

# SAVILLE THEATRE

135 SHAFTESBURY AVENUE

SPECIALIST LIGHTING

# Saville Theatre

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# Saville Theatre

## Objectives

The aim of this report is to demonstrate the lighting strategy for the Saville Theatre facade lighting.

This overview on the following pages sets out the lighting design strategy and Technical Guidelines that have been used for the project

The final outcome will be the balanced use of light throughout the external facade areas of the site. Providing lighting consistency (illuminated and visual), providing a vibrant, welcoming and sustainable lighting installation.

The lighting to each of these elements will be designed according to the following criteria;

- Character and Ambiance
- Balance
- Legibility and Way Finding
- Sustainability
- Ecology and Environmental Considerations
- Safety and Security
- Buildability

### Character and Ambiance

Lighting will support and enhance the character during both daytime and the hours of darkness – providing a welcoming environment for all types of spaces. Lighting control will be used to vary the lighting across the course of the day.

### Balance

Each area will require the right balance of light to both highlight the architecture and meet the requirements set out by standards. Efficient lighting technology such as LEDs should be used where possible due to their long lamp life and good efficacy (the output of the lamp in relation to its energy usage, measured in lumens per Watt.)

### Legibility and Way Finding

Lighting will be designed to encourage the exploration of public areas with consistent quality, permitting instinctive navigation and orientation. The lighting design helps ease accessibility, inclusivity, and diverse user needs through appropriate light levels with gradual changes throughout the various spaces. It also has considerations for differently-abled individuals; it promotes a sense of community by responding to its users' practical requirements and safety concerns.

### Sustainability

The selection of good quality, efficient light sources and lighting equipment and the intelligent use of a site wide control system will ensure satisfactory lighting is always provided. The quantity of luminaires installed will also be considered in an effort to reduce power consumption. Running and maintenance costs will be consistently reduced and light pollution minimised through considerate design and installation. Where possible luminaires should be fully recyclable to ensure sustainable disposal of old or damaged fixtures and lamps.

### Ecology and Environmental Considerations

Ambient lighting to be downward facing and focused onto the routes directly around the building footprint, avoiding spill light on to surrounding areas as much as possible. The lighting design and use of lighting control will minimise any impact on adjacent buildings, residents or wildlife, as light pollution at night will disrupt human and animal natural behaviours, including sleeping, foraging and communication.

All luminaires will be fitted with optical control devices. A lighting control system will further reduce overnight light being used where not required for functional or aesthetic reasons. A colour index rating (CRI) of 85+, warm white colour temperatures of 2700k or 3000K (Kelvin) will be used throughout, as warm white light contains peak wavelengths higher than 550nm, which helps avoid the component of light most disturbing to bats.

### Safety and Security

The careful balance and contribution of lighting from a variety of locations and sources creates a cohesive visual environment, allowing residents, workers and visitors to easily navigate the site with peace of mind. Lighting will be designed to support the technical requirements of CCTV coverage. All areas will be designed to be compliant with the relevant British Standards and CIBSE lighting guides.

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By creating a master plan and lighting calculation model of how each space will be illuminated, lighting equipment and supporting cabling infrastructures can be integrated in the most efficient locations, reducing lighting equipment quantities and building complexity. Robust, long life lighting equipment will be specified and all fittings will be easy to install, maintain and recycle when it comes to their end of life.

# Saville Theatre

Layers of Light

## Amenity Lighting

Amenity Lighting is the use of diffuse illumination to provide background illumination for all users of the building. Amenity lighting is measured on the horizontal plane in lux (lx) and should minimise shadows and contrast. Lighting Standards specify illumination levels for different areas within the building.



## Accent Lighting

Accent Lighting is the use of focussed illumination to highlight specific surfaces, textures, colours and materials - predominantly on ceilings and walls. Accent lighting may contribute to functional lighting levels as well as improving intuitive wayfinding and defining buildings and spaces.



