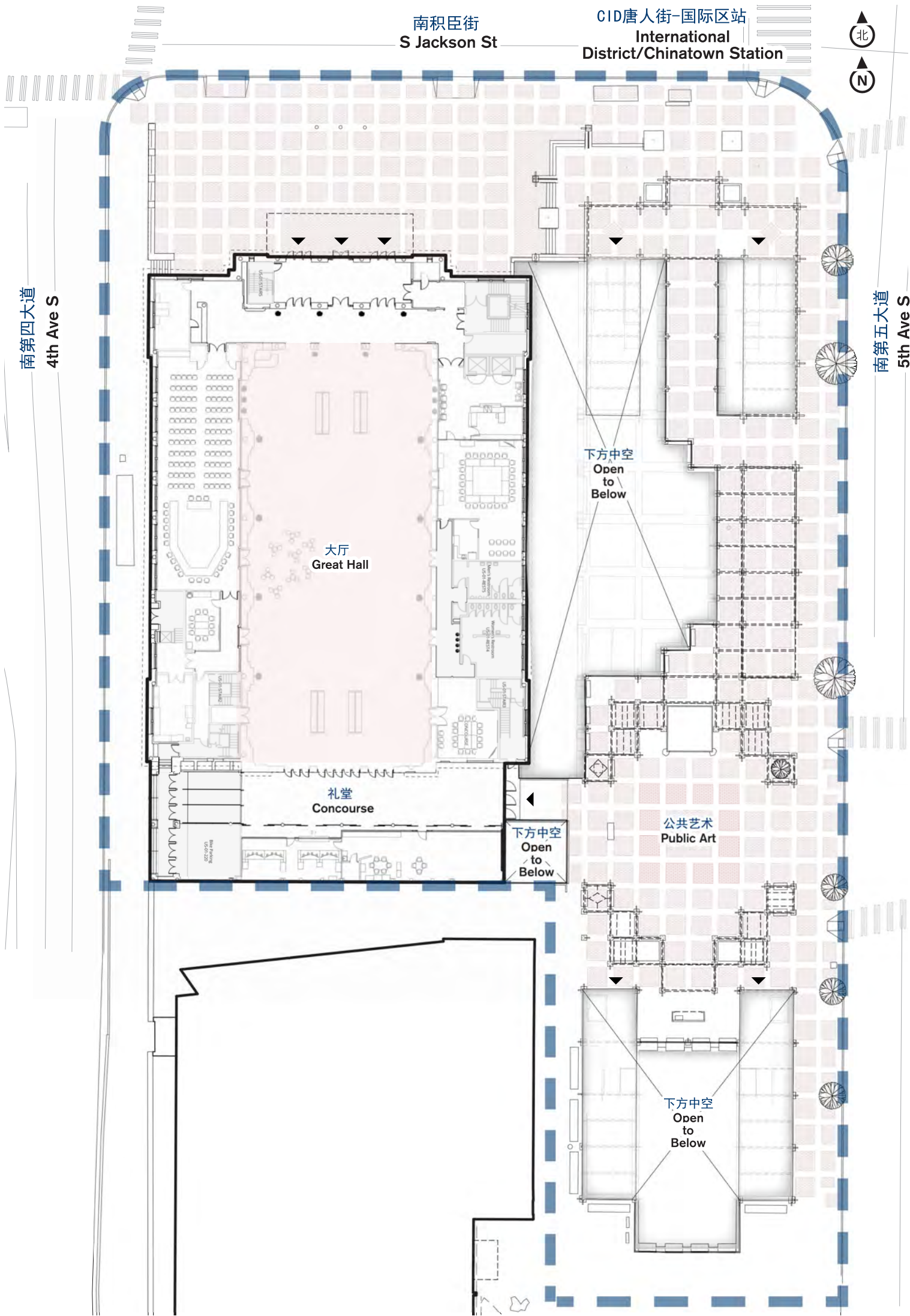
联合车站和广场 Union Station and plaza area

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

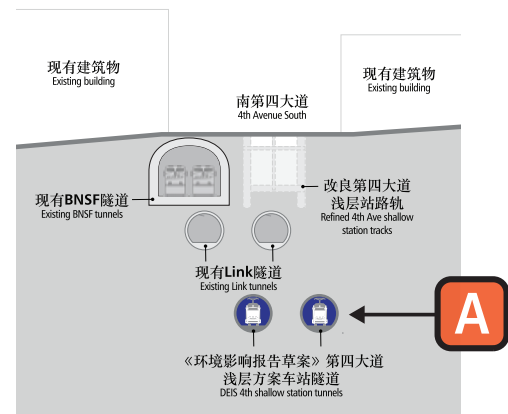
This activity is intended to support exploration and discussion only, and does not represent a commitment by Sound Transit to modify any particular spaces depicted here. Further study and action by the Sound Transit Board will be necessary to support implementation.



