

### **JCDecaux**

### Western Distributor, Pyrmont Vertical garden digital advertising screen



### **Methodology of Construction Works**

| Revision | Originator | Approved | Date       | Comments          |
|----------|------------|----------|------------|-------------------|
| 0        | Dean Johns |          | 24/07/2023 | Issued for Review |
|          |            |          |            |                   |



85 Heales Rd Corio, VIC 3214 F: 03 5278 6655 Po Box 405, North Geelong Victoria 3215 w.hanlonindustries.com.au E: admin@hanlonindustries.com.au ABN: 86 847 145 947

Geelong (Head Office)

Botany, NSW 2019 F: 02 9695 7437

Template Issued 07/06/2017

Doc No HQMS 7.2.3.22

CM<sup>3</sup>



#### TABLE OF CONTENTS

| 1 | IN  | ITRODUCTION                            | 3 |
|---|-----|--|---|
|   | 1.1 | Location                               | 3 |
|   | 1.2 | Sign Design Overview                   | 3 |
| 2 | SI  | ITE WORK METHODOLOGY                   | 4 |
|   | 2.1 | Site Investigation Works               | 4 |
|   | 2.2 | Site Preparation                       |   |
|   | 2.3 | Site Protection Measures               | 5 |
|   | 2.4 | Site Works                             | 7 |
|   | 2.4 | 4.1 Civil works drilling of four piles | 7 |
|   | 2.4 | 4.2 Install structural steel.          | 7 |
|   |     | 4.3 Install digital box                | 8 |
|   | 2.5 | Site clean up                          | 8 |
|   | 2.6 | Final sign off                         | 9 |
| 3 |     | AJOR PLANT AND EQUIPMENT               |   |
|   | 3.1 | List of Equipment used on site         | 9 |



#### 1 INTRODUCTION

JCDecaux is in the planning approval process to construct and install a vertical garden with digital advertising within the light rail network adjacent the Western Distributor in Pyrmont. Hanlon Industries will undertake the construction of the sign as well and manage the material supply, installation and commissioning works once the final approval is obtained.

#### 1.1 Location



Arial View of Proposed Sign Location

#### 1.2 Sign Design Overview

The development comprises the following works:

- Installation of a non-climbable concrete plinth with a diameter of 2.800m (situated approximately 7.645m from the light rail track);
- Installation of a digital advertising structure above the concrete plinth comprising the following features:
- 1. Screen dimension of 12.48m x 3.2m, attached to a monopole with climbing plants and façade landscaping;
- 2. JCDecaux logo of dimension 1.45m x 0.21m, located at the bottom left corner of the screen;
- 3. Satin black powder coated galvanised steel mesh panels and climbing plants around the structure; and
- 4. Lightweight planter boxes at 3m intervals in a vertical direction.

Refer to Appendix 1 – 'Tzannes Signage Proposal at Western Distributor Pyrmont'



#### 2 SITE WORK METHODOLOGY

This work involves installation of new vertical garden and associated digital advertising screen inside the light rail network corridor. Works will be conducted from the Western Distributor with occasional access from the Light Rail corridor.

All works will occur at night time and in accordance with light rail network protocol. A rail protection Officer will be present on site to assist the crew during each shift.

#### 2.1 Site Investigation Works

- 5. Transdev access approvals will be in place prior to commencement of works.
- 6. Undertake full dilapidation report of rock face and adjacent area.
- 7. Ensure that site is survey mapped and utilities are identified and mapped
- 8. Edge protection to be in place via static line and independent 'Preston' super scaffold system edge protection solution (Refer to 'Figure 1', Page 8) prior to investigation works undertaken
- 9. 'Dial Before You Dig' reports will be obtained to ensure all services are identified within the construction zone and non-destructive utility mapping will be conducted within the footing zone prior to works.
- 10. Hanlon will all rail infrastructure is protected prior to commencement of civil works. This includes signal trays.
- 11. In accordance with standard construction procedures, Hanlon will undertake a geotechnical drill to assess and evaluate the embankment conditions on site. Drill operations are to be conducted by a 2.5 tonne drill rig which will be lifted into position from the road.
- 12. Protection matting will be place on the embankment to ensure damage to rock surface does not occur.
- 13. An initial assessment of the site indicates that there is the presence of weeds. An assessment of the lantana will be undertaken by a certified Arborist. An arborist report will be produced by 'Naturally Trees' outlining the tree species encountered and what protective provisions will be required for the work area. Hanlon will then wrap the trees within the vicinity with approved tree protection measures and signage where required.
- 14. A general clean up of waste within the work zone is to be conducted to ensure the site is left in its original state.





