

**Oxford Humanities**  
**Operation & Maintenance Manual**  

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**CONTROL SYSTEMS**

Document No. : 4334-99-OM-0001  
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# 1. Document Control

## 1.1. Identification

Client: Laing O'Rourke

Project Name: Oxford Humanities

J&C Joel Project Reference: 4334

Document Name: Control Systems – Operation & Maintenance Manual

Document Reference: 4334-99-OM-0001

## 1.2. Document History

Rev	Date	Description	Author	Checked
A	15/08/2025	First Issue	SS	JC
B	10/12/2025	Updated as per consultant comments and to reflect control changes post Rev A	SS	JC

## 1.3. Contact Details

### J&C Joel Ltd

Corporation Mill  
Corporation Street  
Halifax  
HX6 2QQ  
United Kingdom

T: +44 (0) 1422 833835  
E: UKprojects@jcjoel.com

### J&C Joel Middle East

Warehouse 12, 598-706,  
Dubai Investment Park 1,  
PO Box 23295  
Dubai  
United Arab Emirates

T: +971 (0) 4 884 7801  
E: InternationalProjects@jcjoel.com

## 1.4. Warranty

Limited warranty is valid for twelve (12) months from the date of practical completion and handover to the client or clients representative (whichever occurs first.)

1. The warranty shall be limited to the free supply of replacement materials and workmanship for the faulty materials or workmanship and shall not cover other damage or defects how so ever caused.
2. It shall be the client's responsibility to notify J&C Joel Ltd for any defects in the machinery and the warranty shall be void if repairs or other works were carried out by third parties.
3. This warranty shall only apply to the areas where J&C Joel Ltd have been applied and completed the works.
4. The supply of replacement materials and workmanship under this warranty shall in no event exceed the quantity specified and supplied and shall only be applied to proven defective areas by checking and tests conducted under the control of the owner, the consultant or its representative and J&C Joel Ltd or its representatives.
5. This warrantee shall be interpreted according to the laws of the United Kingdom.

## 1.5. Copyright

This document contains material that is proprietary to J&C Joel Ltd. This information is provided on the understanding that it is used solely for the purpose of information, installing and maintaining the equipment described, and that it will not be revealed to third parties or otherwise disposed of without the prior written consent of J&C Joel Ltd.

Copyright for all design, software, electronic circuits, drawings and the text of this manual remains with J&C Joel Ltd. This publication or parts thereof may not be reproduced in any form, by any method, for any purpose. Further copies may be obtained from J&C Joel Ltd. on request.

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## 2. How to use this manual

Read the instructions carefully before use and follow them accordingly. Keep this document safe for future reference. Non-observance of these instructions may lead to hazardous situations and / or malfunctions or to failure of the equipment, resulting in damage or injury.

The user is advised not to operate or undertake any work on the system without first reading and understanding the contents of this manual.

All maintenance should be carried out strictly in accordance with the instructions contained in this and the manufacturer's reference manuals attached and undertaken by suitably trained and qualified personnel.

This manual describes the J&C Joel supplied Control Systems at the Oxford Humanities building. This information is pertinent to both spaces where the lifting points are installed. Servicing or repairs of main fault conditions is not covered; in such cases please contact J&C Joel immediately.

This document is intended to provide the user with sufficient information to allow maintenance of the equipment described.

If in doubt about anything contained in this manual please contact the Projects Department at J&C Joel Ltd. T: +44 (0)1422 833835 – E: [ukprojects@jcjoel.com](mailto:ukprojects@jcjoel.com)

## 3. Health and Safety

### 3.1. General

The machinery is designed for use in theatres and venues of public entertainment and must be operated strictly according to its intended purpose. Compliance with all relevant local laws, regulations, and machinery directives regarding operation and accident prevention is mandatory. Regular inspections and maintenance are essential for ensuring the equipment's proper functioning. Only fully trained and competent personnel should conduct operations, inspections, and maintenance activities.

Personnel are required to possess comprehensive knowledge of the equipment, including adherence to operating and maintenance guidelines. The client's staff bear the responsibility for ensuring safe operation in accordance with the client's safety manual and must promptly address any defects or damages. Minor issues may be rectified by the client's operating company; otherwise, please contact J&C Joel Ltd to ensure proper safety measures are taken.

In situations where the condition of the equipment is uncertain, operations should be conducted exclusively under the supervision of a qualified expert. Ensure that all loads are removed or securely fastened prior to inspecting or maintaining movable installations.

The maintenance supervisor is accountable for complying with all relevant health and safety regulations and must ensure that maintenance switches are deactivated when servicing drive units.

Authorized personnel are required to inspect, maintain, and lubricate parts regularly. Safety devices, such as protective covers, should be properly installed. Equipment and installations should be used only for their intended purposes, following all operating instructions and technical specifications.

The client's technical supervisor is required to verify that all operators or technicians engaged in work on live equipment up to 400 VAC possess the necessary training and qualifications.

The electrical equipment must be connected to an appropriate power supply that meets the required technical specifications and tolerances. The client is responsible for ensuring proper equipotential bonding.

- Nominal Voltage = 230 V AC (in accordance with EN 60204-1).
- Nominal frequency: = 50 Hz, (in accordance with EN 60204-1).
- Control voltage: Consult Control System Operation Manual

The client's supervisor is responsible for ensuring that a current copy of the company's local health and safety regulations is always accessible within the venue. The supervisor must ensure that all personnel who are required to work on the equipment and systems referenced in this manual are fully acquainted with the health and safety regulations and are provided with the necessary personal protective equipment prior to commencing any work on the equipment. Additionally, they must have the appropriate tools and equipment as listed herein and thoroughly understand the requirements of BSEN 17206:2020 Entertainment Technology Machinery for Stages and Other Production Areas, Safety Requirements and Inspections and Use.

### 3.2. Disposal Instructions

At the end of the service life of the equipment, normally between 15 and 20 years, any parts or items that may be upgraded or replaced must be removed and disposed of in accordance with laws and regulations in force at the time. Generally, the equipment comprises of non-hazardous steel fabrications and machinery, electrical installation materials and accessories, and electronic assemblies. Some PLC components contain batteries which must also be disposed of correctly. Gearboxes have small amounts of lubricating oil inside which should be disposed of using a properly licensed facility.

### 3.3. Electrical Maintenance Safety



**CAUTION**



Many racks feature multiple power supplies, including mains supplies, clean supply, and auto-transformer supply, among others. Each supply has a warning indicator located on the front panel. Additionally, within the equipment and contactor racks, there are exposed live terminals that must be handled with caution. **Ensure that all supplies are isolated and locked off before attempting to carry out any work.**

After isolating all supplies, it is imperative to display a warning notice at the isolation point. This notice must indicate that maintenance is being performed on the downstream equipment and that re-energizing is strictly prohibited.

In situations where it is unavoidable to work on live equipment, it is imperative that the individual performing the task is appropriately trained and that the work adheres to the regulations set forth by the "Health and Safety at Work Act".

Microprocessor systems are inherently complex, requiring specialized knowledge for detailed fault diagnosis. It is essential that individuals servicing this equipment have attained sufficient expertise before undertaking such tasks. Consequently, this manual does not provide tutorials on electronic circuits and microprocessor systems; it assumes that the reader is fully competent in this area.

## 4. General

J&C Joel Ltd have supplied a unified control system for all electrical stage engineering systems supplied. Operational and safety information is covered in each systems O&M manual, this manual covers the control system and interface only.

The system uses a single controller which can operate different systems depending on which Plug in Point it is connected to. Two control pendants have been supplied, multiple systems can be controlled simultaneously.

All venues feature wall mounted E stops in addition to the E Stop found on each control pendant. The concert hall has a global E Stop system, meaning that pressing one E Stop will stop all systems.

This document should be read in conjunction with each individual system's O&M manual, as each individual manual outlines the operational risks and procedures of the specific system. This manual does not cover these in detail. It is imperative that the operator always has vision of the systems in motion.

The following key control elements have been supplied:

### **250 Seat Theatre Overstage**

1 x 250 Overstage MCC with E Stop on the front – Located in the 250 Rack Room

3 x E Stops – Stage right balcony, stage left balcony, stage right wall panel.

1 x Plug in Point – stage left wall panel

### **Black Box Banners**

1 x Black Box Banner MCC with E Stop on the front

1 x Plug in Point/Wall mounted control station – Control booth

### **Concert Hall**

1 x Concert Hall Banner MCC with E Stop on the front – Technical Loft

1 x CH Overstage MCC with E Stop on the front – Technical Loft

1 x CH Understage MCC with E Stop on the front – Stage left corridor

1 x CH Global E Stop System MCC with E Stop on the front – Technical loft

4 x Plug in point

1 x Banner – Stage left corridor

1 x Banner plug in point / Wall mounted control station - sound control booth

1 x Understage – Stage left corridor

1 x Overstage - Stage left corridor

5 x E Stops – Stage left corridor, gantry SR, gantry SL, loft SL, loft SR

In addition to two banner Wall mounted control station, 3 x Touchscreen Control Pendants (with 10m leads) have been supplied loose. These are general equipment, which can be plugged into any control system plug in point.

Note the Wall mounted control stations are not hard wired, they can be disconnected and a Touchscreen control pendant can be plugged in.

## 4.1. List of Drawings

DRAWING NO.	TITLE
UOONHB-JCJ-CH-ZZ-DR-OT-990101	Concert Hall - Control Layout - Technical Loft
UOONHB-JCJ-CH-ZZ-DR-OT-990102	Concert Hall - Control Layout - Gantry
UOONHB-JCJ-CH-ZZ-DR-OT-990103	Concert Hall - Control Layout - Stage Level
UOONHB-JCJ-CH-ZZ-DR-OT-990111	Concert Hall - Overstage Equipment Control System - Line Diagram
UOONHB-JCJ-CH-ZZ-DR-OT-990112	Concert Hall - Overstage Equipment Control System - Power Diagram
UOONHB-JCJ-CH-ZZ-DR-OT-990113	Concert Hall - Overstage Equipment Control System - Control Diagram
UOONHB-JCJ-CH-ZZ-DR-OT-990114	Concert Hall - Overstage Equipment Control System - General Arrangement
UOONHB-JCJ-CH-ZZ-DR-OT-990115	Concert Hall Overstage Equipment Control System PLC Map Diagram
UOONHB-JCJ-CH-ZZ-DR-OT-990121	Concert Hall - Acoustic Banner Control System - Line Diagram
UOONHB-JCJ-CH-ZZ-DR-OT-990122	Concert Hall - Acoustic Banner Control System - Power Diagram
UOONHB-JCJ-CH-ZZ-DR-OT-990123	Concert Hall - Acoustic Banner Control System - Control Diagram 1
UOONHB-JCJ-CH-ZZ-DR-OT-990124	Concert Hall - Acoustic Banner Control System - Control Diagram 2
UOONHB-JCJ-CH-ZZ-DR-OT-990125	Concert Hall - Acoustic Banner Control System - General Arrangement
UOONHB-JCJ-CH-ZZ-DR-OT-990131	Concert Hall - Stage Level Control System - Line Diagram
UOONHB-JCJ-CH-ZZ-DR-OT-990132	Concert Hall - Stage Level Control System - Power Diagram
UOONHB-JCJ-CH-ZZ-DR-OT-990133	Concert Hall - Stage Level Control System - Control Diagram
UOONHB-JCJ-CH-ZZ-DR-OT-990134	Concert Hall - Stage Level Control System - General Arrangement
UOONHB-JCJ-CH-ZZ-DR-OT-990141	Concert Hall - E-Stop - Electrical Schematic
UOONHB-JCJ-CH-ZZ-DR-OT-990142	Concert Hall - E-Stop - General Arrangement
UOONHB-JCJ-T2-ZZ-DR-OT-990201	250 Seat Theatre - Control Layout - General Arrangement
UOONHB-JCJ-T2-ZZ-DR-OT-990211	250 Seat Theatre - Overstage Equipment Control System - Line Diagram
UOONHB-JCJ-T2-ZZ-DR-OT-990212	250 Seat Theatre - Overstage Equipment Control System - Power Diagram
UOONHB-JCJ-T2-ZZ-DR-OT-990213	250 Seat Theatre - Overstage Equipment Control System - Control Diagram
UOONHB-JCJ-T2-ZZ-DR-OT-990214	250 Seat Theatre - Overstage Equipment Control System - General Arrangement
UOONHB-JCJ-BB-ZZ-DR-OT-990301	Black Box - Control Layout - General Arrangement
UOONHB-JCJ-BB-ZZ-DR-OT-990311	Black Box Control System Line Diagram
UOONHB-JCJ-BB-ZZ-DR-OT-990312	Black Box Control System Power Diagram
UOONHB-JCJ-BB-ZZ-DR-OT-990313	Black Box Control System Control Diagram 1
UOONHB-JCJ-BB-ZZ-DR-OT-990314	Black Box Control System Control Diagram 2
UOONHB-JCJ-BB-ZZ-DR-OT-990315	Black Box Control System General Arrangement

## 4.2. Care When Using

1. Isolate all electrical equipment before work.
2. All moving systems should be directly watched during operation.
3. Extra care should be taken when moving systems through ceiling apertures
4. All staff should be trained on the risks present in the loft and gantry.
5. The function of E Stops should be communicated to staff.

## 5. Hardware

### 5.1. Control Pendant

Three touchscreen control pendants have been supplied, each can control any system depending on which plug in point they are connected to.

In the Concert Hall lighting control booth and Black Box Control booth a wall mounted controller has been supplied, these can be unplugged and a control pendant connected as needed.



To access the system the key should be turned to the “Control Enable” position.

The E Stop on the pendant will stop movement. In the Concert Hall this will stop movement of all systems.

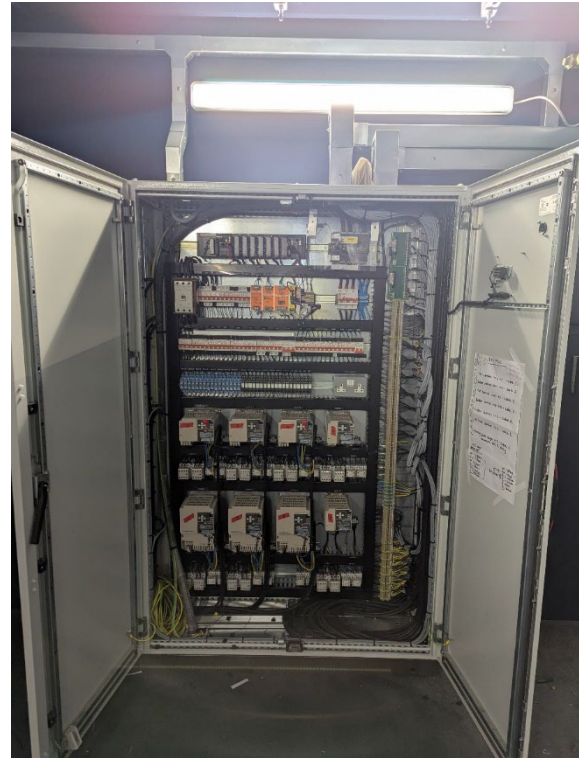
To allow movement of systems, one of the dead man buttons on the rear must be held pressed.

## 5.2. Concert Hall

The understage control cabinet is installed in the stage left corridor.

To run the understage systems the cabinet must be switched on.

All 3 indicator lights should be green.



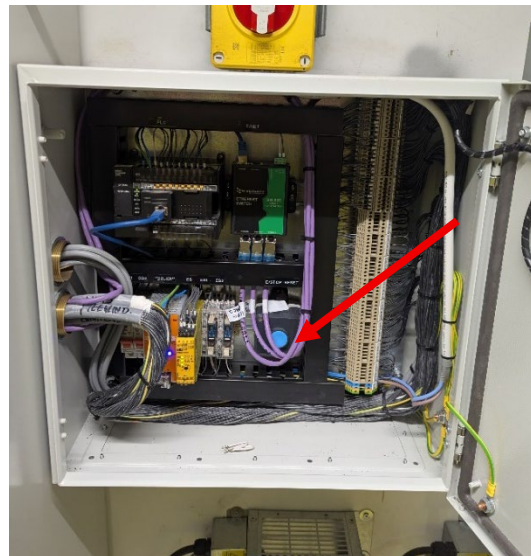
To use the understage pit lighting a cable should be connected between SLB 1008 and the socket to its left. The lights can then be operated using the Stage Electrics house light control panel located by the stage right door.



The Concert Hall Overstage, Roller banner and global E stop cabinet are all in the technical loft.



Should there be a fault with the Global Estop system such as the E Stop trace showing that the E Stop Relay is still on, even when all E Stops are not active, the first step should be to press the E Stop Reset button within the MCC cabinet.



The following hardware is also provided in the concert hall;

5 x E Stops – Stage left corridor, gantry SR, gantry SL, loft SL, loft SR

4 x Plug in point

2 x Banner – Stage left corridor and sound control booth (a wall mounted control panel is plugged in to the sound control booth PIP)

1 x Understage – Stage left corridor

1 x Overstage - Stage left corridor

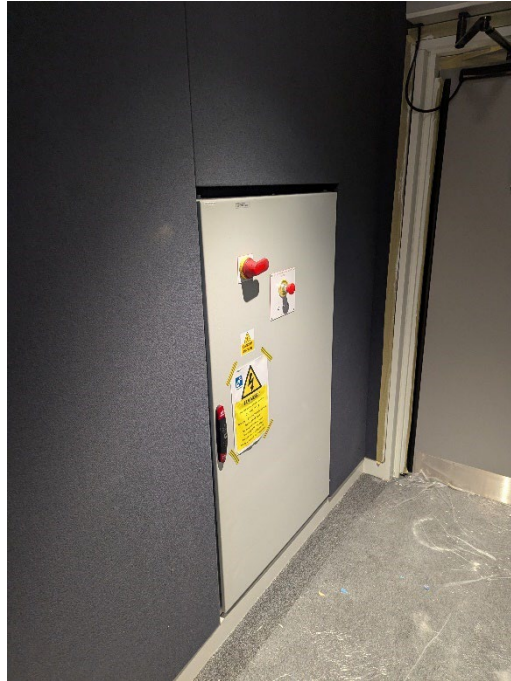
### 5.3. 250 Seat Theatre

The 250 Seat Theatre flying system cabinet is located in the 250 Rack Room.

One plug in point is installed in the 250, on stage left, therefore no dummy plug is required.

### 5.4. Black Box

The Black Box roller banner cabinet is located directly outside the gantry door.



One plug in point is installed within the control booth, therefore no dummy plug is required. A wall mounted control panel is plugged in here. This can be unplugged and a pendant controller be plugged in instead.

Each banner has an isolator at high level. These are painted to match the colour of the room – they are not the typical yellow and red.

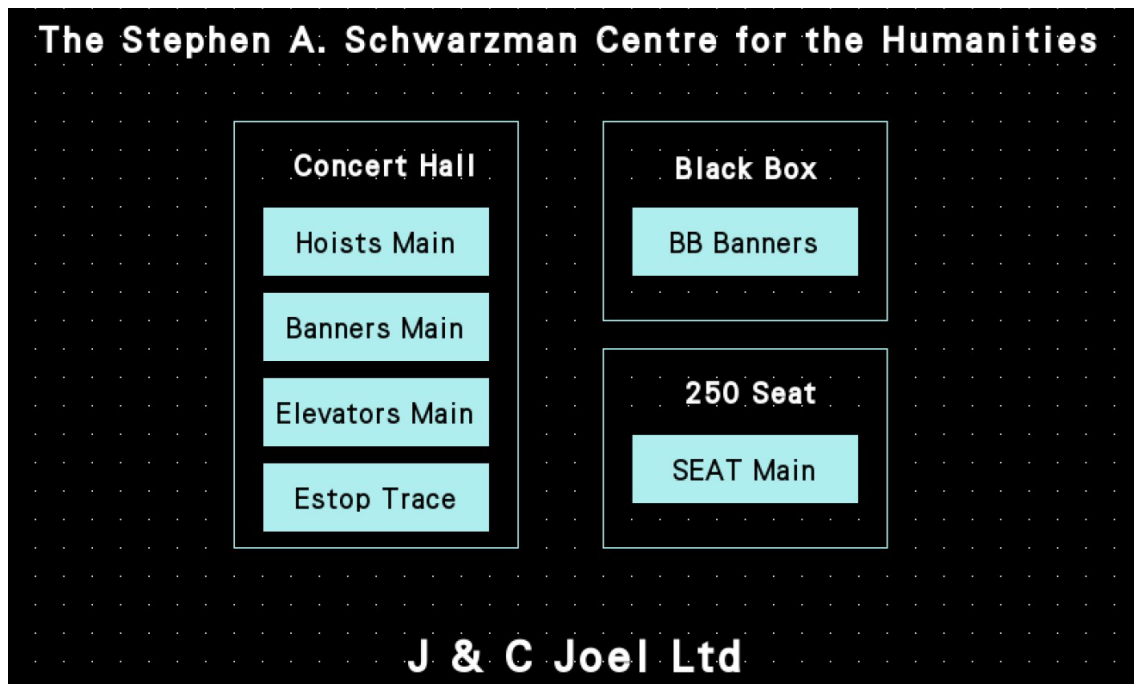
## 6. Control Interface

The following pages show the pages visible on the touchscreen control pendant and describe their functionality. Specific pages are only functional if the pendant is connected to the correct plug in point.

This page is visible irrespective of plug in point, but only the appropriate buttons will function.

### Landing Page

Once the pendant is plugged in and the key turned to the “Control Enable” position, the following page will be displayed after approximately 20 seconds.

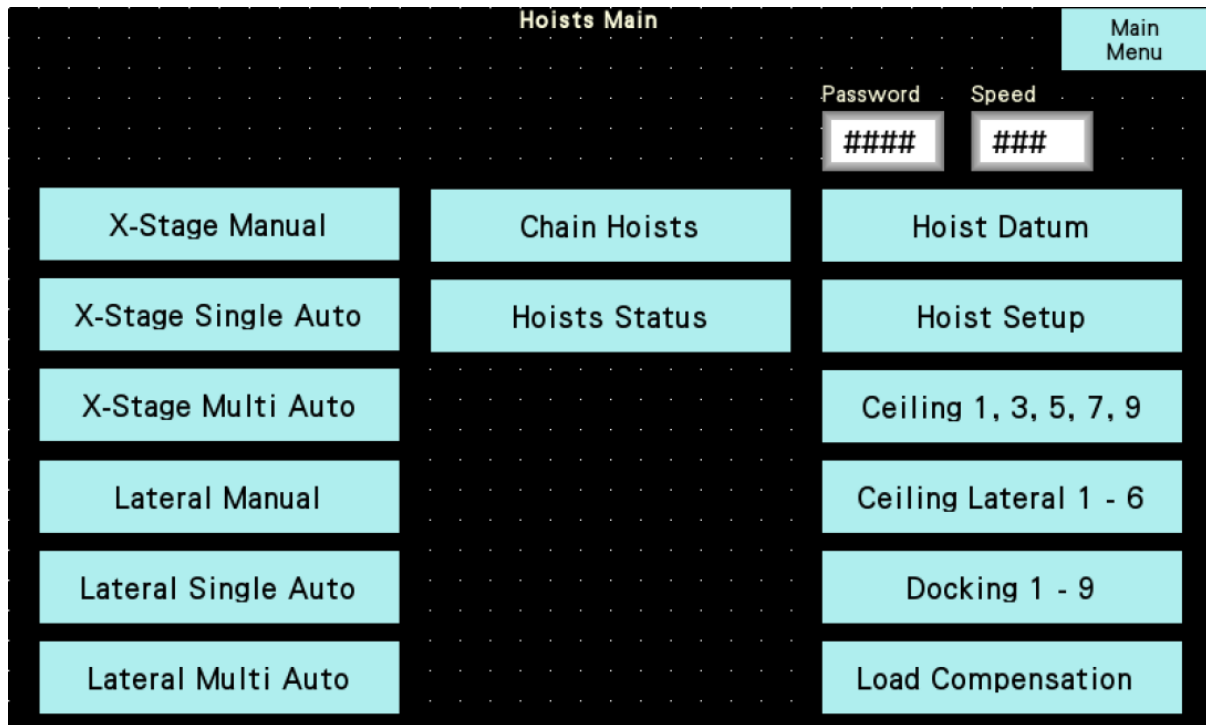


**Concert Hall – Hoists Main**

The “Hoists Main” page offers control of all overstage systems in the Concert Hall.

The hoist speed is set on this page. This speed carries through to all hoists. The number can be set between 50 and 999.

All functions in the right hand column are password protected.



**X-Stage Manual**

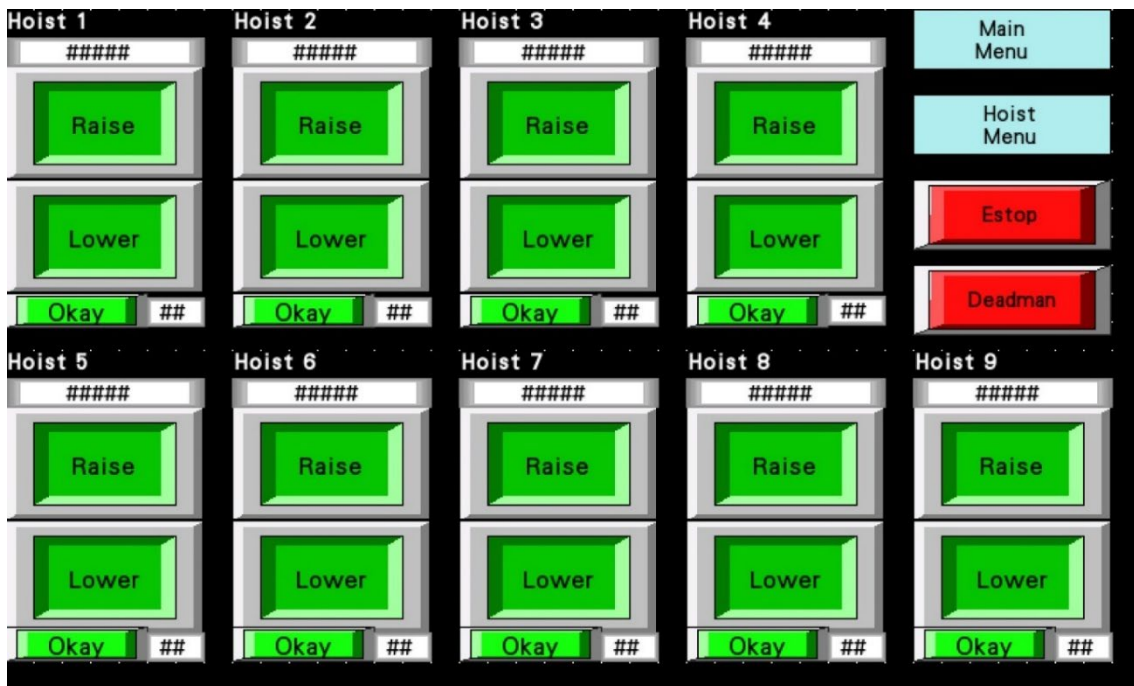
This page allows manual control of cross stage hoists. The relevant direction button and the deadman button must be held to initiate movement.