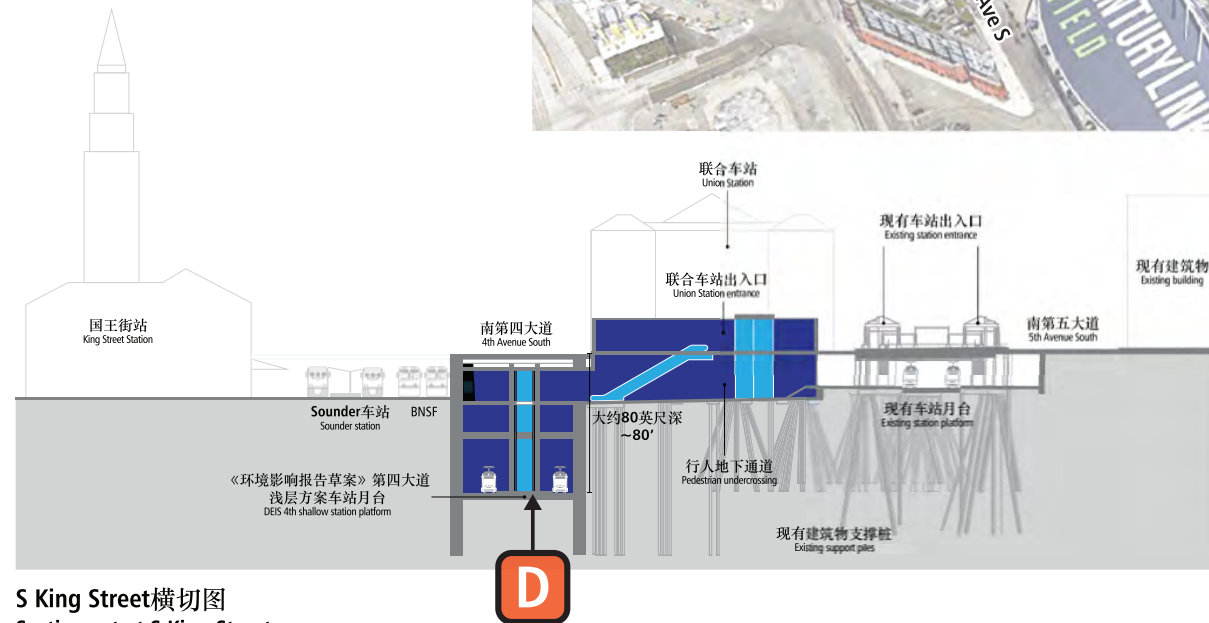
4th Shallow – 改良构思 和施工注意事项

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



S Washington Street横切图
Section cut at S Washington Street



S King Street横切图
Section cut at S King Street



- A** 新隧道在现有西雅图市中心隧道下行驶
New tunnel travels under Downtown Seattle Transit Tunnel
- B** 需要重建第三街和第四街之间的 S Main Street 桥
Requires reconstruction of S Main Street Bridge between 3rd and 4th
- C** 隧道钻挖机出入口会设在 S Main Street 附近
Tunnel boring machine portal near S Main St
- D** 新站月台大约八十英尺深
Station depth ~80 feet
- E** 需要由 S Royal Brougham Way 到 S Main St 中进行明挖回填施工方法
Requires cut and cover construction between south of S. Royal Brougham Way and S Main St
- 2** Mariner至Redmond线
Mariner-Redmond
- 3** Everett至West Seattle线
Everett-West Seattle

以上图表只供参考和说明。施工方法构想现正在进一步研究。
Diagrams for illustrative purposes only. Construction concepts under active review.

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



以上图表只供参考和说明。施工方法构想现正在进一步研究。
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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

