

Light4®

CUNDALL

# PRINTWORKS

## LIGHTING CONCEPT

Andrew Bissell | [a.bissell@cundall.com](mailto:a.bissell@cundall.com) | +44 7899 907 978

Mark Tweedale | [m.tweedale@cundall.com](mailto:m.tweedale@cundall.com) | +44 7786 431 864

# INTRODUCTION

The report details the proposed external lighting designs for the Printworks refurbishment project Manchester. Products indicated in this report are not the final specified luminaires but give an indication as to the types of products we will be using.

## CONTENTS:

|   |                             |
|---|-----------------------------|
| 1 | External façade             |
| 2 | Feature wall luminaire      |
| 3 | Corporation street entrance |
| 4 | Dantzic street entrance     |
| 5 | Lighting control            |

# DOCUMENT CONTROL

| Project Lighting Designers |                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------|
| Andrew Bissell             | <a href="mailto:a.bissell@cundall.com">a.bissell@cundall.com</a><br>+44 161 200 1235<br>+44 7899 907 978   |
| Mark Tweedale              | <a href="mailto:m.tweedale@cundall.com">m.tweedale@cundall.com</a><br>+44 161 200 1249<br>+44 7786 431 864 |

|              |                                |            |
|--------------|--------------------------------|------------|
| Project Name | Printworks                     | Job Number |
| Report Name  | External Lighting for Planning | 1021622    |

## Document Revision History

| Revision | Issue Date | Purpose of issue / description of revision |
|----------|------------|--------------------------------------------|
| -        | 05/06/2019 | For Discussion                             |
| A        | 07/06/2019 | For Discussion                             |
| B        | 12/06/2019 | Stage 2 Concept Issue                      |
| C        | 18/09/2019 | For Discussion                             |
| D        | 27/09/2019 | For Planning                               |
| E        | 01/10/2019 | For Planning                               |
|          |            |                                            |

## Document Validation (latest issue)

| Revision | Issue Date | Purpose of issue / description of revision / version |             |            |             |
|----------|------------|------------------------------------------------------|-------------|------------|-------------|
|          |            | For Planning                                         |             |            |             |
|          |            |                                                      | Prepared by | Checked by | Verified by |
|          |            | Initials                                             | MT          | HM         | LS          |
|          |            | Signature                                            |             |            |             |

# 1.0 EXTERNAL FACADE

## THE EXISTING BUILDING

This report looks in more detail at the lighting proposals for the external façade making recommendations for the lighting techniques to a building of such importance. The report also provides lighting design proposals for the internal spaces including lighting control strategy to enable costing. The below image was taken during our site visit on the 5<sup>th</sup> July 2019.



# 1.1 EXTERNAL FACADE

## LIGHTING APPROACH - INSPIRATION

The architectural lighting to the Printworks external façade will be based on the following principals:

1 – Iconic decorative wall luminaires that are unique and instantly recognisable to the Printworks. These will provide soft warm lighting to the street level and communicate directly with the general public

2 – Vertical linear wall wash to architectural in fills to draw your eye up.

3 – Horizontal cornice wash to upper storey level.

4 – High level window surrounds highlighting and framing the high level windows.

5 – Specific decorative architectural elements ie decorative stone work details

The image presented shows a number of the lighting techniques we are looking to apply to the façade of the Printworks.

We will be taking guidance from the Guidance notes for the Reduction of obtrusive light by the ILP and CIBSE Lighting Guide 6 : The exterior environment.

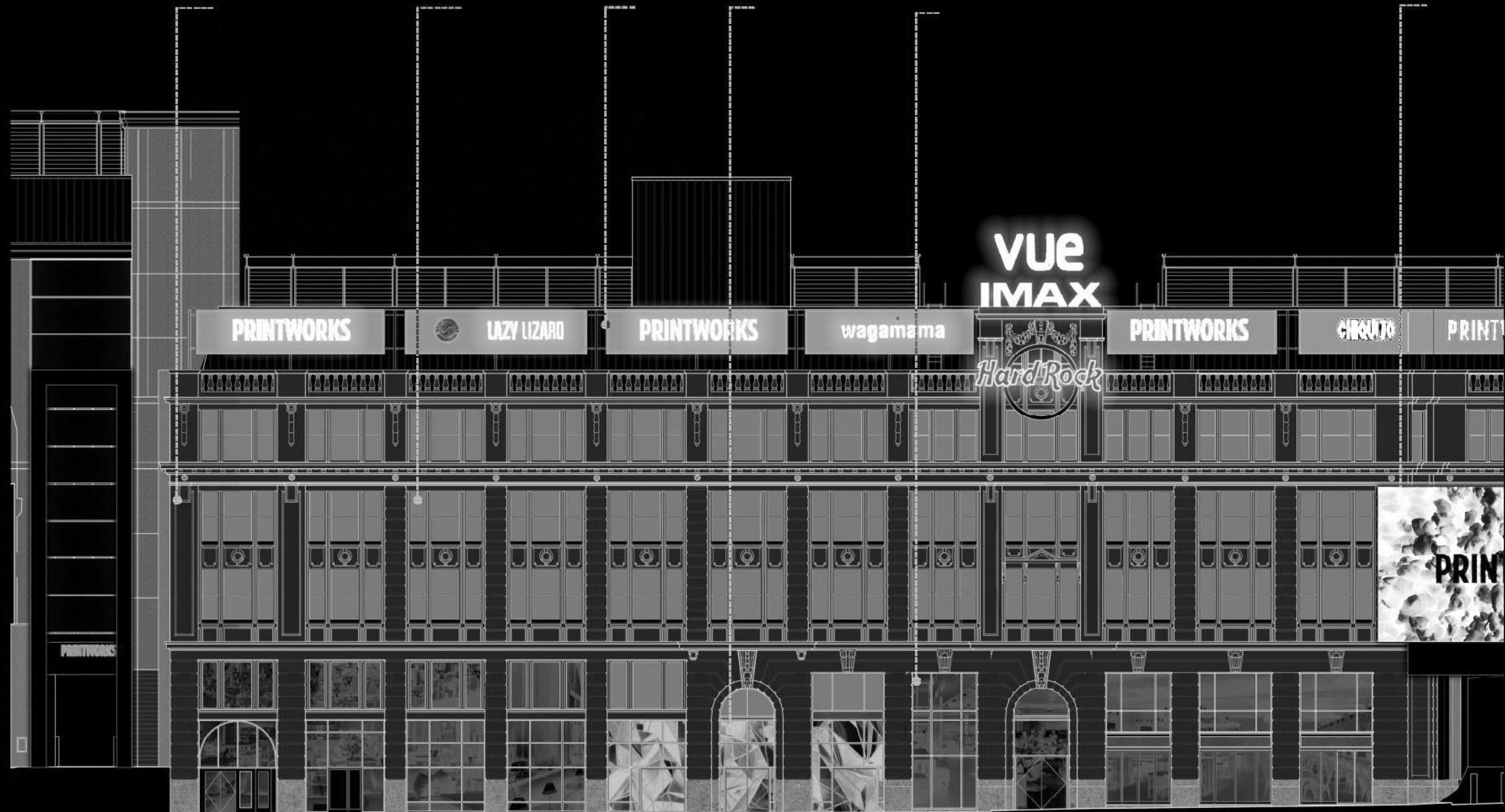
We would expect for a building of this significance to require conversations with the planners during the next phase to determine the parameters that are acceptable for the façade lighting.