The white box below each hoist will indicate the encoder position.

Raise or lower will illuminate yellow when an end of travel limit is reached.

If both Raise and Lower illuminate yellow this indicates that an Ultimate limit has been struck. This should not happen under normal operation. Investigation into why this has happened is needed.

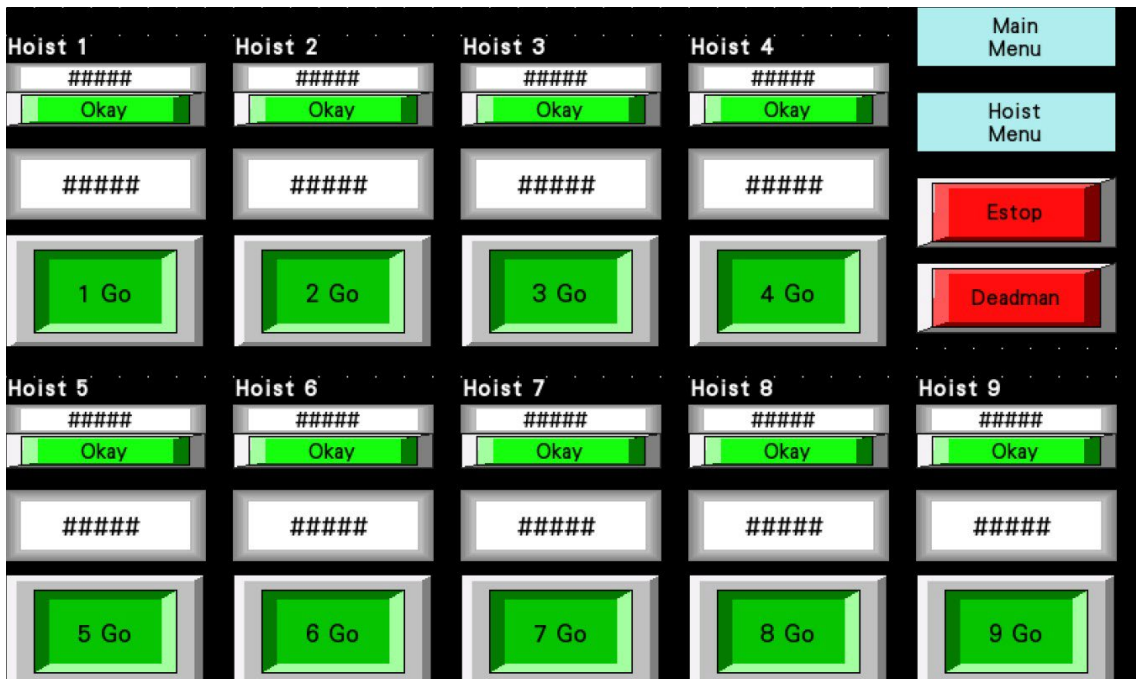
“Okay” will show any status messages and illuminate red, if a fault is present. See the “Hoist Status” page for descriptions of each error code.



**X-Stage Single Auto**

This page allows single hoists to be run to an input encoder position.

Desired encoder positions are typed into the lower white box. The Go button is then held to initiate movement.



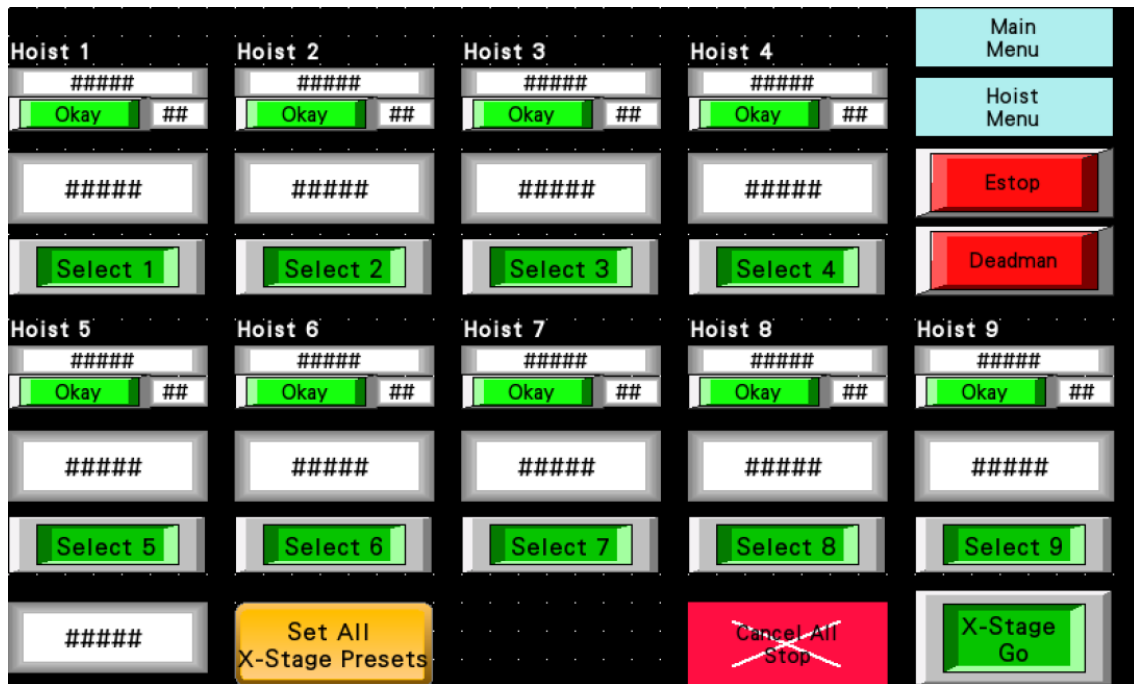
### X-Stage Multi Auto

This page allows multiple hoists to be run to encoder positions simultaneously.

Unique encoder positions can be set for multiple hoists. The hoists to move must then be selected using the “Select” button.

If you want all hoists to be set to the same encoder values, a value can be input in the bottom white cell. Then press “Set All X-Stage Presets” to apply it to all hoists.

They will run to these positions simultaneously, by pressing the “All Go” button.



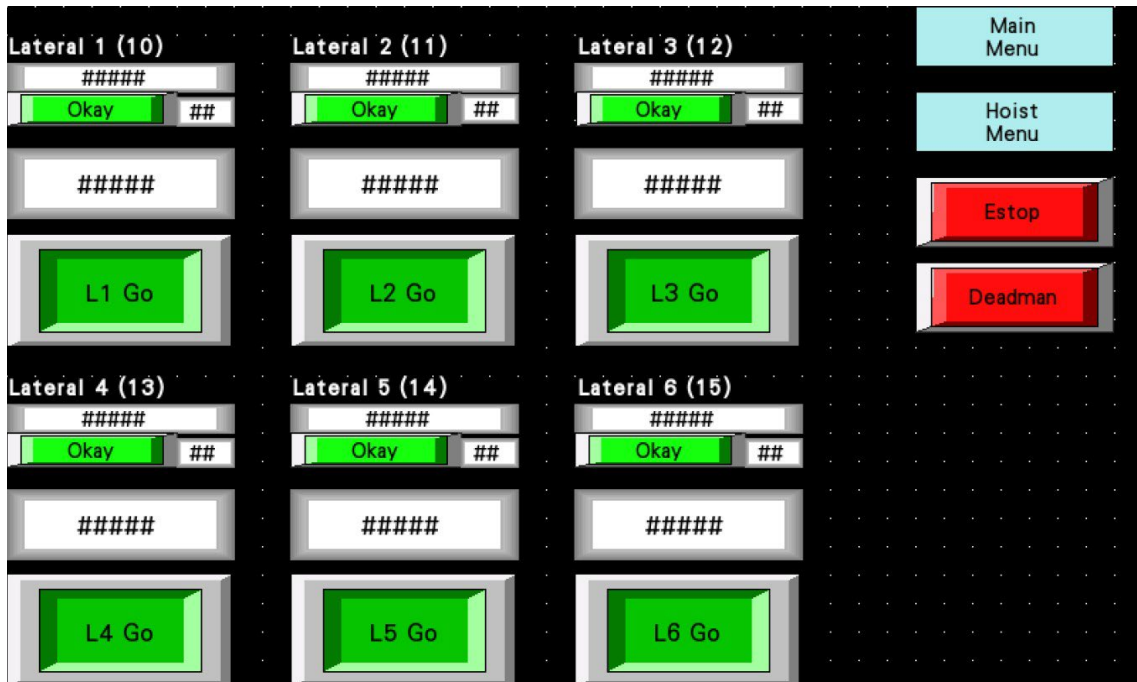
### Lateral Hoists Manual

This page has the same functionality as on the cross stage manual control page but controls the 6 Perimeter hoists.



### Lateral Single Auto

This page has the same functionality as on the “X-Stage Single Auto” control page but controls the 6 Perimeter hoists.



### Lateral Multi Auto

This page has the same functionality as on the “X-Stage Multi Auto” control page but controls the 6 Perimeter hoists.



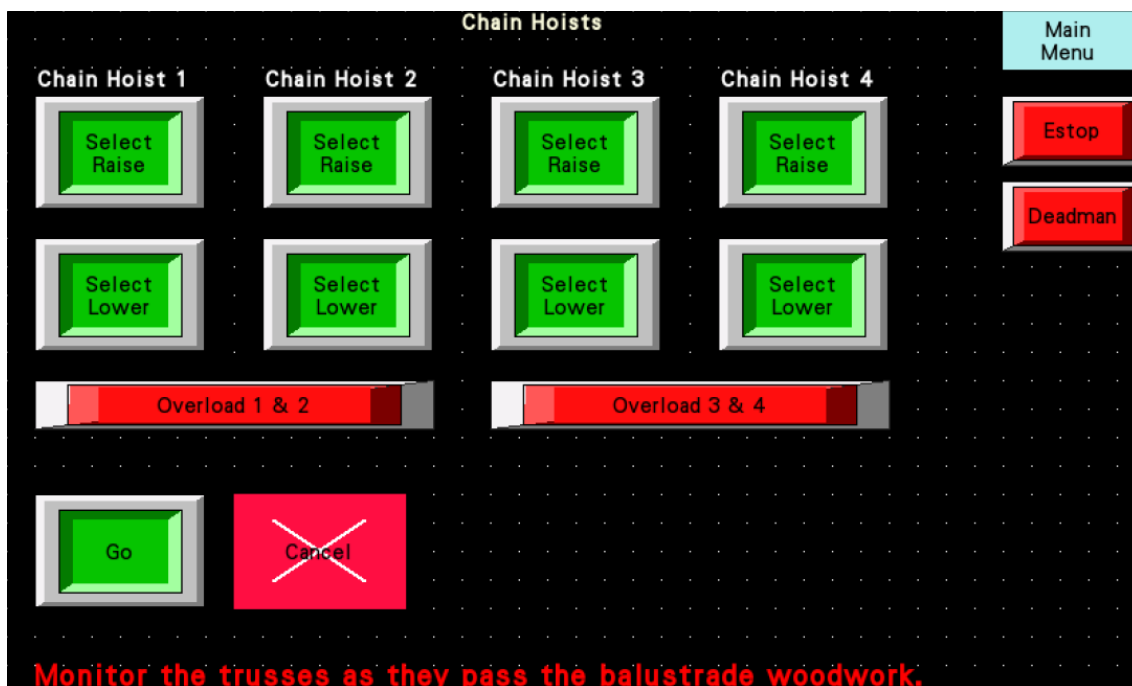
### Chain Hoists – PA Suspension

This page controls the 4 PA Suspension chain hoists. Hoists can be run individually or in groups.

To run select the hoists and the direction that you wish them to run. Then press GO and hold the dead man button.

When any hoist is overloaded all hoists will stop running.

For details on setting up the overload system see - 334-02-OM-0002

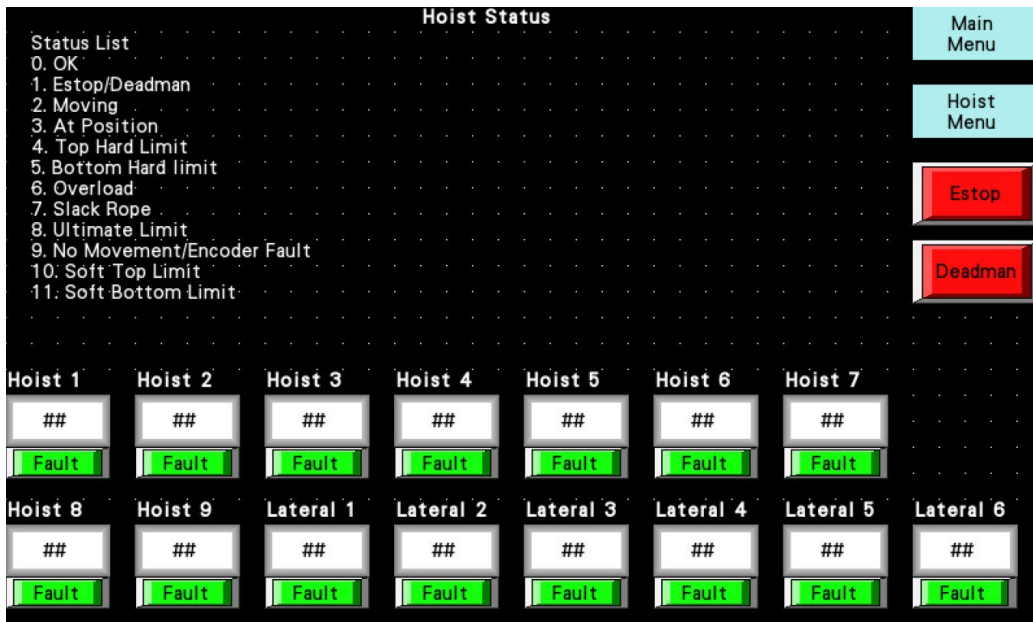


Note: Only the hoists supplied by J & C Joel Ltd as part of the Laing O'Rourke package have been set up to trigger the overload system. Should other hoists be connected they will need configuring to ensure correct operation of the overload system. See PA Suspension O&M.

### Hoists Status

Status codes will be shown in the white box below each hoist name. Certain faults will clear when the issue is removed, others will require moving the hoist to clear it.

Note fault 7. Slack Rope only stops movement when trying to move downwards.

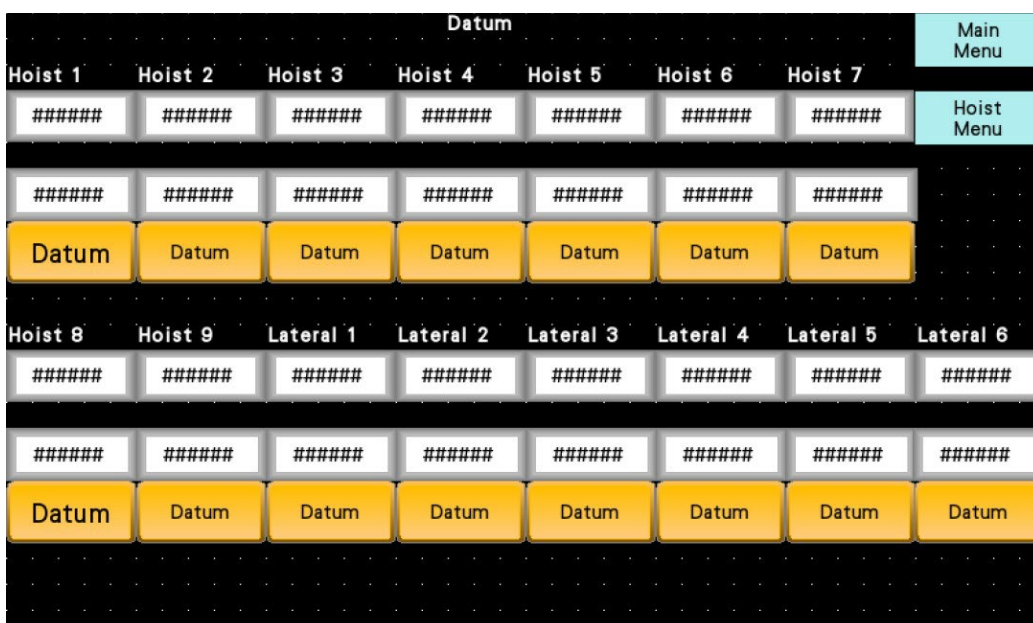


### Hoists Datum

This page is password protected. This page is used to re datum the encoder.

The upper white box shows current encoder position. The operator would type in the new encoder position into the lower white box and then press “Datum”. This value will now be set as the current encoder position.

This page should not need to be used during normal operation.



### Hoist Setup

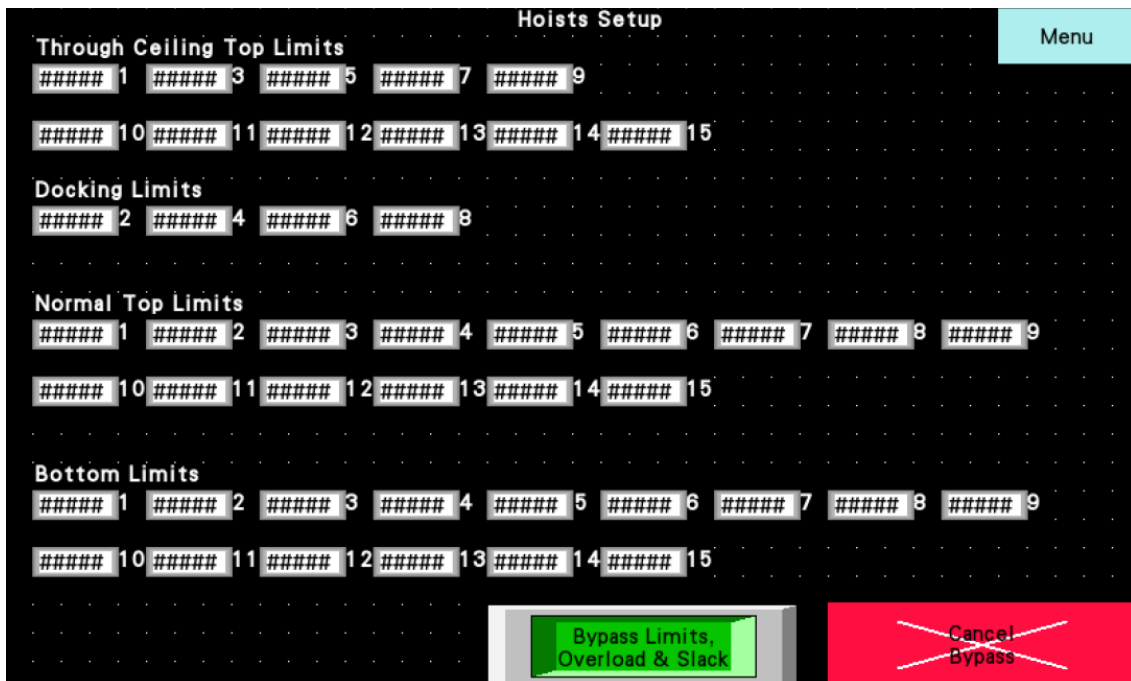
This page is password protected. This page is used to set encoder limits. It should not need to be used during normal operation.

For hoists which can pass through the ceiling Normal Top encoder limits are set to stop the hoist below the ceiling. Positions beyond these and upto “Through Ceiling Top Limits” can only be accessed in a password protected page.

“Docking Limits” are for the permanently rigged cross stage bars, these values are set above the “Normal Top Limits”. This allows the bar to run tight to the ceiling in the ceiling recess, movement in this range is password protected.

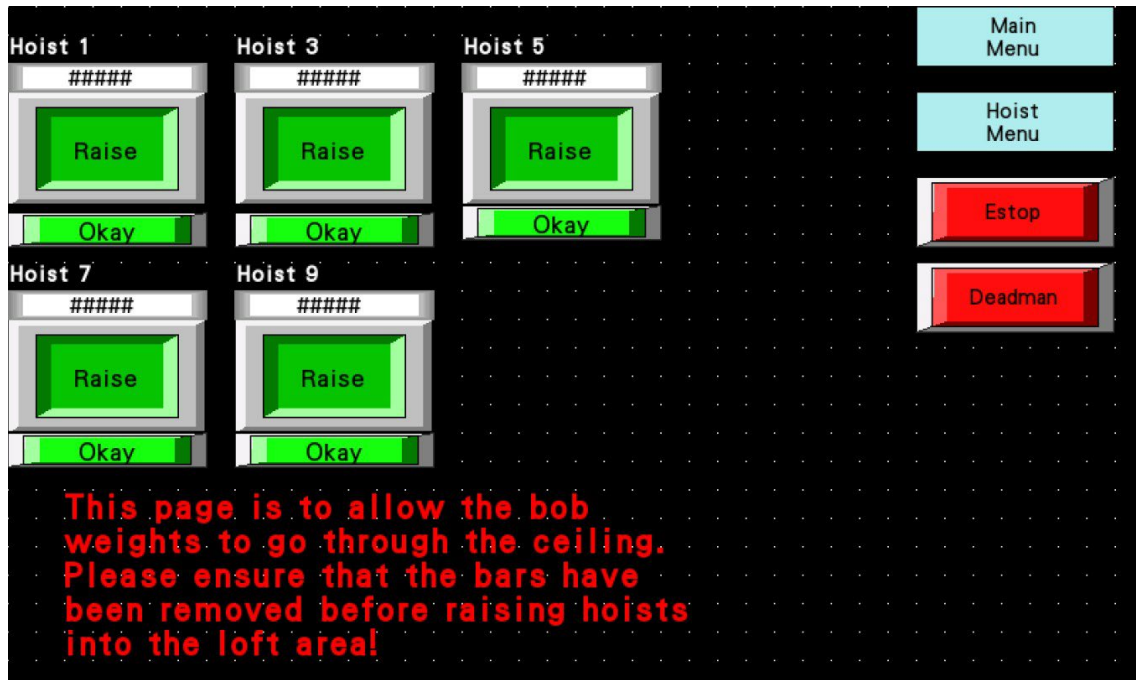
Note: On demountable bars electromechanical end of travel and ultimate limits are set beyond the ceiling.

The “Bypass limits, overload and slack” button should only be used under special circumstances such as maintenance. It is not for normal operation, its use should be restricted.



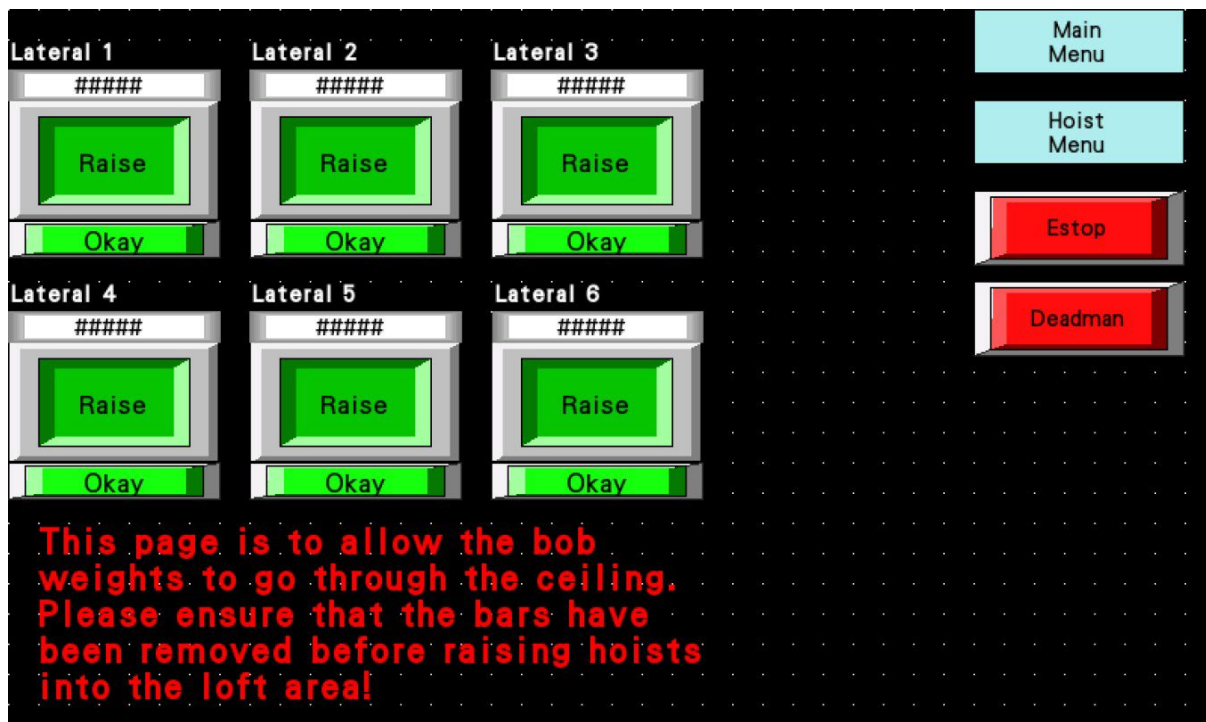
### Ceiling Pass Through

This page is used once bob weights are fitted to demountable bars and you wish to pass them through the ceiling, beyond the “Normal Top Limits” set on the previous page. This page is password protected.