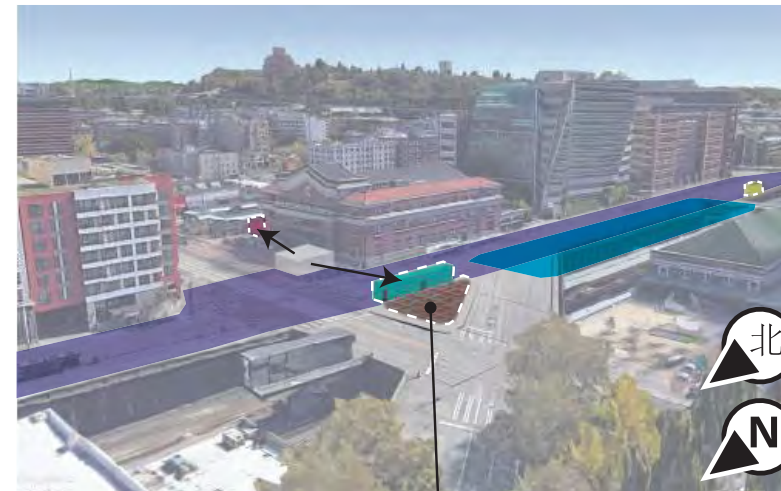
南积臣街北边的两端

Both north of South Jackson Street



联合车站的东侧和南积臣街的南端

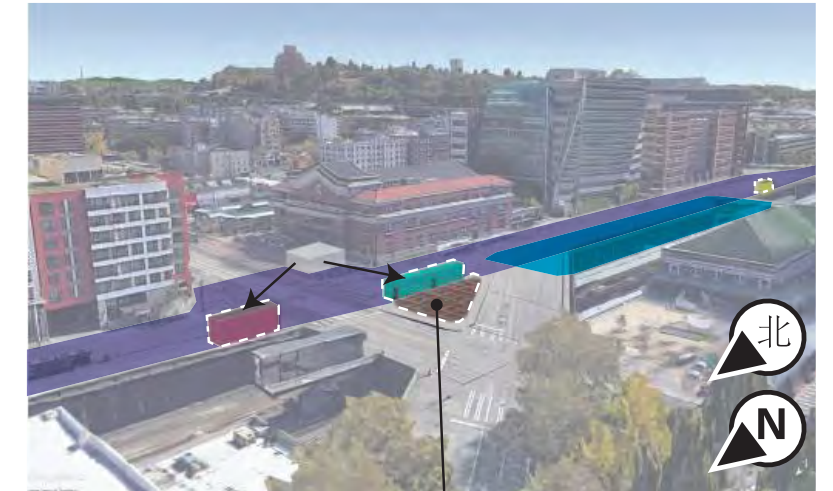
East side of Union Station and south of South Jackson Street



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

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

图例

Legend

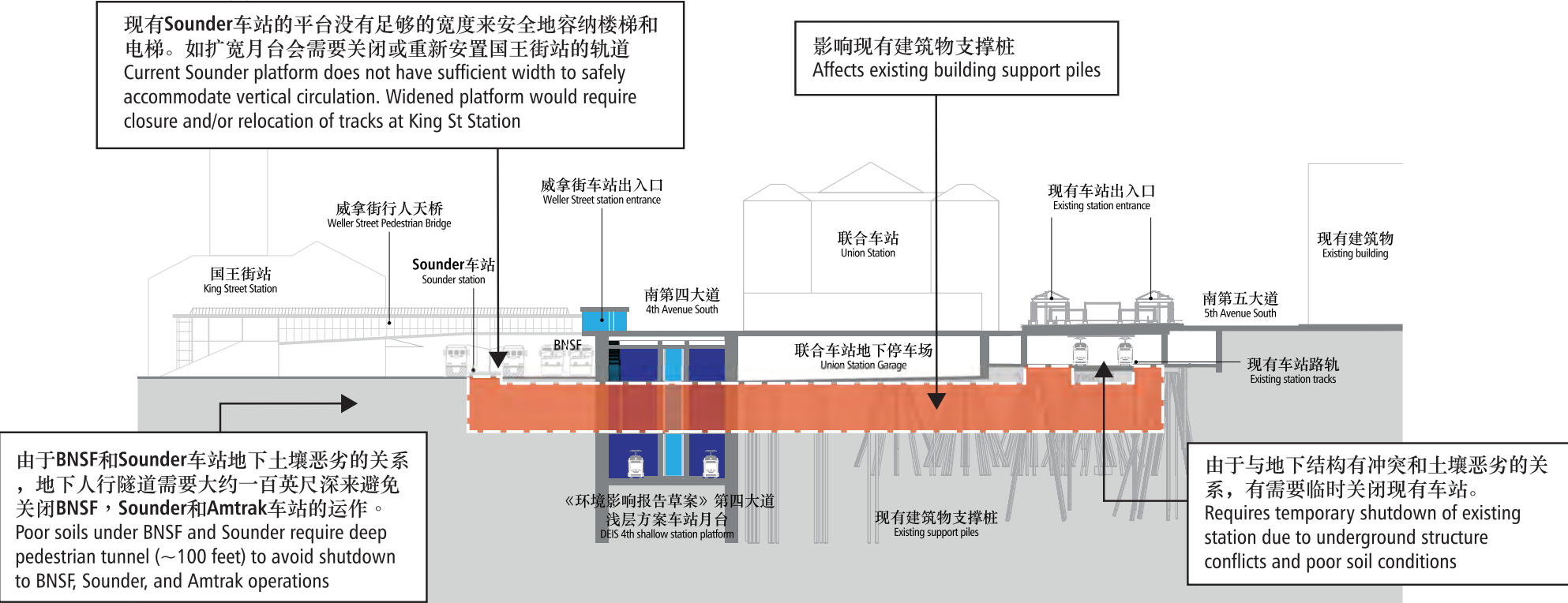
- 《环境影响报告草案》北部隧道通风和紧急出口位置
DEIS location for North Tunnel Ventilation and Emergency Egress
- 北部隧道通风
Ventilation Building - North Tunnel
- 南部隧道通风
Ventilation Building - South Tunnel
- 北部紧急出口
Emergency Egress North
- 高架桥更换工程
Viaduct replacement work
- 车站位置
Station Location

第四大道浅层站-CID唐人街-国际区站连接Sunder车站隧道构想

4th Ave Shallow station – Link to Sunder transfer tunnel concept



横切平面图 Section plan



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盖上盖概念: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