# 1.2 EXTERNAL FACADE

## PROPOSAL – BASE POINT

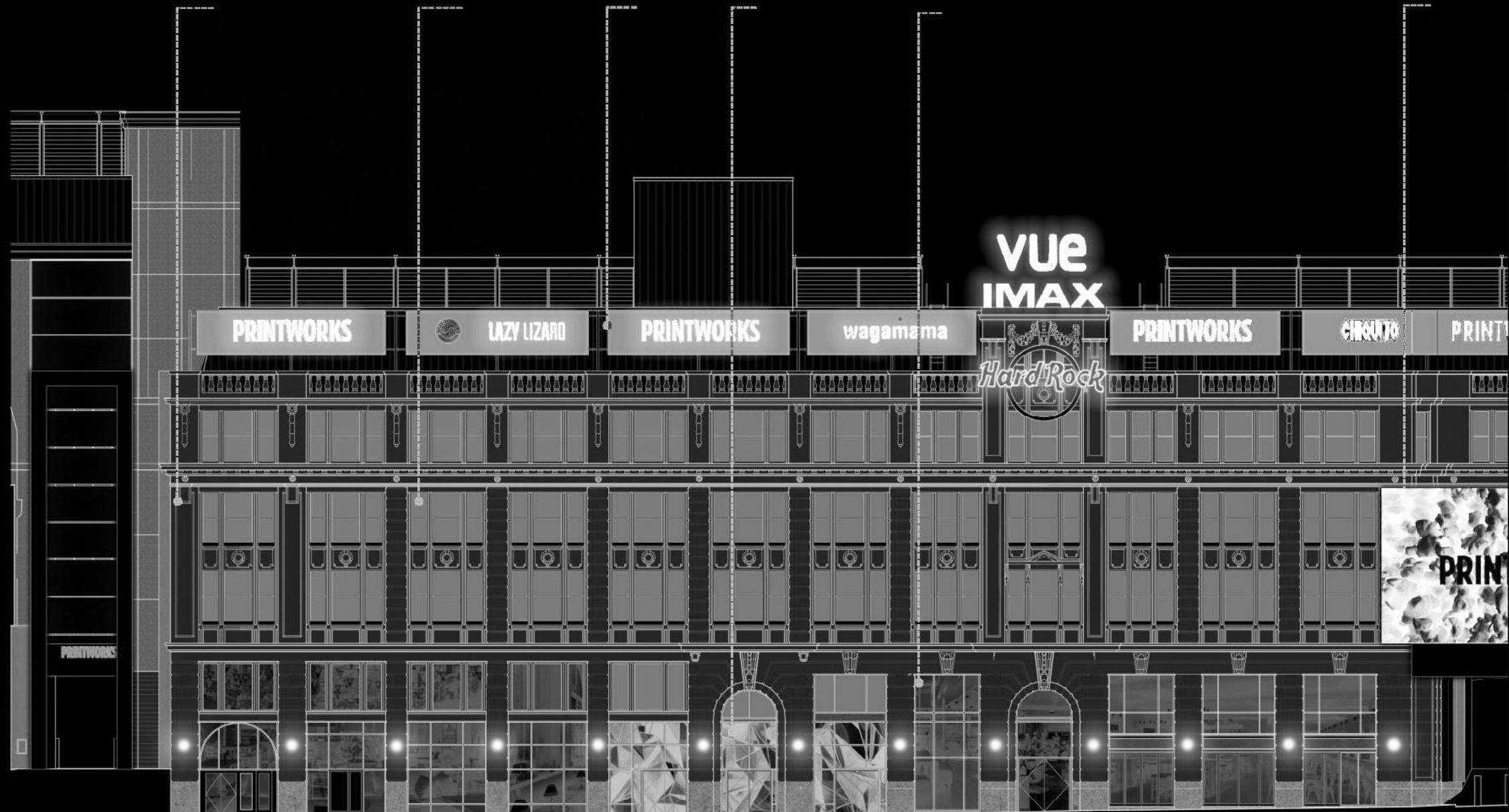
The image below represent the building with no additional lighting other than the illuminated screens and signage.



# 1.2 EXTERNAL FACADE

## PROPOSAL – LAYER ONE

Iconic feature wall luminaires that will become a consistent theme both internally and externally through the development.



# 1.2 EXTERNAL FACADE

## PROPOSAL – LAYER TWO

Hidden pinpoint surface mounted luminaire positioned on the overhang will minimise visible cabling whilst maintaining the key architectural intent of vertical points of illumination



# 1.2 EXTERNAL FACADE

## PROPOSAL – LAYER THREE

A discrete wash of light along the ledge will ensure that the infill section of windows are softly lit and that the upper cornice is consistently lit.



# 1.2 EXTERNAL FACADE

## PROPOSAL – LAYER FOUR

Framing the windows on the upper tier helps to create a clean break of light before the illuminated signage this helps to distinguish each of the tiers as unique sections.