Figure 1 - Example of super scaffold to act as edge protection this would be set up on top of rock surface.

#### 2.2 Site Preparation

The following steps are to be conducted prior to any construction works beginning on site

- 1. Hanlon will acquire all permits from relevant authorities and stakeholders including any land owners consents.
- 2. Pre Safety meeting & checks will be conducted on site with construction personnel prior to commencement of works.
- 3. Site personnel will sign in to the light rail site PICOW officer
- 4. Site personnel will sign onto Hanlon's SWMS.
- 5. The closure of roads as required by the traffic control plan will be undertaken as traffic management protocol.
- 6. Site personnel will accept drill, crane access equipment and trucks into the work zone.
- 7. The crane will be positioned as per lift study and then set up.

#### 2.3 Site Protection Measures

The work area will require extensive clean up, rubbish and weed removal in the first instance to allow accurate dilapidation reports to be recorded. Once the report is completed the below site protection measures will be implemented to preserve the site embankment in pre-construction and during construction works.



1. Honcho construction matting to be placed over the entire work area (foot traffic zones) Item 1



2. Plastic encapsulation, rubber construction matting coverings item 2 and timbers as required for drill equipment positions.



3. Rubber matting Item 3 and plywood covering as required during steel installation and green wall installations.



#### 2.4 Site Works

#### 2.4.1 Civil works drilling of four piles

- 1. Civil works to be undertaken during possession.
- 2. PICOW officers to be used to access tracks.
- 3. Signal trays to be covered with protection.
- 4. Surveyor to set out location.
- 5. Drill 4 off 100 mm diameter holes.
- 6. Sediment controls to be in place during drill and installation.
- 7. Geo technical engineer to be on site at all times during drilling to monitor and provide advice during works.
- 8. 4 off 40mm high grade bars to be installed and grouted in the drilled pile once engineer provides approval.
- 9. Grout to be poured and allowed to cure to the correct strength nominated by engineer.
- 10. Circular Pile cap to be formed and then poured once signed off by engineer.
- 11. Pile cap to cure to required strength.
- 12. Stripping to take place.

Refer Appendix 2 – 'Footing design for the base works'

#### 2.4.2 Install structural steel.

- Approved traffic management plan and correct ROL permits to be in place when installing the steel structure from road.
- Trans dev to be notified and works only to be undertaken after hours.
- Power out permits to be approved prior to commencement of works.
- Exclusion zone on the fish markets platform to be in place.
- A 90 tonne crane will be set up from the western distributor to install main structure steelworks (200 shs framework) and as built.
- An 80 ft knuckle boom to be used from miller lane to release slings
- Scaffold to be erected up around the structure to allow the planting element in commissioning works. Scaffold feet to have protection in place to ensure no interference to the rock surface.
- Transport perimeter fence requires modification (gate) to access the site location from Miller Street.
- Traffic management to be in place when installing the steel structure from Miller Street.





#### 2.4.3 Install digital box

- 1. Traffic control to be set up as per traffic management plan.
- 2. The digital box will be picked up from the semi-truck using crane and slings.
- 3. The box will then be aligned and placed on the rails.
- 4. Bolt Z brackets will be affixed to the rails.
- 5. Anglengle brackets will be at the ends of box only.
- 6. Other Z brackets to be tek screwed where physically possible.
- 7. Install fascia, cladding frame & badge.
- 8. Install hatches.
- 9. Install camera and arm on top of the sign
- 10. Electrical connection to be established and commissioning to take place
- 11. Base ladder to be installed to allow maintenance access.

#### 2.5 Site clean up

A site clean up will be conducted after each shift.

- 1. General tidy up of site including clearance of waste and construction materials.
- 2. Remove vehicles.
- 3. Ensure no equipment and rubbish is left onsite.
- 4. Photograph site and issue images to client and landowner.
- 5. Close Traffic Management.
- 6. Close out with client and exit site.



#### 2.6 Final sign off

- 1. All final QA checks & certification
- 2. Engineer to sign off work.