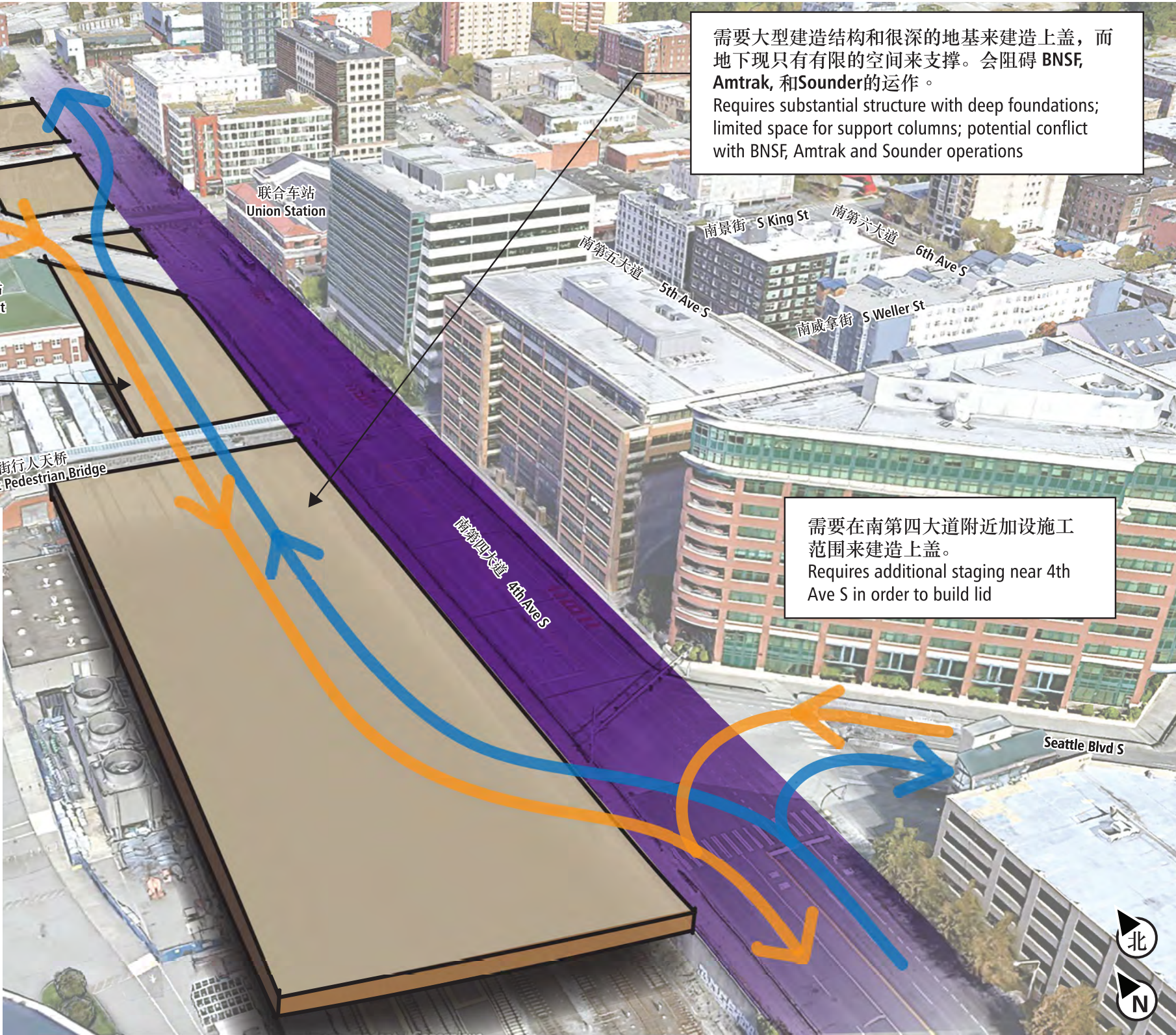
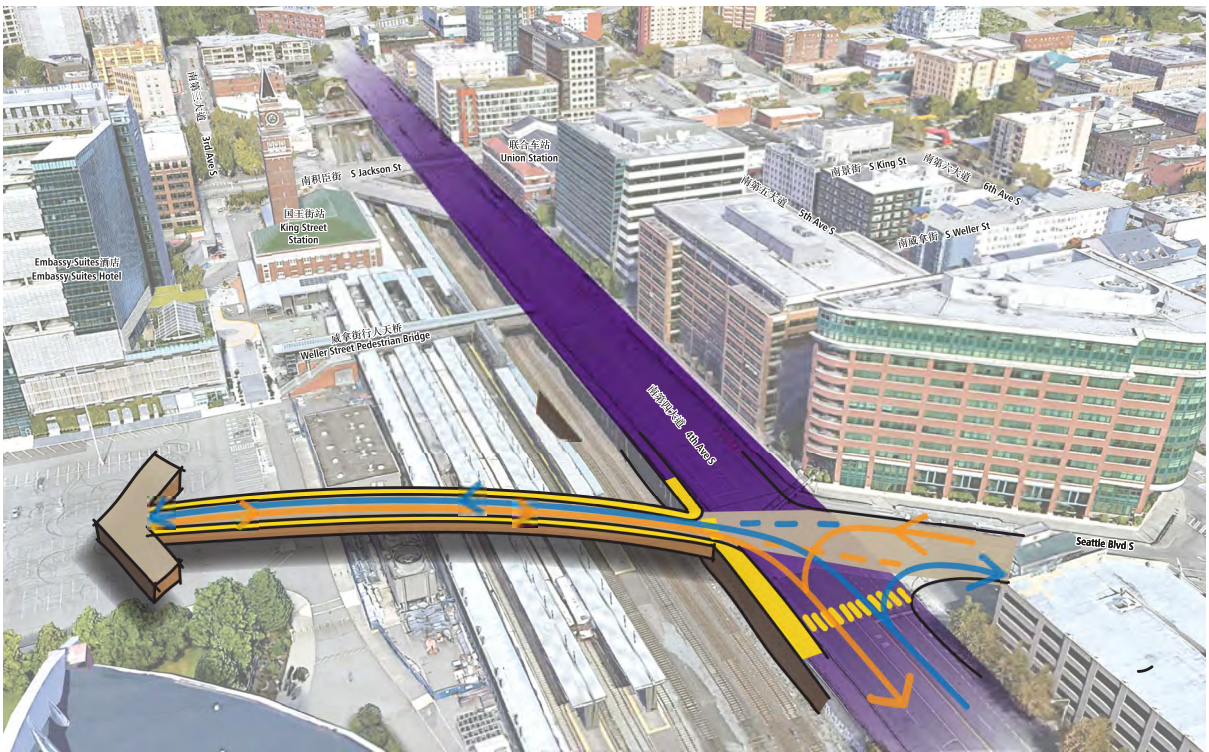
往北行绕道
Northbound detour