# 1.2 EXTERNAL FACADE

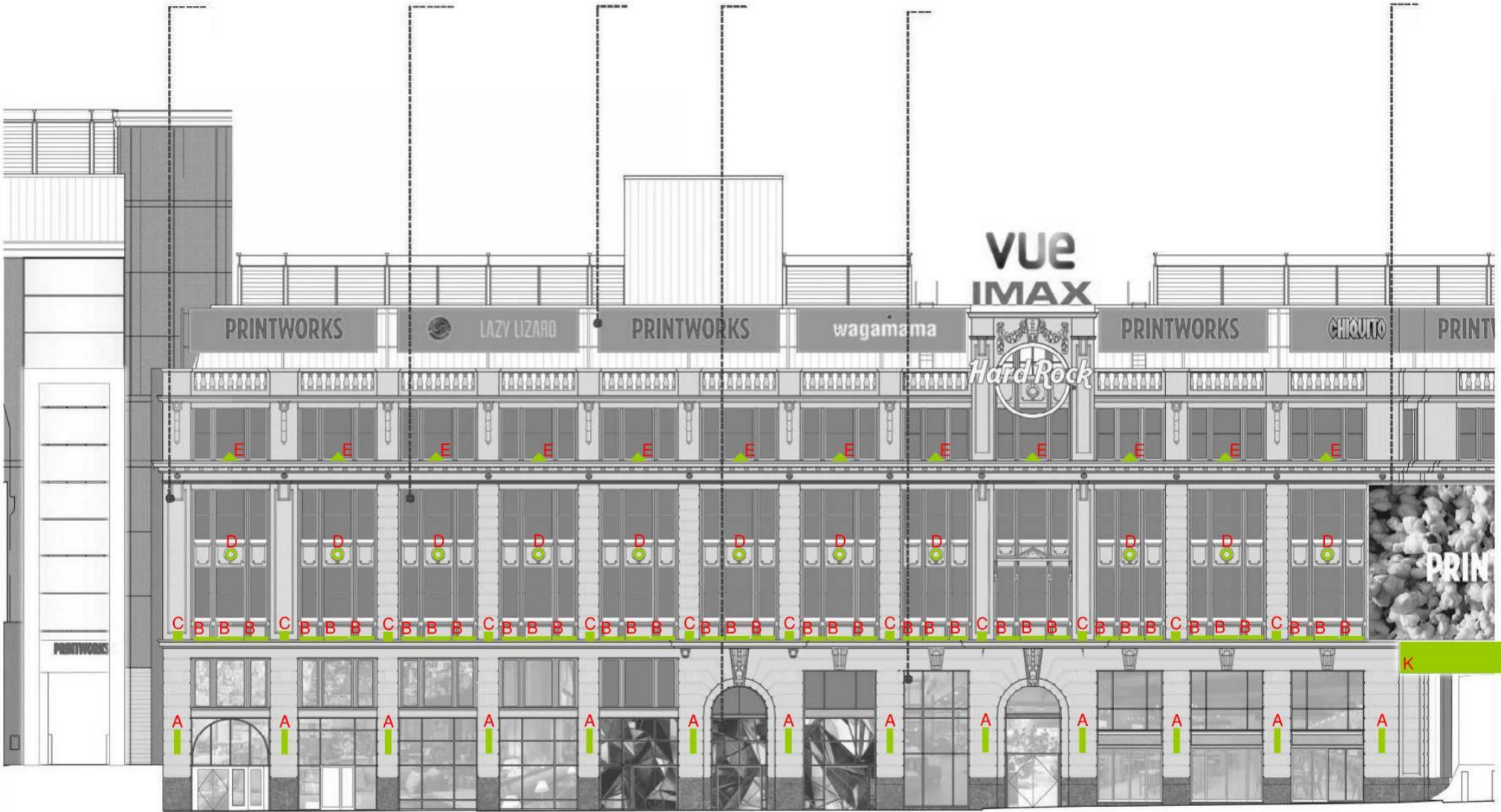
## PROPOSAL – LAYER FIVE

One of the nicest and most consistent elements of the façade is the decorative roset, the proposal is to modernise this by adding a bold ring of illumination set into the moulding.



# 1.3 SAMPLE FACADE

## PROPOSED LUMINAIRE LOCATION



10121622

A2

DO NOT SCALE FROM THIS DRAWING

|       |            |                 |    |      |       |
|-------|------------|-----------------|----|------|-------|
| P1    | 2019/10/01 | FOR PLANNING    | MT | HM   | LS    |
| -     | 2019/06/10 | FOR INFORMATION | MT | x    | x     |
| Issue | Date       | Description     | By | Chkd | Verfd |

Project  
PRINTWORKS MANCHESTER

Client  
DTZ INVESTORS  
Architect  
COMPREHENSIVE DESIGN ARCHITECTS

Title  
TYPICAL FACADE  
LIGHTING DESIGN LAYOUT

|              |         |                 |       |
|--------------|---------|-----------------|-------|
| Drawing No.  |         | Drawing Status  |       |
| BSXX(63)8001 |         | FOR INFORMATION |       |
| Job No.      |         | Scale           |       |
| 10121622     |         | NTS             |       |
| Originator   | Checker | Verified        | Issue |
| MT           | HM      | LS              | P1    |

CUNDALL

10th Floor, Manchester One, Portland Street,  
Manchester  
M1 3AH  
Telephone: +44 (0)161 244 5660

Website: [www.cundall.com](http://www.cundall.com)

