

BPLN0105 Transport Consultancy Study

London Road and West Access



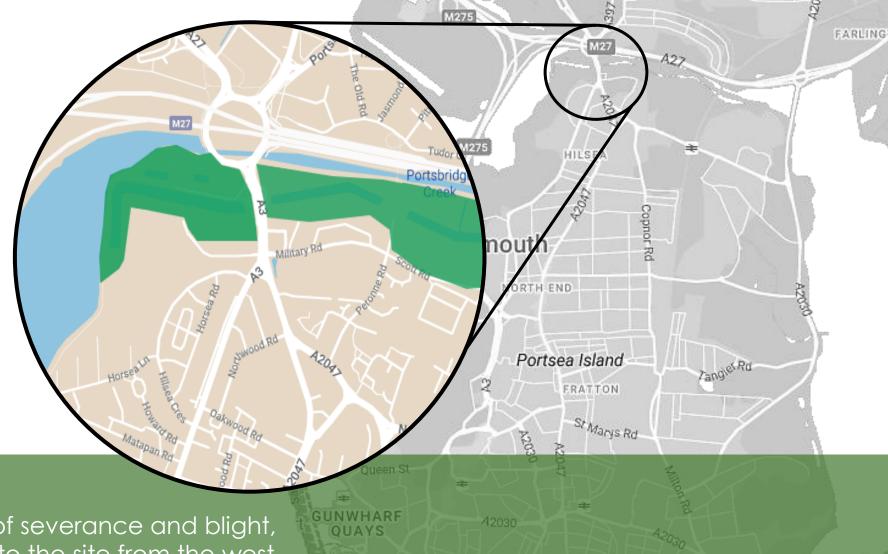
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- Site located below major intersection to motorway
- Hilsea Lido already has some regeneration
- Hillsea Lines focus area of upgrades
- Project scope
- Mainly residential area
- With general lack of access to green space and appropriate infrastructure



