

Gatwick Airport Northern Runway Project

Design and Access Statement Appendix 1 – Design Principles – Clean Version

Book 7

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1 Introduction

1.1 Introduction

- 1.1.1 This Appendix describes the Design Principles that underpin the design and integration of the Project into its context. They are written to capture the key principles documented within this DAS that have shaped the indicative design so far as part of development of the masterplan, and to make a commitment that these will be maintained and developed as part of future detailed design and delivery phases of the Project.
- 1.1.2 The Design Principles represent a 'forward-looking' view of the key components of the design, whereas the earlier volumes of this DAS illustrate the process whereby the masterplan was achieved. The principles will be followed at the detailed design stage as secured through DCO Requirements 4, 5 and 6.
- 1.1.3 The Design Principles reflect the design commitments of Gatwick Airport Limited (GAL) in relation to the Project. They are intended to set out a unified approach to design and capture the collective knowledge of the Project team at the time of making an application for development consent, and have subsequently taken account of comments received from Interested Parties during the Examination process. They create an overarching, shared resource which give clarity to stakeholders over the required design outcomes. They give detail on design intent and objectives to be achieved, whilst providing some flexibility for the detailed designs to be developed.
- 1.1.4 Underpinning the Design Principles is GAL's aim to deliver good design. Through committing to and delivering on these Design Principles, good design will be achieved through the detailed design of the Project.



Approach to Control of Design

- 1.1.5 These Design Principles will be secured through the DCO and will provide certainty as to the principles that will be applied in designing the Project. They provide stakeholders with assurance on how the design of the Project will be developed following the grant of consent.
- 1.1.6 Requirements 4 (detailed design), 5 (local highway works detailed design) and 6 (national highway works) in Schedule 2 to the **Draft Development Consent Order** (Doc Ref. 2.1) ensure that the detailed design of the Project is in accordance with these Design Principles. Before work can commence on any relevant part of the Project, details for that part must be shared and (where relevant) approved as follows:
 - In relation to the local highway works, details of the layout, siting, scale and external appearance of buildings, structures and works must be approved by the relevant highway authority (in consultation with the relevant planning authority) under DCO Requirement 5;
 - In relation to the national highway works, the details specified in the protective provisions for the benefit of National Highways in Part 3 of Schedule 9 to the DCO must be approved by National Highways pursuant to the process detailed in those provisions, as provided for by DCO Requirement 6;
 - In relation to the 'listed works' (being those works listed in Schedule 12 (Non-Highway Works for which Detailed Design Approval is Required) to the DCO), details of the layout, siting, scale and external appearance of buildings, structures and works must be approved by Crawley Borough Council (CBC) (in consultation with Mole Valley District Council (MVDC) and Reigate and Banstead Borough Council (RBBC) to the extent that they are the relevant planning authority for any land to which the details relate) under DCO Requirement 4(3); and
 - In relation to other works (being neither highway works nor 'listed works'), CBC must be consulted on their design under DCO Requirement 4(1).



- 1.1.7 These Design Principles assist in providing a comprehensive and integrated scheme design and are the point of reference in accordance with which all parts of the authorised development must be constructed as secured in Requirements 4(4)(a) (for 'listed works'), 5(2)(a) (for local highway works), 6(2)(a) (for national highway works) and 4(2) (for all other works).
- 1.1.8 This Appendix forms one of a suite of control documents that capture the Project's operational design-related commitments.
- 1.1.9 Other control documents that also secure measures related to the Project's design include:
 - The plans contained within Book 4 Plans and Drawings.
 - ES Appendix 5.3.2 Code of Construction Practice [REP4-007] including its Annexes.
 - **ES Appendix 8.8.1 Outline Landscape and Ecology Management Plan** [REP2-021, REP2-023, REP2-025] and REP2-027].
 - ES Appendix 5.4.2 Carbon Action Plan [APP-091].
 - ES Appendix 5.4.1 Surface Access Commitments [APP-090].
 - ES Appendix 11.9.6 Flood Risk Assessment Annex 2 Surface Access Drainage Strategy [APP-148]; and
 - ES Appendix 19.8.1 Public Rights of Way Management Strategy [REP2-009].
- 1.1.10 This Appendix will be a control document and should be read in conjunction with the other control documents and **ES Appendix** 5.2.3 Mitigation Route Map [REP2-011] to understand the full suite of mitigation measures proposed.
- 1.1.11 The list below sets out where design principles and measures are secured in other control documents:
 - In the case of landscape and ecological design, detailed landscape requirements are secured in the **ES Appendix 8.8.1**Outline Landscape and Ecology Management Plan [REP2-021, REP2-023, REP2-025] and REP2-027] (oLEMP). These Design Principles provide landscape and ecological principles to be considered in the development of detailed design alongside the detailed requirements of the oLEMP which will be fully defined through the relevant landscape and ecology management plan (LEMP). Therefore, these documents are to be read in parallel when designing works. Requirement 8 in the **Draft Development Consent Order** (Doc Ref. 2.1) provides that, before works are commenced on any part of the



- Project, a LEMP must be submitted to and approved by CBC (in consultation with RBBC, MVDC or Tandridge District Council (TDC) to the extent relevant). The LEMPs must be substantially in accordance with the **ES Appendix 8.8.1 Outline Landscape and Ecology Management Plan** [REP2-021, REP2-023, REP2-025] and REP2-027].
- There are specific requirements in the **Draft Development Consent Order** (Doc Ref. 2.1) for the approval of detailed drainage designs (DCO Requirements 6, 10 and 11). The detailed drainage designs for the proposed development must be in accordance with the drainage Design Principles included within this Appendix. The detailed drainage designs for the highway works must be in accordance with the **Surface Access Drainage Strategy** (Annex 2 to the Flood Risk Assessment [APP-148]) which has been shared with the local highway authorities and National Highways (DCO Requirements 6(2)(c) and 11).
- Construction-related design commitments (including compound siting and design) are set out in the ES Appendix 5.3.2 Code of Construction Practice [REP4-007] and its Annexes. DCO Requirement 7 specifies that the construction of the authorised development must be carried out in accordance with the ES Appendix 5.3.2 Code of Construction Practice [REP4-007]. The CoCP contains a series of Annexes providing further detail on construction environmental management systems and measures, including and of most relevance to design:
 - Annex 1: Water Management Plan [APP-083] containing design measures to manage how water would drain during construction, including the prevention of any pollution and the protection of hydromorphological and ecological elements of watercourses and water resources; and
 - Annex 6: Outline Arboricultural and Vegetation Method Statement [REP3-022, REP3-024 and REP3-026] containing measures to protect trees and vegetation during construction, together with preliminary removal and protection plans, to be detailed in subsequent Arboricultural and Vegetation Method Statements through the detailed design process and in accordance with Requirement 28.