# 1.4 SIGNAGE & LIGHT BOX LOCATION

## PROPOSED LUMINAIRE LOCATION

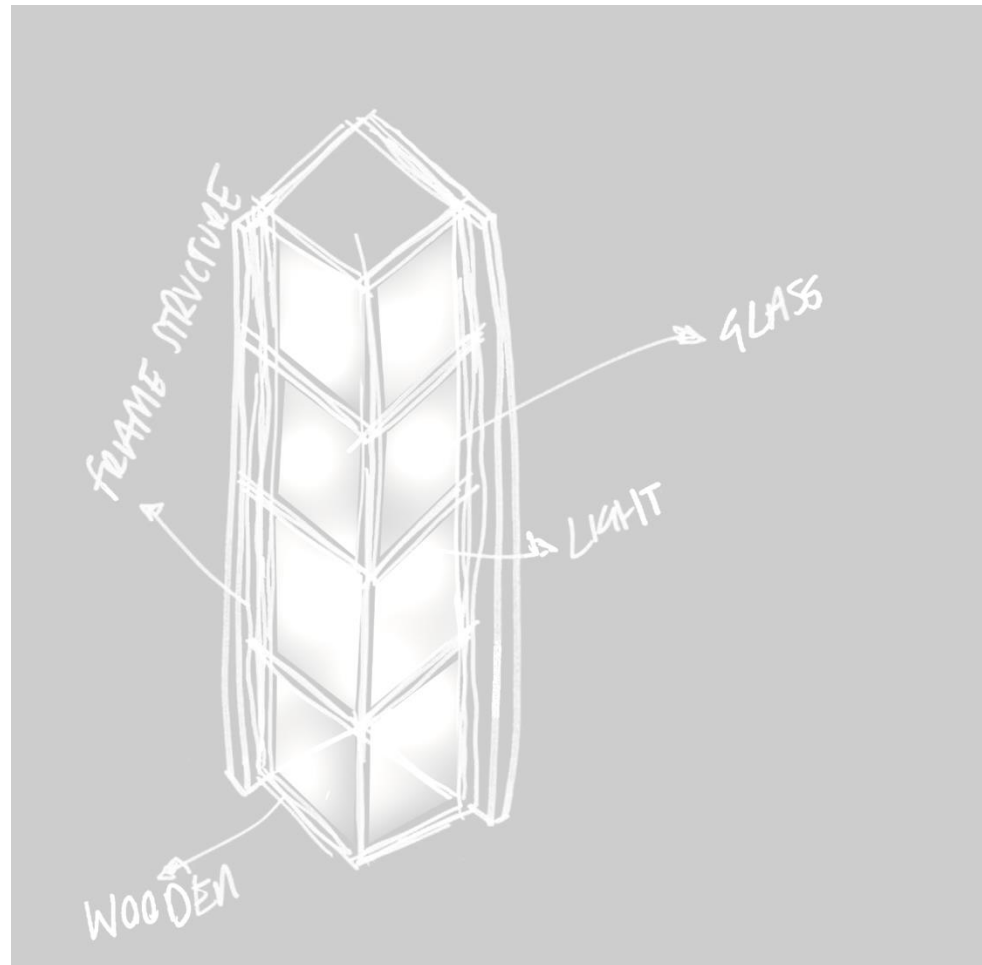
New Illuminated signage

Proposed new lightbox / signage location.



# 1.4 RECOMMENDED LUMINAIRES

## PROPOSED LUMINAIRES



### TYPE A - TBA

- Bespoke wall luminaire to be developed during the detail design stage



### TYPE B – LINEA LIGHT GROUP – 22W Xenia\_W RGBW

- Specific RAL finish – length as per architects drawing



### TYPE C – LINEA LIGHT GROUP – 18W Periskop RGBW

- Specific RAL finish – length as per architects drawing

# 1.5 RECOMMENDED LUMIANIRES

## PROPOSED LUMINAIRES



**TYPE D - MCROBB – SIGNS & GRAPHICS LED NEON**

- Bespoke LED neon luminaire



**TYPE E – LINEA LIGHT GROUP – 4W Arcadia X RGBW**

- Specific RAL finish – length as per architects drawing



**TYPE K – COOLEDGE – TILE EXTERIOR**

- Modular LED sheet for backlighting light boxes

# 2.0 FEATURE WALL LUMINAIRES

## LIGHTING APPROACH - APPLICATION

The feature wall lighting will provide soft illumination to both the external elevation and internally. The application of the luminaires is relevant to the lower section of the building façade – bringing about a more human-scale experience.

The existing columns and vertical forms lend themselves to the positioning of the wall luminaires. The prominent indentations that track around the outside of the stone façade present a clear architectural element of which the luminaires can work alongside/ integrate into.



## 2.1 FEATURE WALL LUMINAIRES

### LIGHTING APPROACH - INSPIRATION

The key inspiration for the design and development of the feature wall lighting is that of the Printworks building itself . It began as the Withy Grove Printing House in 1873 and ran successfully as a newspaper printers for over 100 years .

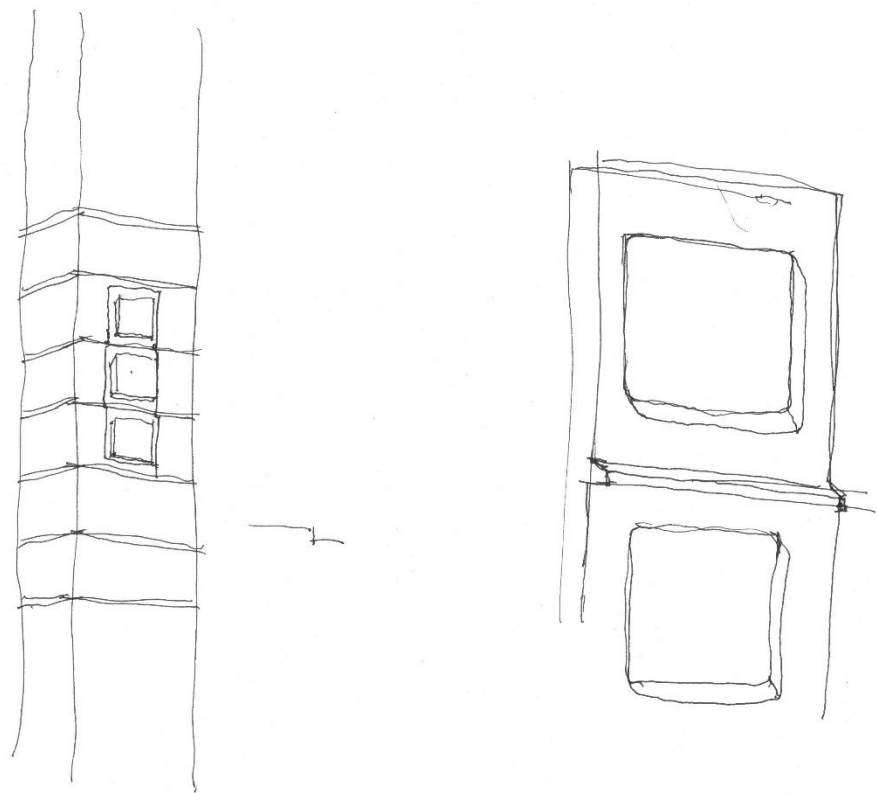
In the early days of typography, letters were printed using BLOCKS of wood or metal. The blocks were known as the movable type; since they could be moved around and joined to create words, lines and paragraphs. This process of printing is called letterpress printing ; and one of the advantages of this process was that the blocks could be mass produced and reused over and over again.