SOUTHSEA

OR I SULEN

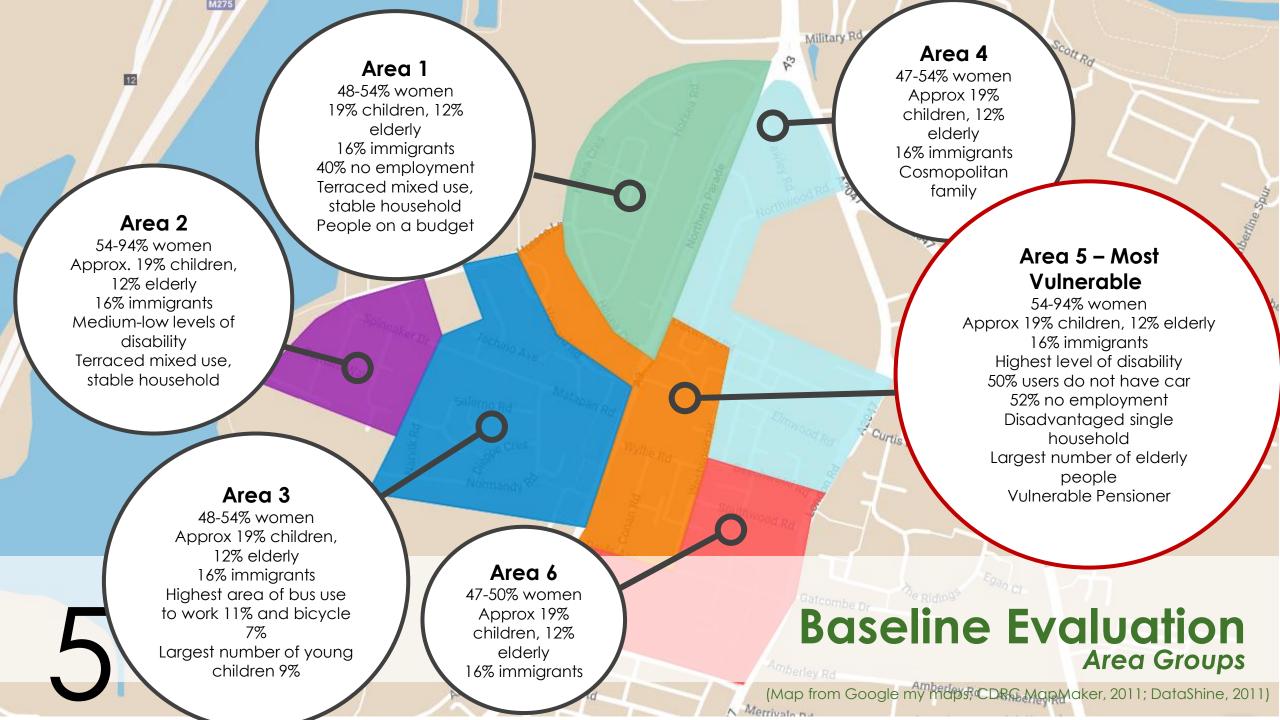
BRIEF

Addressing issues of severance and blight, Improving access to the site from the west, Improving longer distance connections to the site, Enhance green infrastructure.

Study Area

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Map from Google my maps



		Spatial Barriers				T	emporal Barri	ers	Financial I			
	Feature	Pedestrian Bridges	Bus Stop	Road	Bus Services	Seasonal	Time of day	Bus Services	Historic investment / policy focus	Externalities	Total of 45	
		Noisy, steep, stairs	Poor facilities	Fast, Car- centric	Poor connectivity	Exposure to wind, rain	Poor Lighting	Poor Timetabling Info	Car-centric	time, safety, comfort		
Demographic Groups (based on Kuttler and Moraglio, 2021)	Visually Impaired	5	5	5	4	4	5	5	3	5	41	
	Difficulty hearing	3	5	4	4	4	4	5	3	5	37	
	Mobility Impaired	5	5	4	5	4	4	5	3	5	40	
	Parents (single)	3	3	5	3	4	4	3	3	4	32	
	Elderly	5	4	4	4	4	5	3	3	4	36	
	Children, youth	1	4	5	4	4	5	3	5	5	36	
	Women	4	4	2	3	3	5	5	2	3	31	
	Low income	2	3	4	4	4	4	4	4	5	34	
Mobility Groups	Bus users	3	4	3	5	5	4	5	5	4	38	
	Pedestrians	3	3	5	4	5	5	3	5	5	38	
	Cyclists	4	3	5	1	5	5	3	5	5	36	
	Car users	0	0	0	0	0	3	0	0	0	3	

^{*}Likert Scale 0 = no impact; 5 = severe impacts



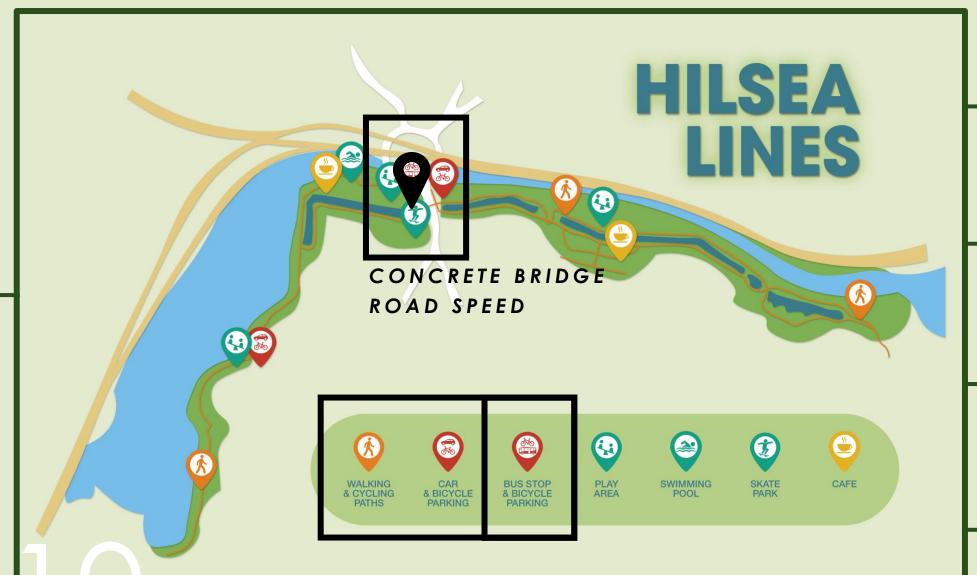




"To create a thriving, liveable area where local culture, local business, nature and clean air are accessible to all, and mental and physical health and wellbeing are improved through access to green infrastructure and sustainable travel options."