### Ceiling Pass Through Lateral

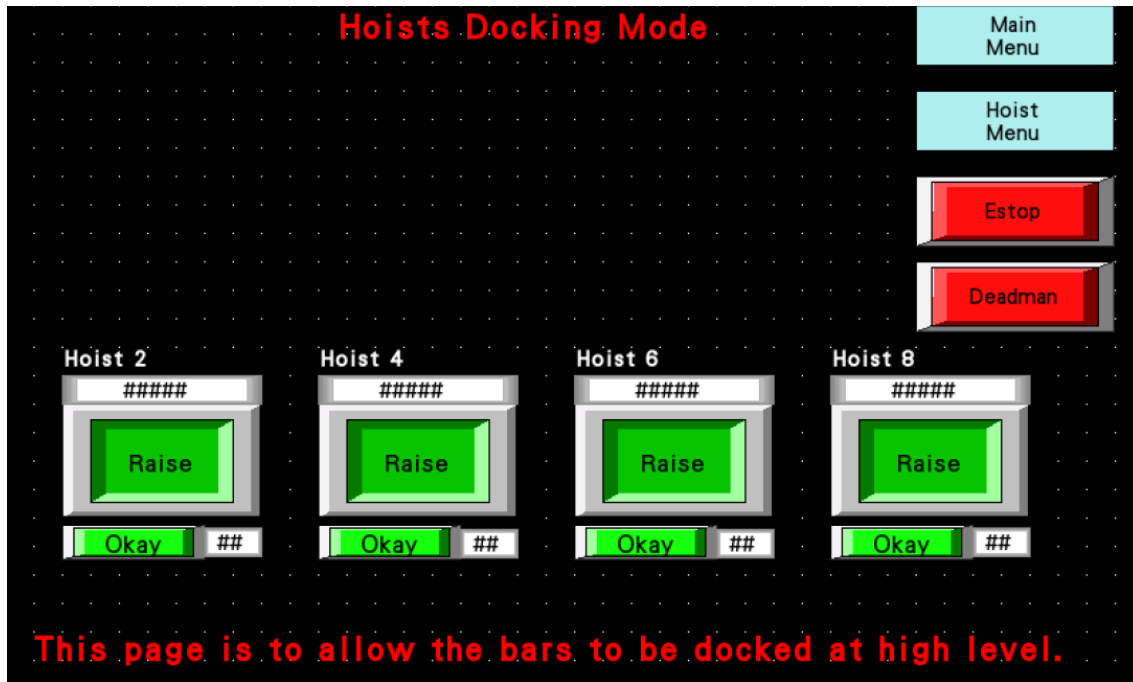
This page functions as above but for the perimeter bars.



### Hoists Docking

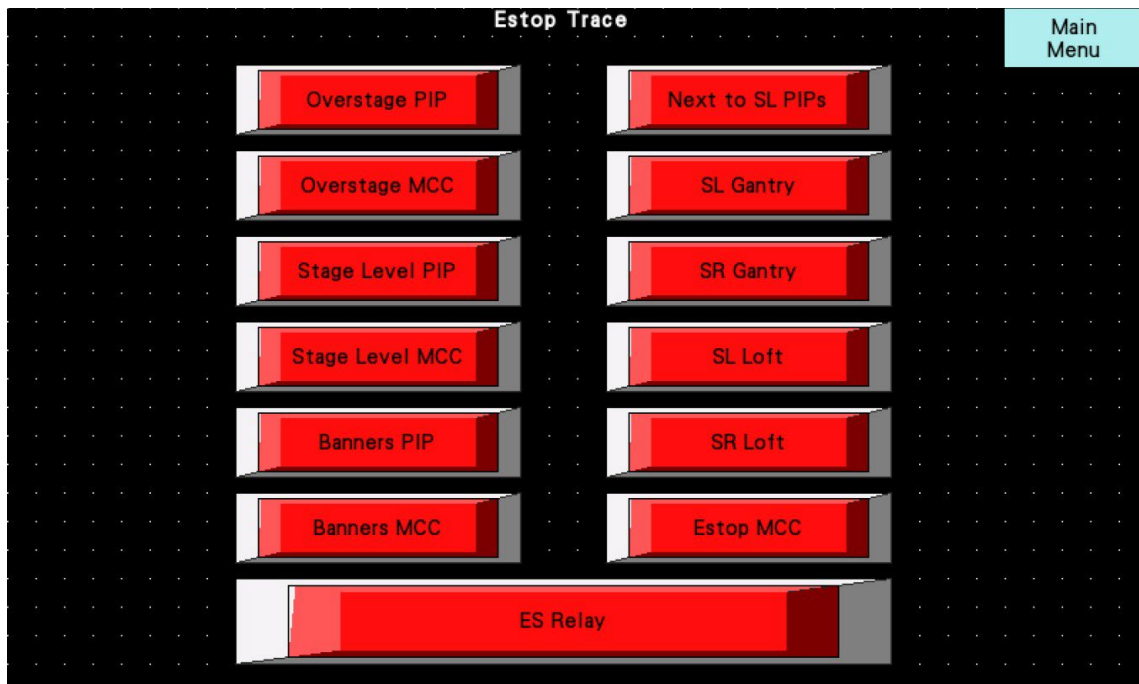
This mode allows cross stage bars 2, 4, 6, 8 to run tight upto the ceiling, into the ceiling recess. This page is password protected. The bars will only run at slow speed during this mode.

The bars must be de rigged of all objects which could clash with the ceiling before entering this mode.

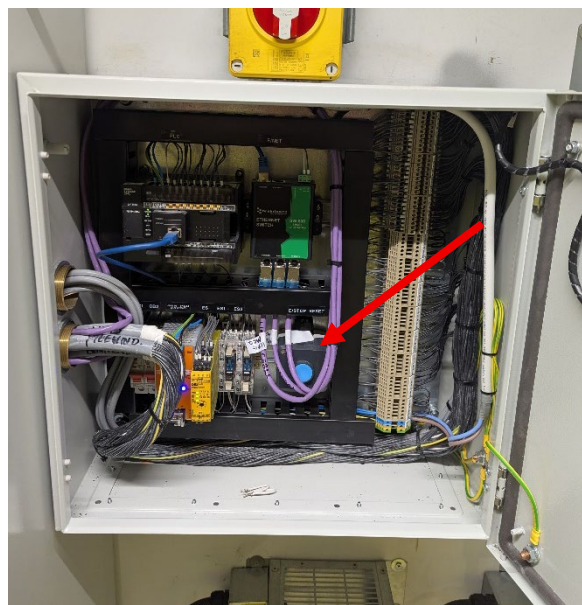


### Concert Hall – E Stop Trace

The following page can be used to identify any E Stops that are pressed.



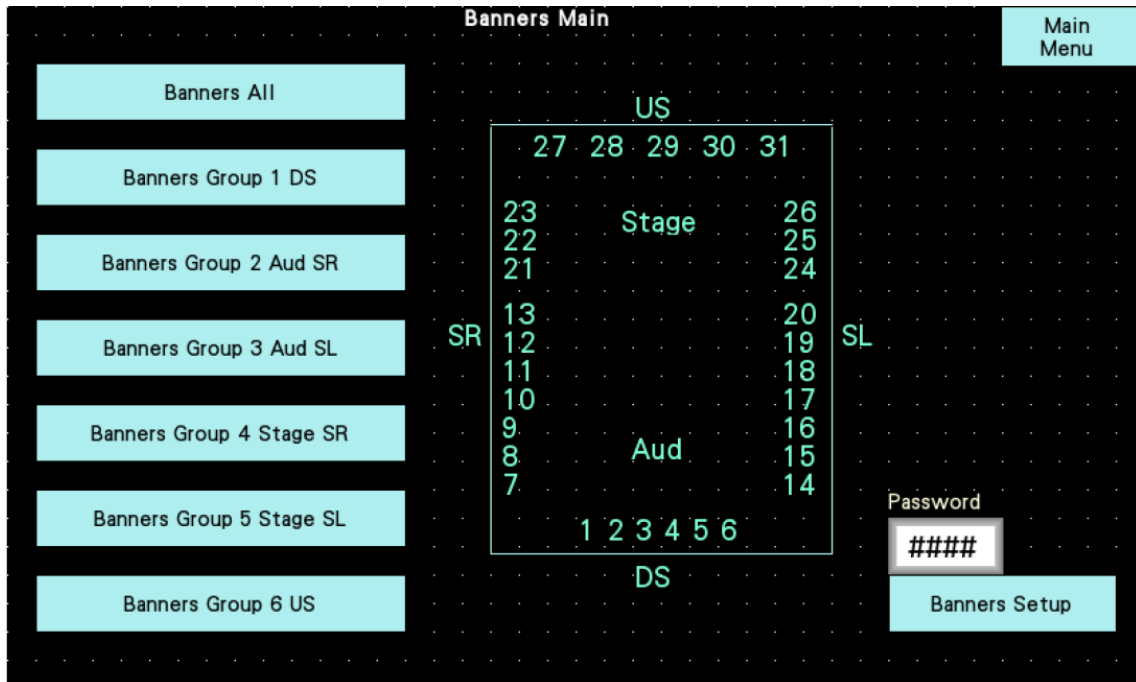
Should there be a fault with the Global Estop system such as the E Stop trace showing that the E Stop Relay is still on, even when all E Stops are not active, the first step should be to press the E Stop Reset button within the MCC. If this does not fix the issue all cabinets should be power cycled.



### **Concert Hall – Banners Main**

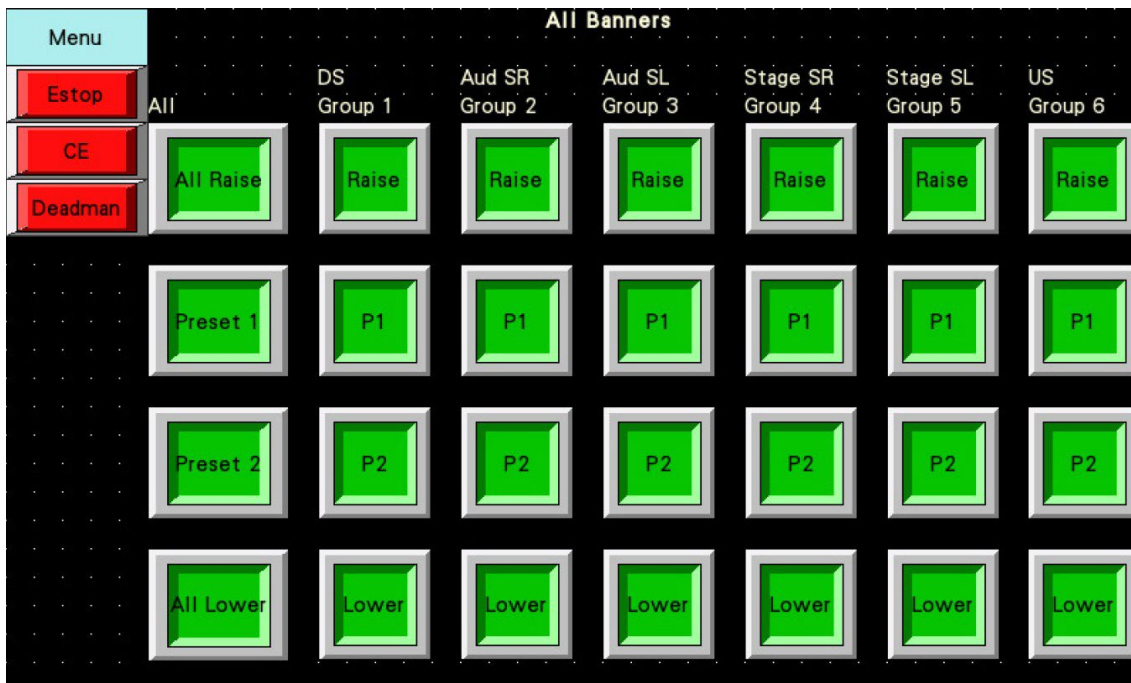
The following page is allows access to control the concert hall banners.

The map shows the location of all the banner mechanisms in the room. The operator should be aware that some of the banner mechanisms have two fabric banners on them, which may make identification more challenging.



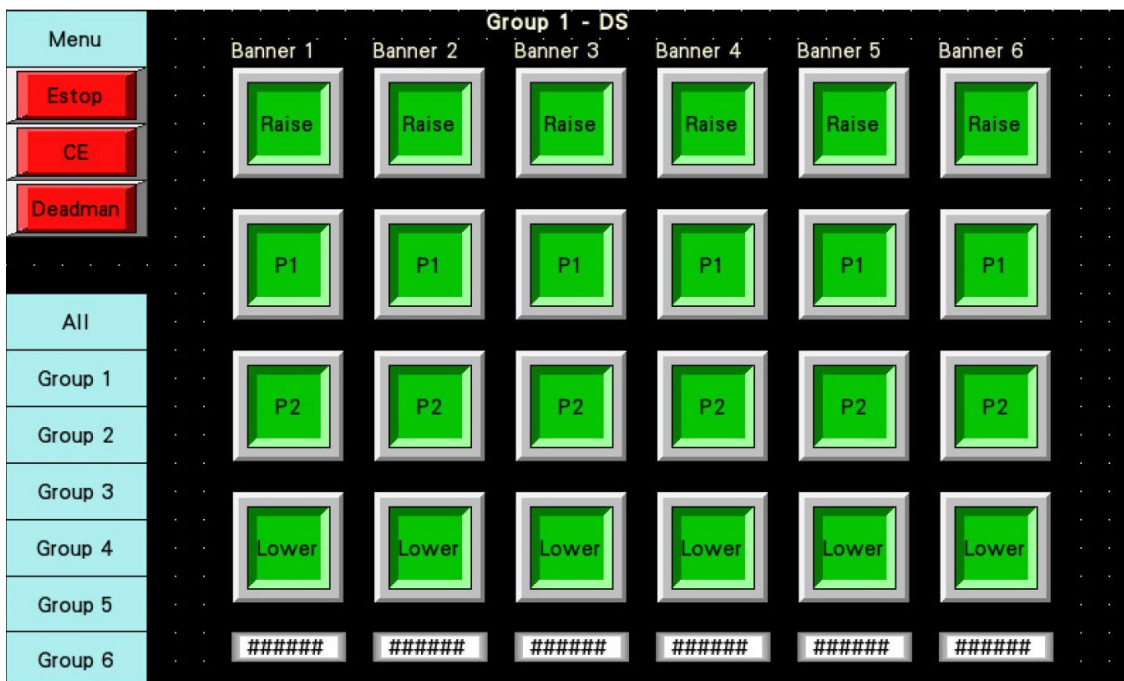
**Banners All**

Groups of banners can be run simultaneously to preset positions on this page. The button being pressed will change to yellow once the target position has been reached.



**Example Individual Control**

All the banners are grouped onto pages based on where they are located in the room. They can be run individually to positions. The button being pressed will change to yellow once the target position has been reached.



### Banner Setup

This page is password protected and is used to set up the banners.

All of the values on the left show the current encoder position.

To datum a banner the number should be entered in the “select banner for datum” box, the desired value input below it and then the orange datum button pressed.

Pressing any of the “Teach All” buttons will set the current position as the position for that preset.

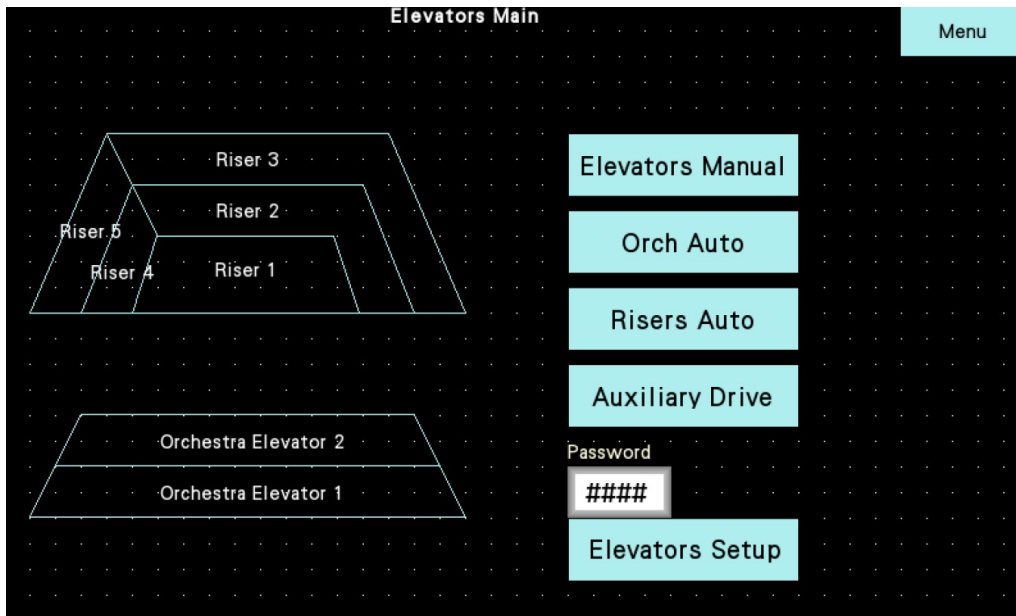
The “SOFT EOT” button is a toggle switch, if pressed this will swap from encoders acting as the working limits to the electro mechanical limits in the motor’s acting as the limits. This can be useful during maintenance and re datuming banners.



**Concert Hall – Elevators Main**

This page allows control of all understage machinery in the concert hall when plugged into the appropriate plug in point.

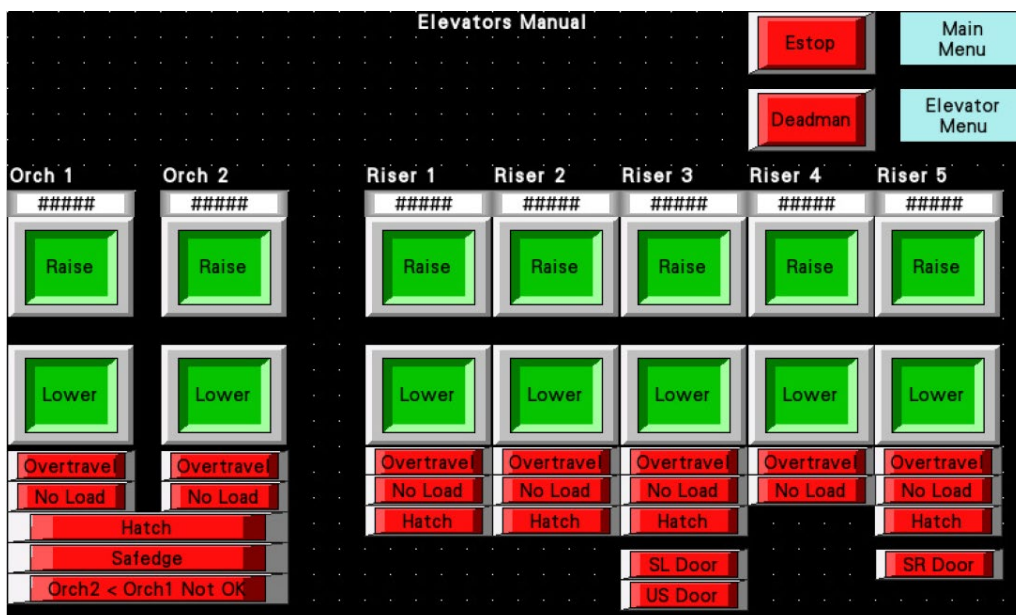
The lifts and risers do not move with synchronised motion.



**Elevators Manual**

This page allows manual control of the two orchestra lifts and the five risers. The lifts/risers will only run at slow speed in this mode. Should an End of Travel limit be struck the Raise or lower button will show yellow.

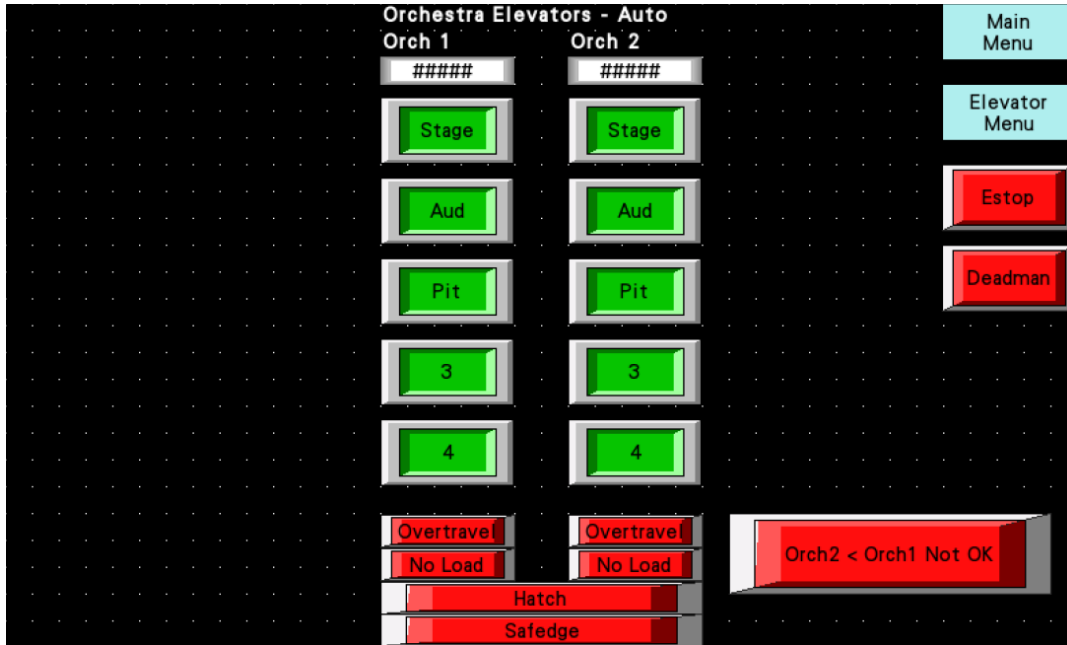
Safety features including door maglocks, overtravel limits, no load sensors, hatch sensors and safe edges are all shown on this page. A door being opening will stop movement on the adjacent lift only. Hatch sensors being red restricts movement of all risers or all lifts as appropriate.



**Orch Auto**

This page allows the lifts to be run to encoder pre sets at high speed.

Orchestra lift 2 cannot go below orchestra lift 1 as this would create an unprotected shear edge.

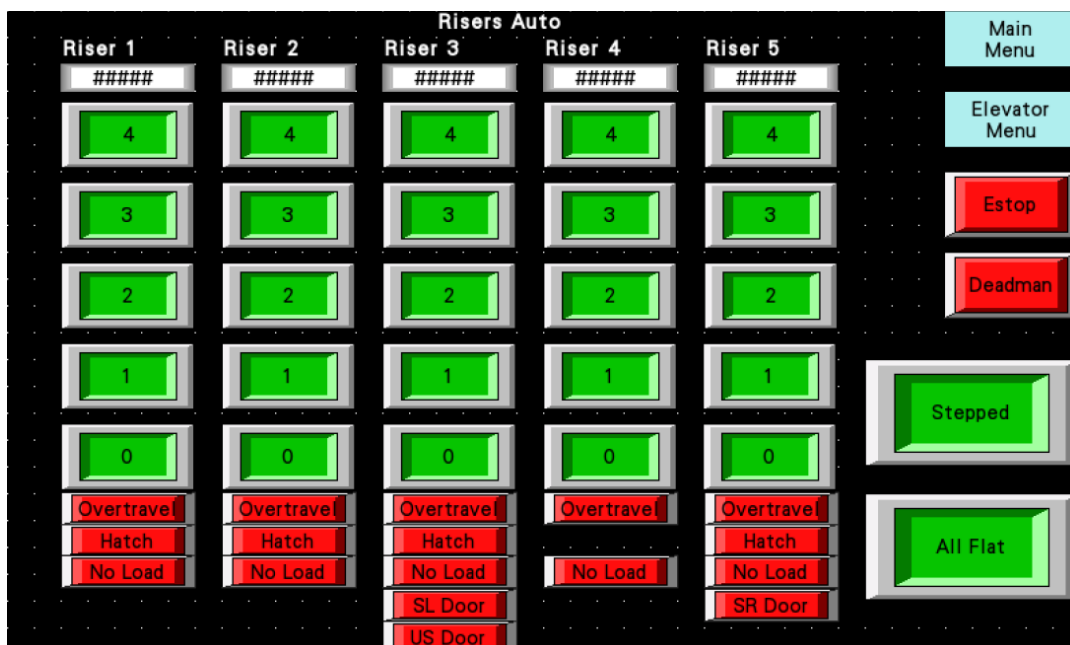


**Risers Auto**

This page allows the risers to be run to encoder pre sets at high speed. 0 being level with the floor.

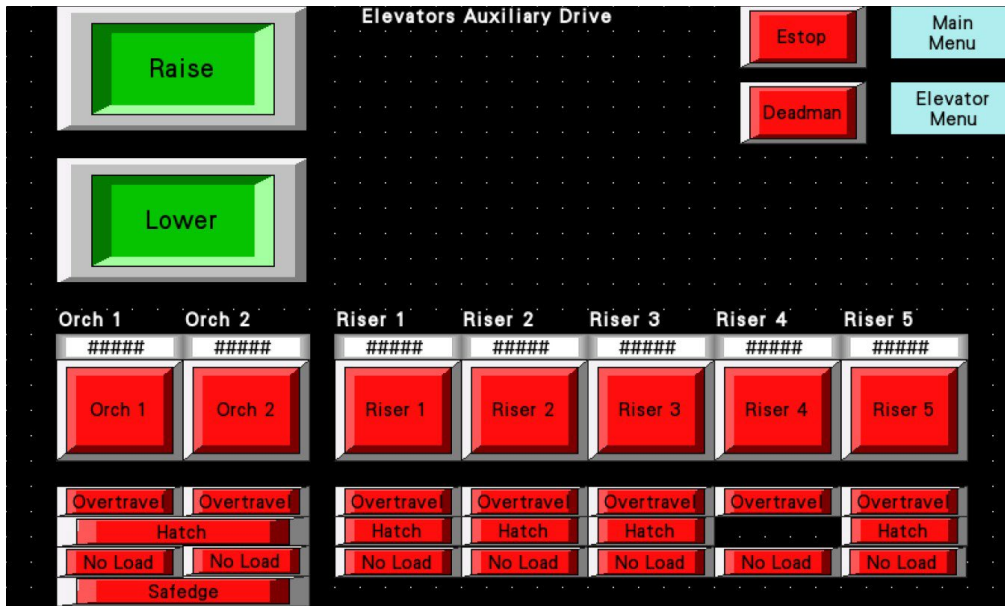
Group control is also possible through the use of the stepped and all flat format buttons. The all flat button will send the lifts the positions defined on the elevator setup page, under preset "Stage/0".