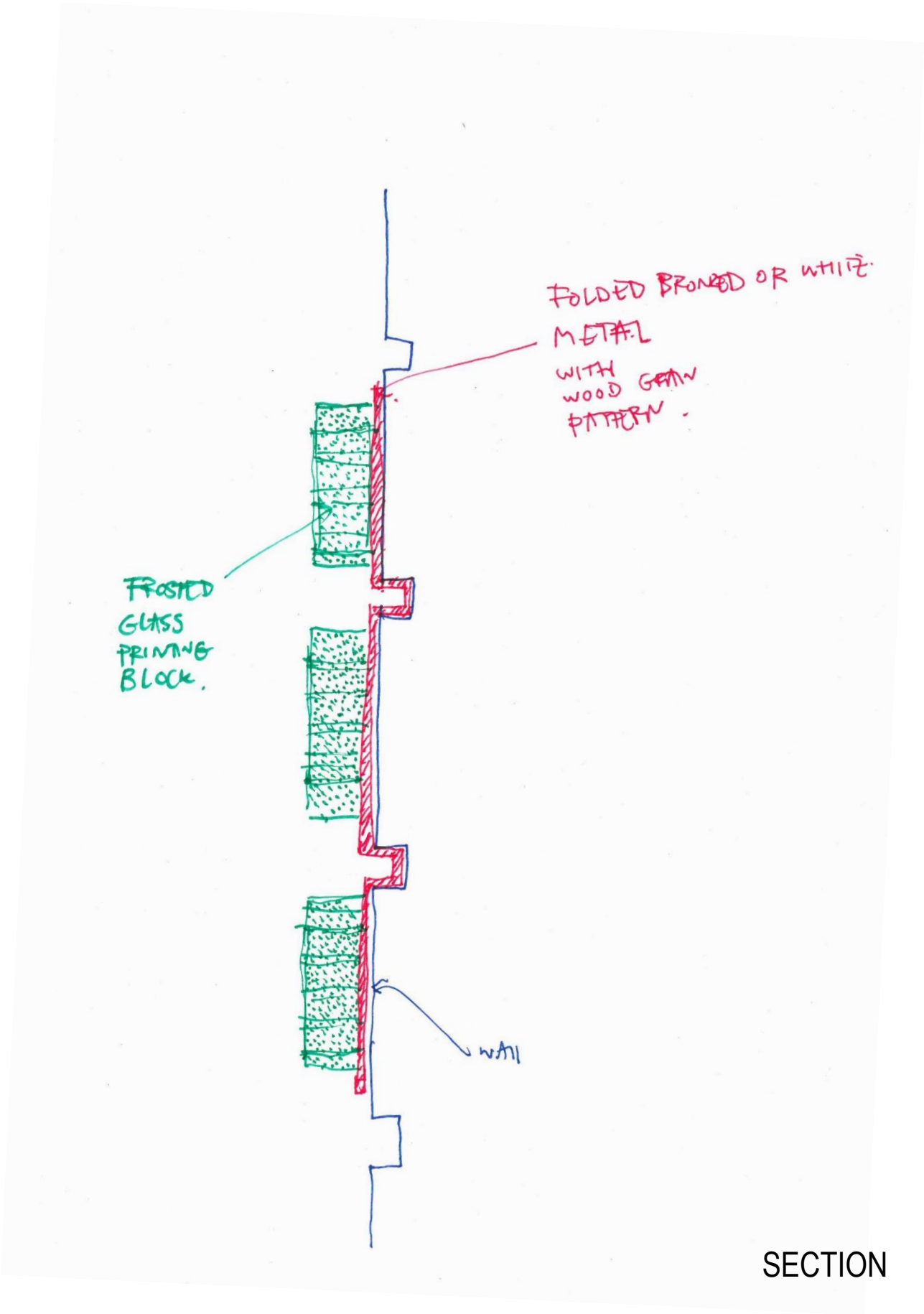
# 2.2 FEATURE WALL LUMINAIRES

## LIGHTING APPROACH – SKETCH IDEAS

The idea for the luminaire is to create the vision of one unified wall light but with 3 almost separate glass components. This lighter touch will during the daytime blend into the background but at night ,provide an iconic feature detail. The light will be soft and diffuse and so will contrast with the rest of the façade tier 1 and tier 2 above. A painted metal back plate moulded into the aperture of the column will give the impression that the luminaires have always been there and are integral to the building. The metal back plate will have an oversized but subtle wood grain imprint to connect the luminaire back to the buildings heritage. They will represent and envision a consistent feature that grounds the lower section of the façade



ISO



SECTION

# 2.3 FEATURE WALL LUMINAIRES

## RENDER

The following image shows the intention of the wall light and how the combination of feature and lighting effect will complement the building's façade.



# 3.0 CORPORATION STREET ENTRANCE

## INTEGRATED

The proposed additional lighting concepts for the corporation street entrance are detailed below:

1: - Integrated linear LED to decorative solid metal panel – Asymmetric wash that provides lighting to the pedestrian ramp

2: - Remove 2.no totems and increase the size of the remaining one to match the architectural line of the existing building façade.

3: - The introduction of projected light onto the floor from building mounted gobos.

4: - Backlit perforated mesh will provide a soft glow of light to the elevation. The lighting will be animated to match the effect proposed for the Dantzig street elevation. The light will change colour and illuminate in a sequence that will draw you up to the main entrance.