往南行绕道
Southbound detour

如需要在上盖行驶交通的话，上盖路面会高于现有第四大道，以便为下面的火车提供足够的行驶空间。
A lid that could support traffic would need to be higher than existing adjacent roadways to provide clearance to trains below

需要大型建造结构和很深的地基来建造上盖，而地下现只有有限的空间来支撑。会阻碍 BNSF, Amtrak, 和Sounder的运作。
Requires substantial structure with deep foundations; limited space for support columns; potential conflict with BNSF, Amtrak and Sounder operations

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



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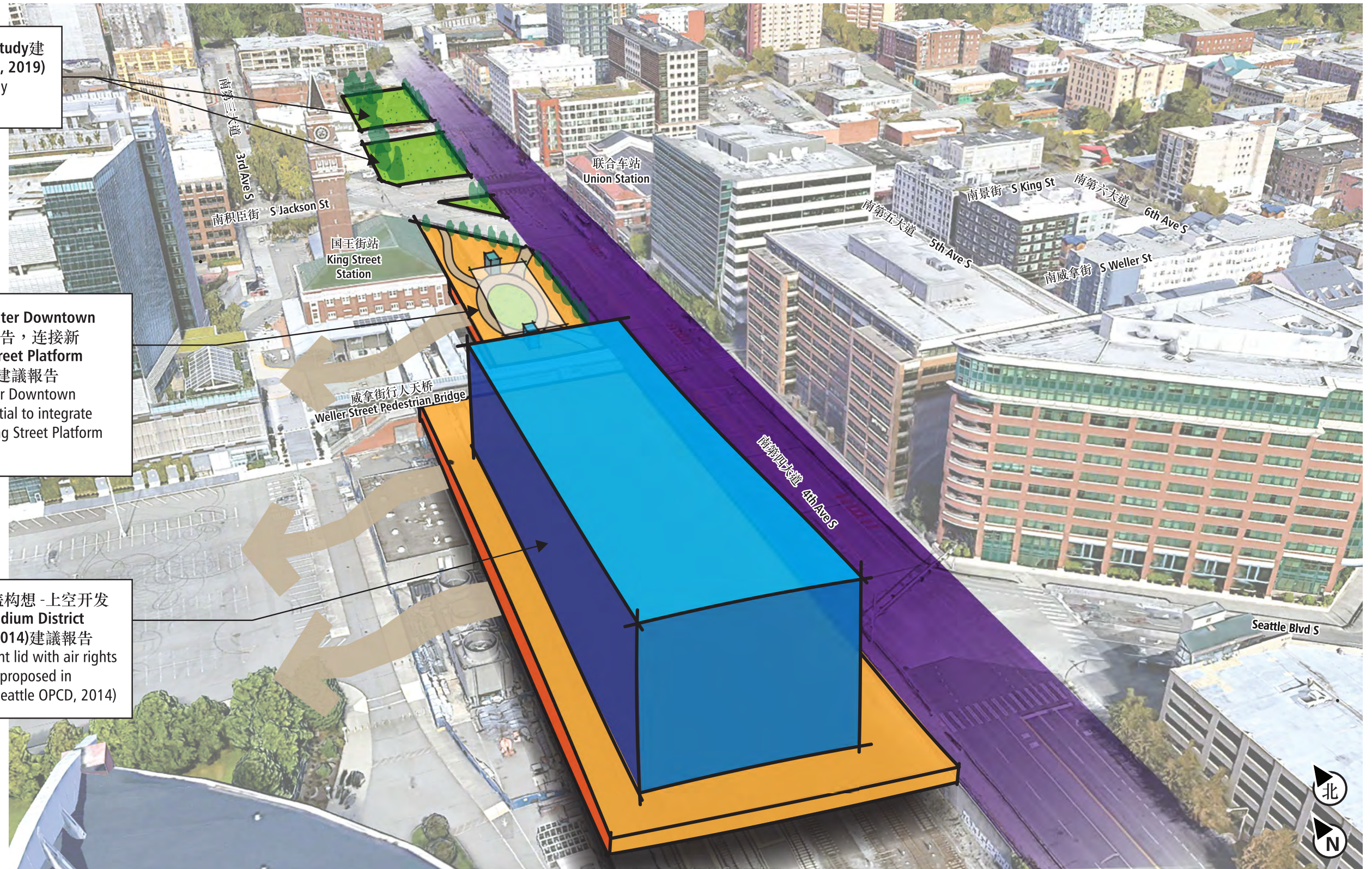
其他加建上盖概念: 社区开放空间与发展机会构想