Note: Riser 4 does not have a hatch.



### Auxiliary Drive

This page allows the back up drive to be used to move a single elevator at low speed. An elevator can be selected and run from the auxiliary drive as needed. Note that the Auxiliary drive circuit breaker is turned off in the panel, so to use this function it will need turning on.

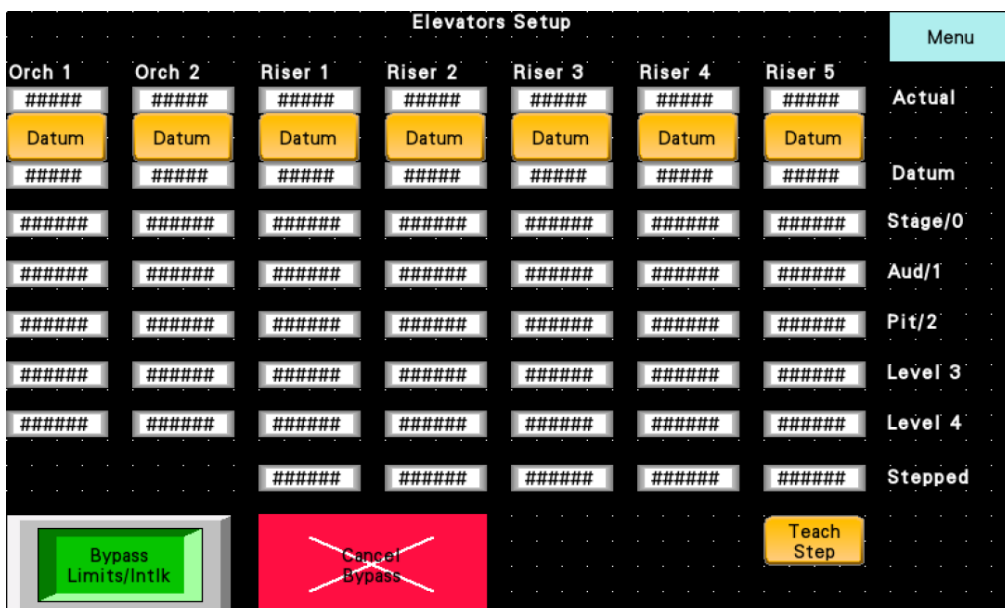


### Elevators Setup

This page is password protected and is used to datum the lifts and set the levels for each preset. Values can be typed into the relevant white cells. The yellow datum position will set the current position to zero.

The “Teach Step” button will fill in the riser “Stepped” preset values to the current lift positions.

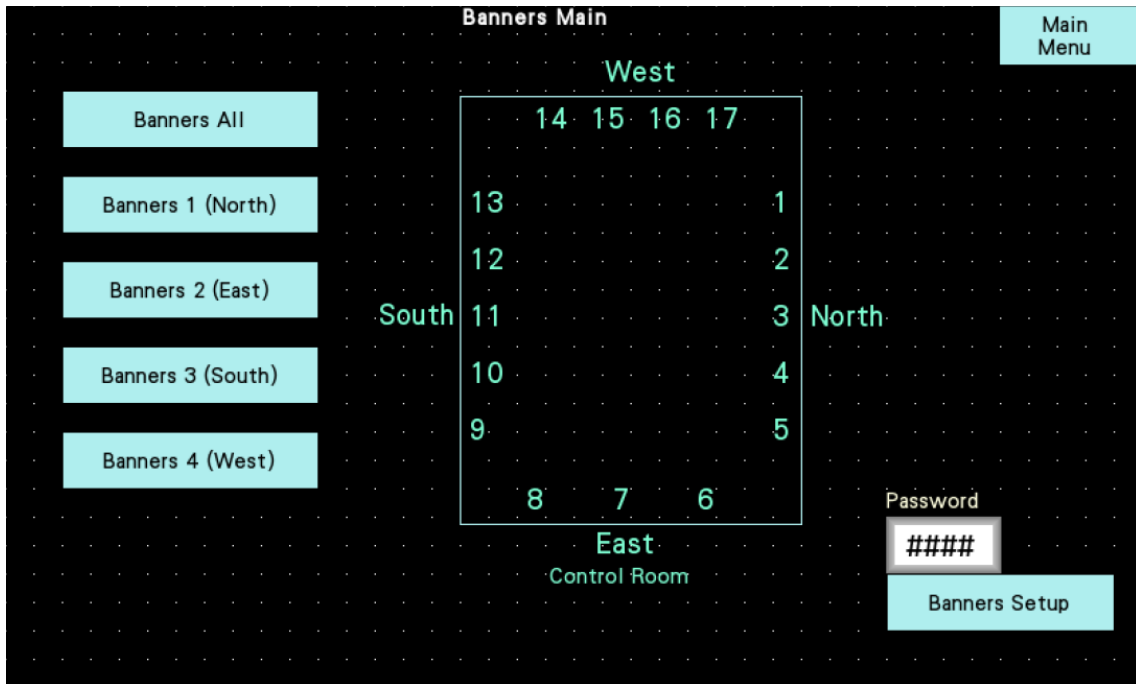
The “Bypass limits, overload” button should only be used under special circumstances such as maintenance. It is not for normal operation, its use should be restricted.



**Black Box Roller Banners – Main Page**

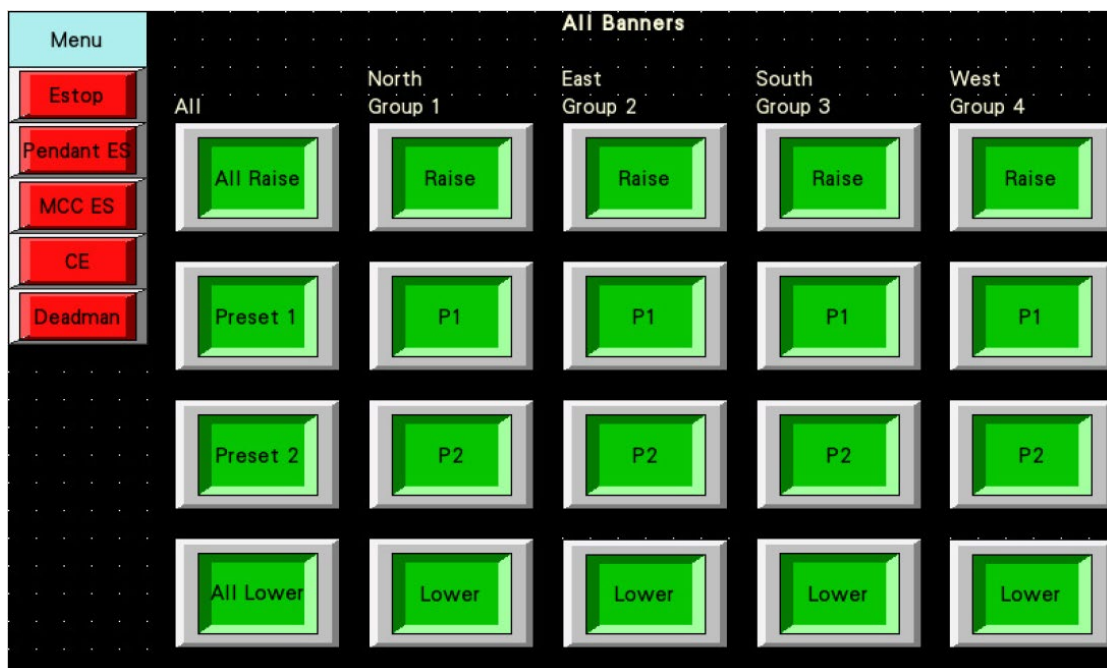
The following page is allows access to control the Black Box banners.

The map shows the location of all the banner mechanisms in the room. The operator should be aware that some of the banner mechanisms have two fabric banners on them, which may make identification more challenging. Note the location of the Control Room to help with orientation.



**Black Box - Banners All**

Groups of banners can be run simultaneously to preset positions on this page. The button being pressed will change to yellow once the target position has been reached.



**Black Box – Banner Individual Control**

All the banners are grouped onto pages based on where they are located in the room. They can be run individually to positions. The button being pressed will change to yellow once the target position has been reached.



### Black Box – Banner Setup

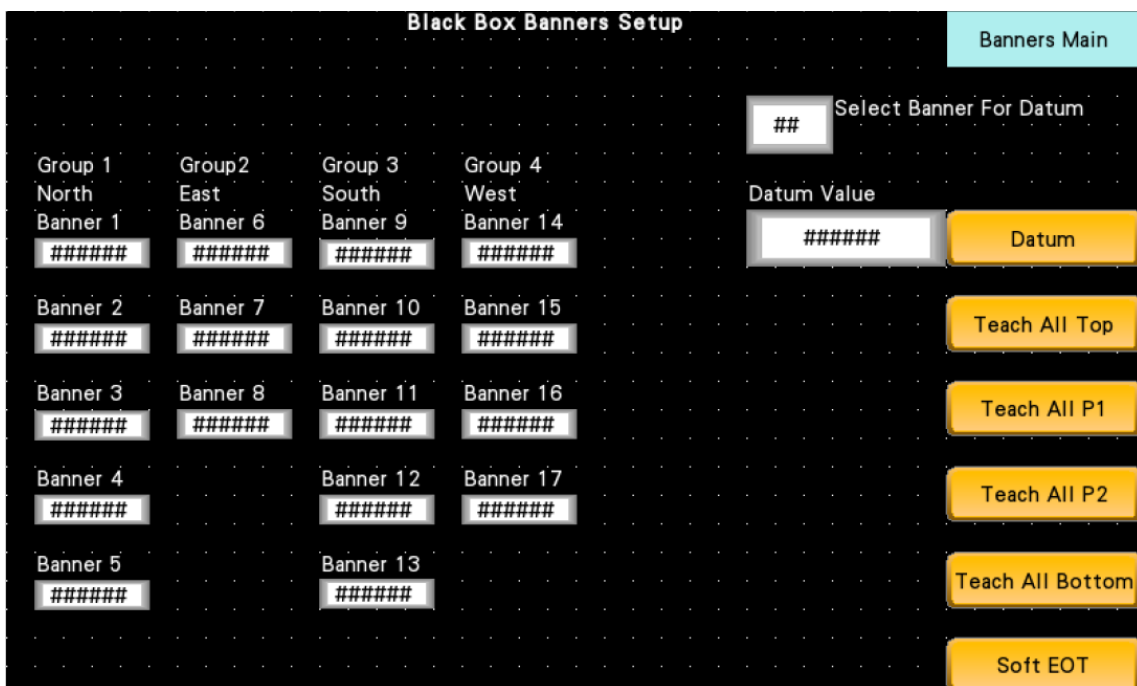
This page is password protected and is used to set up the banners.

All of the values on the left show the current encoder position.

To datum a banner the banner ID number should be entered in the “select banner for datum” box, the desired value input below it and then the orange datum button pressed.

Pressing any of the “Teach All” buttons will set the current position as the position for that preset.

The “SOFT EOT” button is a toggle switch, if pressed this will swap from encoders acting as the working limits to the electro mechanical limits in the motor’s acting as the limits. This can be useful during maintenance and re datuming banners.

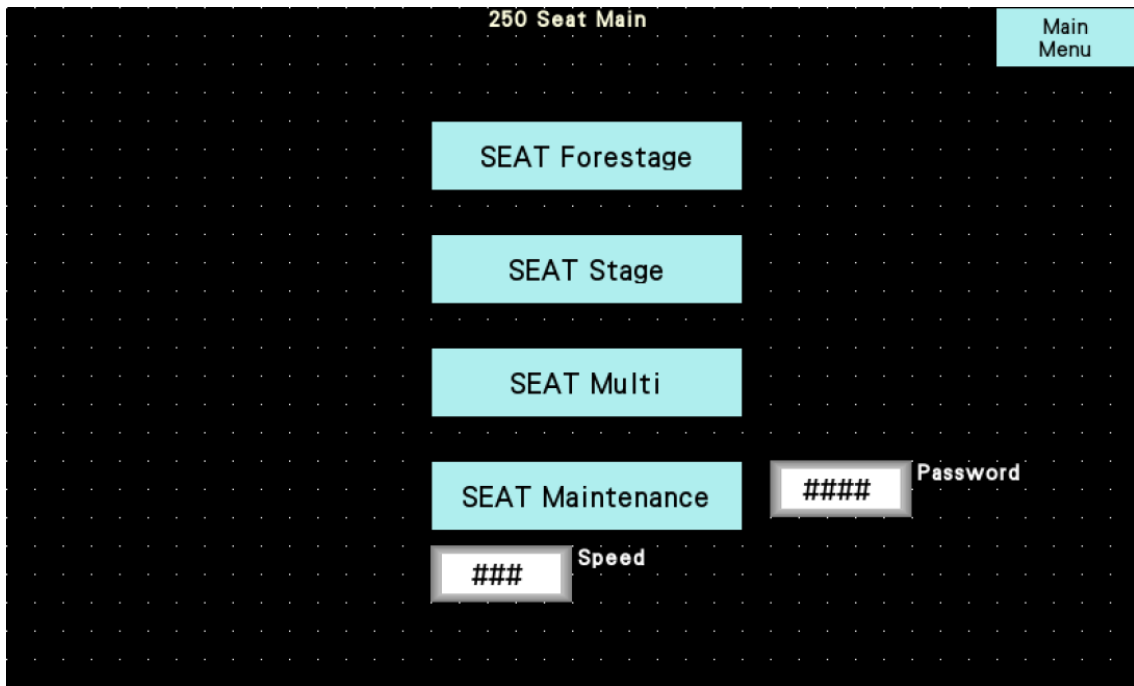


**250 Seat Theatre – Main Page**

This page allows control of the over stage hoists in the 250 Seat Theatre.

The “Seat Maintenance” page is password protected.

The hoist speed is set on this page. This speed carries through to all hoists. The number can be set between 50 and 999.



**Seat Forestage**

The hoists in the 250 do not have encoders, so there is no positional feedback. The hoists will run until the End of Travel limits are struck.

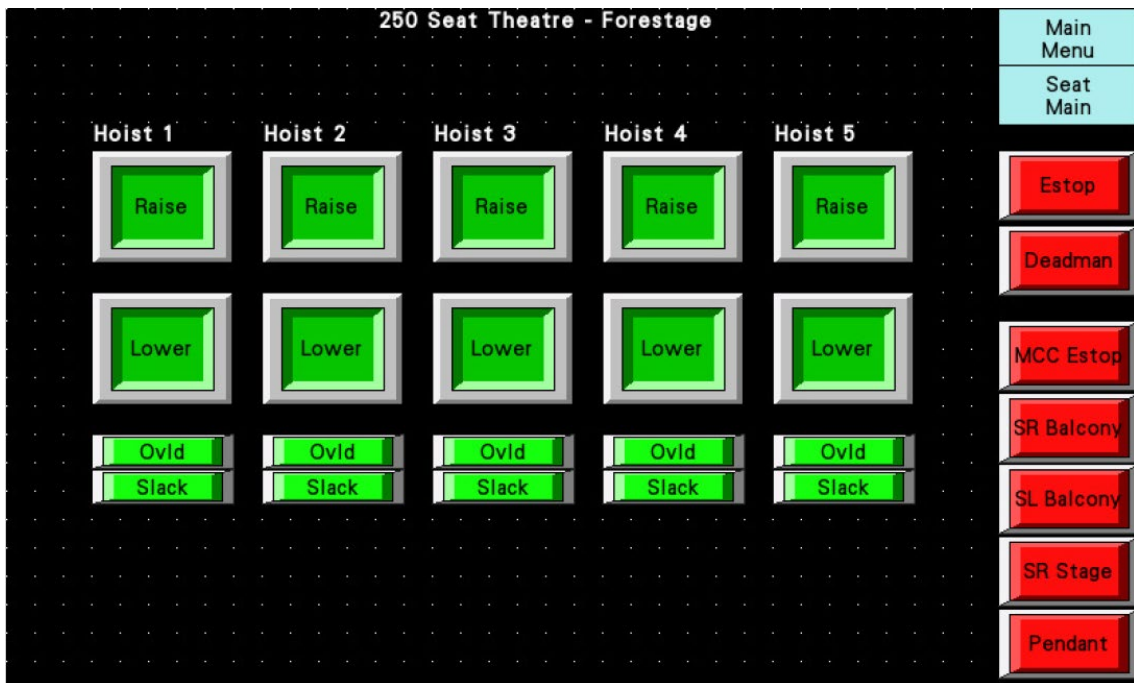
This page controls the hoists over the auditorium/demountable rostra.

Due to the small number of E Stops in this room individual E Stop indicators are present on the right of the page, for each button.

Raise or lower will illuminate yellow when the end of travel limit is reached.

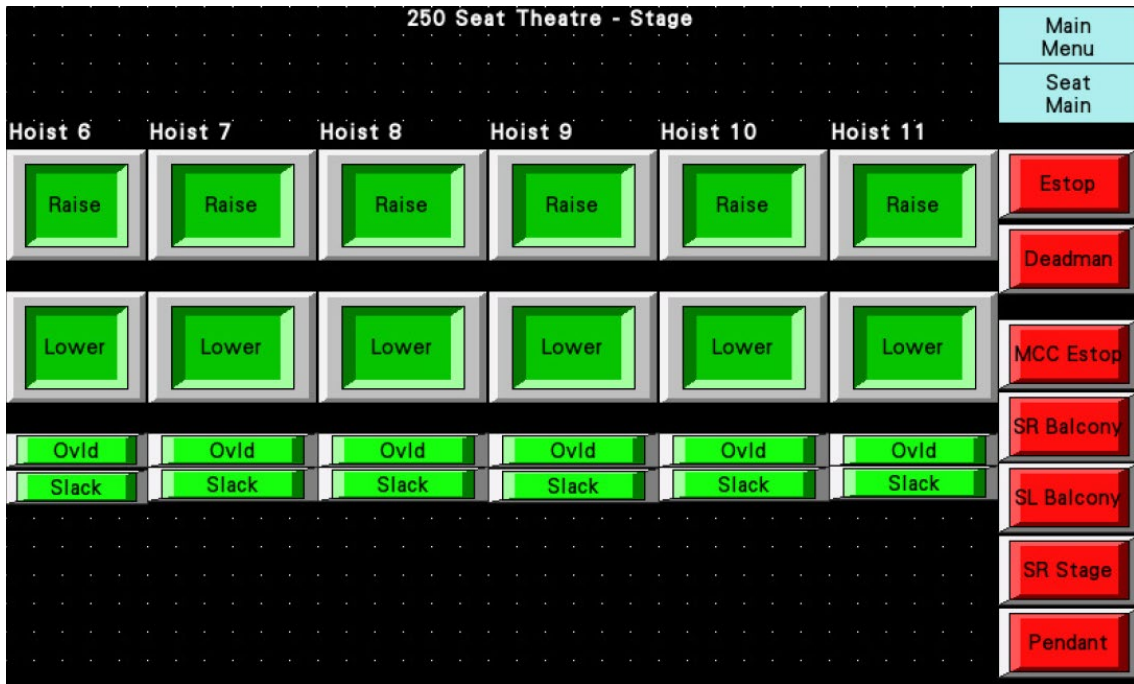
If both Raise and Lower illuminate yellow this indicates that an Ultimate limit has been struck. This should not happen under normal operation. Investigation into why this has happened is needed.

“Okay” will show any status messages and illuminate red, if needed.



### Seat Stage

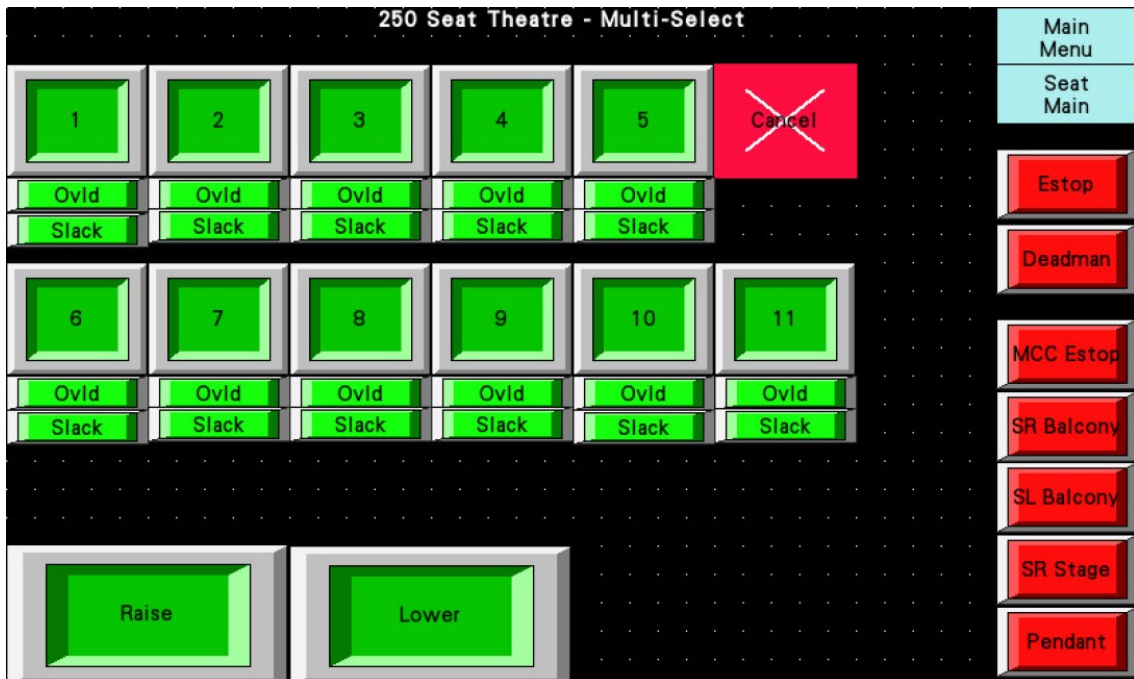
This page controls the hoists over the stage only.



### Seat Multi

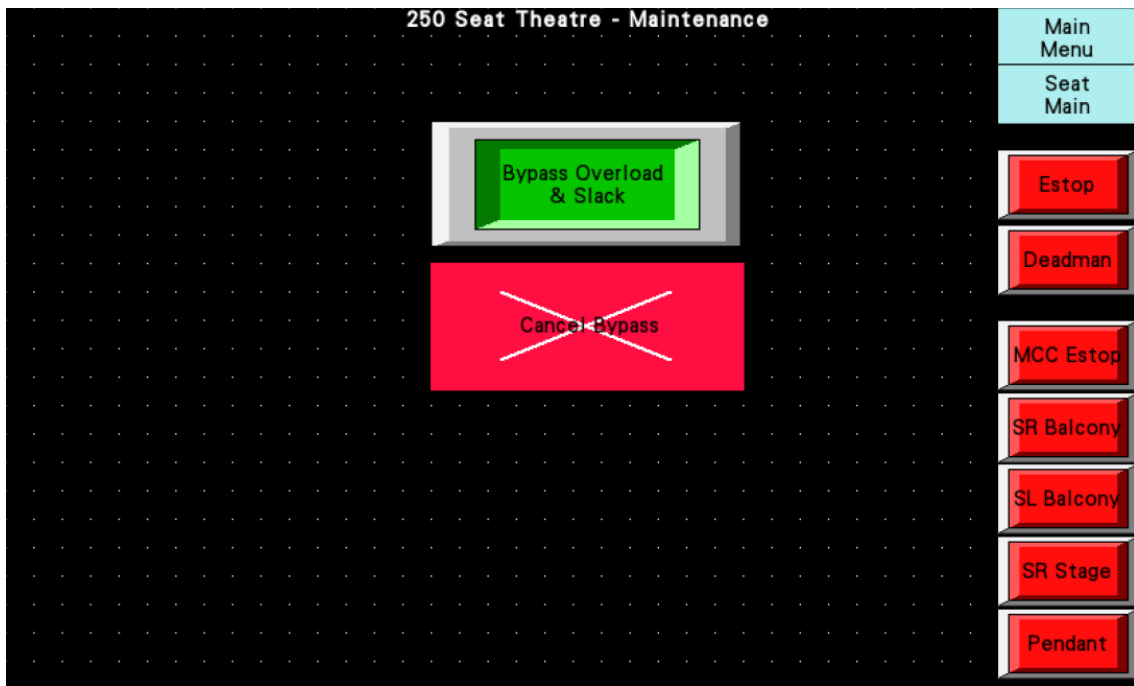
This allows hoists to be toggled on and run simultaneously.

“Cancel” will clear any selected hoists.



### Seat Maintenance

This password protected page allows the limits, overload and slackline sensors to be bypassed.