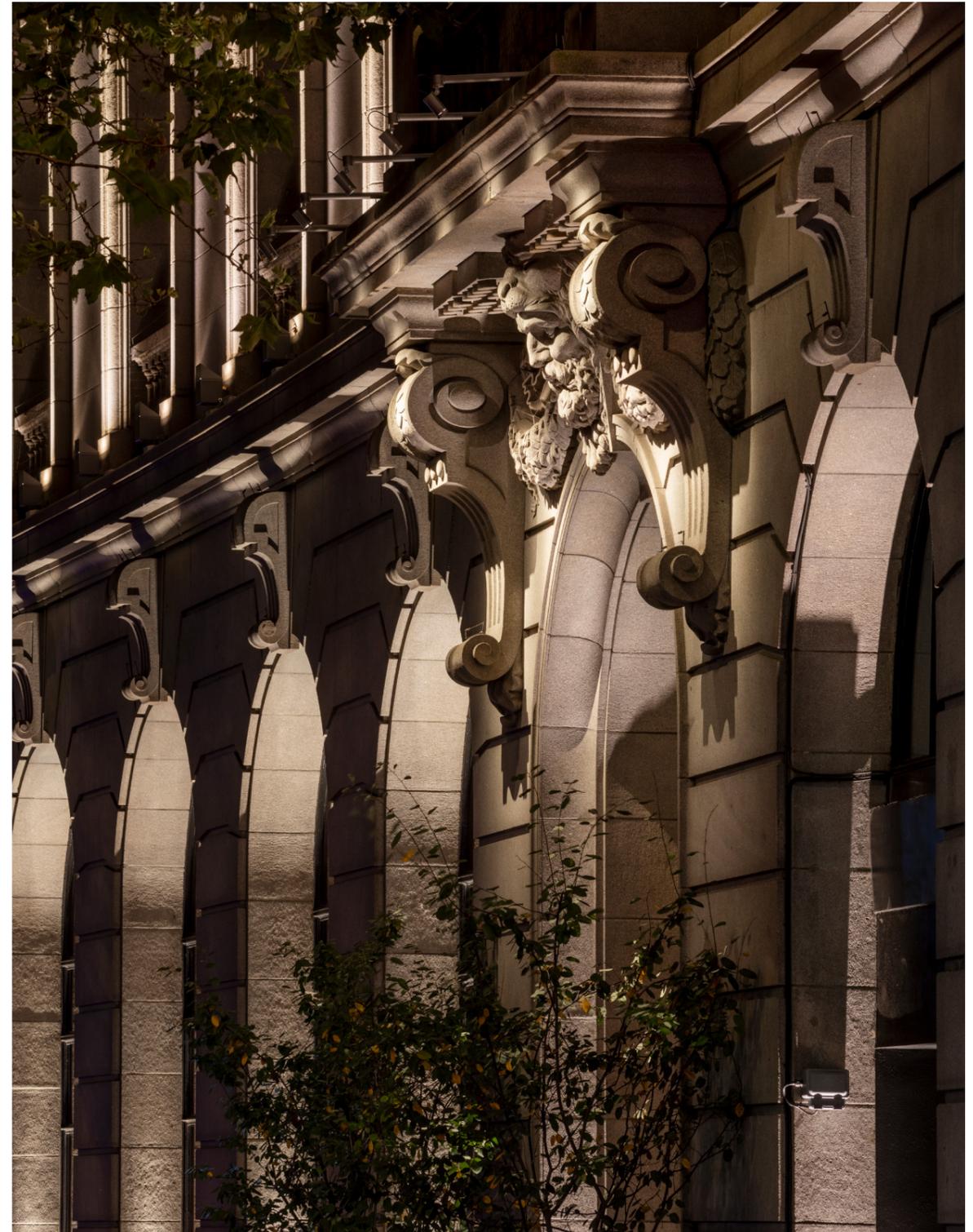
## Feature Lighting

Feature lighting is the use of Dynamic or Colourful Light for dramatic effect. Character lighting can be integrated architectural lighting; a collection of decorative lighting elements or a stand alone Light Installation. Character Lighting should attract attention and provide a moment of delight.