Other lid concepts – Community open space and development

公园上盖构想 - 取自Jackson Hub study建議報告 (Alliance for Pioneer Square, 2019)
Park lid, proposed in Jackson Hub study (Alliance for Pioneer Square, 2019)

广场上盖构想 - 取自Imagine Greater Downtown (2019)和Jackson Hub Study建議報告, 连接新Sounder出入口构想 - 取自King Street Platform Area Improvements Project (2022)建議報告
Plaza lid, proposed in Imagine Greater Downtown (2019) and Jackson Hub Study; potential to integrate new Sounder access, proposed by King Street Platform Area Improvements Project (2022)

公共空间/新发展上盖构想 - 上空开发由他人发展, 取自Stadium District Study (Seattle OPCD, 2014)建議報告
Public space/development lid with air rights development by others, proposed in Stadium District Study (Seattle OPCD, 2014)



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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Sunder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

施工可能会影响到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



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



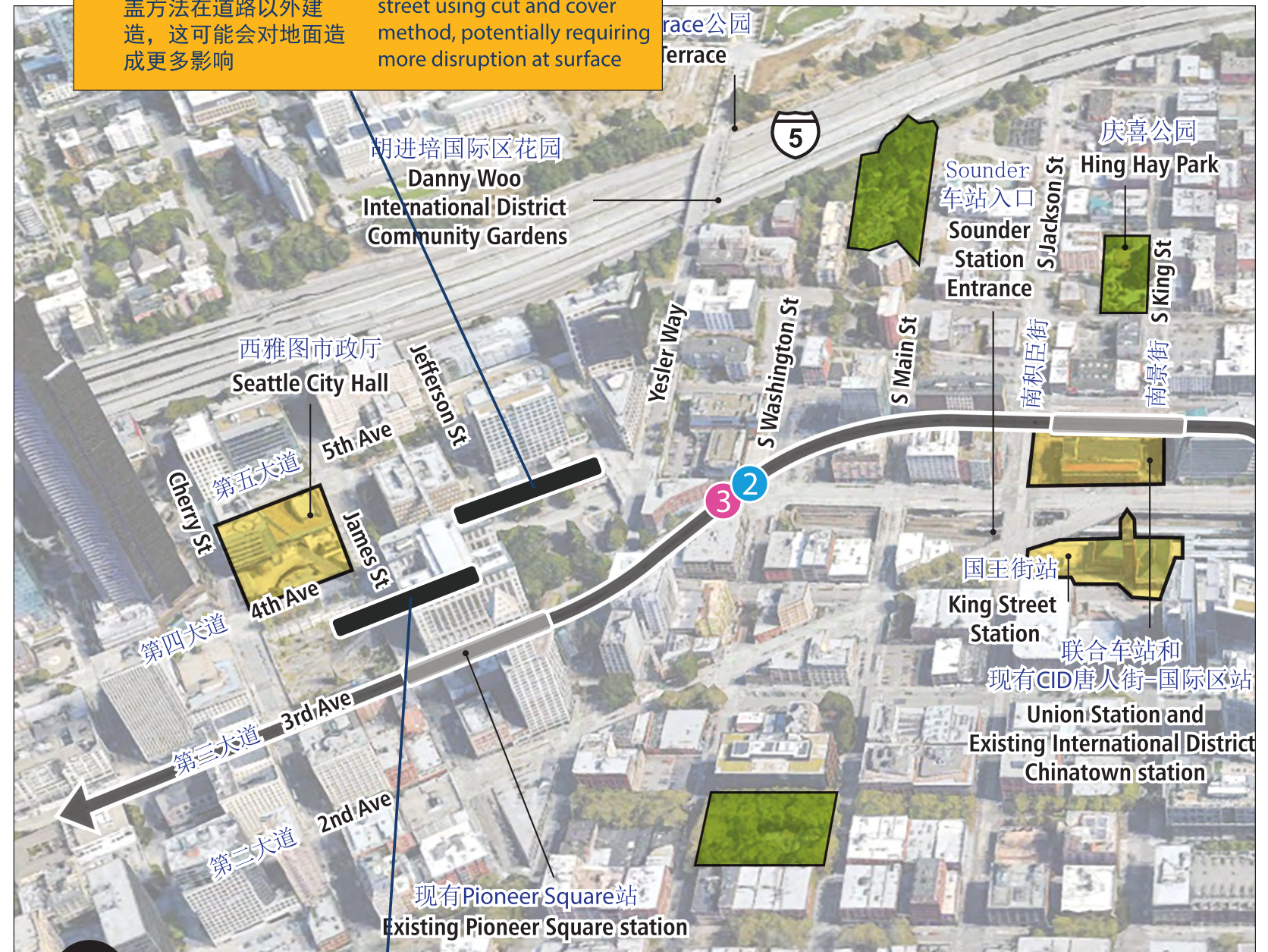
施工作出的影响和可行性
Construction disruptions and feasibility