5: - Back lit entrance portal and lit signage graphics

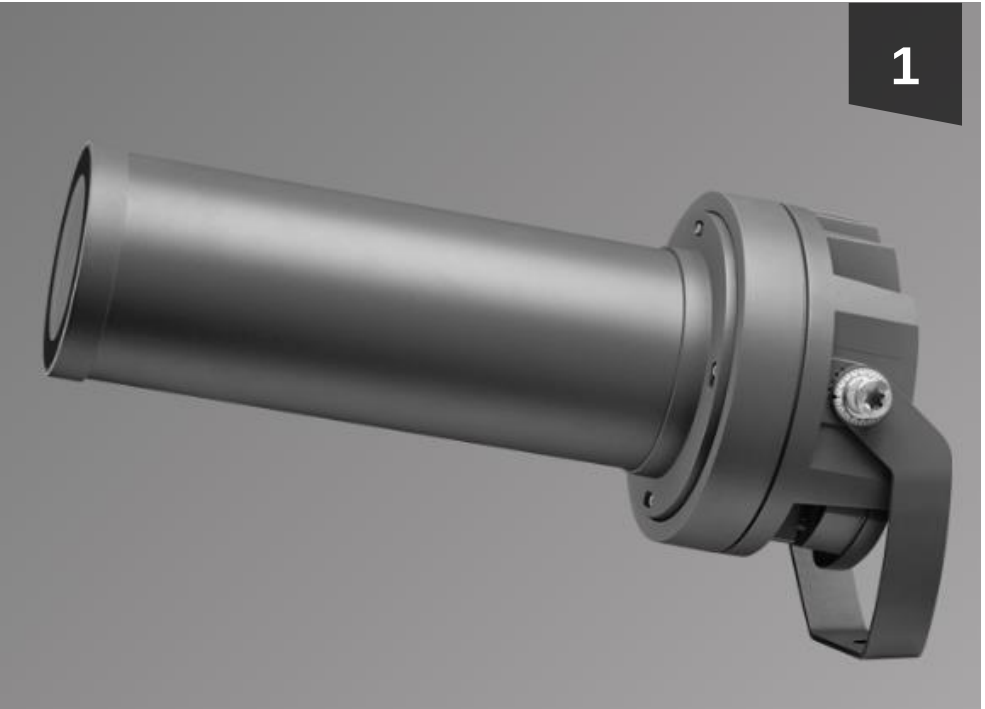
6: - Illuminated signage graphics



# 3.1 CORPORATION STREET ENTRANCE

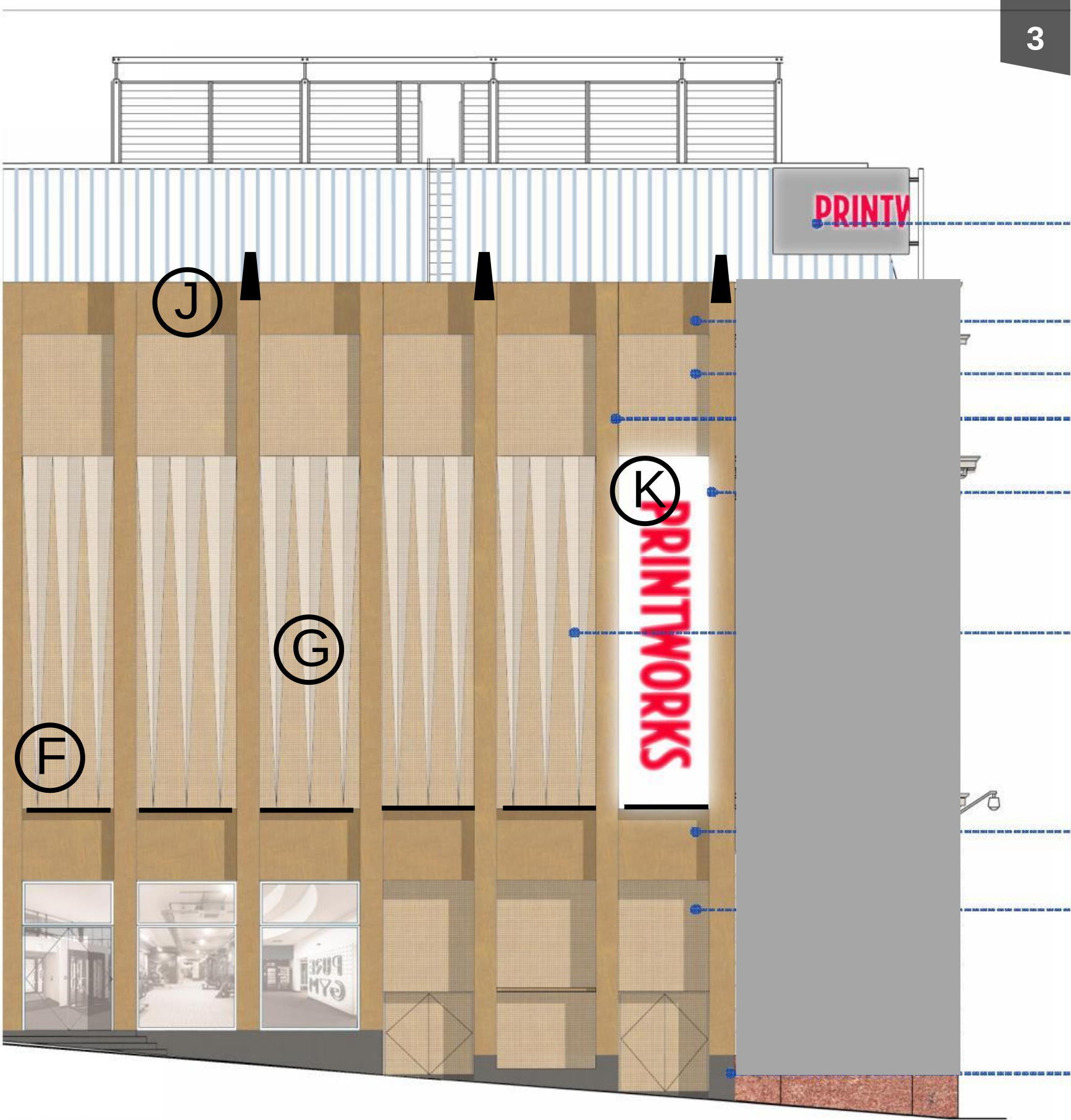
## LIGHTING LOCATION – DETAIL

The hidden linear luminaire will be positioned as indicated below built into the feature metal panel the luminaire will provide general light to the Corporation Street entrance. In addition to the functional lighting there will be feature projection lighting in the form of building mounted gobos. This will provide patterned light to the floor leading up to the Corporation Street entrance.



## IMAGES

1. Recommended product Type J - WE-EF FLC200 | 2.Recommended product Type F– Linea light group XENIA\_A PRO – Asymmetric | 3. Luminaire F will be tucked just under the metal overhang as indicated in the image. |



# 3.2 CORPORATION STREET ENTRANCE

## LIGHTING INSPIRATION DETAIL 2

The totem scale and positions need to be such that they do not obstruct the entrance. They would serve as markers to highlight the destination. The detail for the totem will be developed during the detailed design stage.

In addition to the cost for the illuminated totem an allowance will be made for 3no WE-EF FLC200-CC LED gobo projectors ~£1,950 plus VAT includes cost for gobo patens.



## IMAGES

1. Recommended product WE-EF FLC200 on custom bracket as see on existing installation – Hear East London | 2. Example light totem, final design to be developed during the next stage. |



## 3.3 CORPORATION STREET ENTRANCE

### LIGHTING INSPIRATION DETAIL 3

The patterned light will provide both functional light to the transition areas as well as enhancing the visitors experience.



# 4.0 DANTZIC STREET ENTRANCE

## WAVE EFFECT – WIP ANIMATION

The lighting proposal to the perforated metal will consist of two elements. The first will be a soft wave animation effect that will slowly wash across the front elevation. The second will be a subtle shift of colour from within. The lighting will be animated from either side drawing you into the entrance.

Please click the link below to download the animation:

[DantzicStreetAnimationGIF](#)

Wall mounted light boxes will sit on the existing feature lighting pedestals.