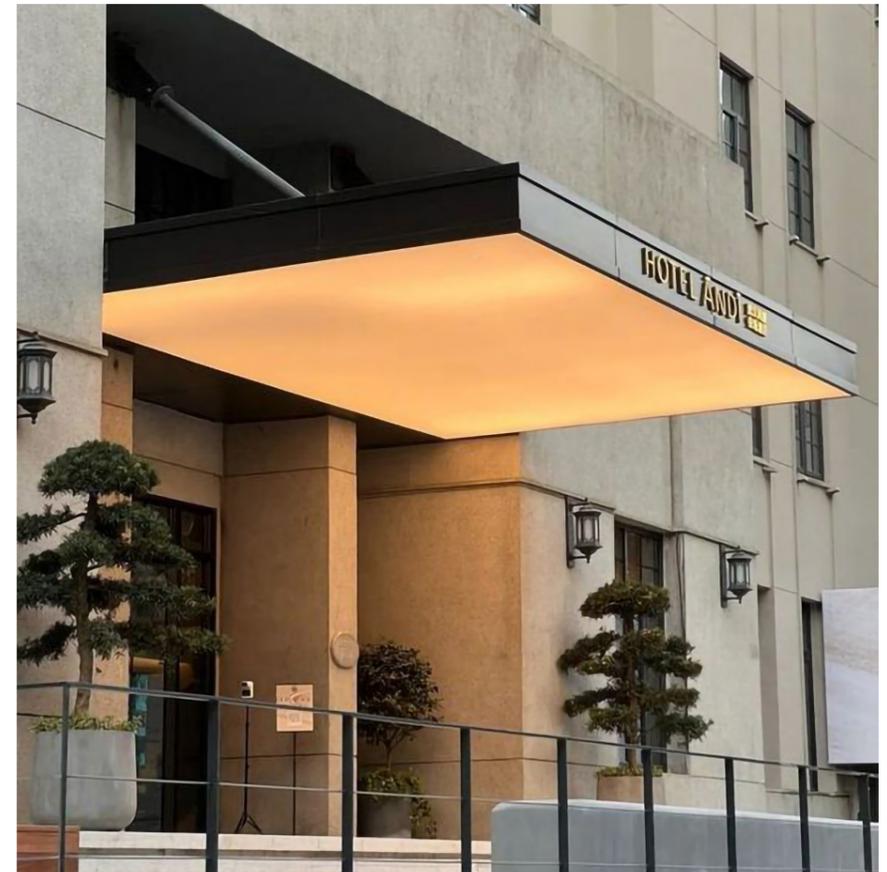
# Saville Theatre

Look & Feel - Illumination to Facade Detailing & Frieze



# Saville Theatre

Look & Feel - Illuminated Canopies



# Saville Theatre

## Lighting Principles and Design Approach - Historic Facade

The Saville Theatre historic facade detailing will be illuminated by a combination of surface mounted projectors on outreach arms and linear LED luminaires. Illumination to the main entrance canopy and signage lighting is also proposed.

### Facade Detailing

- 1) Surface mounted projectors will be located at high level on the Shaftsbury Ave. facade and will be aimed at facade detailing.
- 2) Linear LED luminaires will be used to illuminate the wall relief band at lower level which extends across the Shaftsbury Ave. facade and the return corners of Stacey St and St. Giles Passage.
- 3) A perimeter of Linear LED will be introduced to the large window detail above the main entrance, spreading light across surrounding facade surfaces.
- 4) Linear LED uplights will be mounted on top of the entrance canopy to illuminate the large window detailing.

Both facade projector types will include adjustable mounting brackets, glare control accessories and optics designed to limit lightspill to surrounding areas.

### Entrance Area

- 5) The Main entrance will include ceiling recessed downlights for ambient illumination
- 6) Illuminated signage lettering will be present on top of the entrance canopy, and at higher level on the Shaftsbury Av. facade.