考虑的车站位置
Potential station location



车站可能使用切割和覆盖方法在道路以外建造, 这可能会对地面造成更多影响

Station likely constructed off-street using cut and cover method, potentially requiring more disruption at surface



车站有可能在私人 and 公共土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


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--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 /T-Mobile 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）。

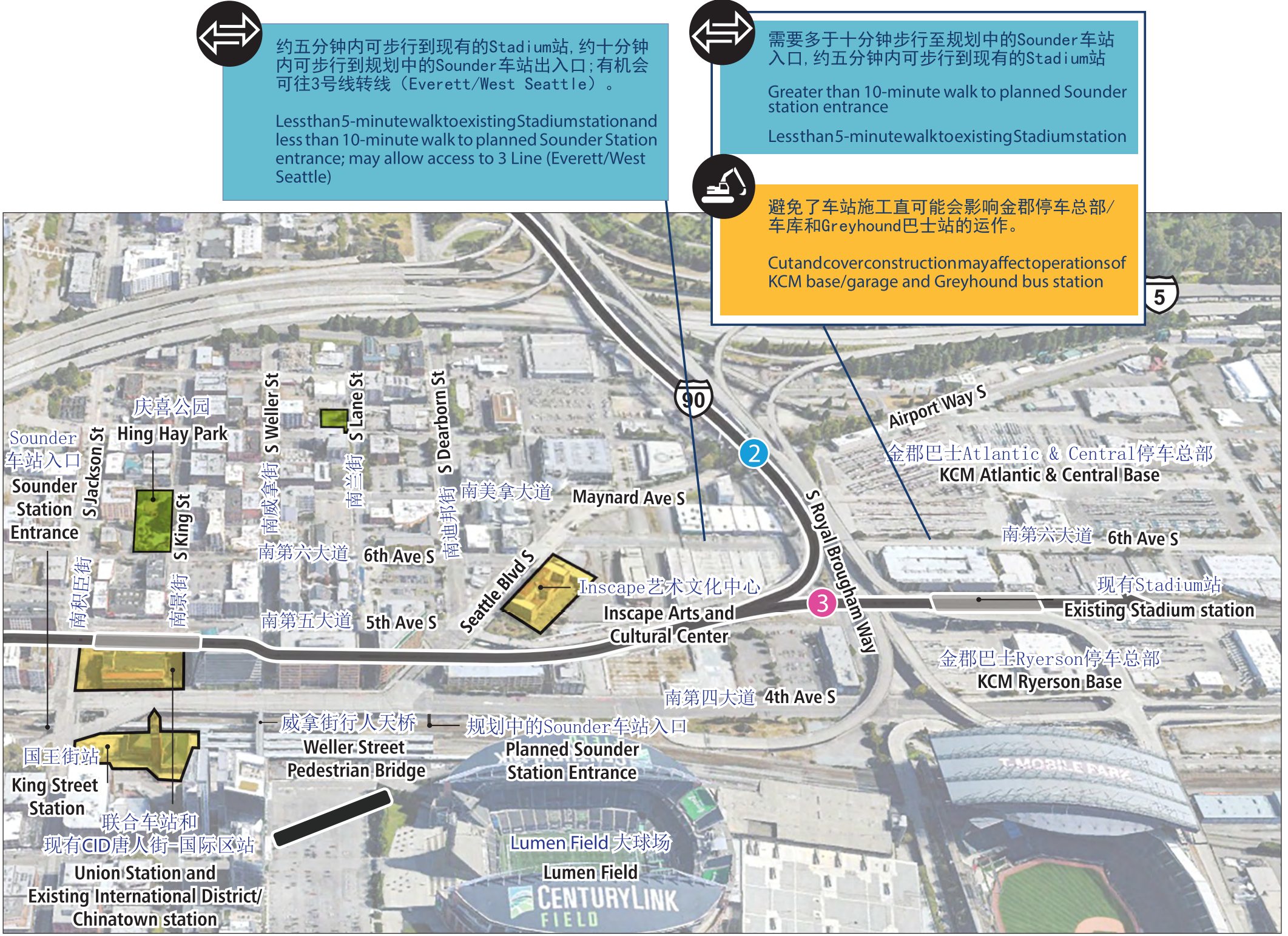
May allow transfers between future 1 Line (Ballard/Tacoma) and 3 Line (Everett/West Seattle) at Stadium, but likely not 2 Line (Mariner/Redmond)