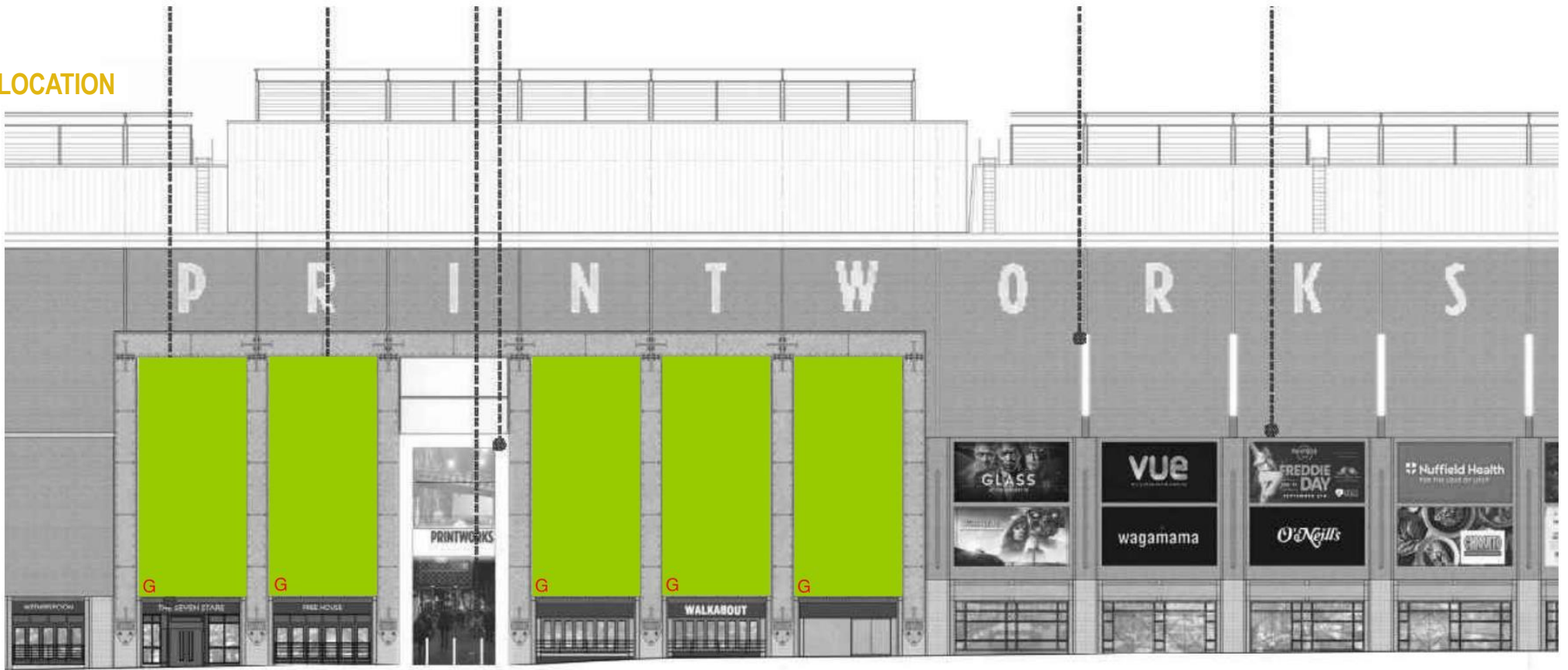
Wall mounted light box for Printworks branding graphics.

Lit entrance portal and signage which again will be back lit.



# 4.1 DANTZIC STREET ENTRANCE

PROPOSAL LUMINAIRE LOCATION



LUMINAIRE LAYER ONE



LUMINAIRE LAYER TWO

10121622

A2

DO NOT SCALE FROM THIS DRAWING

|       |            |                 |    |      |       |
|-------|------------|-----------------|----|------|-------|
| P1    | 2019/10/01 | FOR INFORMATION | MT | HM   | LS    |
| -     | 2019/06/10 | FOR INFORMATION | MT | x    | x     |
| Issue | Date       | Description     | By | Chkd | Verfd |

|           |                                 |
|-----------|---------------------------------|
| Project   | PRINTWORKS MANCHESTER           |
| Client    | DTZ INVESTORS                   |
| Architect | COMPREHENSIVE DESIGN ARCHITECTS |

|       |                                              |
|-------|----------------------------------------------|
| Title | DANTZIC STREET FACADE LIGHTING DESIGN LAYOUT |
|-------|----------------------------------------------|

|             |              |                |              |
|-------------|--------------|----------------|--------------|
| Drawing No. | BSXX(63)8002 | Drawing Status | FOR PLANNING |
| Job No.     | 10121622     | Scale          | NTS          |
| Originator  | MT           | Checker        | HM           |
| Verified    | LS           | Issue          | P1           |

CUNDALL

10th Floor, Manchester One, Portland Street,  
Manchester  
M1 3AH  
Telephone: +44 (0)161 244 5660

Website: [www.cundall.com](http://www.cundall.com)