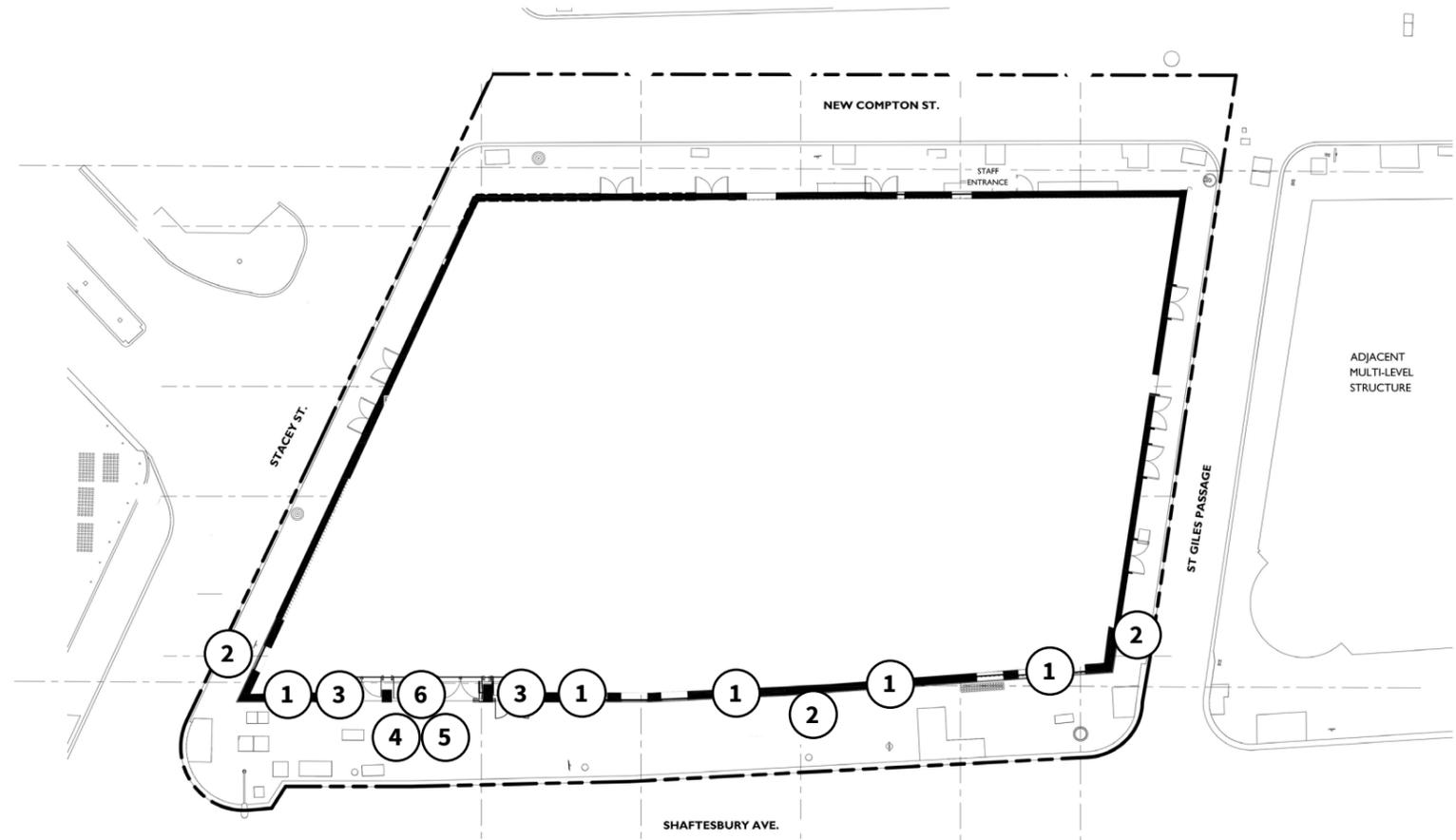
### Technical

Colour Temperature: 3000K (warm white)