Approach to Approval of Detailed Design

1.1.12 The works subject to detailed design approval are described in DCO Requirements 4(3), 5 and 6 in Schedule 2 of the **Draft Development Consent Order** (Doc Ref. 2.1). The relevant discharging authority (specified in each Requirement) will be asked



to approve the detailed design and the detailed designs must be in accordance with these Design Principles. DCO Requirement 4(1) requires that CBC is consulted on any part of the authorised development except highway works and 'listed works' prior to that development being carried out. Any such part of the authorised development must be in accordance with these Design Principles under DCO Requirement 4(2).

Independent Design Adviser's role and process

- 1.1.13 **Annex A** of this document sets out the role of the independent Design Adviser which is part of the detailed design process. It explains the scope of the Design Adviser's independent design review and their engagement with other stakeholders, including through a design review meeting. As explained in **Annex A**, where a design review has been carried out GAL will submit a Design Review Statement with the relevant submissions.
- 1.1.14 The process of an independent design review will ensure that the Design Principles are applied appropriately and which forms a clear part of the Design Adviser's remit, as explained in **Annex A**.

Structure of the Design Principles

- 1.1.15 To assist with an understanding of the design against the Design Principles, they have been split into four categories:
 - Project-Wide Design Principles;
 - Detailed Built Form Design Principles;
 - Detailed Drainage Design Principles; and
 - Detailed Landscape Design Principles.
- 1.1.16 The Project-Wide Design Principles respond to the site characteristics and its context to underpin the detailed design of the Project to ensure its integration into its surrounding, informed by the Project's vision and objectives, analysis and assessment work contained in the **Environmental Statement** [APP-026 to APP-217] and main volumes of the **Design and Access Statement** [REP2-032 to REP2-036]. The matters covered by the Project-Wide principles include design quality, landscaping,



built-form, noise, resources and waste, and lighting and amenity. The lighting related Project-wide design principles have been informed by the high-level criteria, guidance and illustrative details contained in the **Operational Lighting Framework** [APP-077] to secure the key principles within the Framework which apply to the detailed design of the development.

- 1.1.17 The series of Detailed Design Principles provides bespoke design requirements for specific works areas in the Project, informed by the **Environmental Statement** [APP-026 to APP-217] and site specific analysis and initial design work contained in the main volumes of the **Design and Access Statement** [REP2-032 to REP2-036].
- 1.1.18 Collectively, the Project-wide and Detailed Design Principles provide a comprehensive suite of design measures to be considered and reflected in the layout, siting, scale and external appearance of the detailed design of each part of the authorised development. The design principles cover all environmental aspects (such as the water environment, landscape and visual impacts, recreational provisions and the historic environment) in order to limit or minimise any environmental impacts as well as setting design considerations including materiality, sustainability, operational efficiency, accessibility and functionality.



Table 1.11.1: Project-Wide Design Principles

Desig	n Quality
D1	 To achieve good design, the detailed design of the authorised development will be: receptive to the landscape and historical character and function, landscape permeability, landform and vegetation; visually appropriate and sensitive to place, with an appearance that demonstrates good aesthetics as far as possible and appropriate to its function; sustainable, duration, adaptable and resilient as reasonably practicable having regard to regulatory and other constraints; functional and fit-for-purpose; and efficient in use of natural resources and energy used in their construction.
Lands	caping
L1	Any trees, scrub, habitats and hedgerows which are features of ecological value will be retained and incorporated within the design, where feasible to do so and with regards to the Removal and Retention Plans for trees and vegetation to be approved under the detailed Arboricultural and Vegetation Method Statements described in CoCP Annex 6 (Doc Ref. 5.3).
L2	Tree and shrub planting will be provided within built-up areas (such as car parks) to reinforce retained tree lines and across the Project. The landscape planting will include a variety of native trees and shrubs and wildflower grasslands.
L3	 New woodland will be planted along the highway works and new road alignments including: The replacement of an existing non-native hedgerow comprising Leyland cypress (Leylandii) between the A23 London Road and Perimeter Road East with a native species-rich hedgerow of approximately 125 metres in length (Work No. 42).



Projec	t-Wide Design Principles
	 The provision of a new native species-rich hedgerow along Crawter's Brook to create a green corridor link to the west of the airport, of approximately 750 metres in length (Work No. 42).
L4	Vegetation retention proposals for all elements of the Project will be designed to:
	 Ensure existing vegetation is retained wherever possible and adverse impacts on the important features and locally distinctive patterns of development at Gatwick Airport are minimised. Minimise adverse impacts on the character of surrounding landscapes and townscapes. Prevent the coalescence of the airport and settlements of Crawley and Horley. Protect important urban green spaces, including Riverside Garden Park and Church Meadows. Ensure that visually significant vegetation is retained to minimise adverse effects on visual receptors, heritage assets, protect important views and protect the natural beauty and setting of the AONBs and the National Park
L5	The management of, or implementation of, proposed mitigation to enhance existing green infrastructure including hedgerows, woodland, trees, shrubs, wetland and amenity planting will be designed to: Enhance the character, visual quality and biodiversity of Gatwick Airport and its surrounding landscape/townscape. Enhance the screening capacity of visually significant vegetation.
L6	 Proposed woodland, tree, scrub, shrub, wetland, amenity and grassland planting will be designed to: Ensure a high quality environment is created within Gatwick Airport and its surrounding landscape/townscape. Provide replacement/compensation planting where vegetation would be removed, particularly as a result of surface access improvements within and adjacent to the A23/M23 Spur corridor.



Projec	Project-Wide Design Principles	
L7	Proposed earth shaping, embankments, cuttings or bunds will be designed to:	
	 Ensure that visual screens are provided to minimise adverse effects on visual receptors and provide an opportunity for the creation of diverse habitats. 	
	 Provide replacement/compensation features where they have been removed. 	
L8	Proposed fences, walls or barriers will be designed to:	
	 Ensure that visual screens are provided to minimise adverse effects on visual receptors. 	
	 Provide replacement/compensation features where they have been removed. 	
L9	Proposed hard landscaping will be designed to:	
	 Enhance existing green infrastructure including hedgerows, woodland, trees, shrubs, wetland and amenity planting; 	
	Enhance the character, visual quality and biodiversity of Gatwick Airport and its surrounding landscape/townscape.	
	Enhance the screening capacity of visually significant vegetation.	
L10	A buffer zone of at least 15 metres will be provided around any areas of Ancient Woodland, measured from the boundary of	
	the woodland. No works will be carried out within these buffers. Where possible and within the Order Limits, the buffer zone	
	will contribute to wider ecological networks and be part of the green infrastructure provisions in the works area.	
L11	New planting provisions will take account of aerodrome safeguarding regulations determined by the ICAO and CAA in place	
	at the time of detailed design taking place.	
Built F	orm	
BF1	All new buildings constructed as part of the Project will be designed and constructed to achieve Net Zero emissions during	
	operation.	