# 4.1 RECOMMENDED LUMINAIRES

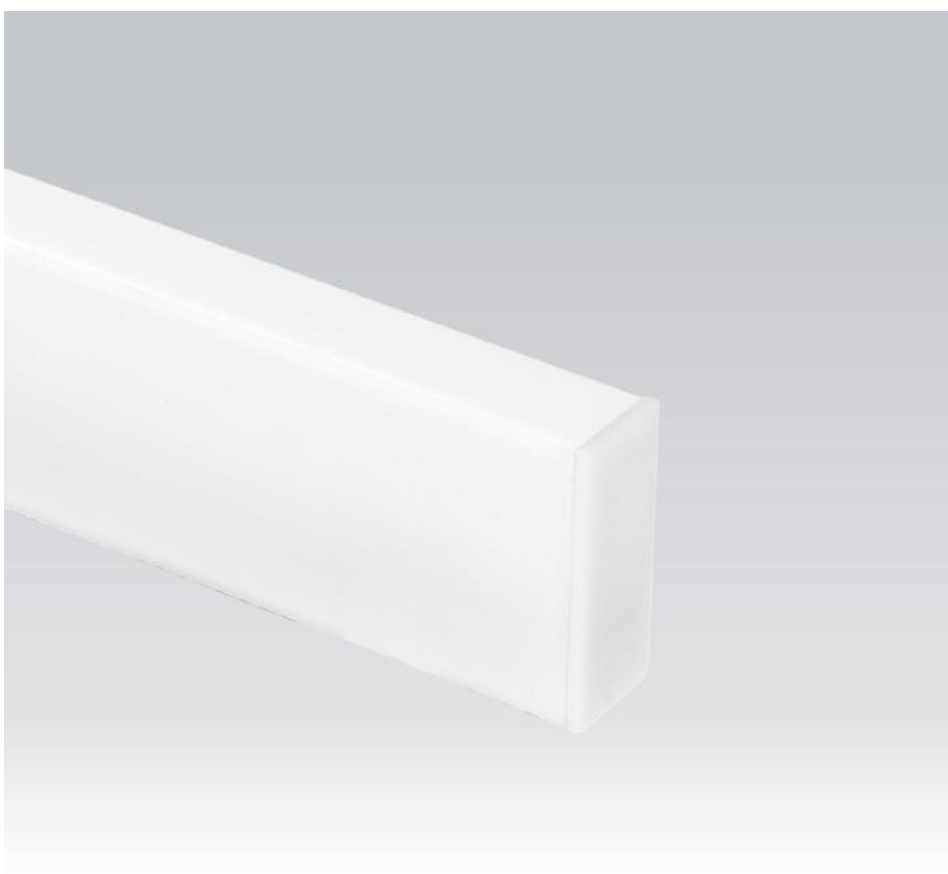
## PROPOSED LUMINAIRES

A show controller will need to be provided to enable the animation see section on lighting control later in this report. These luminaires will be hidden behind the perforated mesh and therefore only the lighting effect will be seen. Both luminaires are colour changing.



### TYPE G - KKDC – 9.7W/M QUADRO LUNA RGB

- In horizontal lines 100mm centers to cover the space as indicated



### TYPE H – LINEA LIGHT GROUP – 22W Xenia\_W RGBW

- Specific RAL finish for housing – length as per architects drawing

# 5.0 LIGHTNG CONTROL

## CONTROL SCHEMATIC

The proposal for the control of the lighting both internally and externally is for it to be linked to Media server via a Martin P3 system controller or similar approved. The system controller takes the input data from the media screens and turns the assigned luminaire the same RGBW colour. In this mode whatever content is running on the media screen and colour changing luminaires will automatically tune to suit.

To enable this to work the lighting system will need to be controlled by a DMX- Art-Net controller ie Pharos LPC or similar approved

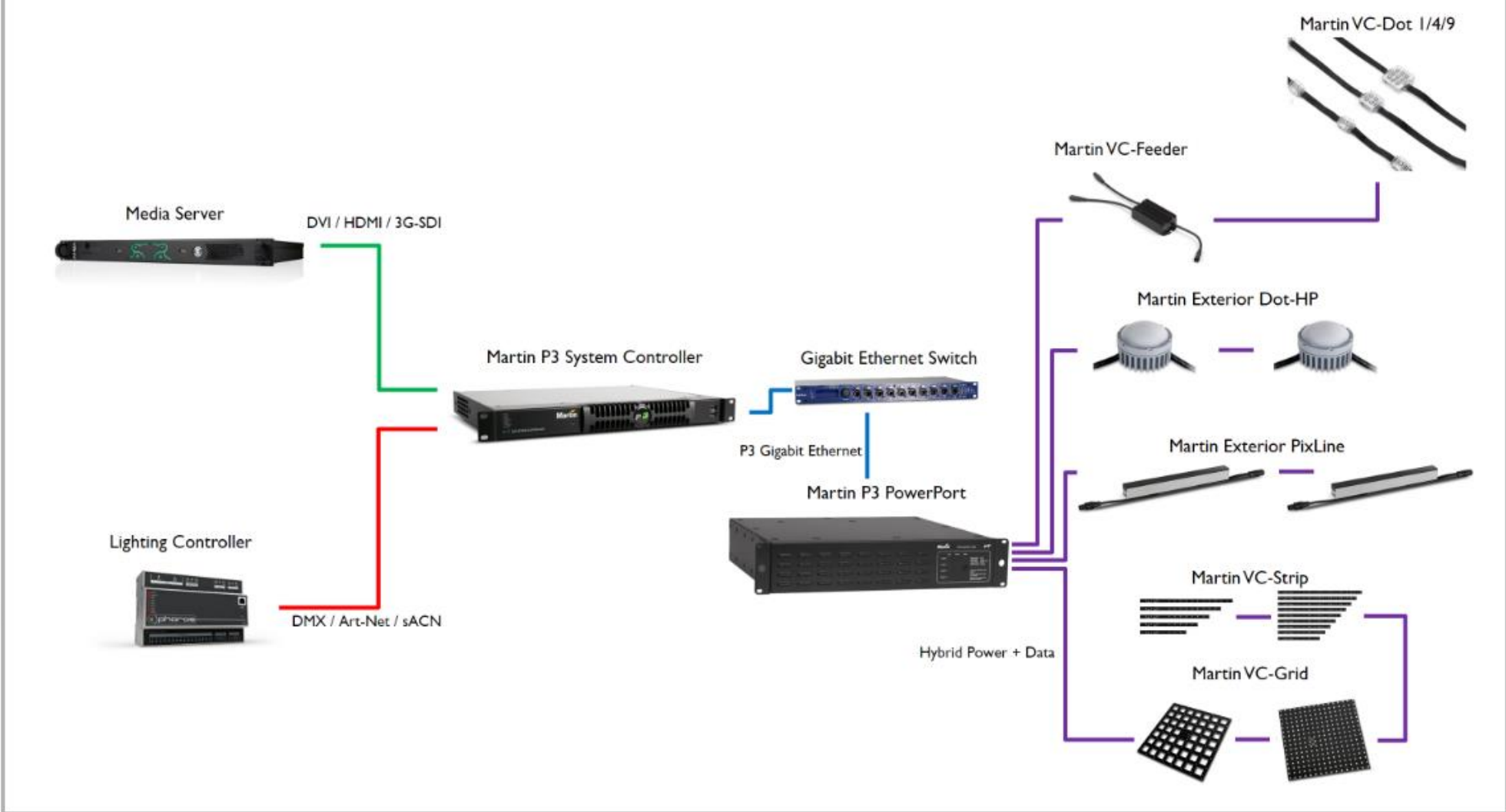
A martin P3 System Controller and Ethernets switches will also be required to complete the system.

The lighting control will be completely customisable and can be programmed to do more or less at any particular time.



2

## P3 in Architectural Applications



3



1

## IMAGES

1. Recommended product PHAROS – LPC | 3. MARTIN – P3-050 Controller. | 3. System schematic. |

## P3 PRODUCTS

# Light4<sup>®</sup>

# CUNDALL

Andrew Bissell  
(Global Head of Light4)

a.bissell@cundall.com  
M +44 7899 907 978

Mark Tweedale  
(UK)

m.tweedale@cundall.com  
M +44 7786 431 864

Oscar Lee  
(Asia)

o.lee@cundall.com  
M +852 9686 7276

Bettina Easton  
(Australia)

b.easton@cundall.com  
M +61 412 141 288