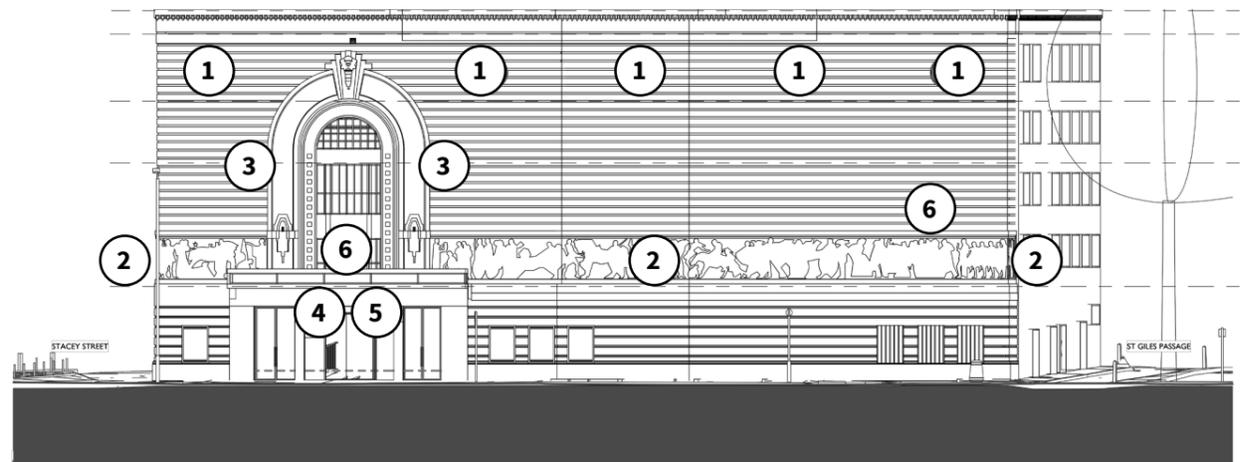
Lighting Control: DALI dimmable

Operation: All lighting is to be included within set scenes saved to the lighting control system. Scenes are to be triggered by a combination of photocell and timeclock to switch on or off at set periods of the day/evening - timings are to be confirmed. A manual override is to be included so the end user may trigger or switch scenes via a lighting control wallplate.

Lighting is to be commissioned by SF and the lighting controls supplier to adjust levels of illumination as required.



Above: Ground Floor site plan showing proposed facade lighting locations (Historic Facade)  
Below: Shaftsbury Avenue Key Elevation



# Saville Theatre

## Lighting Principles and Design Approach - Extension Facade

The Saville Theatre extension facade detailing will be illuminated by small, concealed, surface mounted linear LED luminaires. Luminaires will illuminate the perimeter soffit on level 5 and facade detailing on the New Compton St. facade.