#### 3 PLANT AND EQUIPMENT

#### 3.1 List of Equipment used on site

- 1. 2.5 tonne drill rig
- 2. 90T Mobile Crane
- 3. Semi-trailer
- 4. Elevated Work Platforms
- 5. Wire and Cloth Slings
- 6. Electric power tools
- 7. Vehicles



Appendix 1 – 'Tzannes Signage Proposal at Western Distributor Pyrmont'

### DRAWING LIST

| Drawing No. | Drawing Title          | Revision |
|-------------|------------------------|----------|
| 000         | Proposed Site Plan     | С        |
| 100         | Plans                  | В        |
| 200         | Elevations             | С        |
| 300         | Sections + Details     | D        |
| 900         | Materials and Finishes | В        |



W. tzannes.com.au T. 61 2 9319 3744 E. tzannes@tzannes.com.au Suite 5, L5, 2-12 Foveaux St Surry Hills NSW 2010 Sydney, Australia

Nominated Architect Alec Tzannes 4174 Amy Dowse 8926

### Copyright

Copyright owned by Tzannes. Rights to this document are subject to payment in full of all existing RL's on site. Advise Tzannes fees. This document may Architect of any discrepancies only be used for the express before commencement. Allow for purpose for which it has been adjustments to suit discrepancies. created and any unauthorised use is at the user's sole risk and without limiting Tzannes' rights the user releases and indemnifies Tzannes from and against all loss so arising

#### General Notes

Verify dimensions on site prior to commencement of work. Check materials and construction practice. Comply with Basix Certificate. Do not scale from drawings.

| Rev | Date     | For                                    |
|-----|----------|--|
| А   | 09.05.22 | FOR DEVELOPMENT APPLICATION -<br>DRAFT |
| В   | 16.05.22 | FOR DEVELOPMENT APPLICATION -<br>DRAFT |
| С   | 23.05.22 | FOR DEVELOPMENT APPLICATION -<br>DRAFT |

### Client

02 9451 3455

JCDecaux 02 8066 9100 damien.rath@jcdecaux.com Structural Engineer

Dennis Bunt Consulting Engineer john@dbce.com.au



# Tzannes

### Scale North As indicated @ A1 $\bigcirc$

### Project

Signage Proposal at western Distributor, Pyrmont Address Lot 1012 DP870307 Pyrmont Sydney NSW 2009

# status NOT FOR CONSTRUCTION

Drawing Proposed Site Plan

Date Created Drawn SB 05/05/22

Checked ΤZ

| Project No. | Drawing No. | Revision |
|-------------|-------------|----------|
| 21034       | 000         | С        |





3 | Plan @ RL 28.50 - Screen



2 | Plan @ RL 19.07 - Base - Callout 1



john@dbce.com.au

Legend

02 9451 3455

# Tzannes

Scale

# As indicated @ A1 Project Signage Proposal at western Distributor, Pyrmont

Address Lot 1012 DP870307 Pyrmont Sydney NSW 2009

## Status NOT FOR CONSTRUCTION

Drawing Plans

Date Created Drawn Checked SB 05/05/22

ΤZ Revision

North

| Project No. | Drawing No. |
|-------------|-------------|
| 21034       | 100         |

В



**1** | Elevation 03\_South



2 | Elevation 01\_North 1:100



**3** | Elevation 04\_West



W. tzannes.com.au T. 61 2 9319 3744 E. tzannes@tzannes.com.au Suite 5, L5, 2-12 Foveaux St Surry Hills NSW 2010 Sydney, Australia

Nominated Architect Alec Tzannes 4174 Amy Dowse 8926

#### Copyright

Copyright owned by Tzannes. Rights to this document are subject to payment in full of all existing RL's on site. Advise Tzannes fees. This document may Architect of any discrepancies only be used for the express before commencement. Allow for purpose for which it has been adjustments to suit discrepancies. created and any unauthorised use Comply with relevant authorities is at the user's sole risk and requirements. Comply with without limiting Tzannes' rights the user releases and indemnifies Tzannes from and against all loss so arising

# General Notes Verify dimensions on site prior to commencement of work. Check materials and construction practice. Comply with Basix

Certificate. Do not scale from

drawings.

| Rev | Date     | For                                    |
|-----|----------|--|
| А   | 09.05.22 | FOR DEVELOPMENT APPLICATION -<br>DRAFT |
| В   | 16.05.22 | FOR DEVELOPMENT APPLICATION -<br>DRAFT |
| С   | 23.05.22 | FOR DEVELOPMENT APPLICATION -<br>DRAFT |

#### Client

JCDecaux 02 8066 9100 Structural Engineer

02 9451 3455

damien.rath@jcdecaux.com

Dennis Bunt Consulting Engineer

john@dbce.com.au

Legend

# Tzannes

#### Scale

### North

### 1 : 100 @ A1

### Project

Signage Proposal at western Distributor, Pyrmont Address Lot 1012 DP870307 Pyrmont Sydney NSW 2009