## 7.2. ML01 Check Sheet

### Control System

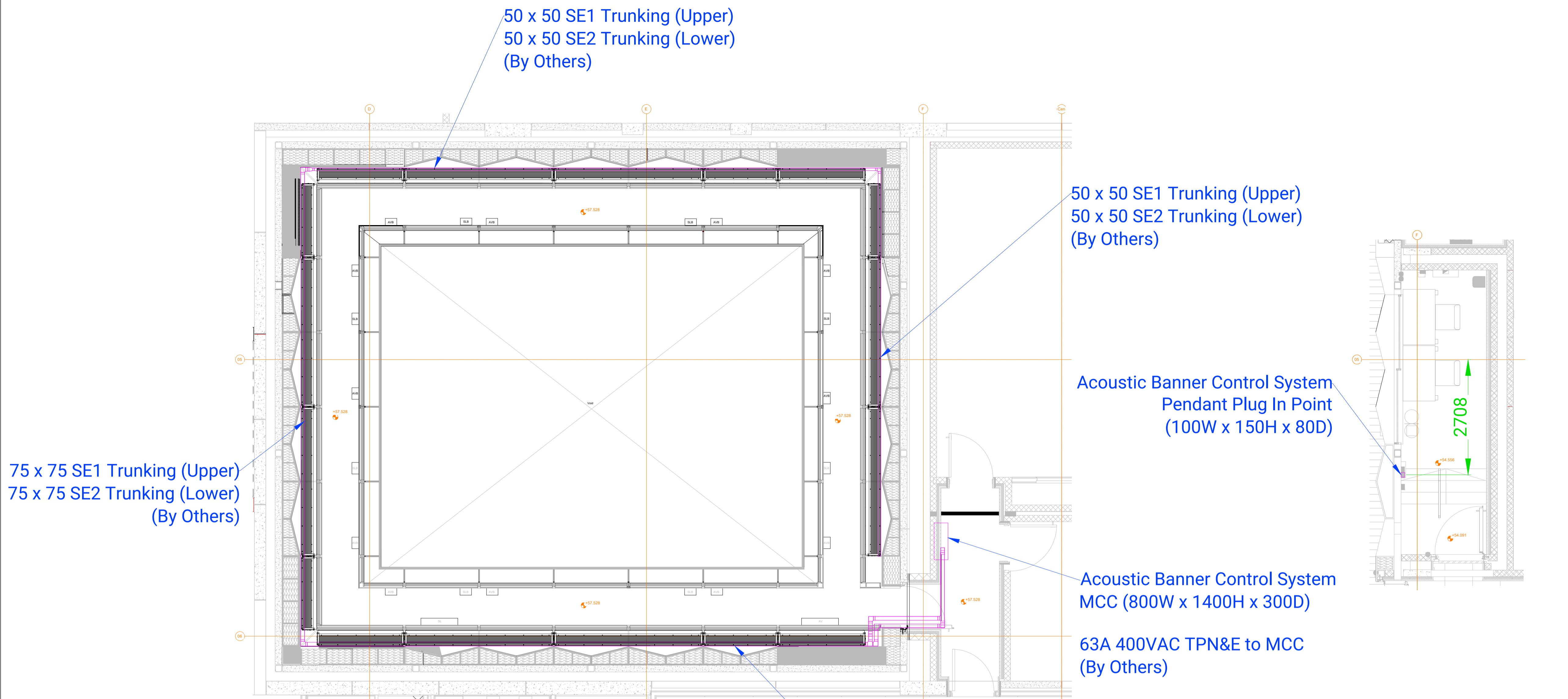
		Pass	Fail	Rectified	N/A
<b>1</b>	<b>Appearance</b>				
1.1	Check equipment is neat and tidy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2	Check equipment is clean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2</b>	<b>General</b>				
2.1	Check equipment for signs of water damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.2	Check equipment for signs of any other damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3</b>	<b>Electrical</b>				
3.1	Check E-Stop function	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.2	Check all cables to control and MCC are undamaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.3	Check all cables are fixed away from snag risks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.4	Check the isolators operate freely	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.5	Check all cable glands are secure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.6	Check all lids or covers are fitted and all screws are present	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.7	Check all containment is closed and untampered with	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.8	Clean the screens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.9	Check the functionality of all limits.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## 8. Referenced Drawings

Drawings are shown overleaf

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	AM	FIRST ISSUE	14/05/2024
P02	SH	REVISED	06/08/2024
C01	SH	REVISED	02/09/2024
C02	SH	For Record	28/04/2025

- Notes:
- Banner schedule listed in the material submission.
  - Should be read in conjunction with the following drawings:
    - UOONHB-JCJ-BB-BM-DR-OT-180001
    - UOONHB-JCJ-BB-BM-DR-OT-180002
    - UOONHB-JCJ-BB-ZZ-DR-OT-180003
    - UOONHB-JCJ-BB-ZZ-DR-OT-180004
  - Base drawing used
    - UOONHB-HAL-BB-BM-DR-A-005001\_P01
    - UOONHB-HAL-BB-ZZ-DR-A-005303\_C01
    - UOONHB-HAL-BB-BM-DR-A-005305\_C01
  - Roller Banner mechanism and drop rollers are to be of RAL 7024 (Graphite Grey) in Blackbox space.
  - Bracket and Fixing method to wall shown on drawing UOONHB-JCJ-BB-BM-DR-OT-180004.
  - Primary containment SE1 & SE2 to be provided by others
  - 400VAC TPN&E 63A power supply to MCC to be provided by others



75 x 75 SE1 Trunking (Upper)  
75 x 75 SE2 Trunking (Lower)  
(By Others)

50 x 50 SE1 Trunking (Upper)  
50 x 50 SE2 Trunking (Lower)  
(By Others)

50 x 50 SE1 Trunking (Upper)  
50 x 50 SE2 Trunking (Lower)  
(By Others)

Acoustic Banner Control System  
Pendant Plug In Point  
(100W x 150H x 80D)

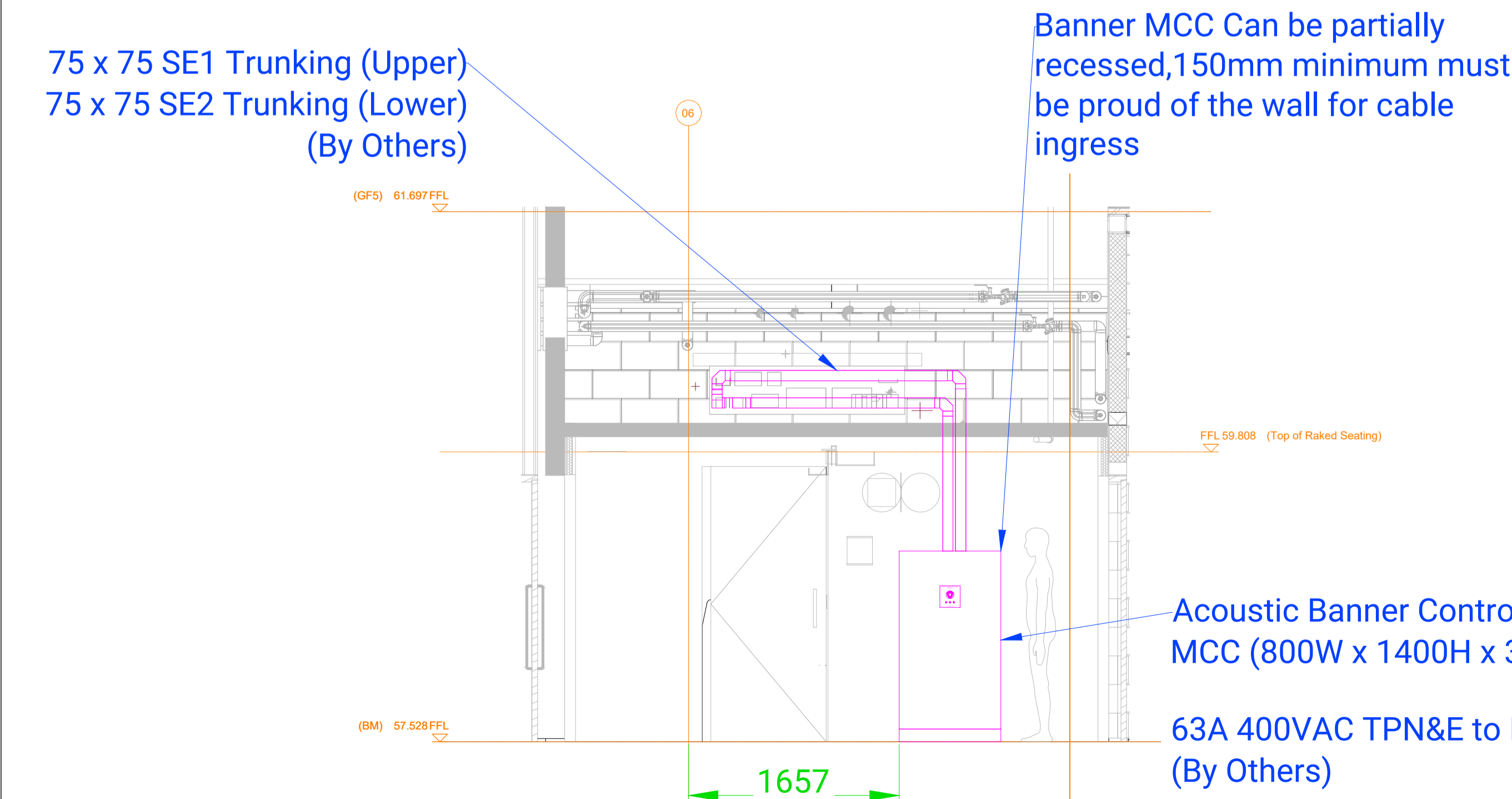
Acoustic Banner Control System  
MCC (800W x 1400H x 300D)

63A 400VAC TPN&E to MCC  
(By Others)

Plan - Black Box (Level BM)

105 x 55 SE1 Cable basket (Upper)  
105x 55 SE2 Cable basket (Lower)  
By Others

Plan - Control Room



75 x 75 SE1 Trunking (Upper)  
75 x 75 SE2 Trunking (Lower)  
(By Others)

Banner MCC Can be partially recessed, 150mm minimum must be proud of the wall for cable ingress

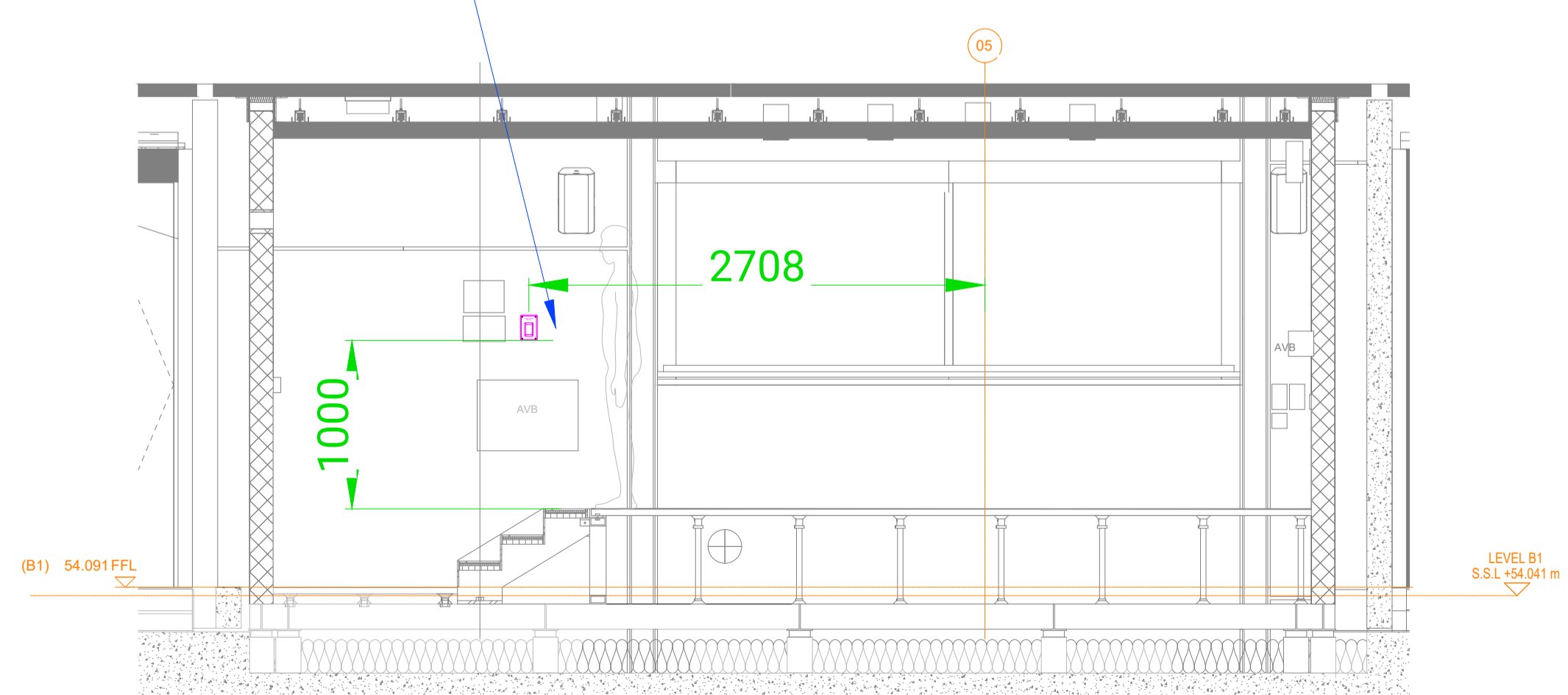
Acoustic Banner Control System  
Pendant Plug In Point  
(100W x 150H x 80D)

Acoustic Banner Control System  
MCC (800W x 1400H x 300D)

63A 400VAC TPN&E to MCC  
(By Others)

Scale 1:50

Elevation - Lobby (Level BM)



Elevation - Control Room

Status:  
A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	1 : 50	PAPER SIZE:	A1

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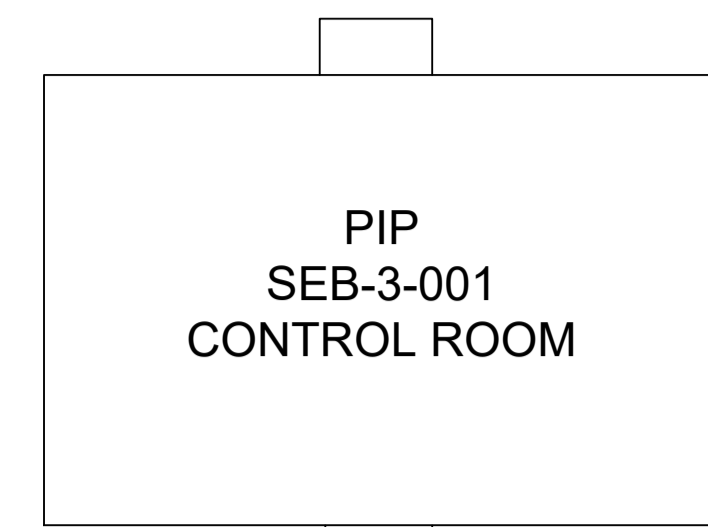
PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-GA-99-0301
CLIENT NO.	UOONHB-JCJ-BB-ZZ-DR-OT-990301
TITLE	Black Box Control Layout General Arrangement
PURPOSE	A5 - Accepted as Suitable for Record
REV	C02

REVISIONS

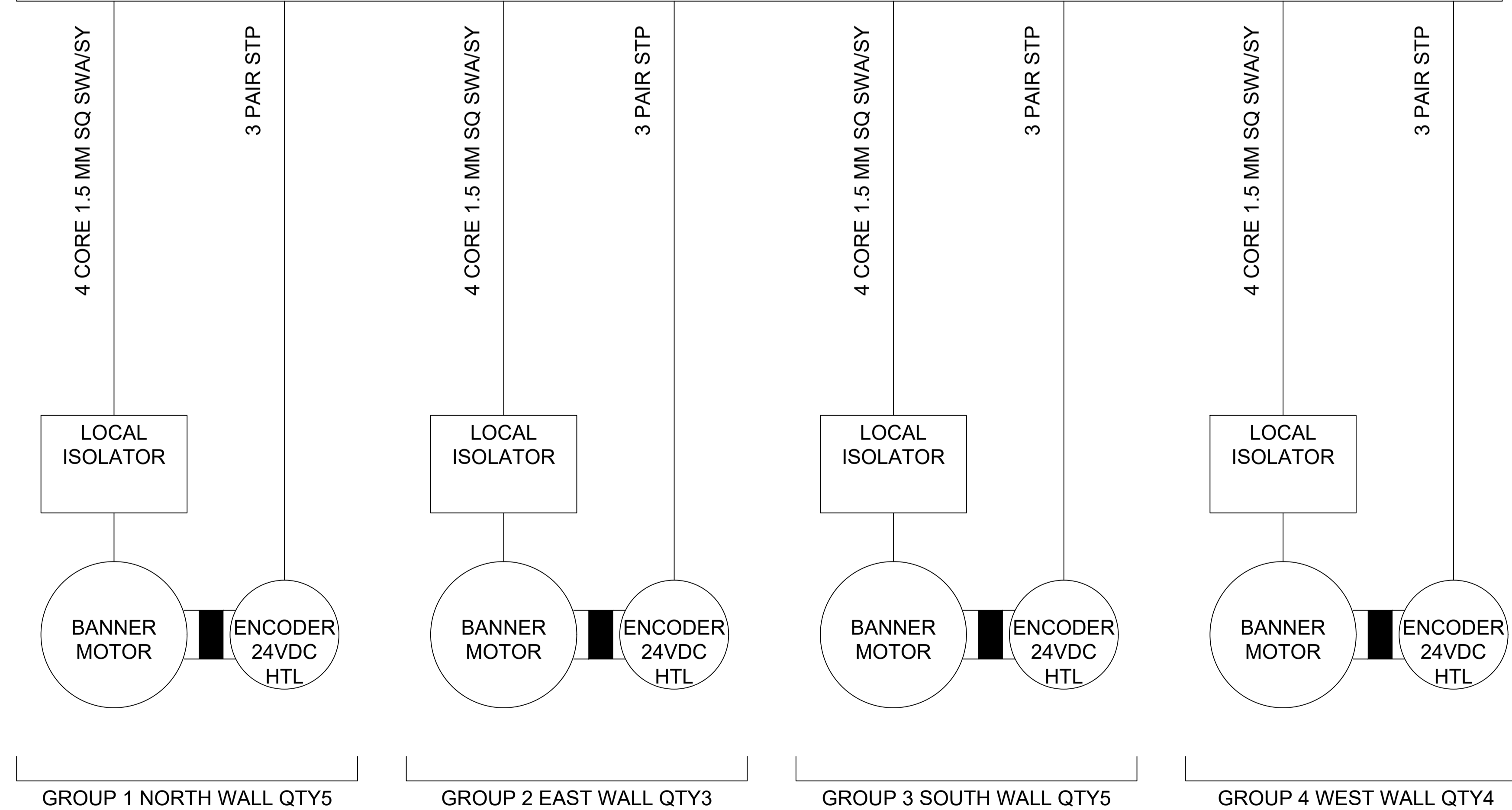
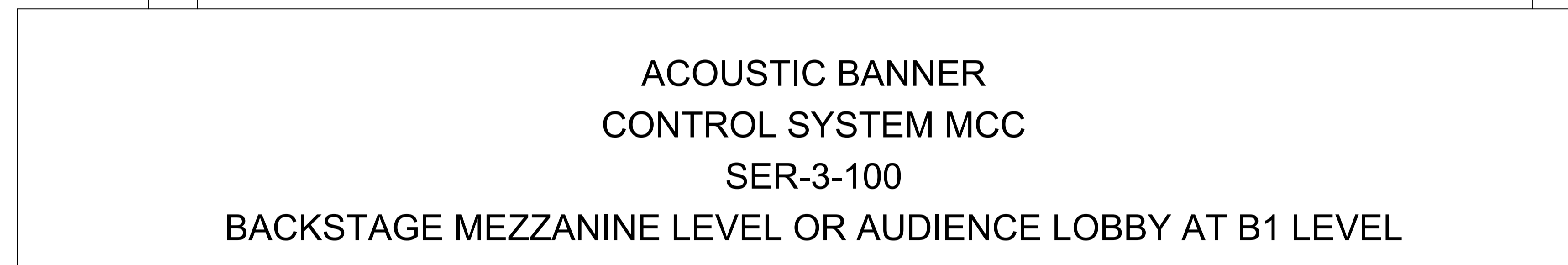
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	04/01/2024
C01	PT	Response to Consultant's Comments & For Construction	01/04/2024
C02	JC	OUES SCHEDULE ADDED	03/06/2024
C03	SH	FOR RECORD	28/04/2025

Notes:

SERVICE  
 ES-SE-322  
 400VAC TPN&E  
 63A 50HZ  
 OUES CIRCUIT REFERENCE: B1/017/112/11L123  
 FLC: 40A



11 CORE 0.75mm sq YY  
 CAT6



Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S	PAPER SIZE:	A1

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PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0311
CLIENT NO.	U00NHB-JCJ-BB-ZZ-DR-OT-990311

TITLE	Black Box Control System Line Diagram
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PURPOSE	A5 - Accepted as Suitable for Record
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REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	04/01/2024
C01	PT	Response to Consultant's Comments & For Construction	01/04/2024
C02	SH	FOR RECORD	28/04/2025

Notes:

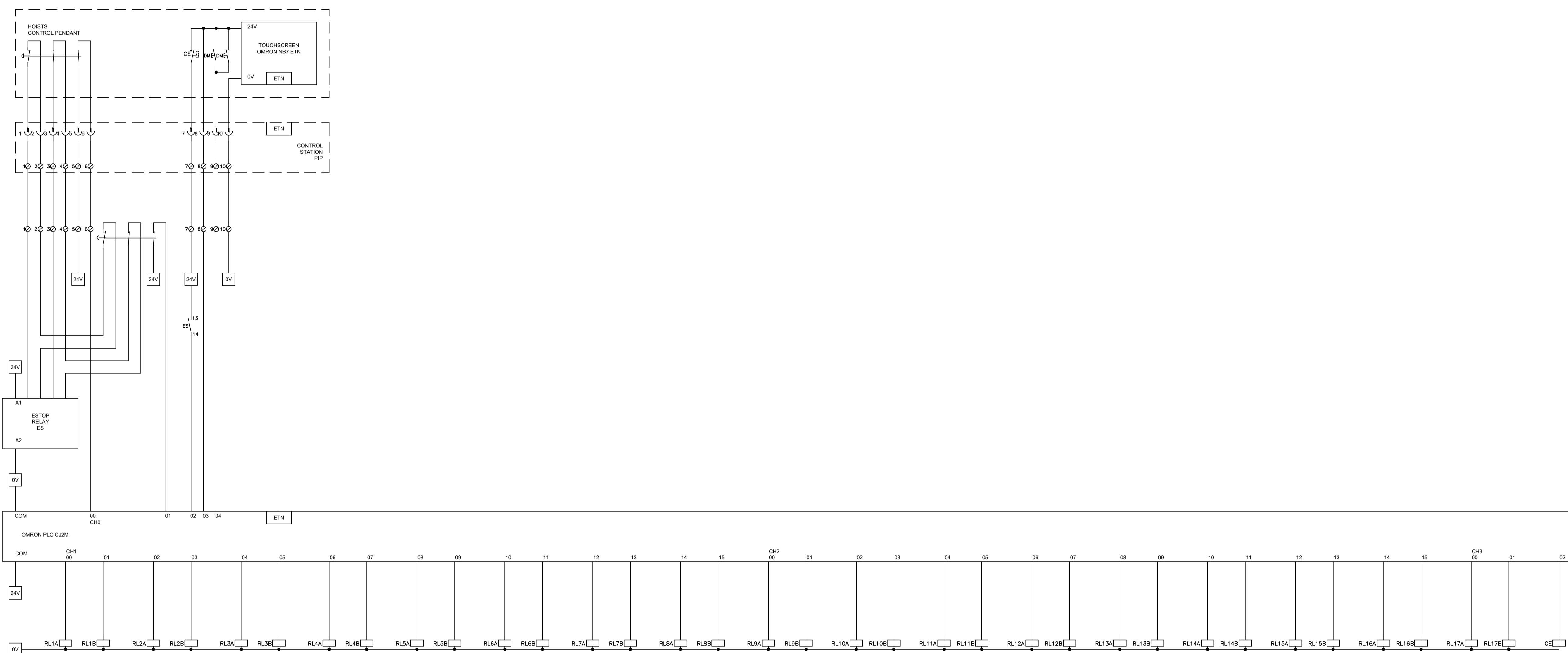
Status:  
 A -       B -       C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S	PAPER SIZE:	A1

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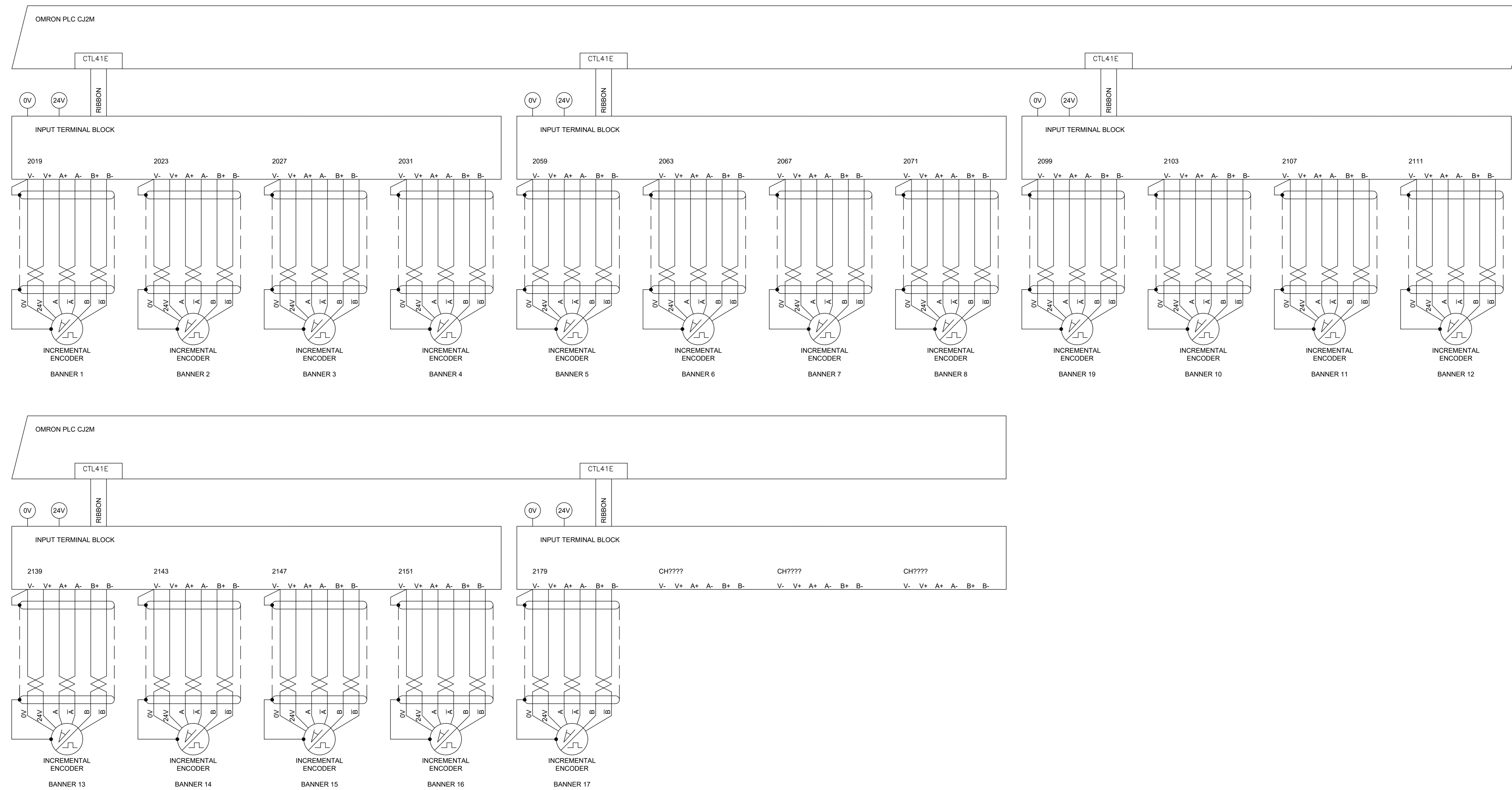
PROJECT	4334 - Oxford Humanities		
JCJ NO.	4334-DE-99-0313		
CLIENT NO.	U00NHB-JCJ-BB-ZZ-DR-OT-990313		
TITLE	Black Box Control System Control Diagram 1		
PURPOSE	A5 - Accepted as Suitable for Record		
		REV	C02



Scale N.T.S.