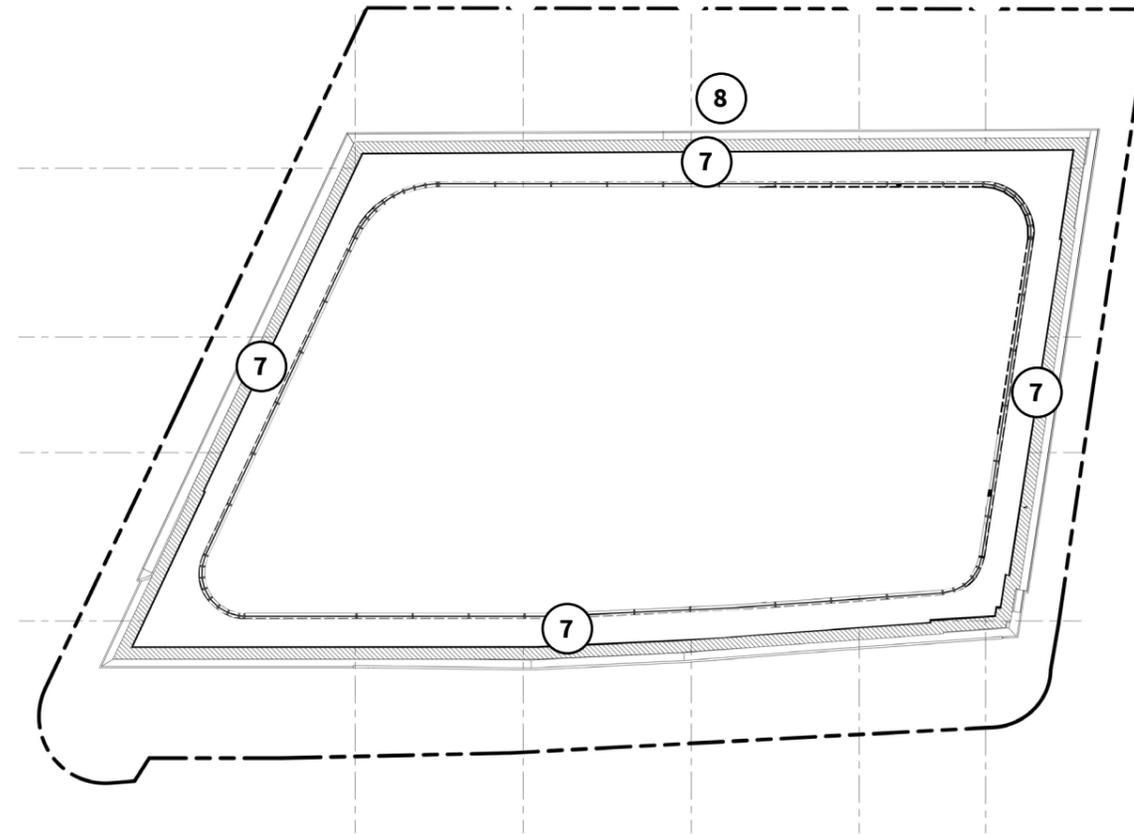
### Perimeter Soffit Illumination

7) Small profile linear LED luminaires will be concealed within architectural detailing to the perimeter of the building, these luminaires will provide upwards illumination to the soffit surface between historic and new facades.

### Facade Detailing

8) Small profile linear LED luminaires will be concealed within architectural cladding details to New Compton St. facade.

Both facade luminaire types will include adjustable mounting brackets, glare control accessories and optics designed to limit lightspill to surrounding areas.



Above: Level 5 site plan showing proposed facade lighting locations (New Facade)  
Below: New Compton St. Key Elevation

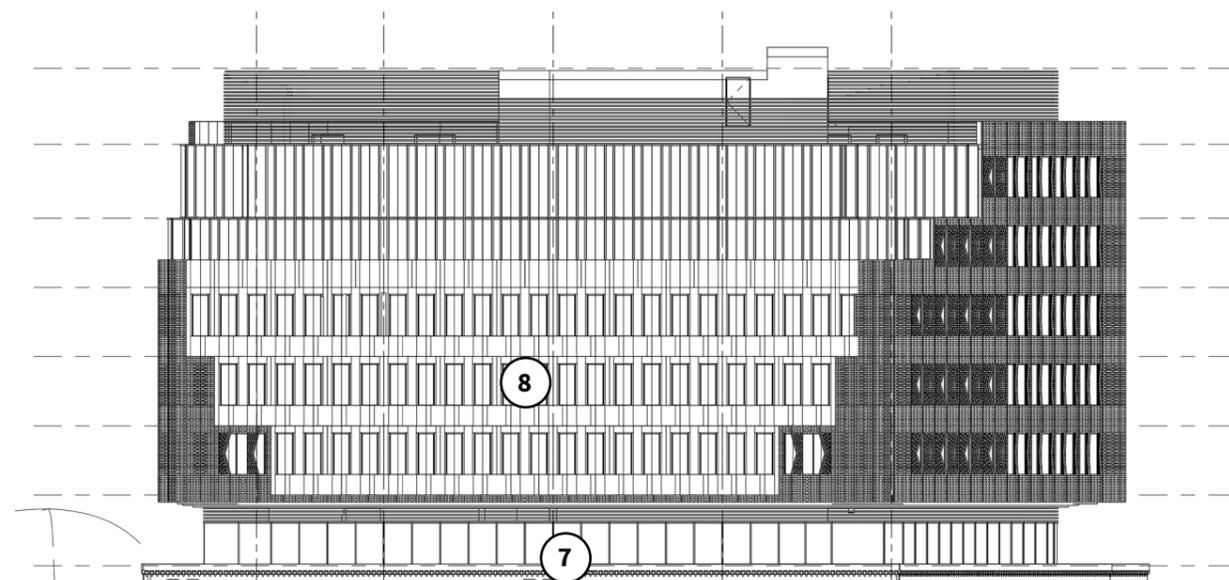
### Technical

Colour Temperature: 3000K (warm white)

Lighting Control: DALI dimmable

Operation: All lighting is to be included within set scenes saved to the lighting control system. Scenes are to be triggered by a combination of photocell and timeclock to switch on or off at set periods of the day/evening - timings are to be confirmed. A manual override is to be included so the end user may trigger or switch scenes via a lighting control wallplate.

Lighting is to be commissioned by SF and the lighting controls supplier to adjust levels of illumination as required.



# Saville Theatre

Proposed Facade Lighting, Shaftsbury Avenue Perspective View



# Saville Theatre

Proposed Facade Lighting, New Compton St. Perspective View