BF2	Detailed design will consider how to reduce reliance on the energy grid during prolonged warmer/colder seasons and more
	extreme temperature events, particularly low carbon heating and cooling systems and ventilation systems
BF3	The design of buildings should consider the implementation of design measures/features to manage the risk of extreme
	storm events, flood events and heatwave related drought events.
BF4	New buildings will be designed to 'BREEAM Excellent' rating (or equivalent at the time of detailed design) for water
	efficiency.
Noise	
N1	Detailed design should aim to minimise noise emissions from noise sources and ensure that noise-sensitive facilities are
	designed to insulate them from external noise to meet good internal noise standards. Noise barriers and bunds (described
	below) should be designed to deliver the noise screening for aircraft and other sources anticipated in the Environmental
	Statement.
N2	Plant associated with new facilities should be designed with noise attenuation where necessary to avoid noise disturbance to
	noise-sensitive uses on and off-site, in particular with reference to BS4142 for off-site receptors.
N3	To reduce adverse noise impacts associated with the proposed surface access improvements, the design shall include:
	A new right turn onto the A23 from the North Terminal Roundabout which removes the current need for traffic wishing
	to turn right instead having to turn left and U-turn at the Longbridge Roundabout,
	thus reducing traffic flows on this section of the A23.
	 Approximately 1 metre high noise barrier to be installed along the North Terminal Roundabout flyover elevated section (facing Riverside Garden Park).
	 Approximately 1 metre high noise barrier to be installed along the South Terminal Roundabout flyover elevated section north side.



Project-Wide Design Principles	
Resource & Waste	
RW1	Detailed design should seek opportunities to repurpose the use of existing assets, components, products and materials.
Lightin	g & Amenity
LA1	Lighting levels will take account of the extent to which people need to see after dark and how this varies from area to area,
	with some requiring high levels of visual acuity whilst others should enable just a basic understanding of scale and the ability
	to identify a safe passage through a space.
LA2	The lighting design for each element of the Project will consider the manner in which the space that is being designed will be
	used after dark as well as its relationship to spaces adjoining it.
LA3	A considered and consistent lighting approach should be developed for the key navigational routes such as roads and
	pedestrian paths. Light will play an important role in supporting legibility and accessibility and in reinforcing specific visual
	and physical connections across Gatwick Airport.
LA4	The design of artificial lighting must support the various needs of the passengers and staff at Gatwick Airport after dark. This
	includes those with special needs and the elderly. Supporting a highly accessible after-dark environment will include avoiding
	excessive contrasts, avoiding direct and reflected sources of glare, avoiding shiny, mirror-like surfaces at pedestrian level,
	controlling shadow and limiting potentially confusing upward lighting.
LA5	Energy efficiency should be considered at all stages of the Project, including design, construction and operation. This
	includes the efficiency of the energy supply and whether renewable energy measures could be integrated into the design of
	the Project.
LA6	Artificial light must be designed to assist in maintaining a safe environment at all times. This includes positively defining
	potential hazards such as steps and ramps and areas where pedestrians encounter moving vehicles, at for example,
	pedestrian crossings. Such areas may be defined after dark through passive techniques, such as landscape materials with



Project	-Wide Design Principles
	appropriately contrasting reflectance, as well as through active illumination; perhaps using focused light and increased intensity.
LA7	Lighting should be designed to provide an overall sense of security throughout Gatwick Airport, including supporting both active surveillance (e.g. CCTV) if/when required and modelling of people and surfaces should be provided where required. Where CCTV surveillance is supported by infra-red technology, the requirement for additional light in the visible spectrum may not always be necessary. It should be noted that perceptions of safety and security are not necessarily dependent on providing high intensities of light and indeed, in some cases, low levels of light can be important in maintaining a sense of security and privacy. Creating an environment that feels secure will largely be dependent on ensuring that spaces are legible, appear well maintained, give due consideration to inclusivity and do not inhibit adaptation.
LA8	In general, lighting should be controlled to remain contained within the site boundary. Positioning and the use of directional lighting and shields should be used to prevent unintended light spill.
LA9	Lighting in the vicinity of sensitive receptors should ensure that potential adverse effects are identified, controlled and mitigated. Mitigation should typically be provided in the form of lighting equipment utilising precise optics and lenses, baffles and light shields, in conjunction with a suitable lighting control regime. Individual habitat requirements may necessitate the specification of a particular lighting spectrum, however this should be proportionate and not at the expense of safety.
LA10	The lighting design should consider sustainable development and be designed to minimise adverse impacts on heritage assets, biodiversity, local residents and users of public rights of way and open space through specifying types of lighting equipment, mounting location, materiality, durability and light source to minimise disruption to safety and security during operation.
LA11	Lighting will be designed to avoid disturbance to areas of value for bats by shielding adjacent habitats of value.



Table 1.11.2: Detailed Built Form Design Principles

Detailed Built Form Design Principles	
North & S	outh Terminal Buildings (Work Nos. 22 and 23)
	For the North Terminal building, the northern extension shall comprise approximately 9,900m ² of additional floorspace and the southern extension shall comprise approximately 12,600m ² of additional floorspace.
	For the South Terminal building, the extension shall comprise approximately 15,000m ² of additional floorspace.
	The extensions to both terminal buildings will be designed to provide a high quality passenger focused environment
DDE4	connected to the existing IDL buildings and shall incorporate the following design features:
DBF1	 A contemporary aesthetic ensuring that the extensions and the existing buildings complement each other, reflect modern design techniques and use high quality and robust materials.
	 Have regard to the scale and massing of the existing terminal buildings.
	The façade will provide, where possible, natural light and views to the airfield.
	 Materials will include lightweight cladding, metal rainscreen cladding, composite cladding and glazed curtain walling.
	 Solar shading to limit glare and overheating on the southern façade.
DBF2	The design of the extensions to the terminal buildings will have regard to the following considerations:
	 Health and wellbeing (including DDA compliant access).
	 Accessibility for all.
	 A floorplate configuration that promotes natural daylight, ventilation and intuitive wayfinding.



- Efficient servicing and recycling.
- A core and floorplate design to permit flexibility to adapt to changing needs.
- Climate change impact and energy performance.
- Security, safety and low energy lighting.
- Consider the re-use of existing structure and building fabric.
- Sense of place and high-quality passenger experience.
- Robust fabric and materials.
- Acoustic environment design.

Hotel Buildings (Work Nos. 26, 27, 28(a) and 29)

DBF3

The hotel buildings will incorporate the following design features:

- A contemporary aesthetic reflecting modern design techniques and use high quality and robust materials suitable for its immediate context and adjacent buildings, and of an aesthetic to suit hotel building typology.
- The external appearance will comprise lightweight cladding and areas of glazing to the public areas of the building.
- Maximise views and natural light through its design to enhance visitor and staff experience and comfort. Windows
 will be provided to individual rooms taking into consideration privacy and acoustic requirements.
- Provide good-quality public realm, including hard and soft landscaping, around the hotel to provide visual and attractive amenity for staff and visitors to the building.
- Pedestrian routes to the hotel and within its public realm will be well integrated with pedestrian routes to the airport terminal and other transport facilities, to provide convenient access for travellers.