01 Severance

02 Bus Stop

03 Greenway

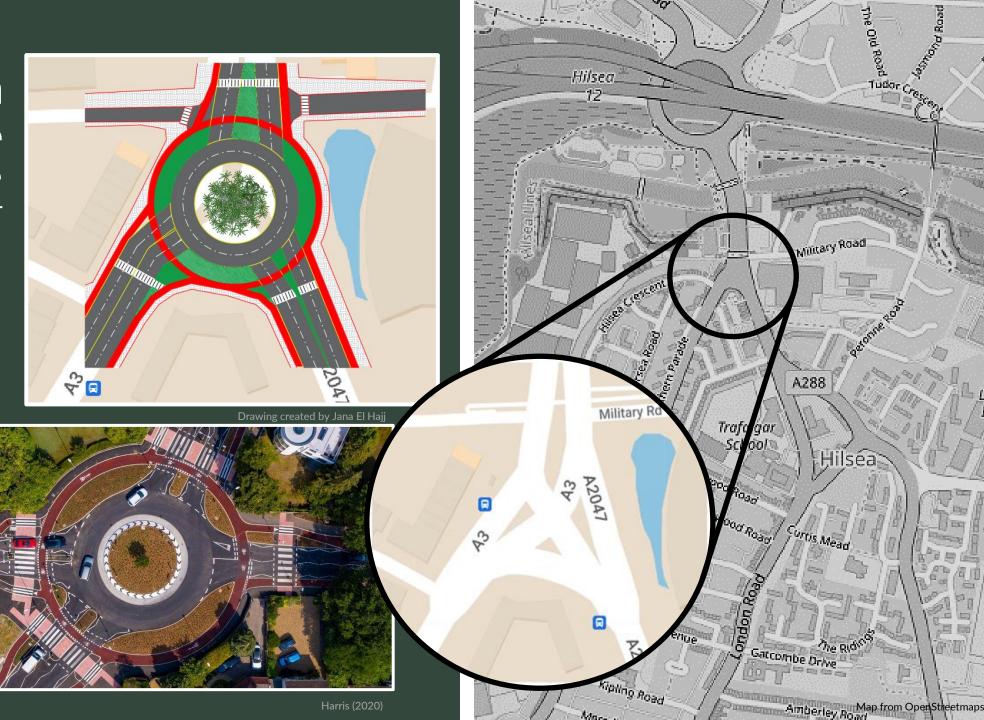
04
Long distance connection



Fixed Components

- Removal of bus parking
- Parking upgrades Add electric charging stations
- Segregated cycle lanes (A3 and A2047) LTN 1/20 compliant
- Formalise/maintain speed reduction
- Continue pedestrian upgrades from Hilsea Lido to Hilsea Lines
- Remove blue bridge
- Junction upgrade (A3, A2047)

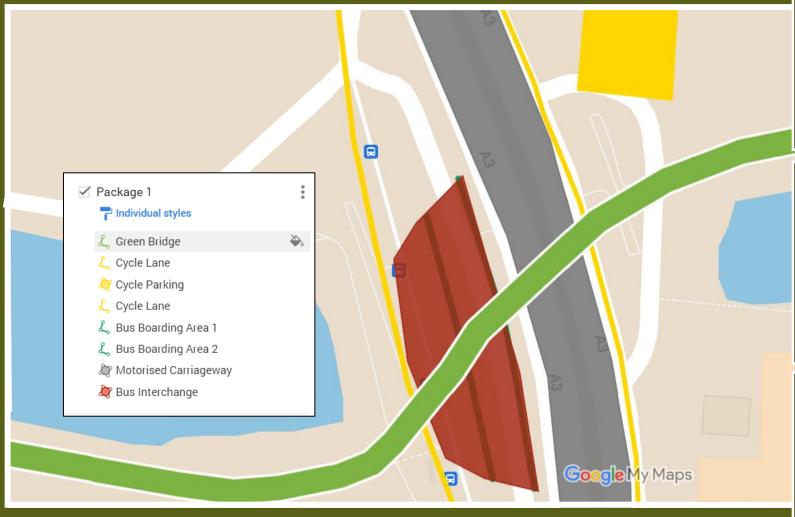
Junction
Upgrade
Dutch Style
Roundabout



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The park in the sky: This package extends the park so it is a continuous experience not broken by London Road.