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	04/01/2024
C01	PT	For Construction	02/04/2024
C02	JC	NOTE CHANGE	03/06/2024
C03	SH	FOR RECORD	28/04/2025
C04	SH	FOR RECORD	14/08/2025

Notes:



Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	14/08/2025
CHECKED:	JC	DATE:	14/08/2025
APPROVED:	OS	DATE:	14/08/2025
SCALE:	N.T.S	PAPER SIZE:	A1

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PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0314
CLIENT NO.	U00NHB-JCJ-BB-ZZ-DR-OT-990314

TITLE	Black Box Control System Control Diagram 2
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PURPOSE	A5 - Accepted as Suitable for Record
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Scale N.T.S.

REVISIONS

REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	04/01/2024
P02	PT	Response to Consultant's Comments	01/04/2024
C01	JC	OUES SCHEDULE ADDED	03/06/2024
C02	SH	FOR RECORD	28/04/2025

Notes:

Label on door for OUES reference to be; B1/017/112/11L123

Location of MCCs & E-Stops; UOONHB-JCJ-BB-ZZ-DR-OT-990301

Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	1:3	PAPER SIZE:	A1

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PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-GA-99-0315
CLIENT NO.	UOONHB-JCJ-BB-ZZ-DR-OT-990315

TITLE	Black Box Control System General Arrangement
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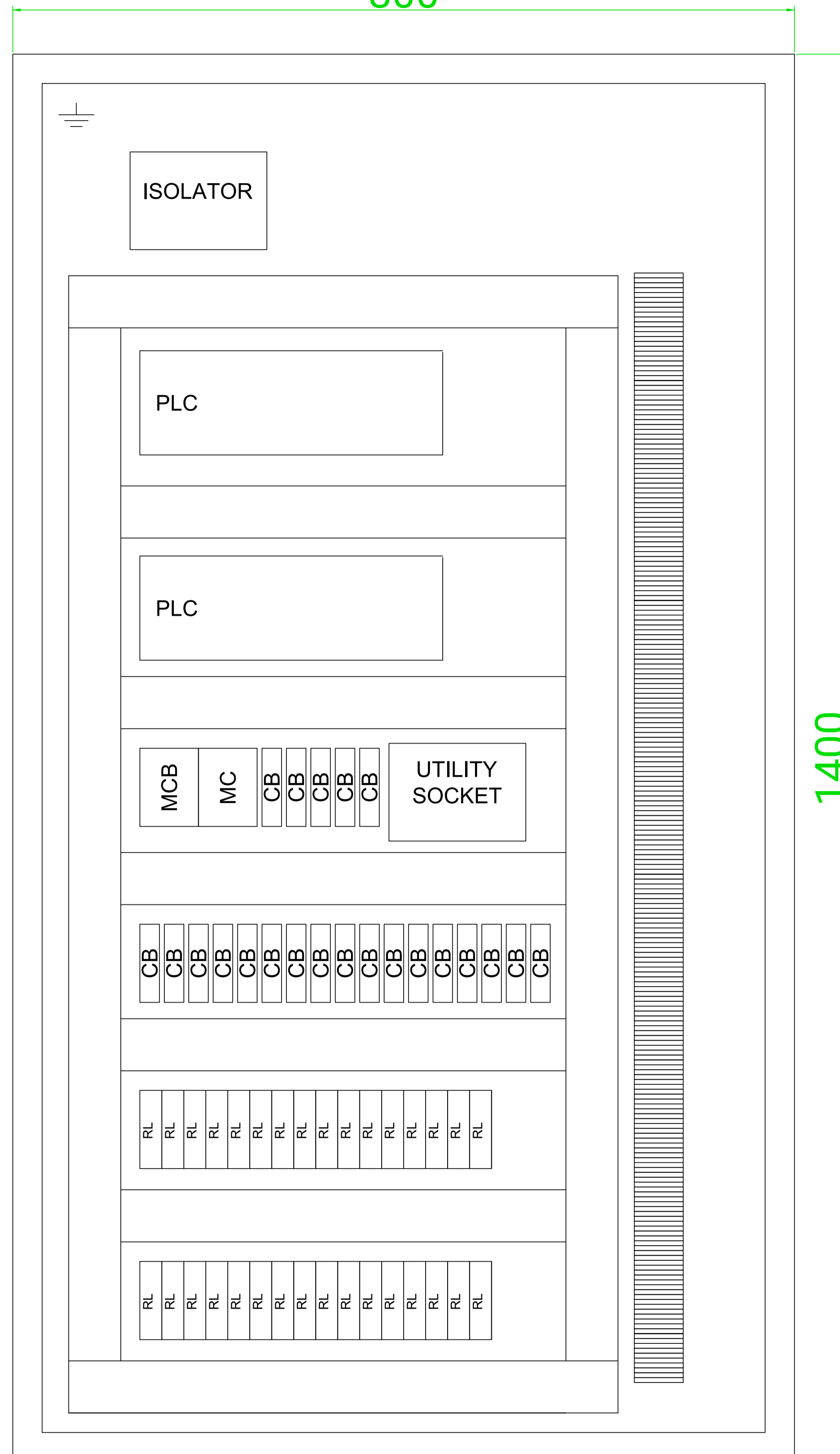
PURPOSE	A5 - Accepted as Suitable for Record
---------	--------------------------------------

REV C02

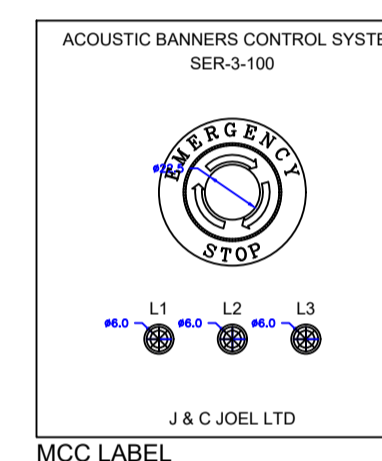
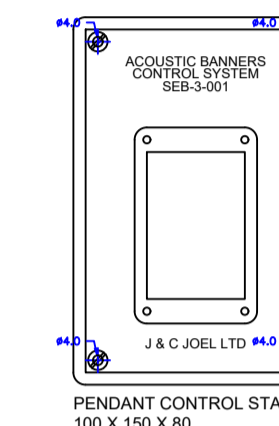
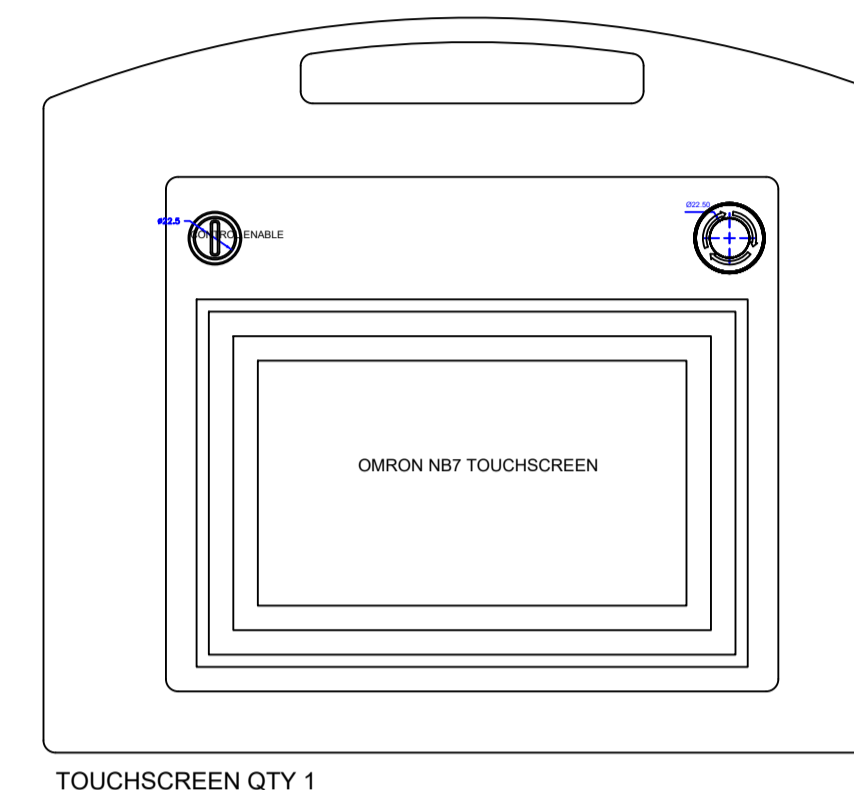
800

1400

Depth: 300

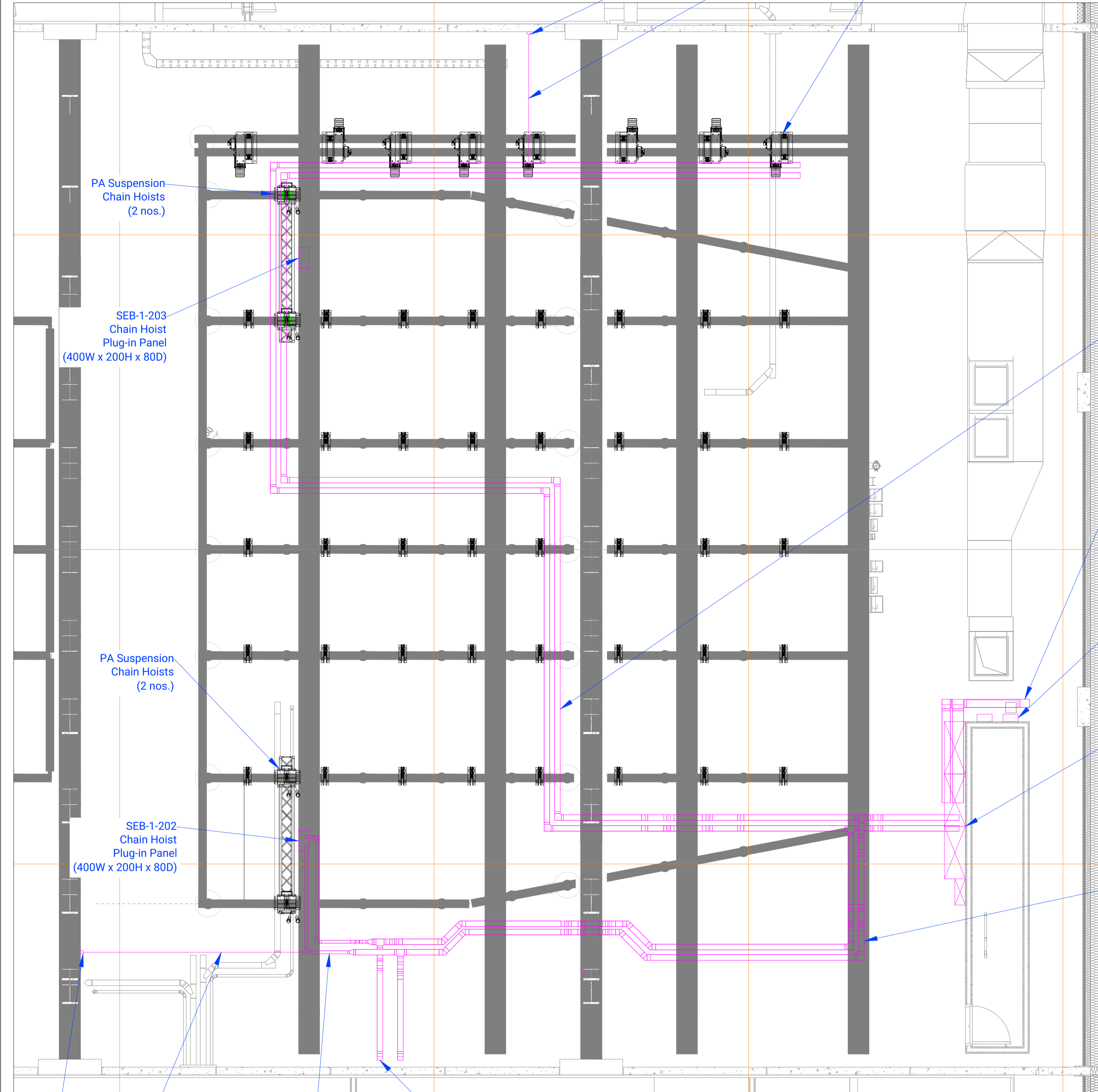


ACOUSTIC BANNERS MCC  
1NO 1400 X 800 X 300

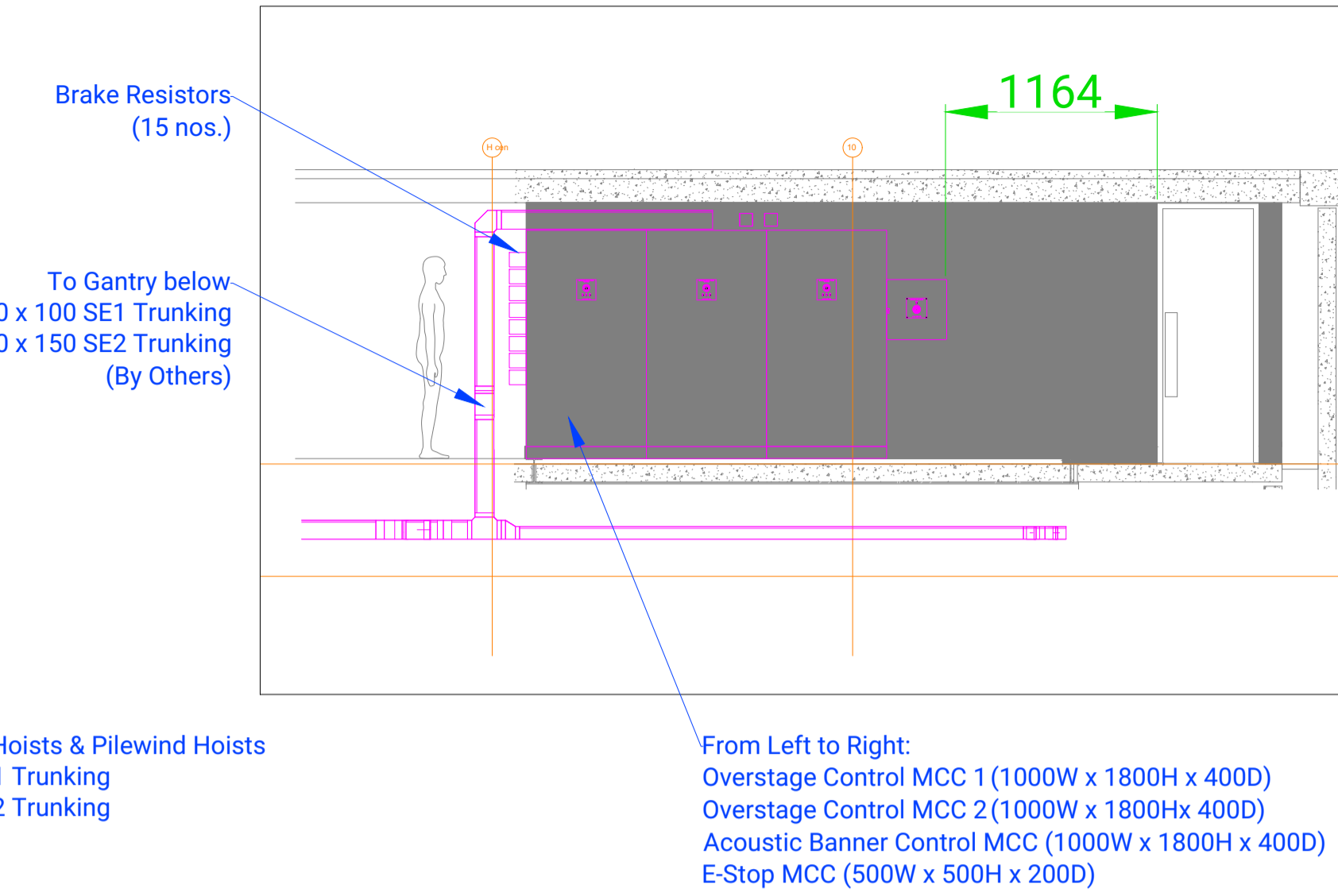


Scale 1:3

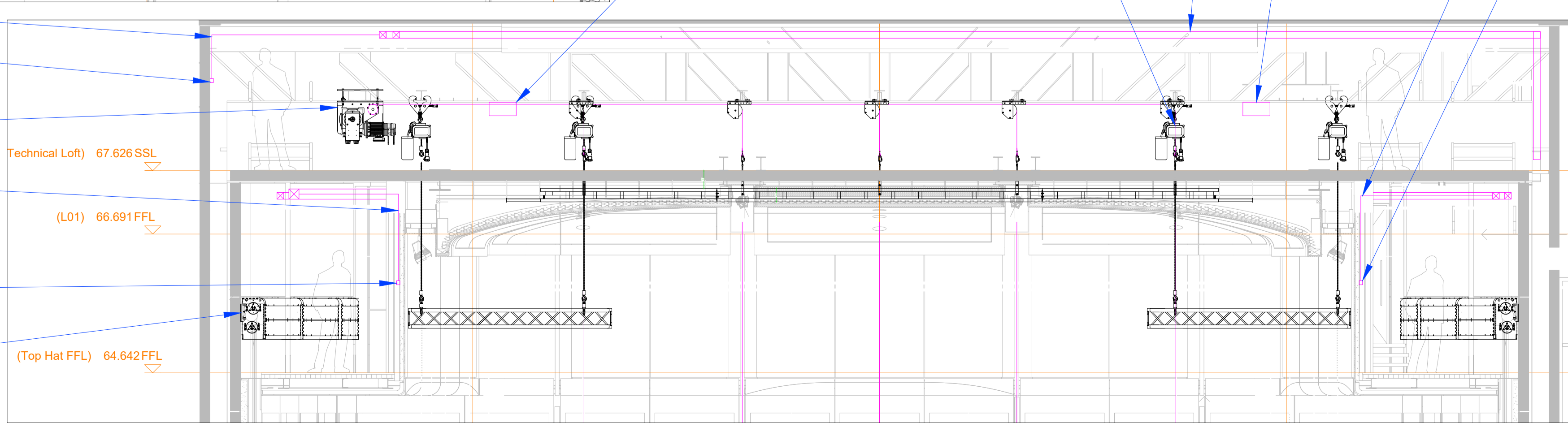
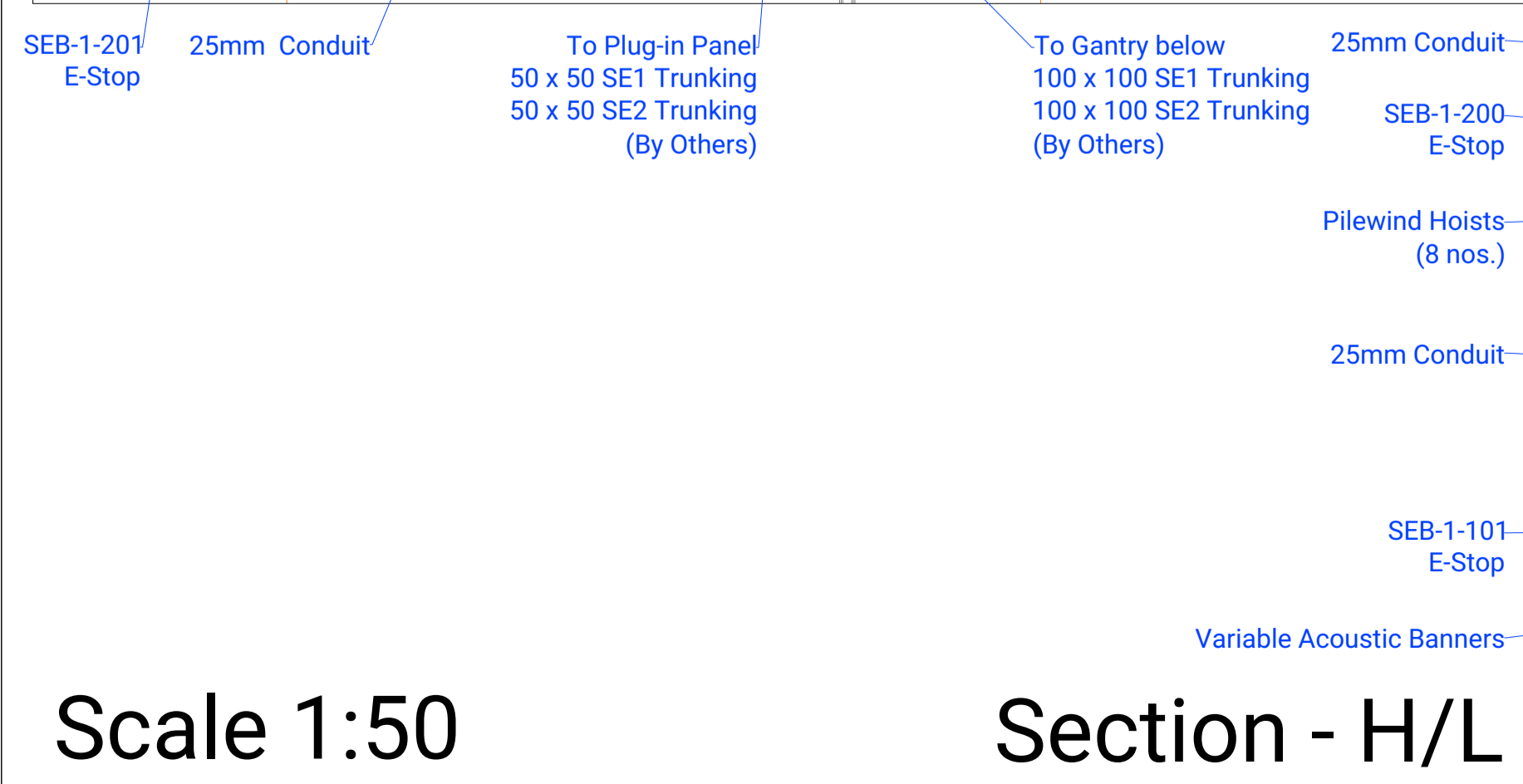
# Plan - Concert Hall (Technical Loft)



# Elevation - MCCs



- Power Requirement (By Others) :**
- Overstage Control MCC 1 & 2  
400VAC TPN&E 125A 50Hz
  - Acoustic Banner Control MCC  
400VAC TPN&E 64A 50Hz
  - E-Stop MCC  
200VAC 1PN&E 10A



Scale 1:50

## Section - H/L

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REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	AM	FIRST ISSUE	17/05/2024
C01	JC	CONSTRUCTION ISSUE	18/09/2024
C02	SH	FOR RECORD	28/04/2025

- Notes:
- Stage Engineering Equipment schedule listed in the material submission.
  - Should be read in conjunction with the following drawings:
    - UOONHB-JCJ-CH-ZZ-DR-OT-020001 ~ 003
    - UOONHB-JCJ-CH-01-DR-OT-030002
    - UOONHB-JCJ-CH-ZZ-DR-OT-030003 ~ 004
    - UOONHB-JCJ-CH-BM-DR-OT-040001
    - UOONHB-JCJ-CH-ZZ-DR-OT-040002 ~ 003
    - UOONHB-JCJ-CH-ZZ-DR-OT-990111 ~ 115
    - UOONHB-JCJ-CH-ZZ-DR-OT-990121 ~ 125
    - UOONHB-JCJ-CH-ZZ-DR-OT-990141 ~ 142
  - Base drawing used
    - UOONHB-HAL-CH-01-DR-A-005634\_P03
    - UOONHB-HAL-CH-ZZ-DR-A-005005\_C02
  - Primary containment SE1 & SE2 provided by others

Status:  
 A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	1 : 50	PAPER SIZE:	A1