DBF4

The design of the hotel buildings will have regard to the following considerations:



- Health and wellbeing (including Disability Discrimination Act (DDA) compliant access).
- Accessibility for all.
- Floorplate configuration to promote natural daylight and ventilation.
- Core and floorplate design to permit flexibility to adapt to changing needs.
- Security, safety and low energy lighting.
- Efficient servicing and recycling.
- Lifecycle costs, demolition and future recycling of building fabric.
- Internal acoustic standards between adjacent rooms or public areas.
- Climate change and energy performance.
- Renewable energy generation.

DBF5

In the conversion of Destination Place office to a hotel (Work No. 29), the design will take account of its location and footprint set back from main façade. It will provide a façade solution that responds to the functional requirements of a hotel.

Office Building (Work No. 28(b))

DBF6

The office building will incorporate the following design features:

- A contemporary, and light industrial aesthetic to ensure that the building complements its surroundings, reflects all new buildings complement each other, reflect modern design techniques, high quality and robust materials, and an industrial/aviation aesthetic.
- A design which has regard to the scale and massing of surrounding buildings.
- Clearly defined and visible entrance points, enhanced by the public realm's design and landscape provisions.



- The façade will incorporate large areas of glazing to give visual amenity and natural light to the users, with floor plate depth to be considered to avoid deep floor plates.
- Materials will include appropriate cladding and glazing.
- The building will be orientated in a north-south direction to reduce the amount of south-facing glazing, but solar shading will still be considered to limit glare and overheating, if necessary.

Surrounding the office building will be soft landscaping and amenity space for employees and visitors.

DBF7

The design of the office building will have regard to the following considerations:

- Functionality and efficiency to support the daily operations and tasks of the employees.
- Flexibility.
- Comfort and wellbeing.
- Spaces that promote collaboration and communication.
- Technology integration.
- Privacy and acoustics.
- Accessibility for all.
- Solar and passive shade.
- Servicing and waste recycling.
- Security, safety, access control and CCTV.
- Considers the future re-use of the building fabric.
- Renewable energy generation.

Multi-storey and Decked Parking (Work Nos. 22(g), 30(b), 31((e) and 32)



Detailed B	Detailed Built Form Design Principles	
DBF8	The design of the decked car parking will incorporate the following design features:	
	 A naturally ventilated open façade with no external cladding. 	
	 Materials may include a galvanised or painted metal frame, timber frame or constructed in pre-cast or in-situ concrete. 	
	Clearly visible entrance to aid intuitive wayfinding.	
	 Incorporate vehicular access and ramps, stairs and ticketing areas. 	
	 The building form and structural solution will be cognisant of the scale and massing of surrounding buildings. 	
DBF9	The design of decked car parking and multi-storey car parking buildings will have regard to the following considerations:	
	 Level floor/ramp and ramped floor options. 	
	 Security, safety, CCTV, slip resistance and low energy lighting. 	
	Blue badge holder parking.	
	 Ventilation and smoke extraction. 	
	 Charging points for electric vehicles. 	
	 Renewable energy generation. 	
	 Safe walking routes for pedestrians. 	
	 Access control and ticketing. 	
	Cycle, scooter and motorcycle parking.	
DBF10	In order to limit visibility to Charlwood House, the design of Car Park X (Work No. 31) will:	



Detailed B	Detailed Built Form Design Principles	
	 Locate the decked parking provision in the eastern portion of the Works Area and ensure the decked parking is located to the north of retained vegetation (on the site's southern boundary) and not directly north of the site access. Limit tree and hedgerow removal on the site's boundaries where possible, other than as required to widen the vehicular entrance to Car Park X from Charlwood Road. Provide re-planting (of native trees and hedgerows) along the southern boundary to further screen views from the Listed Building (Charlwood House) and wider countryside, and minimise any light spill outside the site. 	
DBF11	 The design of the multi-storey car parking building will incorporate the following design features: The facades will maintain open areas for natural ventilation. Materials may include galvanized or painted metal frame or constructed in pre-cast or in-situ concrete. Clearly visible entrance and circulation cores to aid intuitive wayfinding. 	
DBF12	Additional or enhanced cladding will be provided on the western elevation of the multi-storey Car Park H where it faces the public realm area and the Hilton Hotel. The cladding will be designed to provide a higher visual quality façade and feature bespoke elements, such as decorative metal panels, while maintain the practical functions of ventilation and shading to serve the car park building.	
DBF13	The detailed design of multi-storey Car Park Y (Work No. 30(b)) will consider its prominent location adjacent to the North Terminal and associated hotels.	
DBF14	The design of external lighting for decked car parks will consider the following: Using white light sources which are dimmable.	



- Utilising column-mounted luminaires at the perimeter of the car park.
- Alignment of lighting columns with parking space lines.
- A preferred height of column mounted luminaires to be circa 4m (where practicable) above finished deck level.
 This excludes external lighting at Car Park H which will have lower height columns of circa 3m and with supplementary low level lighting.
- The luminaires will be a 'flat glass' type with 0% uplight and no tilt above horizontal level.
- Barrier design will limit vehicle headlight spill externally.
- Precise lenses, baffles and light shields will be used where necessary to restrict the potential for obstructive light to ecological sensitive areas, heritage assets and surrounding rural landscape.
- If practicable, base hinged columns are preferred. Mid-hinge columns may also be considered.

Surface Car Parking (Work No. 33)

DBF15 The surface car parking will incorporate the following design features:Clear and orderly layout of spaces to aid circulation and space recognition.

- Easy identifiable entrance and exit systems.
- Parking to have solid surface or where appropriate to be surfaced with a permeable material (such as 'Grasscrete' paving), to facilitate sustainable drainage.
- Security fencing between the car parking area and the airfield.

DBF16

The design of surface car parking will have regard to the following considerations:

- Mast lighting and CCTV.
- Security, safety, CCTV, slip resistance and low energy lighting.