Drawing created by Jana El Haii

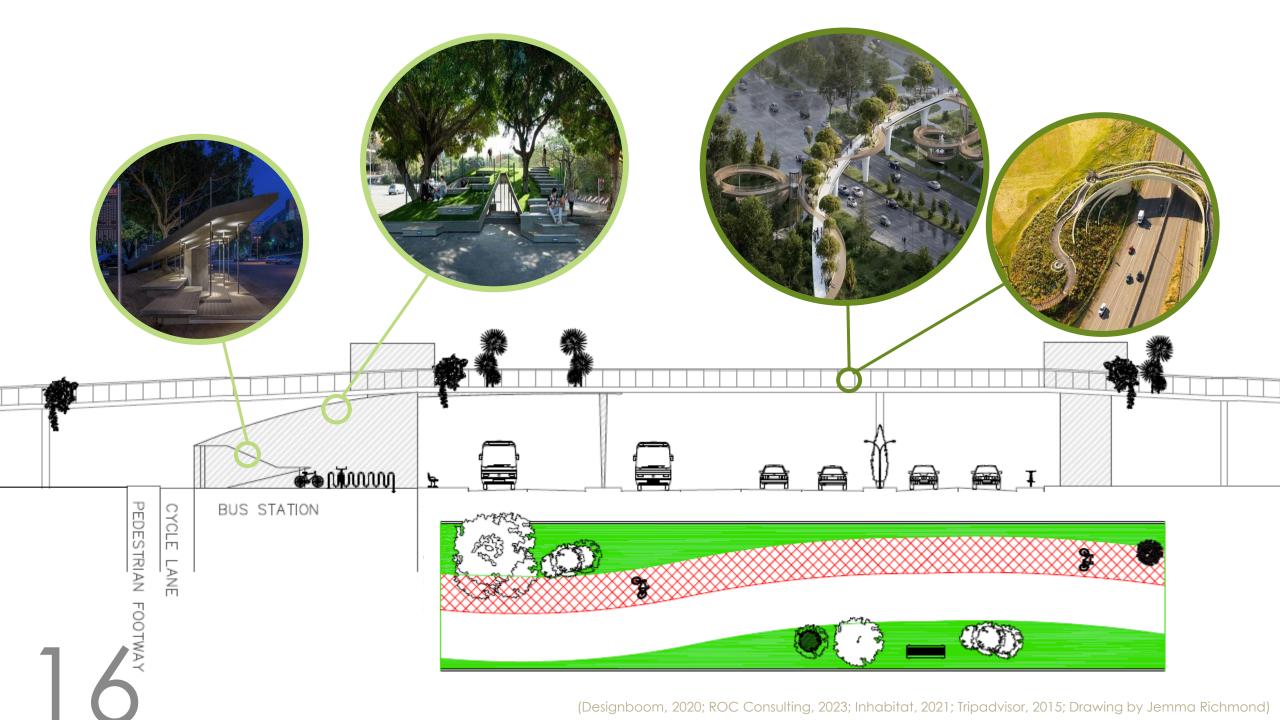
Roadway reduced to 2 lanes per direction.
Widened footways and median Provision of cycle lanes and cycle Parking

Green Bridge

Width=6m, Length=140m,
Gradient=1:20, Clear height=5.7m
Segregated cycle and walkways
Greening, art, resting areas
Universal Accessibility
Connection of the Green Corridor