# Status NOT FOR CONSTRUCTION

Drawing Elevations

Date Created 05/05/22

Drawn SB

Checked ΤZ

Project No. 21034

Drawing No. 200

Revision

С



**1** | **Section 1** 1 : 100









Axonometric View



W. tzannes.com.au T. 61 2 9319 3744 E. tzannes@tzannes.com.au Suite 5, L5, 2-12 Foveaux St Surry Hills NSW 2010 Sydney, Australia

Nominated Architect Alec Tzannes 4174 Amy Dowse 8926

#### Copyright

Copyright owned by Tzannes. Rights to this document are subject to payment in full of all existing RL's on site. Advise Tzannes fees. This document may Architect of any discrepancies only be used for the express before commencement. Allow for purpose for which it has been adjustments to suit discrepancies. created and any unauthorised use Comply with relevant authorities is at the user's sole risk and requirements. Comply with without limiting Tzannes' rights the user releases and indemnifies requirements. Comply with Tzannes from and against all loss relevant Australian Standards for so arising

#### General Notes

Verify dimensions on site prior to commencement of work. Check materials and construction practice. Comply with Basix Certificate. Do not scale from drawings.

| Rev | Date     | For                                    |
|-----|----------|--|
| A   | 09.05.22 | FOR DEVELOPMENT APPLICATION -<br>DRAFT |
| В   | 16.05.22 | FOR DEVELOPMENT APPLICATION -<br>DRAFT |
| С   | 17.05.22 | FOR DEVELOPMENT APPLICATION -<br>DRAFT |
| D   | 23.05.22 | FOR DEVELOPMENT APPLICATION -<br>DRAFT |

#### Client

JCDecaux 02 8066 9100

damien.rath@jcdecaux.com

Structural Engineer

02 9451 3455

Dennis Bunt Consulting Engineer john@dbce.com.au

Legend

## Tzannes

#### Scale

#### North

As indicated @ A1

### Project

Signage Proposal at western Distributor, Pyrmont Address Lot 1012 DP870307 Pyrmont Sydney NSW 2009

Status NOT FOR CONSTRUCTION

Drawing Sections + Details

Date Created Drawn SB 05/05/22

Checked ΤZ

| Project No. | Drawing No. | Revision |
|-------------|-------------|----------|
| 21034       | 300         | D        |



LED Display Screen



Climbing plants



Satin black powder coated galvanised steel mesh panels



Climbing plants on mesh panel



Galvanised steel pipes 200 Ø External Structure



Exposed Concrete Plinth



Photomontage – Proposed view from Miller Street Note: This is a computer generated artists impression only. Proposed landscaping illustrated is indicative only and may reveal elements otherwise obscured.



Photomontage – Proposed view from Western Distributor

Note: This is a computer generated artists impression only. Proposed landscaping illustrated is indicative only and may reveal elements otherwise obscured.



W. tzannes.com.au T. 61 2 9319 3744 E. tzannes@tzannes.com.au Suite 5, L5, 2-12 Foveaux St Surry Hills NSW 2010 Sydney, Australia

Nominated Architect Alec Tzannes 4174 Amy Dowse 8926

#### Copyright

Copyright owned by Tzannes. Rights to this document are subject to payment in full of all existing RL's on site. Advise Tzannes fees. This document may Architect of any discrepancies only be used for the express before commencement. Allow for purpose for which it has been adjustments to suit discrepancies. created and any unauthorised use Comply with relevant authorities is at the user's sole risk and requirements. Comply with without limiting Tzannes' rights the Building Code of Australia user releases and indemnifies requirements. Comply with Tzannes from and against all loss relevant Australian Standards for so arising

#### General Notes

Verify dimensions on site prior to commencement of work. Check materials and construction practice. Comply with Basix Certificate. Do not scale from drawings.

| Rev | Date     | For                                    |
|-----|----------|--|
| А   | 09.05.22 | FOR DEVELOPMENT APPLICATION -<br>DRAFT |
| В   | 16.05.22 | FOR DEVELOPMENT APPLICATION -<br>DRAFT |

#### Client

JCDecaux 02 8066 9100

damien.rath@jcdecaux.com

Structural Engineer Dennis Bunt Consulting Engineer 02 9451 3455 john@dbce.com.au

Legend

# Tzannes

### Scale

North

### @ A1

Project

Signage Proposal at western Distributor, Pyrmont Address Lot 1012 DP870307

## Pyrmont Sydney NSW 2009

# status NOT FOR CONSTRUCTION

Drawing Materials and Finishes

Date Created 05/05/22

Drawn SB

Checked ΤZ

Project No. 21034

Drawing I 900

В



### Appendix 2 – 'Footing design for the base works'