Detailed B	uilt Form Design Principles
	Blue Badge holder parking.
	 Use of recycled fabric from Gatwick Airport as sub-base or similar.
	 Safe walking routes for pedestrians.
	 Access control and ticketing.
DBF17	The design of external lighting for surface car parking will consider the following:
	 Using white light sources which are dimmable.
	 Utilising column-mounted luminaires at the perimeter of the space.
	 Alignment of columns with parking space lines.
	 A preferred column height of 6-8m (above finished ground level), optimised for efficient spacing and uniformity and dependent on the scale of the car park. Column heights of 6m at the perimeter of the space is preferred to reduce back-spill beyond. The preferred column heights will not exceed 8m above finished ground level to minimise light obtrusion and environmental impact.
	The luminaires will be a 'flat glass' type with 0% uplight and no tilt above horizontal level.
	 Precise lenses, baffles and light shields will be used where necessary to further restrict the potential for obtrusive light to ecologically sensitive areas, heritage assets and surrounding rural landscape.
	 If practicable, base hinged columns are preferred. Mid-height columns may also be considered.
Taxiways (Work Nos. 4 and 18)
DBF18	Where proposed taxiways would bisect parts of floodplain areas syphoned connections are proposed to retain
	floodplain connection on both sides of the taxiways.
DBF19	The design will include:



Detailed Built Form Design Principles The replacement western noise mitigation bund and wall, including earthworks and bunding of approximately 8 metres in height (forming the western section of the noise bund and wall) and up to 10m in height (forming the eastern section of the noise wall, beyond the bund), provided at the western end of northern runway; and Noise barriers approximately 10 metres in height shall be provided for approximately 500 metres to the north of the relocated Taxiway Juliet and around the boundary of the re-located fire training ground. Perimeter Road South (Work No. 42) DBF20 The design will include the construction of a 300mm high weir on the southern entrance to the River Mole runway culvert (eastern box). The design will include the creation of a fish pass on the existing weir located immediately upstream of the River Mole DBF21 runway culvert, designed to be suitable for multi species to improve fish passage particularly during low flow conditions. The design will include mechanisms for future maintenance and any debris clearance necessary for the pass to function. Surface Access (Work Nos. 24, 25, 35, 36 and 37) DBF22 Local highway authority roads are to be designed in accordance the relevant local design standards, including the Manual for Streets. DBF23 The design will include a noise barrier approximately one metre in height along the North Terminal roundabout flyover elevated section (facing Riverside Garden Park). DBF24 The design will include a noise barrier approximately one metre in height along the South Terminal roundabout flyover elevated section, north side.



Detailed Built Form Design Principles	
DBF25	The extension to the existing culvert under the A23 on the Burstow Stream Tributary will be designed to be as short as possible and would be designed with a depressed invert and a natural bed gradient in order to maintain continuity of flow and sediment transport capability. The culvert would also be designed with splayed wing walls to reduce the light and dark barrier.
DBF26	The permanent lighting design as part of the Longbridge Roundabout highways improvements will consider the proximity to the Church Road (Horley) Conservation Area.
DBF27	The extent of vegetation clearance and planting as part of the Longbridge Roundabout highways improvements should be designed to avoid visual impacts on views across the Church Road (Horley) Conservation Area.
DBF28	The design will include the provision of a permanent additional pedestrian route linking Riverside Garden Park into the replacement public open space in Car Park B, linking with the Sussex Border Path to the north of the A23.
Replaceme	ent CARE Facility (Work No. 9)
DBF29	The replacement CARE facility building will be of a contemporary design to be reflective of surrounding operational buildings and be of efficient methods of construction and materials. The building design will incorporate the following design features:
	 Structural frame, with lightweight cladding and translucent panels where possible for natural daylighting. Materials may include profiled metal or composite sheet cladding and roofing, with translucent panels for natural daylighting and to key areas (such as office space).
DBF30	The main building will be designed having regard to the following considerations: Health and wellbeing (including DDA compliant access).



- Security, safety and low energy lighting.
- Efficient servicing and recycling.
- Safe pedestrian walking routes.
- Good quality staff accommodation and amenities.
- Lifecyle costs, demolition and future recycling of building fabric.
- Surface parking with disability provision.

DBF31

The design of the replacement CARE facility will take account of the movement of Large Refuse Vehicles, including the need for unloading, loading and parking of these vehicles. The parking spaces for these vehicles will be circa 18m x 12m x 2.5m in size.

Replacement Motor Transport Facilities (Work No. 10)

DBF32

The design of the main building in the replacement motor transport facilities will be of a contemporary design to reflect its surroundings and efficient methods of construction and materials. The main building will have a series of vehicle roller shutters or sectional doors.

The building design will have regard to the following considerations:

- Health and wellbeing (including DDA compliant access).
- Security, safety and low energy lighting.
- Efficient servicing and recycling.
- Safe pedestrian walking routes.
- Good quality staff accommodation and amenities.
- Lifecyle costs, demolition and future recycling of building fabric.



	uilt Form Design Principles
	 Surface parking with disability provision.
Replaceme	ent Ground Maintenance Facilities (Work No. 11) and Replacement Airfield Surface Transport Facilities (Work No.
12)	
DBF33	The hardstanding area of the replacement ground maintenance facilities will have an area of 1,230m² and the
	hardstanding area of the replacement airfield surface transport facilities will have an area of approximately 1,440m ² . If
	the facilities are designed together, then opportunities will be explored to reduce the overall area of hardstanding to be
	lower than the combined total (of approximately 2,670m²) through efficiencies in the design.
	The hardstanding area will be designed to provide sufficient space for vehicles to manoeuvre.
DBF34	The design of the replacement facilities will have regard to the following considerations:
	 Health and wellbeing (including DDA compliant access).
	 Security, safety and low energy lighting.
	 Efficient servicing and recycling.
	 Safe pedestrian walking routes.
	 Lifecyle costs, demolition and future recycling of building fabric.
	 Surface parking with disability provision (only applicable to the replacement motor transport facilities).
	The design of the office and welfare facilities in the replacement ground maintenance facilities will be of a portacabin
	style building (or similar) and provide good quality staff accommodation and amenities.
Replaceme	ent Rendezvous Point North (Work No. 13)
DBF35	The design of the replacement rendezvous point north will have regard to the following considerations:
	 Health and wellbeing (including DDA compliant access).



- Security, safety and low energy lighting.
- Efficient servicing and recycling.
- Safe pedestrian walking routes.
- Lifecyle costs, demolition and future recycling of building fabric.
- Direct access to the airfield secure zone.
- Secure fencing, with rapid access gates to the airfield secure zone and closable access gates to the landside roads.

The cabin building will be a modular design, having regard to efficient methods of construction and materials.

The site will be secured with a fence with closable access gates from the landside roads and rapid access gates onto the airside to provide direct access to the airfield and its internal road network.

Replacement Fire Training Ground (Work No. 14)

DBF36

The design of the replacement facilities will have regard to the following considerations:

- Health and wellbeing (including DDA compliant access).
- Maximise the re-use of existing buildings and equipment where possible.
- Security, safety and low energy lighting.

DBF37

The replacement of the fire training ground will involve the reuse and relocation of existing facilities as far as possible.