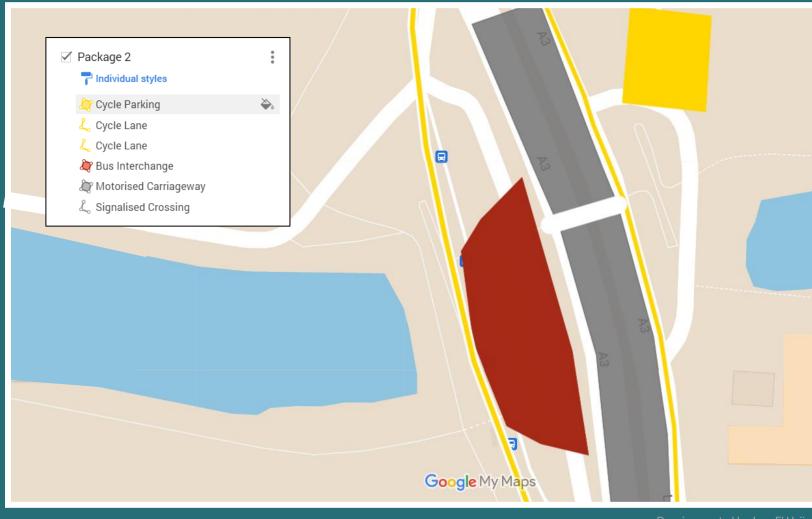
Bus Interchange:

Two parallel bus stops with overtake lanes
1000m2 Shelter Area
370m2 Facilities Area (Tourist info desk, Toilets, Café, RTPI)





Creation of a transport hub ensuring every person can connect to the greenspace from close or far and easily cross London road.



Roadway reduced to 2 lanes
per direction
Widened footways
Widen the median and add trees
Provision of cycle lanes and cycle
Parking

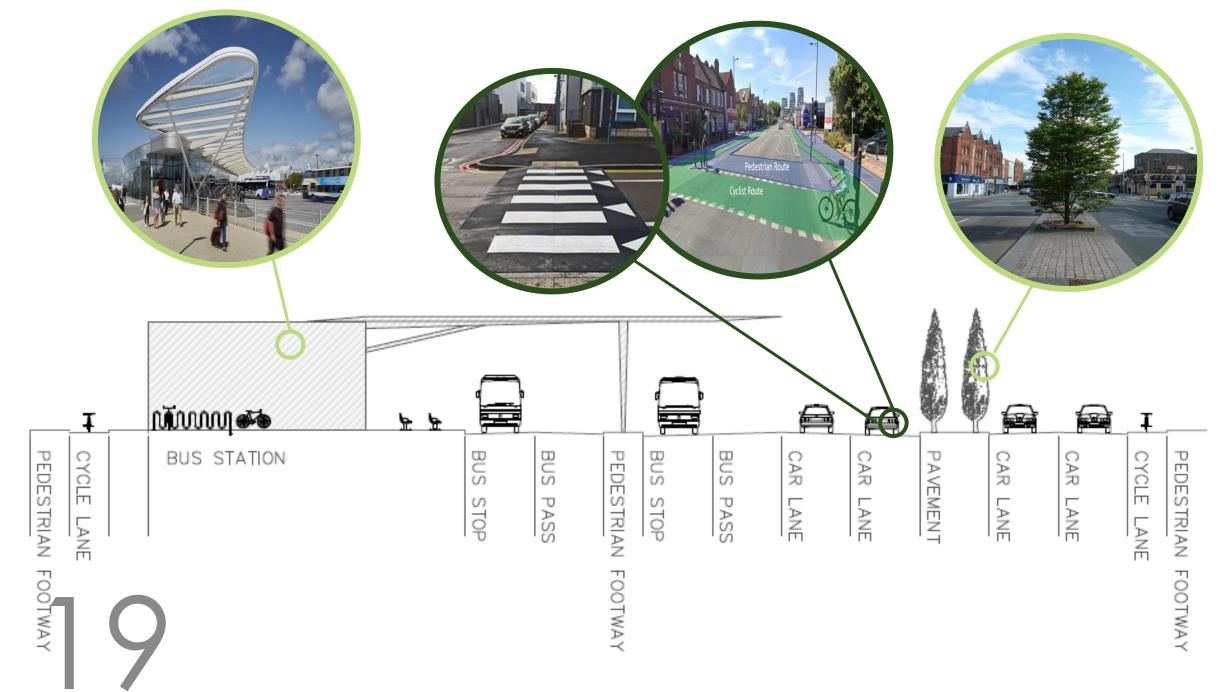
Interchange:

Two parallel bus stops with overtake lanes
1000m2 Shelter Area
370m2 Facilities Area (Tourist info desk, Toilets, Café, RTPI)

Signalised Crossing

Priority phasing for pedestrians
Audible information
Wide pedestrian island
Raised Toucan crossing
Conveniently aligned with Lido
and Hilsea Lines

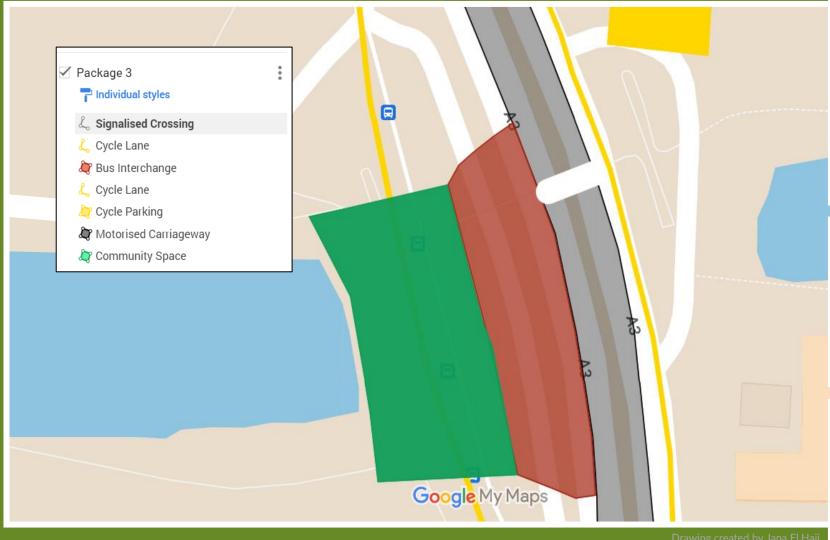
Drawing created by Jana El Hajj





Extending the nearby high-streets using flexible and creative spaces to invite residents and tourists into Hilsea Lines.

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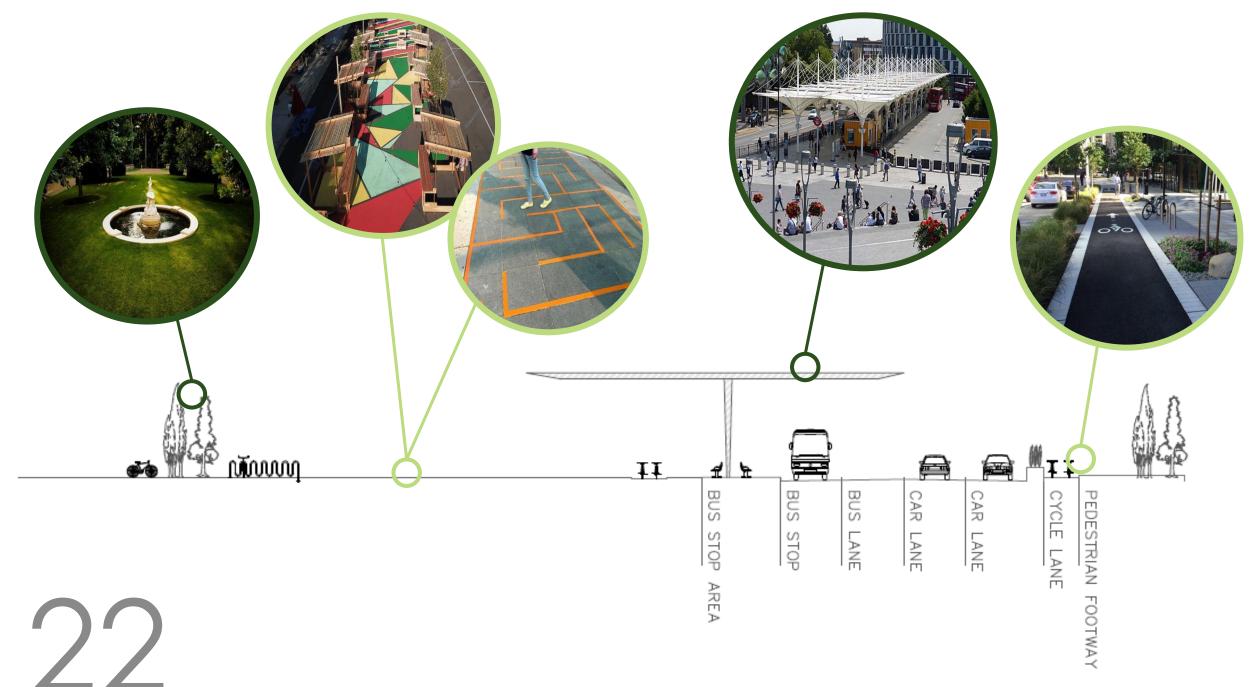
Widened footways Removal of median Roadway reduced to 1 lane per direction Provision of cycle lanes and cycle Parking Southbound Cycleway segregated by plant lane