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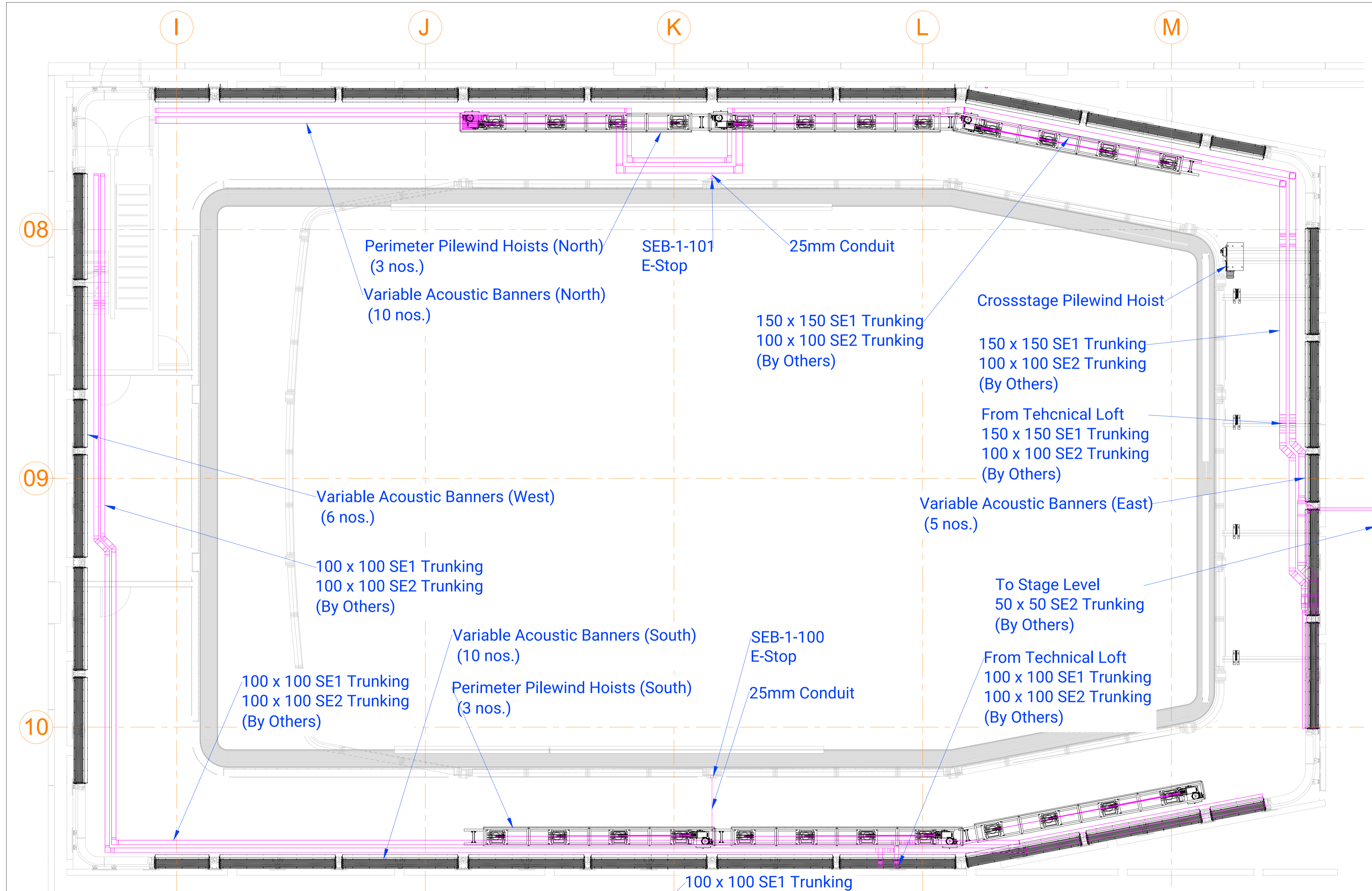
PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-GA-99-0101
CLIENT NO.	UOONHB-JCJ-CH-ZZ-DR-OT-990101
TITLE	Concert Hall Control Layout Technical Loft
PURPOSE	A5 - Accepted as Suitable for Record
REV	C02

# Plan - Concert Hall (Gantry)

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REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	AM	FIRST ISSUE	17/05/2024
C01	JC	CONSTRUCTION ISSUE	18/09/2024
C02	SH	FOR RECORD	28/04/2025

- Notes:
- Stage Engineering Equipment schedule listed in the material submission.
  - Should be read in conjunction with the following drawings:
    - UOONHB-JCJ-CH-ZZ-DR-OT-020001 ~ 003
    - UOONHB-JCJ-CH-01-DR-OT-030002
    - UOONHB-JCJ-CH-ZZ-DR-OT-030003 ~ 004
    - UOONHB-JCJ-CH-BM-DR-OT-040001
    - UOONHB-JCJ-CH-ZZ-DR-OT-040002 ~ 003
    - UOONHB-JCJ-CH-ZZ-DR-OT-990111 ~ 115
    - UOONHB-JCJ-CH-ZZ-DR-OT-990121 ~ 125
    - UOONHB-JCJ-CH-ZZ-DR-OT-990141 ~ 142
  - Primary containment SE1 & SE2 provided by others



Status:  
 A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	1 : 50	PAPER SIZE:	A1

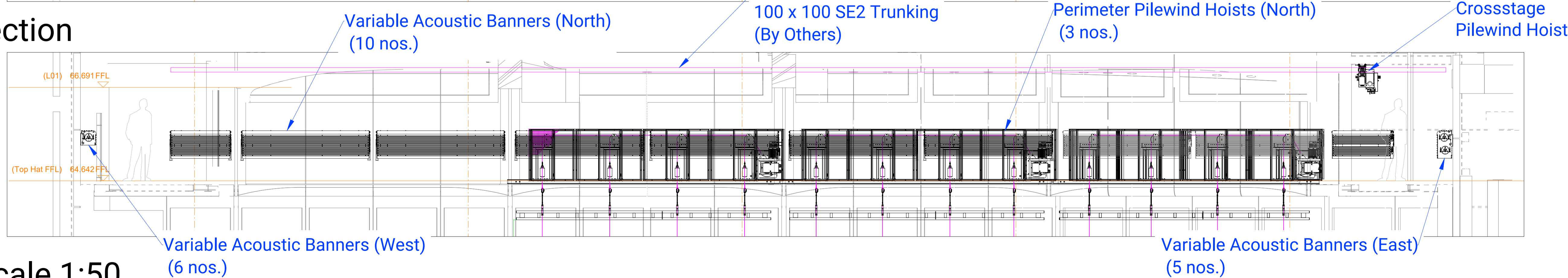
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PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-GA-99-0102
CLIENT NO.	UOONHB-JCJ-CH-ZZ-DR-OT-990102

TITLE	Concert Hall Control Layout Gantry
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PURPOSE	A5 - Accepted as Suitable for Record
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## Section



Scale 1:50

REV C02

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	SH	FIRST ISSUE	31/07/2024
C01	SH	CONSTRUCTION ISSUE	15/04/2025
C02	SH	FOR RECORD	28/04/2025

- Notes:
- Stage Engineering Equipment schedule listed in the material submission.
  - Should be read in conjunction with the following drawings:
    - UOONHB-JCJ-CH-B1-DR-OT-050001 ~ 006
    - UOONHB-JCJ-CH-B1-DR-OT-050025 ~ 026
    - UOONHB-JCJ-CH-ZZ-DR-OT-080001 ~ 011
    - UOONHB-JCJ-CH-ZZ-DR-OT-990131 ~ 134
    - UOONHB-JCJ-CH-ZZ-DR-OT-990141 ~ 142
  - Primary containment SE1 & SE2 to be provided by others

Status:  
 A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

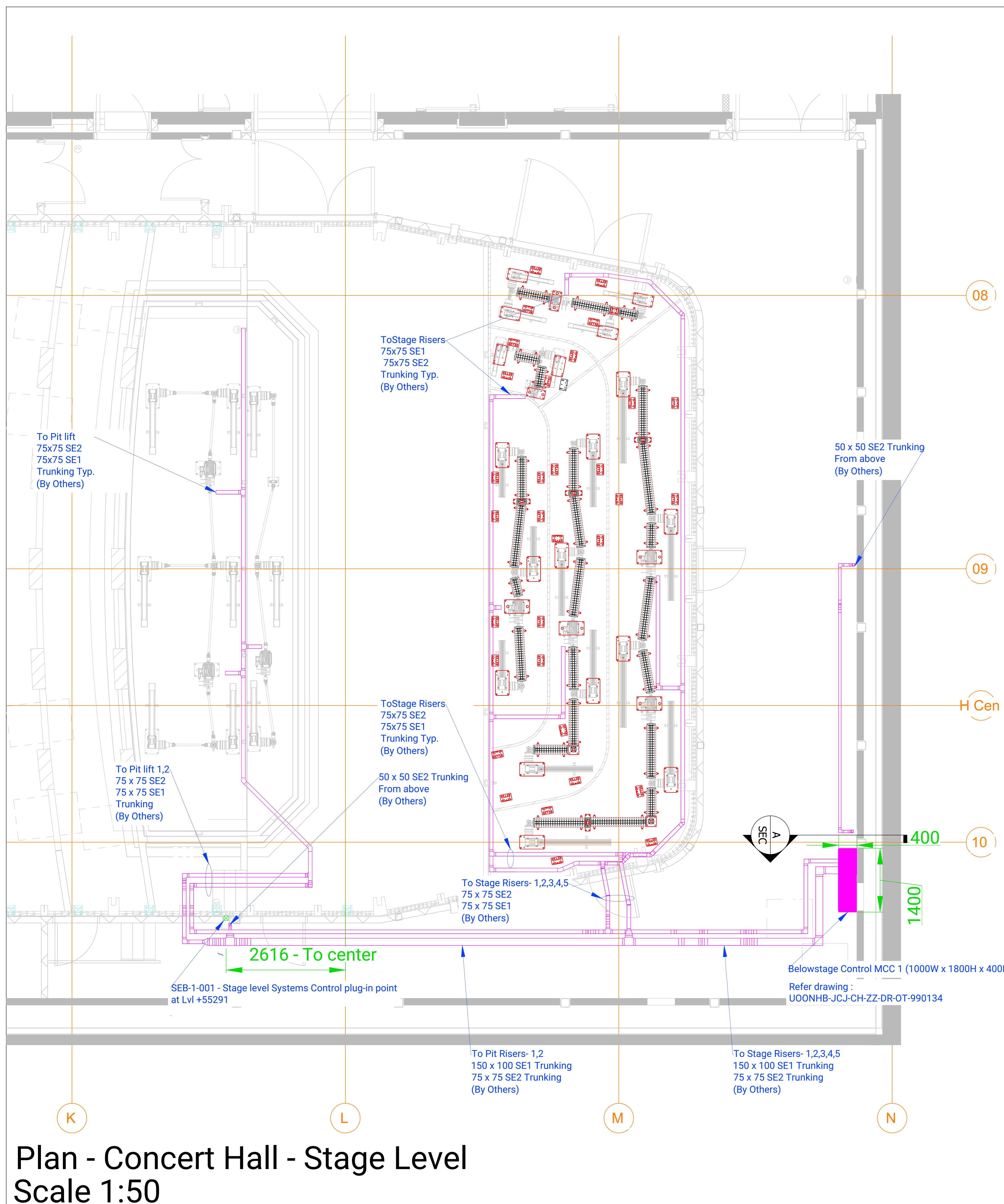
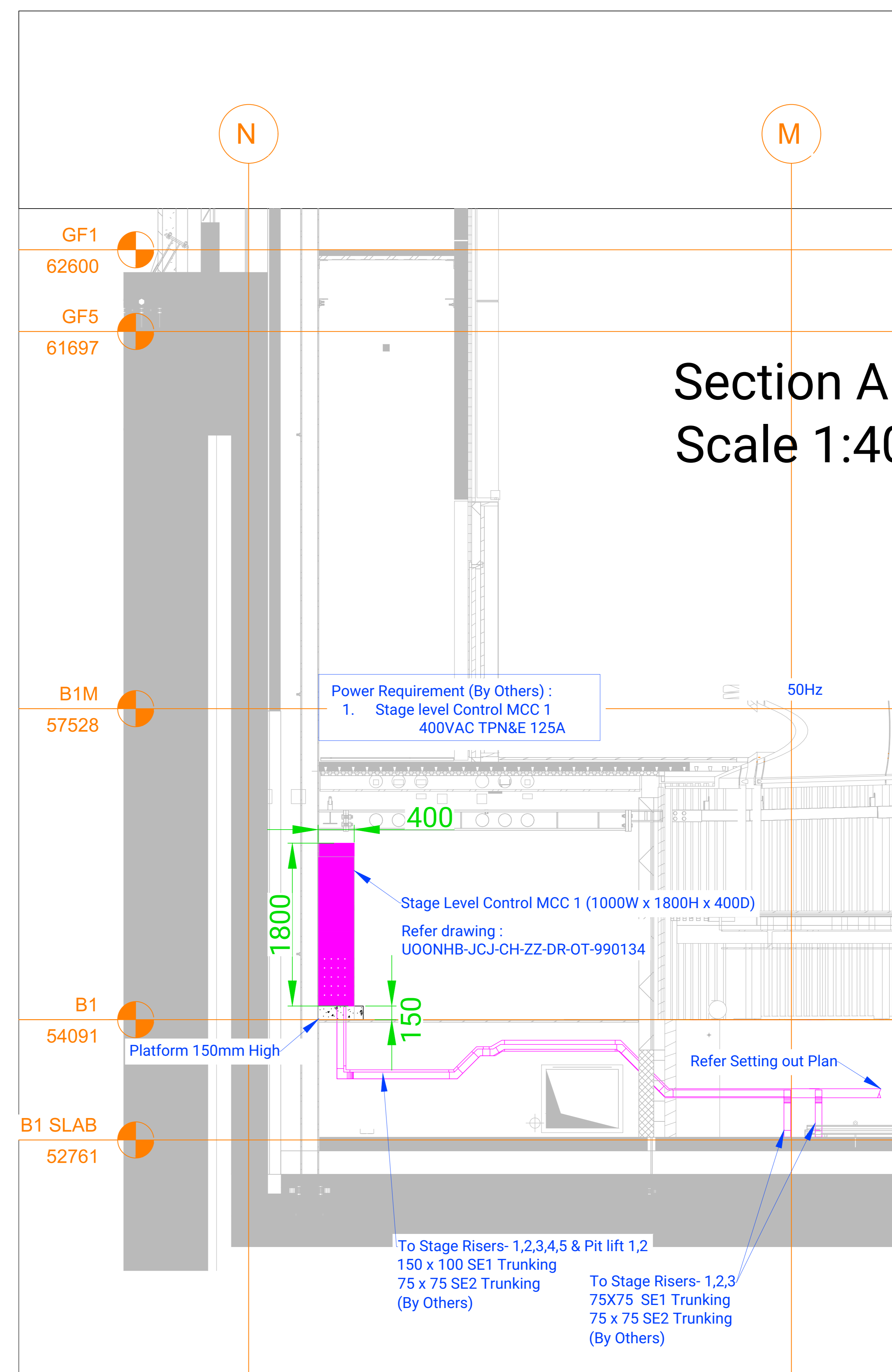
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CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	1 : 50	PAPER SIZE:	A1

**J&C Joel**  
 Inspiration in every performance

PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-GA-99-0103
CLIENT NO.	UOONHB-JCJ-CH-ZZ-DR-OT-990103

TITLE	Concert Hall Control Layout Stage Level
PURPOSE	A5 - Accepted as Suitable for Record

REV C02



Plan - Concert Hall - Stage Level  
 Scale 1:50



REVISIONS

REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/01/2024
CD1	PT	Response to Consultant's Comments & For Construction	03/01/2024
C02	JC	OUES SCHEDULE ADDED	03/06/2024
C03	SH	FOR RECORD	28/04/2025

Notes:

Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S.	PAPER SIZE:	A1

**J&C Joel**  
Inspiration in every performance

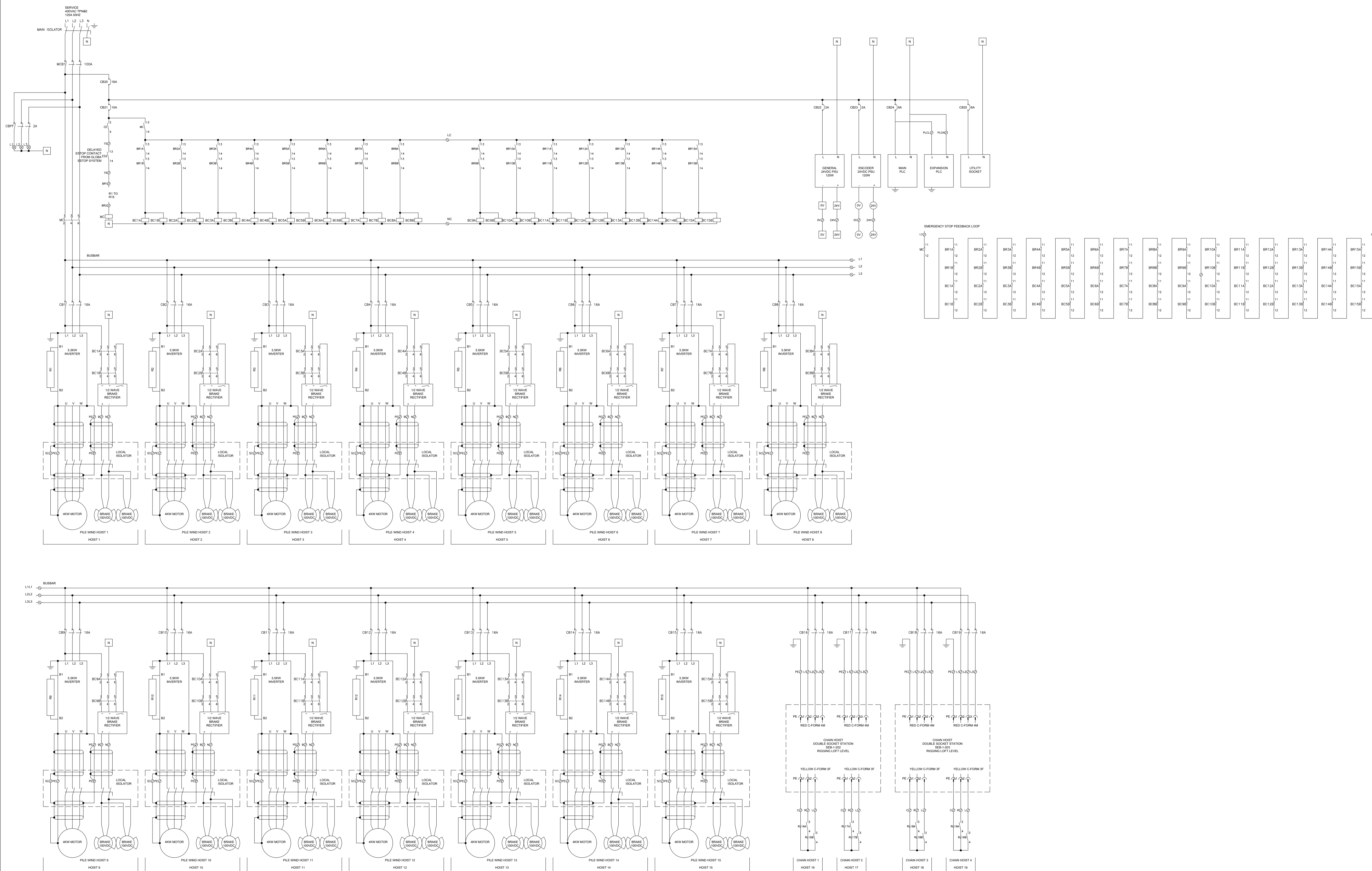
PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0112
CLIENT NO.	U00NH-B-JC-J-CH-ZZ-DR-OT-990112

TITLE  
Concert Hall  
Overstage Equipment Control  
System  
Power Diagram

PURPOSE	A5 - Accepted as Suitable for Record
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REV C03

Note: OUES Circuit Reference: 10/016/103/01.123N



Scale N.T.S.

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/01/2024
CD1	PT	For Construction	01/04/2024
C02	SH	FOR RECORD	28/04/2025

Notes:

Status:  
 A -     B -     C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S.	PAPER SIZE:	A1



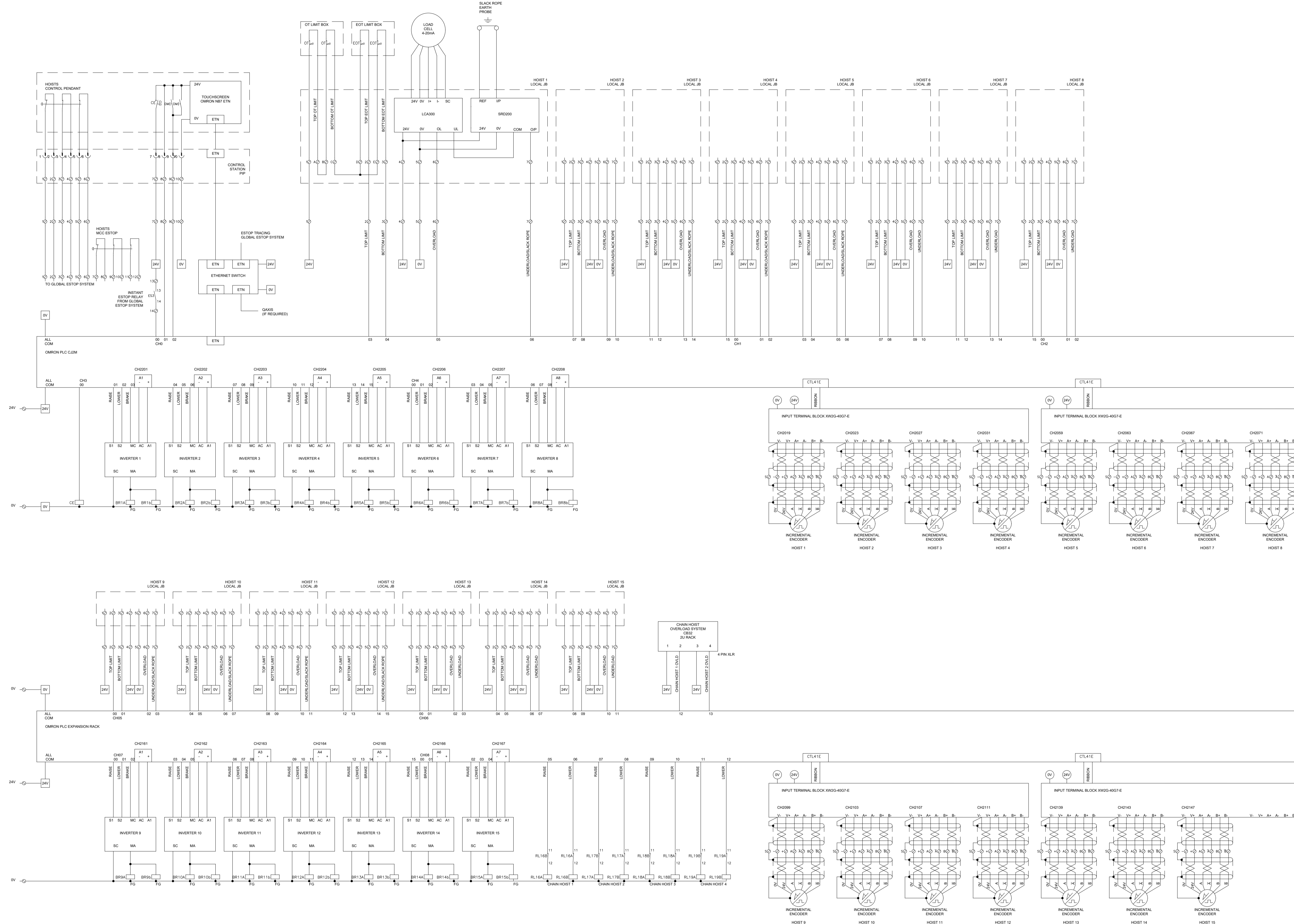
PROJECT: 4334 - Oxford Humanities

JCJ NO.: 4334-DE-99-0113

CLIENT NO.: U00NH8-JCJ-CH-ZZ-DR-OT-990113

TITLE: Concert Hall Overstage Equipment Control System Control Diagram

PURPOSE: A5 - Accepted as Suitable for Record



Scale N.T.S.