Satellite Airport Fire Service Facility (Work No. 15)

DBF38

The design of the fire service facility will have regard to the following considerations:



Detailed Built Form Design Principles	
	 Health and wellbeing (including DDA compliant access). Good quality staff accommodation and amenities. Security, safety and low energy lighting. Direct access to the airfield.
DBF39	The main garage building will have a dual front and rear access, and be positioned near to the End Around Taxiway East (Work No. 4(g)).
Aircraft Han	gar (Work No. 16)
DBF40	 The hangar will be of a contemporary design to reflect its surroundings, reflect modern design techniques and be of efficient methods of construction and materials. The hangar will incorporate the following design features: Longspan structural frame and large doors to provide clear width access for aircraft. Materials may include a steel portal frame with metal cladding and roofing with use of transparent or translucent panels for natural daylighting in the main hangar space and its external doors.
DBF41	 The design of the hangar will have regard to the following considerations: Security, safety and low energy lighting. Consideration for the generation of renewable energy and rainwater harvesting. Good quality staff accommodation and amenities. Consideration for the generation of renewable energy.
Larkins Roa	d (Work No. 20)



DBF42

The design of the realigned Larkins Road will have a carriageway width of approximately 9.3m, with a 5m verge on either side (except for the area south of Pond M, between Brockley Wood and Hangar 1).

Car Park H Site (Work No. 28)

DBF43

The design of the Car Park H site will have regarding to the following considerations:

- Seek to retain existing trees to the north and south where feasible to do so against design requirements.
- Soft and hard landscaping provisions around the perimeter of new buildings for visual and attractive amenity.
- Access to the site from public transport provisions, taxis or on-airport car parks.
- Phasing requirements to enable the site to be delivered in phases.
- Improve the pedestrian route(s) between the site to South Terminal.
- Maintain two rights of access routes between the existing buildings forming the Hilton Hotel.
- Provision of a linear public realm area, linking to the new uses. The public realm will allow for easy and attractive circulation between buildings as well as providing visual amenity for building users.

If the site is brought forward in stages, the design of each component will have regard to other elements and demonstrate that it does not preclude the development of the remaining area.

Airfield Works (Work Nos. 1 to 7)

DBF44

The design in the repositioning of the existing northern runway (Work No. 1) 12 metres to the north (measured from the centreline of the existing northern runway) will include the following:

- Removal of a 12m strip of hardstanding (part runway, part shoulder) on the southern side of the existing northern runway and reinstatement of land as grass;
- Reconstruction of the existing northern shoulder to bring this to runway standard;



Detailed Di	uilt Form Design Principles
	 Construction of a new 12m strip of hardstanding (part runway, part shoulder) to the northern side of the existing northern runway;
	Replacement of drainage and re-installation of Airfield Ground Lighting; and
	 Resurfacing of the repositioned northern runway.
	The repositioned northern runway will be of 45m in width and 2.6km in length.
DBF45	The runway access track (Work No. 2) running east-to-west between the main runway and the repositioned northern runway will be surfaced with grasscrete.
DBF46	The design in the conversion of the three existing aircraft stands to west of Pier 3 to fully serviced overnight
	parking/remote aircraft stands (Work No. 3) will include the installation of fuel hydrants, fixed electric ground power,
	lighting and stand entry guidance systems.
DBF47	The aircraft holding area (Charlie Box) (Work No. 5) will be designed to provide new operational aircraft hold points to
	allow aircraft to be held prior to accessing the northern runway. The new taxiways and taxi routes will be designed for
	Code C, Code E and Code F aircraft (as defined in International Civil Aviation Organisation (ICAO) Annex 14).
DBF48	The design of Pier 7 (Work No. 6) will be of three floors and include passenger circulation space, passenger service
	areas (inc. commercial facilities and WC facilities), processing and waiting areas for passengers, access structures to
	allow for boarding of aircraft and an autonomous vehicle station.
DBF49	The design of Pier 7 (Work No. 6) shall include the following design features:
	 A contemporary aesthetic ensuring that the building complements surrounding buildings, reflects modern design
	techniques and uses quality design materials.
	Of a linear building form.



	 Materials may include lightweight cladding and areas of glazing to provide natural light and facilitate views of the airfield. Solar shading will be designed on the building's southern façade, as necessary.
DBF50	The design of Pier 7 (Work No. 6) will have regard to the following considerations:
	 Health and wellbeing (including DDA compliant access). Accessibility for all.
	 A floorplate configuration that promotes natural daylight, ventilation and intuitive wayfinding.
	 Climate change impact and energy performance.
	 Security, safety and low energy lighting.
	 Considers the future re-use and recycling of the building fabric. Efficient servicing and recycling.
DBF51	The reconfiguration and constructed aircraft stands in the apron to the south of Pier 7 (Work No. 6) would be designed for Code C and E aircraft (as defined in ICAO Annex 14).
DBF52	The design of the Oscar Area (Work No. 7) will accommodate eight remote aircraft stands.
DBF53	The design of the airfield works will comply with the Civil Aviation Authority's (CAA) licensing and certification criteria
	for UK licensed aerodromes. The airfield design will be subject to the CAA approval process under CAP 791:
	Procedures for changes to aerodrome infrastructure (or other relevant and appropriate process that is in place when
	the detailed design is being carried out). Should detailed design conflicts arise between engagement with the CAA
	through the CAP 791 approval process and consultation with Crawley Borough Council (under Requirement 4(1) of the
	DCO), the CAA's position will carry greater weight.



Table 1.11.3: Detailed Drainage Design Principles

Detailed Drainage Design Principles	
Authori	sed Development (Excluding the highways works and excepted development)
DDP1	Surface water drainage storage attenuation features (tanks, ponds etc) will be sized to cater for the 1 in 100 (1%) Annual
	Exceedance Probability (AEP) storm event plus a 25% allowance for climate change as required by Environment Agency
	guidance using the appropriate hydrology at the time of detailed design.
DDP2	Loss of fluvial (river) floodplain would be mitigated to ensure no increase in flood risk to other parties through syphons and
	the flood compensation areas.
DDP3	Infiltration basins and retention ponds will not appear utilitarian or urban and would be designed to appear as naturalistic
	elements within the wider setting, that take account of existing topography, gradients and field boundaries. Planting would be
	provided to soften edges where this is appropriate to the context. The drainage design shall incorporate Sustainable
	Drainage Systems (SuDS) that provide for runoff treatment and reduce the risk of flooding in local catchments by providing
	storage and attenuation.
DDP4	The design of drainage and water mitigation measures should consider the exceedance of the networks/measures capacity
	and ensure that this would occur safely.
DDP5	Surface water drainage systems should be developed in accordance with the ideals of sustainable development (i.e. SuDS).
	These should seek to mimic the natural environment and replicate the natural drainage prior to development. This should
	prioritise the infiltration of runoff to ground where practicable over the restriction of runoff rates (i.e. attenuation). It should be
	noted that based on the preliminary ground investigation the majority of Gatwick Airport is located within an area of clay
	geology so infiltration may not be feasible. If infiltration of runoff is not viable, then above-ground source control options
	would be prioritised where practicable, noting restrictions due to the need to not attract wildfowl due to aircraft safeguarding.
DDP6	Improvements to the wastewater sewer system will include the following:



Detailed	Detailed Drainage Design Principles	
	 Replacement of pumps and the pumping main at pumping station PS06 to provide additional capacity; and Construction of a new pumping station on the east side of the Brighton-London mainline railway to convey all wastewater flows from this area to Crawley STW to relieve the gravity outfall pipe discharging to Thames Water's Horley STW sewer network. 	
DDP7	The Project will include additional treatment of flows from the long term storage lagoons to increase capacity for the storage of de-icer contaminated runoff.	
DDP8	Car parks will include measures (e.g. interceptors) to ensure no detrimental water quality impact upon receiving watercourses.	
DDP9	Ground and groundwater conditions will be taken into account in the detailed design to minimise risk to groundwater quality, to minimise impedance to groundwater flow and to minimise risk of groundwater flooding.	
DDP10	Storage features within the drainage network will be sufficient for the mitigation and to minimise any impact on water quality including:	
	 A below ground storage Car Park Y up to 32,000m3 within the existing airfield water drainage network (Work No. 30(a)). A new surface water drainage pumping facility from the Pond A catchment. 	
DDP11	A drainage network would be installed, consisting of carrier drains, filter drains, ditches and attenuation basins/ponds, along with flow control arrangements to limit discharges to watercourses in line with the relevant national and local standards.	
DDP12	Drainage requirements will consider no environmentally significant detriment to the water quality of the receiving watercourses.	



Detailed	Drainage Design Principles
DDP13	Airfield syphons are proposed to retain floodplain connection beneath the proposed taxiways. Syphons beneath the noise
	bund would maintain floodplain connectivity.
DDP14	The water treatment works (constructed wetland treatment system) (Work No. 43) will be designed to handle typical effluent
	biodegradable de-icers (such as glycols, acetates and formats) from the pollution storage lagoons based on an optimum
	inflow of 100l/s and treated to a standard that would allow discharge to the Gatwick Stream. The design of the constructed
	wetland system will include:
	 reed beds, surrounded by embankments and suitable boundary treatment;
	 blower systems, provided with acoustic hoods and enclosed by acoustic fencing;
	 a mix of wetland vegetation species within the reed beds, including those that are resilient to climate change;
	 bunded nutrient dosing tank and pumps, pipework, pumps, bunding and maintenance access;
	 a cabin, secure storage unit and the reprovision of the car parking for Gatwick Greenspace Partnership; and
	• a mechanism to monitor the quality of outflows prior to discharge to the Gatwick Stream and a means to return flows
	of insufficient quality (defined by the discharge consent to be agreed with the Environment Agency as the relevant
	consenting authority) to the long-term storage lagoons.
DDP15	The new pumping station at the south-west of the site will be sized based on the final design of the Project to ensure runoff
	from new impermeable areas associated with the alterations to the runway and taxiways (within the existing Pond M
	catchment) is controlled to greenfield runoff rates and identifies the requirements for sufficient failure and emergency
	procedures for the pumping station.
DDP16	Soft/bio engineering will be used in preference to concrete where natural riverbanks require protection at the connecting
	spillways to the new flood compensation areas (FCAs) from watercourses. The bank forms would also be varied where they

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Detailed Drainage Design Principles

are being altered/ lowered to aid natural variance of flow in the channel. Planting would take place on the Museum Field FCA. This would restore natural vegetation to the floodplain whilst protecting the banks from erosion.

The FCAs would include measures to reduce their own impact including:

- Fish refuges such as at low points within the FCA that could be connected to the watercourse by swales to encourage any fish that move with rising flood water to return to the river as flood waters recede.
- Design flow control structure(s) to reduce water levels slowly (if the water level receded rapidly fish are more likely to be stranded).

DDP17

An open lidded culvert with substrate channel on the River Mole culvert will be provided and designed with a depressed invert and a natural bed gradient to maintain sediment transport capability. The extension will also be designed with splayed wing walls to reduce the light and dark barrier, as well as include baffles (refuges within a culvert that assist fish with their journey upstream) in the new channel or a low flow channel to retain sediment and create suitable depth of flow under a range of conditions. An expanded metal grid will be provided where the River Mole channel runs below the Taxiway Juliet and this new section of channel will include a low flow channel and a bed with substrate to allow vegetation to establish. The re-naturalised section of the River Mole will not be netted (to avoid impinging on tree growth and nature movement of the channel).

DDP18

Syphoned connections will be installed beneath the noise mitigation feature in the north-western area to maintain floodplain connectivity from Man's Brook.

Highways Works (Work No. 35,36 & 37)

DDP19

The drainage design for the highways works should comply will the principles set out in the ES Appendix 11.9.6 Flood Risk Assessment - Annex 2 Surface Access Drainage Strategy. (Doc Ref. 5.3).







Table 1.11.4: Detailed Landscape Design Principles

Replace	ement Open Space (Work Nos. 34(c) and 40)
DLP1	The design of open space should be easily accessible by all groups of people. The design of the open space should
	consider the needs of different groups of people, such as families with children, older adults, and people with disabilities.
DLP2	The activities and amenities provided in the open space should be versatile and suitable for different age groups and
	interests. For example, the space could include areas for sports, playgrounds, seating areas, and green spaces for picnics and relaxation.
DLP3	Open spaces should be well-lit and have clear lines of sight to prevent criminal activity and anti-social behaviour. Security
	measures should be provided, such as CCTV cameras, to deter criminal activity and provide a sense of safety for users.
DLP4	There should be footpath connections between the existing areas of open space in Riverside Garden Park and Church
	Meadows and replacement areas in Car Park B and to the west of the River Mole adjacent to Church Meadows.
DLP5	Woodland, scrub and species-rich grassland creation within Car Park B to provide an extension of Riverside Garden Park.
DLP6	Creation of new habitats within a newly created mitigation area north and east of Longbridge Roundabout comprising
	woodland, scrub and tree planting and species-rich, wet and dry grassland creation.
DLP7	Marginal planting would also be introduced around new attenuation ponds.
DLP8	In the design of the Church Meadow Replacement Open Space, the repositioning of the footbridge over the River Mole will
	be considered either downstream of the meander or with a wider bridge span to avoid the risk of erosion outside the
	meander bend.