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

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



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

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Sunder 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



对接接驳搭客的使用性
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



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



1号线 (Ballard/Tacoma) 不会为CID唐人街-国际区带来服务
CID neighborhood not served by 1 Line (Ballard/Tacoma)



不能转乘2号线 (Mariner/Redmond) 或者3号线 (Everett/West Seattle)
Does not allow transfer to 2 Line (Mariner/Redmond) at 3 Line (Everett/West Seattle)



避免车站施工直接影响CID唐人街-国际区
Avoids direct station construction disruption in CID



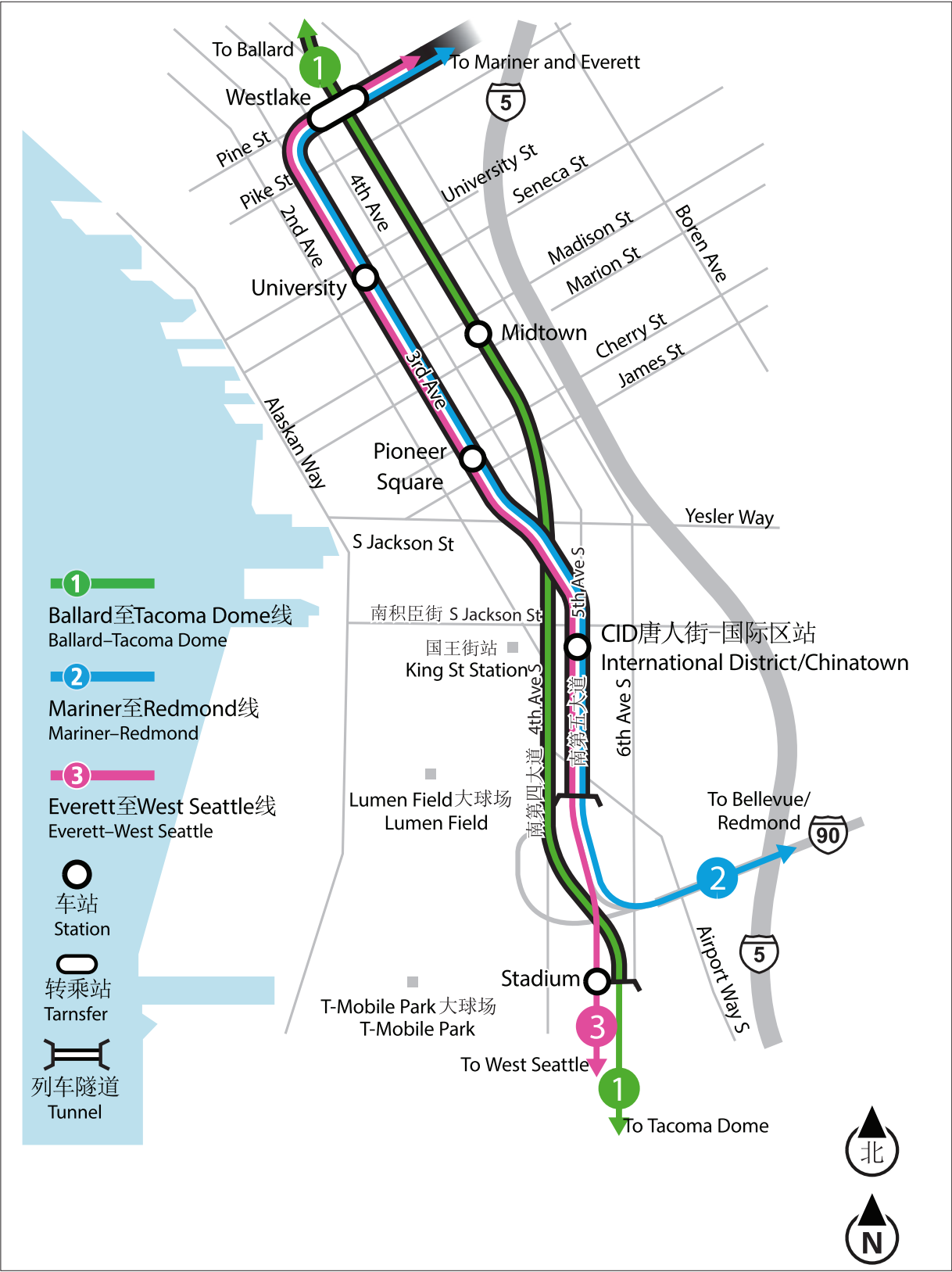
可服务到的社区
Communities Served



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



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



图示为Link轻轨线路的大概的位置。

Diagrams are an approximate representation of Link Light rail alignments.

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 5th 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.



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