Interchange:

One long bus stop with overtake lane 1000m2 Shelter Area 1330m2 Multipurpose Community Space

Signalised Crossing

Priority phasing for pedestrians Audible information Raised Toucan crossing Conveniently aligned with Lido and Hilsea Lines





Multi-Criteria Analysis					BAU		Package 1		Package 2		Package 3	
Criteria	Sub- Criteria	What is this measuring?	WEIGHTING	Score	Weighted score	Score	Weighted score	Score	Weighted score	Score	Weighted score	
Demographic groups	Mobility impaired		10	-5	-50	3	30	4	40	5	50	
	Families and children		7	-3	-21	3	21	3	21	5	35	
	Women	How much does the	7	-2	-14	3	21	5	35	4	28	
	Low income/deprived	design improve the experience for these	7	-2	-14	4	28	3	21	5	35	
Transport user groups	Bus users	groups?	12	-3	-36	4	48	5	60	3	36	
	Pedestrians		12	-4	-48	4	48	4	48	5	60	
	Cyclists		12	-5	-60	3	36	4	48	5	60	
Strategic priorities	Air & noise pollution	How much will the design contribute to improved air quality?	10	-5	-50	3	30	3	30	4	40	
	Green space	How much will access to green space be improved by this design? Including creation of new green spaces	9	0	0	5	45	3	27	4	36	
	Improved public realm	How much will the design contribute to improving the public realm?	6	-1	-6	4	24	3	18	5	30	
	Improved opportunities for business	How much will the design create new opportunities for businesses?	8	-4	-32	3	24	3	24	5	40	
Total					-331		355		372		450	



COMMUNITY

ART LEISURE OF PLAY FLEXIBLE ROOM BUSINESS OF THE R

Sometimes serving the community can be more influential than an iconic structure. Ultimately ensuring access for all was essential in appraising this project.

MARKET Z

CCHILDREN

INCLUSIVE

VIBRANT

VIBRANT

SHOPE

CONNECTED

SUSTAINABLE

TIME

TIM

Reference List



- Atrium studio (no date) 'The Bridge in Kazakh', ABE. Available at https://label-magazine.com/en/architecture/articles/most-po-kazachsku [Accessed 15 March 2023]
- CDRC MapMaker (2011), Aging in Place Classification. Available at https://mapmaker.cdrc.ac.uk/#/ageing-in-place-classification?h=1&lon=-1.073&lat=50.8286&zoom=13.21 [Accessed on 01 March 2023]
- DataShine Census (2011) Long term health problem or disability. Available at https://datashine.org.uk/#table=QS303EW&col=QS303EW0002&ramp=RdYIGn&layers=BTTT&zoom=11.92634568918848&lon=-0.1283&lat=51.5254 [Accessed on 01 March 2023]
- DataShine Census (2011) Method of Travel to work. Available https://datashine.org.uk/#table=QS303EW&col=QS303EW0002&ramp=RdYIGn&layers=BTTT&zoom=11.92634568918848&lon=-0.1282&lat=51.5254 [Accessed on 01 March 2023]
- DataShine Census (2011) Car or Van availability. Available at https://datashine.org.uk/#table=QS303EW&col=QS303EW0002&ramp=RdYIGn&layers=BTTT&zoom=11.92634568918848&lon=-0.1283&lat=51.5254 [Accessed on 01 March 2023]
- Department for Transport (2021). Inclusive Mobility: A Guide to Best Practice on Access to Pedestrian and Transport Infrastructure. London: Department for Transport. Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1044542/inclusive-mobility-a-guide-to-best-practice-on-access-to-pedestrian-and-transport-infrastructure.pdf
- Designboom. (2020). Sturdy inclined roof supported by slim steel columns tops university bus stop in taiwan. Designboom, 7 September 2020. [Online]. Available at: https://www.designboom.com/architecture/sturdy-inclined-roof-slim-steel-columns-university-bus-stop-taiwan-09-07-2020/ [Accessed 20 March 2023].
- Holmes, Damian (2019), 'Grain Collective Joins WLA as a partner', WLA. Accessed on https://worldlandscapearchitect.com/welcome-to-grain-collective-our-new-wla-partner/?v=79cba1185463 [Accessed on 15 March 2023]
- Feeldesain. (2011). Democratie Creative: Street Art for the People to Play. Feeldesain. [Online]. Available at: https://www.feeldesain.com/democratie-creative-street-art-for-the-people-to-play.html [Accessed 20 March 2023].
- G, Colin (2008) 'Hilsea Lines. Portsmouth', Subterranean History. Available at http://www.subterraneanhistory.co.uk/2008/08/hilsea-lines-portsmouth.html [Accessed on 15 March 2023]
- Google Maps (2023). 310 Lea Bridge Rd. Available at: https://www.google.co.uk/maps/@51.5218141,-0.1257739,18z 310 Lea Bridge Rd Google Maps (Accessed: 20 March 2023).