DBF9 The design of the Museum Field Environmental Mitigation Area sho part of the site, comprising woodland, wet woodland, scrub and tree consider linkages and connections to the existing North West Zone	
	planting and anasica rish graculand. The decign will
consider linkages and connections to the existing North West Zone	e planting and species-rich grassiand. The design will
consider linkages and connections to the existing North West Zone	biodiversity area managed by GAL.
DLP10 The proposed earth bund in the south and east of Museum Field sl	ould provide a mosaic of habitats comprising scrub,
grassland and bare or poorly vegetated ground to provide a matrix	of habitats suitable for a variety of invertebrates.
DLP11 The flood compensation areas (including access arrangements) at	Museum Field and Brook Farm shall be designed in a
manner that minimises the disturbance of buried archaeological re-	nains as far as practicable.
DLP12 An extension to the River Mole footpath should be provided to the	and at Museum Field and Brook Farm.
DLP13 The farm access bridges over Man's Brook will have a wider clear	span than would otherwise be required in a more stable
environment.	
Active Travel Routes	
DLP14 Active travel measures are to be designed in with due consideratio	n of relevant design guidance such as LTN 1/20 Cycle
Infrastructure Design.	
DLP15 Active travel measures should consider the inclusive design princip	les as set out in DMRB CD 143 Designing for Walking,
Cycling and Horse-Riding.	
DLP16 The Project's active travel path for pedestrian and cyclists connecti	ng Longbridge Roundabout to Car Park Y on the southern
side of the highways improvement works will include a raised emba	nkment on the right bank of the River Mole. Culverts
would be included in the detailed design beneath the path if necess	ary to maintain floodplain connectivity.
River Mole diversion area (Work No. 39)	
DLP17 The diversion of the River Mole should create an increased length	of channel with a more sinuous, natural course and more
diverse channel profile.	



Detailed Landscape Design Principles

DLP18

The design should seek opportunities for ecological linkages through enhanced wildlife corridors and nodes, wet grassland habitats, native scrub and hedgerow planting and open scrub planting.

Pentagon Field ecological area (Work No. 41)

DLP19

The design should provide:

- Approximately 1ha of planting, including grassland reinstated for grazing of livestock.
- New woodland planting along the eastern boundary (along Balcombe Road), approximately 15m in length.
- Native scrub and hedgerow planting to supplement existing field boundaries and filter views to the surrounding rural landscape.
- A block of native woodland immediately south of Pentagon Field.
- The placement and grading of the spoil deposition, with a maximum height of up to 4m (above ground level) and with side slopes of a maximum of 1 in 3 gradient.



1.2 Glossary

Table 1.2.1: Glossary of Terms

Term	Description
CAA	Civil Aviation Authority
DAS	Design and Access Statement
EIA	Environmental Impact Assessment
ES	Environmental Statement
GAL	Gatwick Airport Limited
IEMA	Institute of Environmental Management and Assessment
трра	Million passengers per annum
NSIP	Nationally Significant Infrastructure Project
NTS	Non-Technical Summary
PEIR	Preliminary Environmental Information Report

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Annex A: The Design Adviser's role and process



Annex A – The Design Advisor's role and process

1.1 Approach to Design Consents process

- 1.1.1 This annex sets out GAL's approach to design review at the post-consent, detailed design phase. For the avoidance of doubt, the details of the layout, siting, scale and external appearance of buildings, structures and works detailed design proposals will be shared as follows:
 - in relation to local highway works, through approval by the relevant highway authority under DCO Requirement 5;
 - in relation to national highway works, through approval by National Highways under DCO Requirement 6 and Part 3 of Schedule 9 of the DCO;
 - in relation to the 'listed works' (being those works listed in Schedule 12 (Non-Highway Works for which Detailed Design Approval is Required) to the DCO), through approval by CBC (in consultation with MVDC and RBBC to the extent that they are the relevant planning authority for any land to which the details relate) under DCO Requirement 4(3); and
 - in relation to other works (being neither highway works nor 'listed works'),
 through consultation with CBC under DCO Requirement 4(1).

1.2 Appointment of an independent Design Adviser

- 1.2.1 GAL will appoint a suitably qualified and experienced independent Design Adviser;
- 1.2.2 The Design Adviser will report to GAL's Chief Technical Officer;
- 1.2.3 The Design Adviser will be provided with administrative support (Eg to arrange meetings) by GAL in order to carry out the role;
- 1.2.4 GAL considers that to effectively incorporate design advice into the design development of specified buildings and structures, that the Design Adviser would be appointed at an early stage of the design process, likely to be within RIBA stage 2.

1.3 Role of the Design Adviser

- 1.3.1 The role of the Design Adviser will be to work with GAL's design and architectural teams and review the design proposals brought forward by those teams.
- 1.3.2 In assessing the proposals, it would be at the discretion of the independent Design Adviser to convene a design review meeting.



- 1.3.3 The attendees of the design review meeting would be determined by the Design Adviser but as a minimum would include invitations to:
 - the Applicant's design team,
 - An officer from the relevant local authority, and
 - in relation to the highways elements, a National Highways representative or a member from the relevant Local Highway Authority as appropriate to their remit as highways authority.
- 1.3.4 The Design Adviser could invite others to participate in the design review meeting such as neighbouring local authority officer(s) and statutory consultees.
- 1.3.5 The Design Adviser would oversee / chair any discussion based on a presentation of the proposals from the GAL team.
- 1.4 Remit of the Design Adviser and scope of worsk
- 1.4.1 The role of the Design Adviser will be to undertake an independent review of the following specified elements of the Proposed Development:
 - Work No 26 (Hotel north of multi-storey car park 3)
 - Work No 27 (Hotel on the car rental site)
 - Work No 28(a) (Hotel on the Car Park H site)
 - Work No 35 (a) (v) (works associated with the South Terminal Junction improvements)
 - Work No 36 (a) (q) (works associated with the North Terminal Junction improvements)
 - Work No; 37 (a) (I) (works associated with the Longbridge Roundabout Junction improvements)
- 1.5 Design Review and other material considerations for the Design Adviser role
- 1.5.1 The Design Adviser will focus on review of the following aspects:
 - Adherence to Design Principles.
 - Building mass (scale and form).
 - Material, Façade treatment and design.
 - Hard and soft landscaping.
 - Pedestrian, passenger and active travel routes
- 1.5.2 The Design Adviser will be required to take into account a number of critical considerations including:
 - CAA Regulations



- Aerodrome Safeguarding
- ICAO Standards
- Health and Safety At Work Act 1974
- Building Regulations
- Security
- DMRB
- 1.5.3 The Design Adviser will not be required to review:
 - Internal Layouts
 - Phasing
 - Project Requirements
 - Interface and dependency with other projects
 - Sustainability Strategy

1.6 Outputs

- 1.6.1 Following a review of the proposals and the convening of a design review meeting (as necessary), the Design Adviser will prepare a written report (the "Design Report") for consideration by GAL.
- 1.6.2 The Design Report shall contain:
 - An executive summary;
 - A review of the design presented and its appropriateness given the local context and any constraints and other requirements placed on GAL;
 - The views of any design review meeting, where appropriate;
 - Set out recommendations including any areas for further consideration by GAL's design team, prior to finalising the design.
- 1.6.3 The Design Report will be advisory and non-binding on GAL.
- 1.6.4 GAL will however, take into account any recommendations made by the Design Adviser in the Design Report.
- 1.6.5 In bringing forward detailed proposals to discharge Requirements 4, 5 and 6, GAL will provide to the relevant authority a Design Review Statement in relation to those Works listed in paragraph 4.1 above, which shall include:
 - details of the review carried out,
 - a summary of the Design Report, and
 - a response to the recommendations and any areas for further consideration contained in the Design Report.