Reference List



- Harris, T. (2020). Cambridge's Dutch-style roundabout: Why all the fuss? [Photograph]. UK: BBC
- Inhabitat. (2021). Pedestrian bridge by ATRIUM will grow trees above highway. Inhabitat, 21 January 2021. [Online]. Available at: https://inhabitat.com/pedestrian-bridge-by-atrium-will-grow-trees-above-highway/ [Accessed 20 March 2023].
- Kuttler, T., and Moraglio, M. (2021). Re-thinking Mobility Poverty: Understanding Users' Geographies, Backgrounds and Aptitudes. [online]. London: Routledge. Available from: https://doi.org/10.4324/9780367333317. (Accessed 19 February 2023).
- Maus, J. (2016). Here's what Portland's new carfree street and elevated bikeway will look like. BikePortland.org. [Online]. Available at: https://bikeportland.org/2016/08/04/heres-what-portlands-new-carfree-street-and-elevated-bikeway-will-look-like-188932 [Accessed 20 March 2023].
- Microsoft Local. (2020). Creating Multi-Use Community Gathering Spaces in Quincy, Washington. Microsoft Local Blog. [Online]. Available at: https://local.microsoft.com/zh/blog/creating-multi-use-community-gathering-spaces-in-quincy-washington/ [Accessed 20 March 2023].
- Mills, G. et al. (2015) "The green 'signature' of Irish cities: An examination of the ecosystem services provided by trees using i-Tree Canopy software," Irish Geography, 48(2), pp. 62–77. Available at: https://doi.org/10.2014/igj.v48i2.625.
- Portsmouth City Council. (2021). Portsmouth Transport Strategy 2021-2038. Available at: https://www.portsmouth.gov.uk/wp-content/uploads/2021/11/74.633-Local-Transport-Plan-2021-Final-Accessible.pdf. (Accessed on 1 February 2023).
- Portsmouth City Council. (2020). Local Cycling and Walking Infrastructure Plan 2020-2030. Available at: https://travel.portsmouth.gov.uk/wp-content/uploads/2020/09/74.463-LCWIP-Plan.pdf. (Accessed on 1 February 2023).
- Portsmouth City Council. (2017). Air Quality Strategy 2017-2027. Available at: https://www.portsmouth.gov.uk/wp-content/uploads/2020/04/env-air-quality-strategy.pdf. (Accessed on 1 February 2023).
- ROC Consulting. (2023). Hard Portsmouth Interchange. [Online]. Available at: https://www.rocconsulting.com/projects/hard-portsmouth-interchange/ [Accessed 20 March 2023].
- Rosehill Highways. (No date). Raised Tables. Rosehill Highways. [Online]. Available at: https://rosehillhighways.com/products/raised-tables/ [Accessed 20 March 2023].