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/01/2024
C01	PT	Response to Consultant's Comments & For Construction	28/03/2024
C02	JC	OUES SCHEDULE ADDED	03/06/2024
C04	SH	FOR RECORD	28/04/2025

Notes:  
 OUES Reference to be placed on door of MCCs;  
 10/016/103/6L123N

Location of MCCs & E-Stops shown on;  
 UOONHB-JCJ-CH-ZZ-DR-OT-990101

Status:  
 A -       B -       C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S	PAPER SIZE:	A1

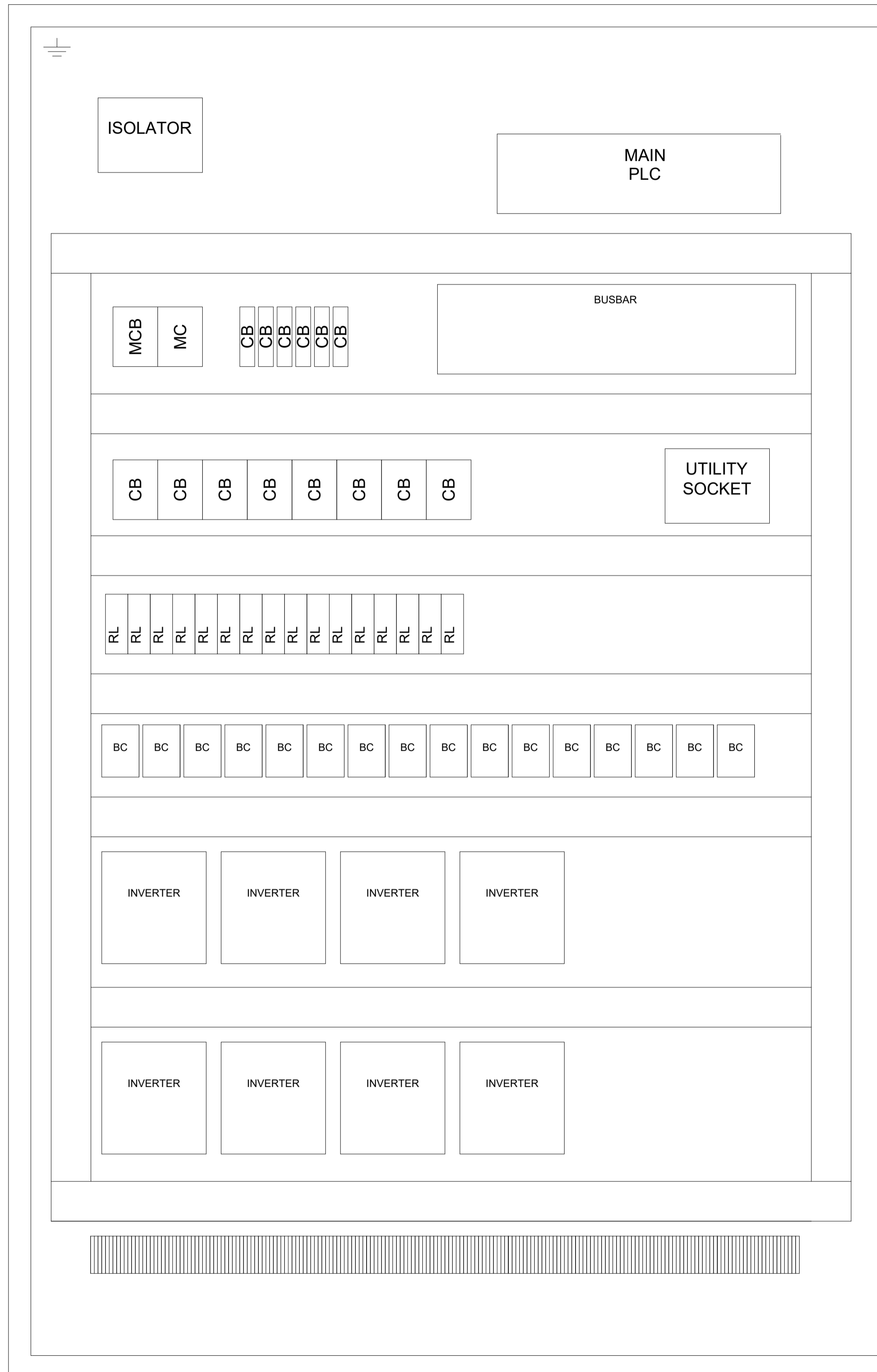
**J&C Joel**   
 Inspiration in every performance

PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0114
CLIENT NO.	UOONHB-JCJ-CH-ZZ-DR-OT-990114

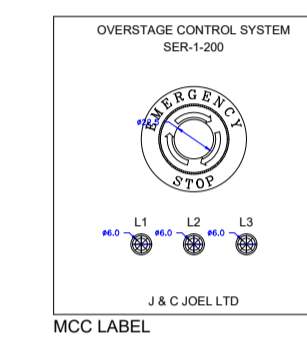
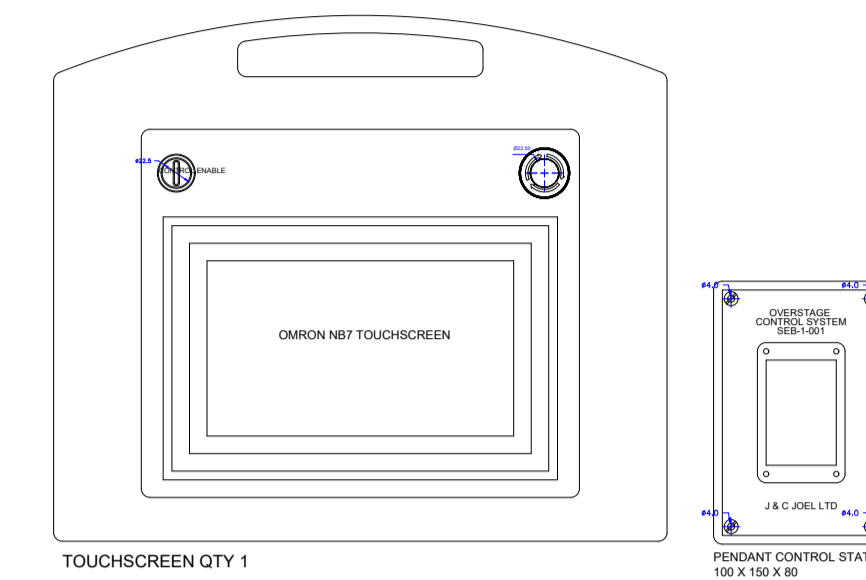
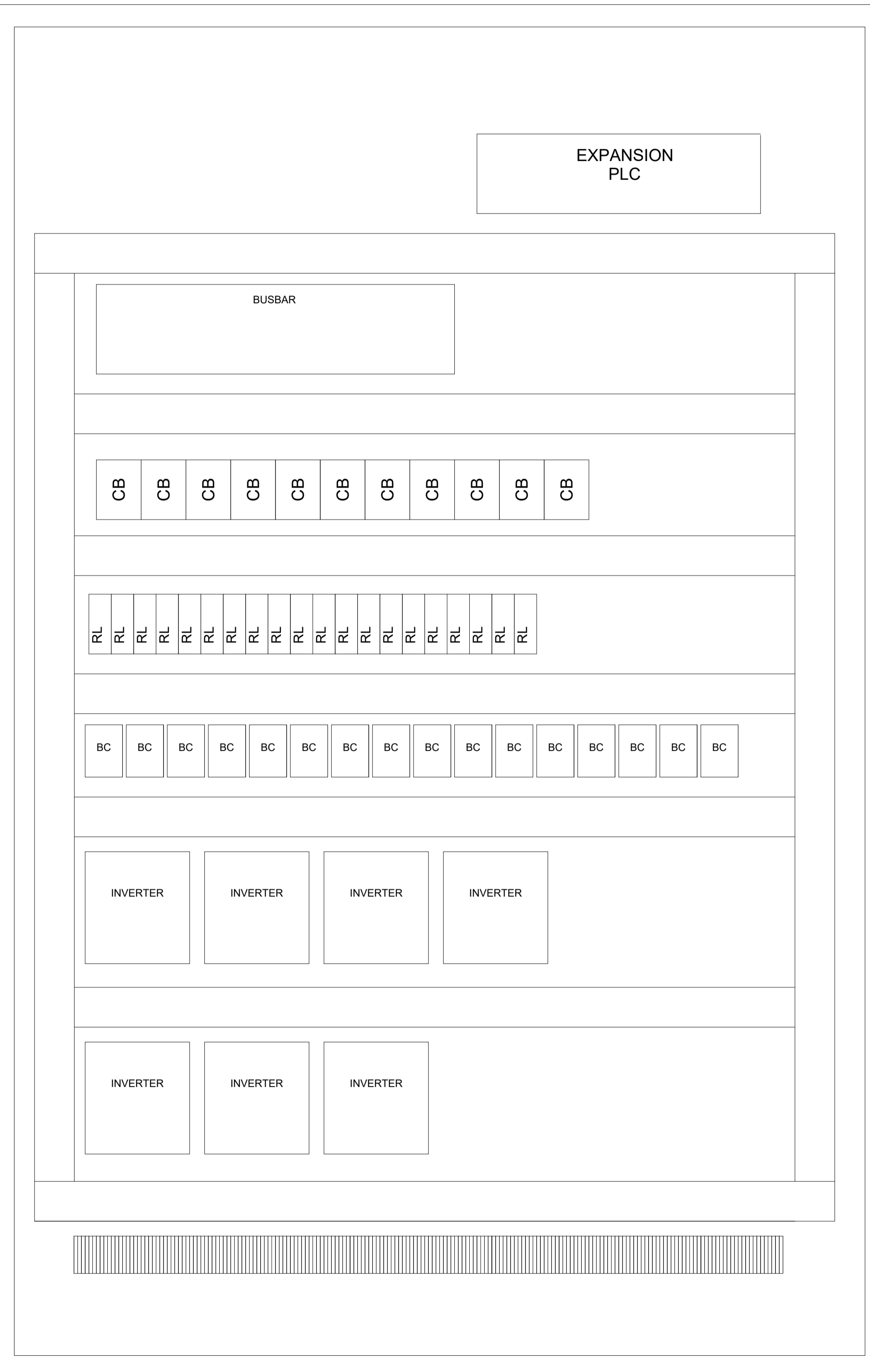
TITLE	Concert Hall Overstage Equipment Control System General Arrangement
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PURPOSE	A5 - Accepted as Suitable for Record
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REV C04



OVERSTAGE MCC  
 2NO 1800 X 1000 X 400



BRAKE RESISTOR MOUNTING TBD

Scale N.T.S.

TOUCHSCREEN  
192.168.250.2

PC  
192.168.1.32

ESTOP  
192.168.250.3

ETHERNET SWITCH

	RJ45										
CJ1W PA205R	CJ2M-CPU32-EIP 192.168.250.1	CJ1W IC101	CJ1W ID211	CJ1W ID211	CJ1W ID211	CJ1W OC211	CJ1W OC211	CJ1W DA08V	CJ1W CTL41E	CJ1W CTL41E	
			CH00	CH01	CH02	CH03	CH04	2200 1-8	2000	2040	

CS1W-CN133

CJ1W PA205R	CJ1W II101	CJ1W ID211	CJ1W ID211	CJ1W OC211	CJ1W OC211	CJ1W DA08V	CJ1W CTL41E	CJ1W CTL41E	
		CH05	CH06	CH07	CH08	2160 9-12	2080	2120	

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/04/2024
C01	JC	FOR CONSTRUCTION	03/06/2024
C02	SH	FOR RECORD	28/04/2025

Notes:

Status:  
A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	NTS	PAPER SIZE:	A1



PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0115
CLIENT NO.	U00NHB-JCJ-CH-ZZ-DR-OT-990115

TITLE  
Concert Hall  
Overstage Equipment Control  
System  
PLC Map Diagram

PURPOSE  
A5 - Accepted as  
Suitable for Record

Scale N.T.S.

REVISIONS

REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/01/2024
C01	PT	Response to Consultant's Comments & For Construction	29/03/2024
C02	JC	OUES SCHEDULE ADDED	03/06/2024
C03	SH	FOR RECORD	28/04/2025

Notes:

SERVICE  
ES-SE-121  
400VAC TPN&E  
63A 50HZ

OUES CIRCUIT REFERENCE 10/016/103/3L123N  
FLC: 40A

Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S	PAPER SIZE:	A1

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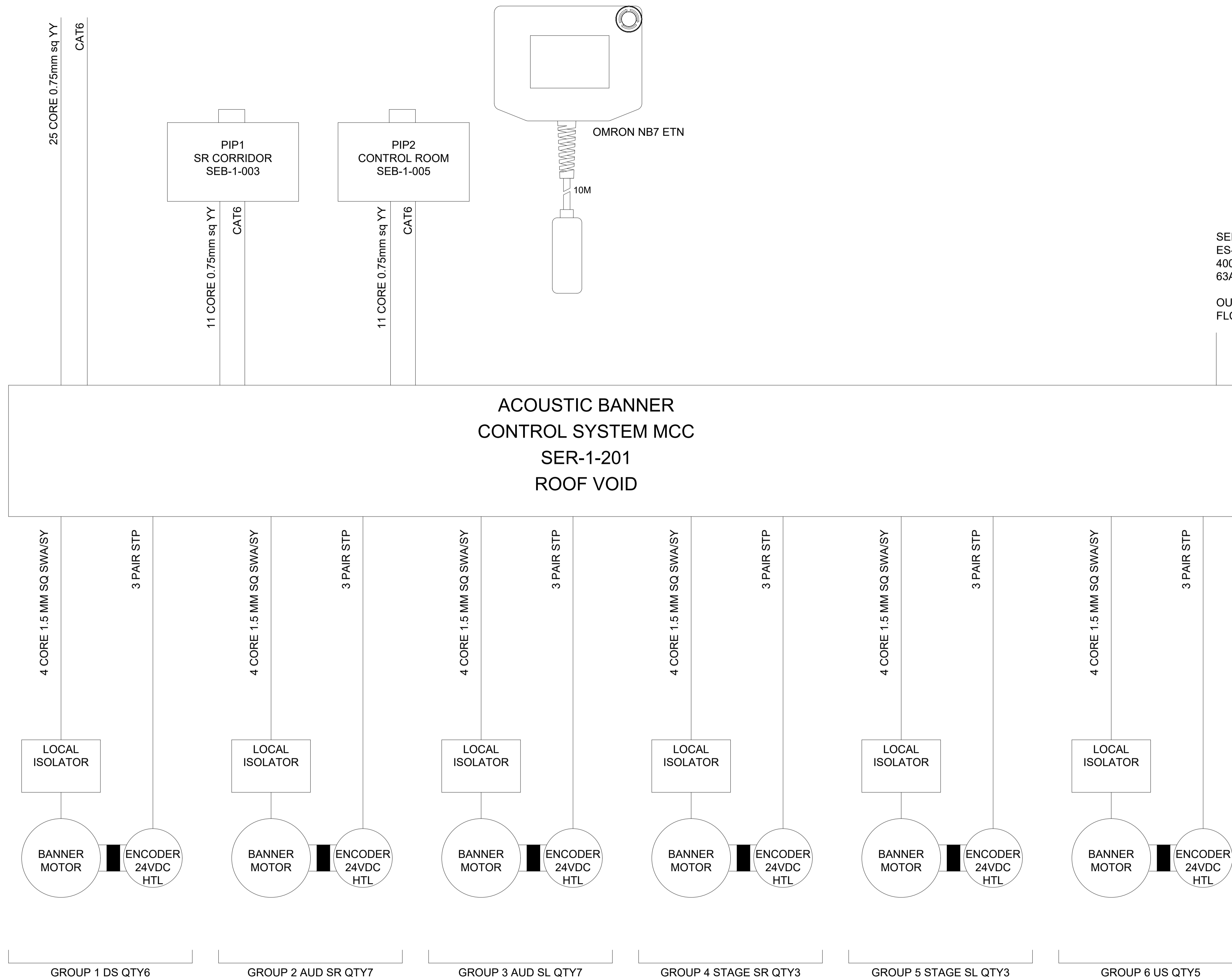
PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0121
CLIENT NO.	U00NHB-JCJ-CH-ZZ-DR-OT-990121

TITLE	Concert Hall Acoustic Banner Control System Line Diagram
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PURPOSE	A5 - Accepted as Suitable for Record
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REV C03

TO  
GLOBAL EMERGENCY STOP SYSTEM



Scale N.T.S.

REVISIONS

REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/01/2024
C01	PT	Response to Consultant's Comments & For Construction	28/03/2024
C02	JC	OUES SCHEDULE ADDED	03/06/2024
C03	SH	FOR RECORD	28/04/2025
C04	SH	FOR RECORD	14/08/2025

Notes:

Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	14/08/2025
CHECKED:	JC	DATE:	14/08/2025
APPROVED:	OS	DATE:	14/08/2025
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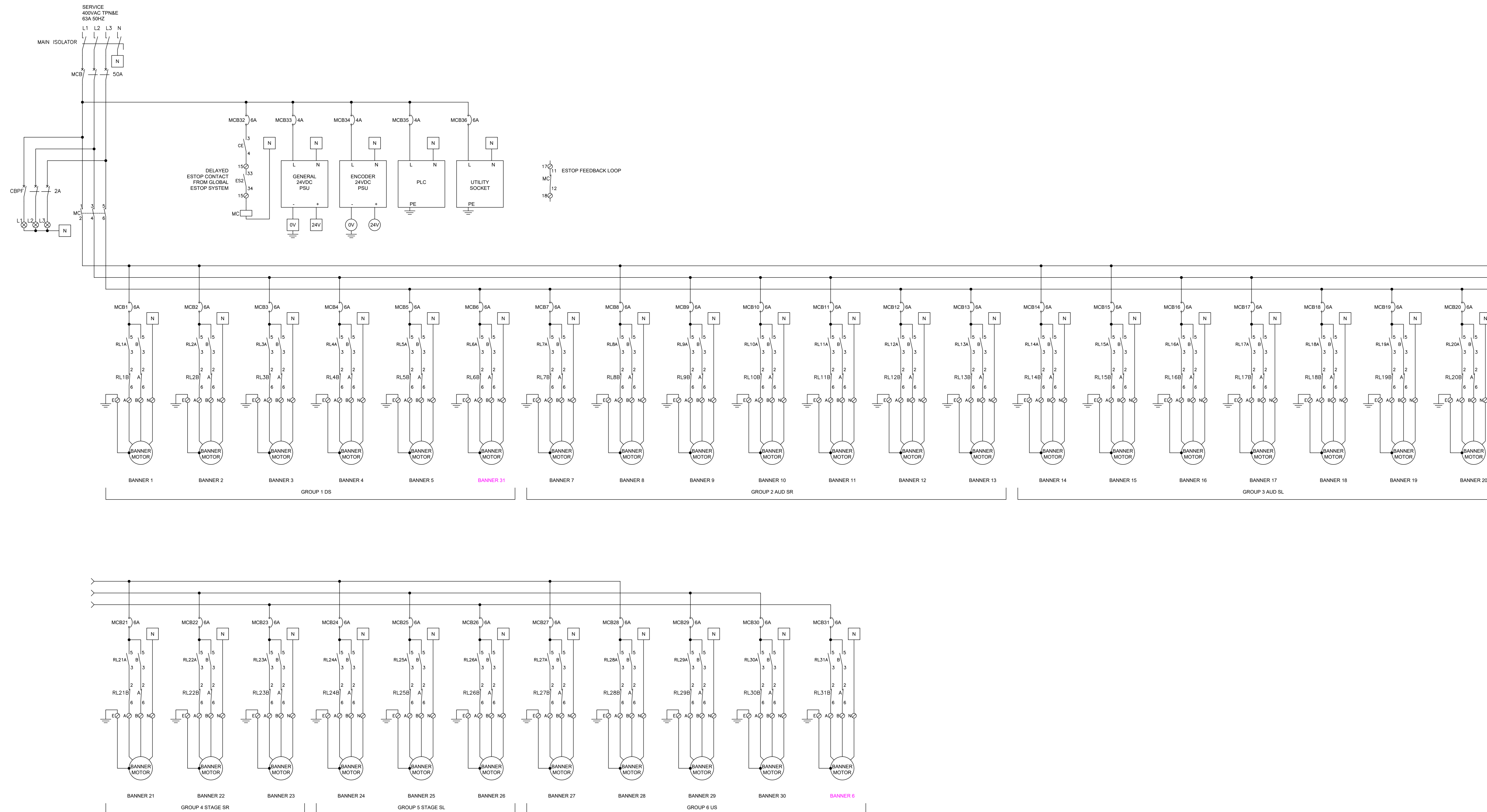
**J&C Joel**   
Inspiration in every performance

PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0122
CLIENT NO.	U00NH-B-CJ-CH-ZZ-DR-OT-990122

TITLE	Concert Hall Acoustic Banner Control System Power Diagram
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PURPOSE	A5 - Accepted as Suitable for Record
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REV C04



Scale N.T.S.

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/01/2024
CD1	PT	For Construction	01/04/2024
C02	SH	FOR RECORD	28/04/2025

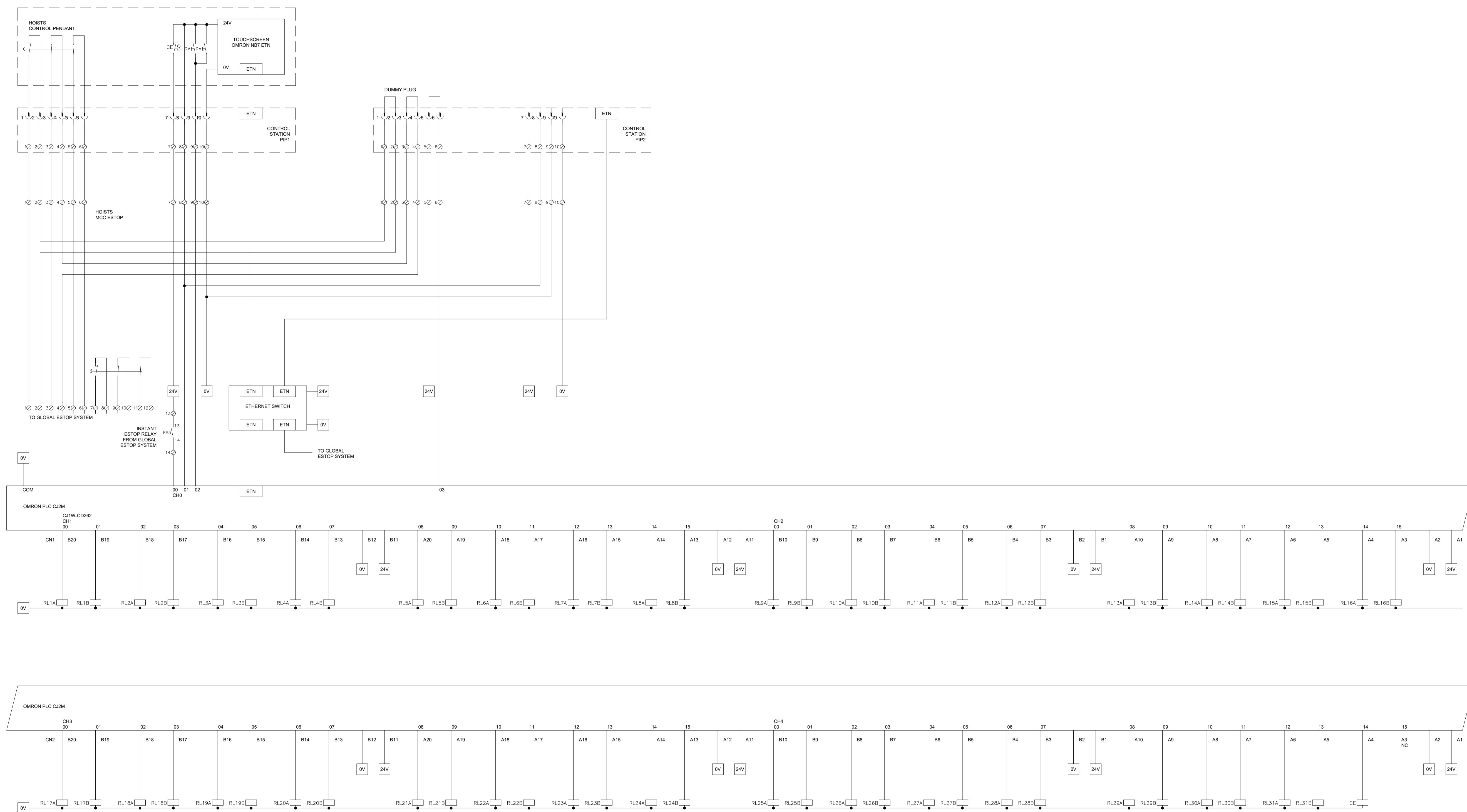
Notes:

Status:  
 A -       B -       C -

All dimensions in mm unless otherwise stated. Do not scale.  
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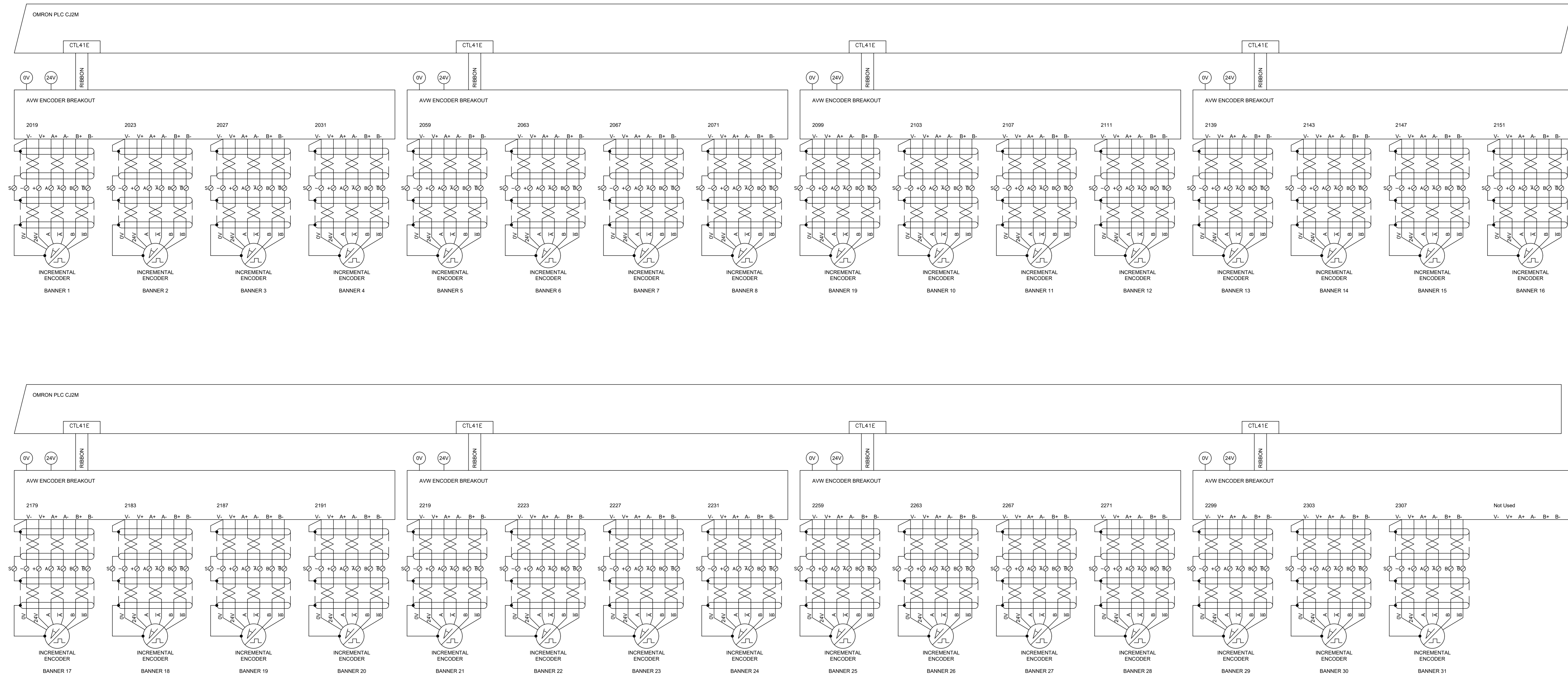
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JCJ NO.	4334-DE-99-0123		
CLIENT NO.	U00NHB-JCJ-CH-ZZ-DR-OT-990123		
TITLE	Concert Hall Acoustic Banner Control System Control Diagram 1		
PURPOSE	A5 - Accepted as Suitable for Record		
		REV	C02



Scale N.T.S.

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	AM	FIRST ISSUE	03/01/2024
C01	PT	Response to Consultant's Comments & For Construction	29/03/2024
C02	JC	NOTE CHANGE	03/06/2024
C03	SH	FOR RECORD	28/04/2025
C04	SH	FOR RECORD	14/08/2025

Notes:



Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	14/08/2025
CHECKED:	JC	DATE:	14/08/2025
APPROVED:	OS	DATE:	14/08/2025
SCALE:	N.T.S	PAPER SIZE:	A1

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PROJECT	4334 - Oxford Humanities		
JCJ NO.	4334-DE-99-0124		
CLIENT NO.	U00NHB-JCJ-CH-ZZ-DR-OT-990124		
TITLE	Concert Hall Acoustic Banner Control System Control Schematic Diagram-2		
PURPOSE	A5 - Accepted as Suitable for Record		
	REV	C04	

Scale N.T.S.

REVISIONS

REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/01/2024
C01	PT	Response to Consultant's Comments & For Construction	29/03/2024
C02	JC	OUES SCHEDULE ADDED	03/06/2024
C03	SH	REVISED	06/08/2024
C04	SH	FOR RECORD	28/04/2025

Notes:

OUES Reference to be placed on door of MCC;  
10/016/103/3L123N

Location of MCCs & E-Stops;  
UOONHB-JCJ-CH-ZZ-DR-OT-990102

Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S	PAPER SIZE:	A1

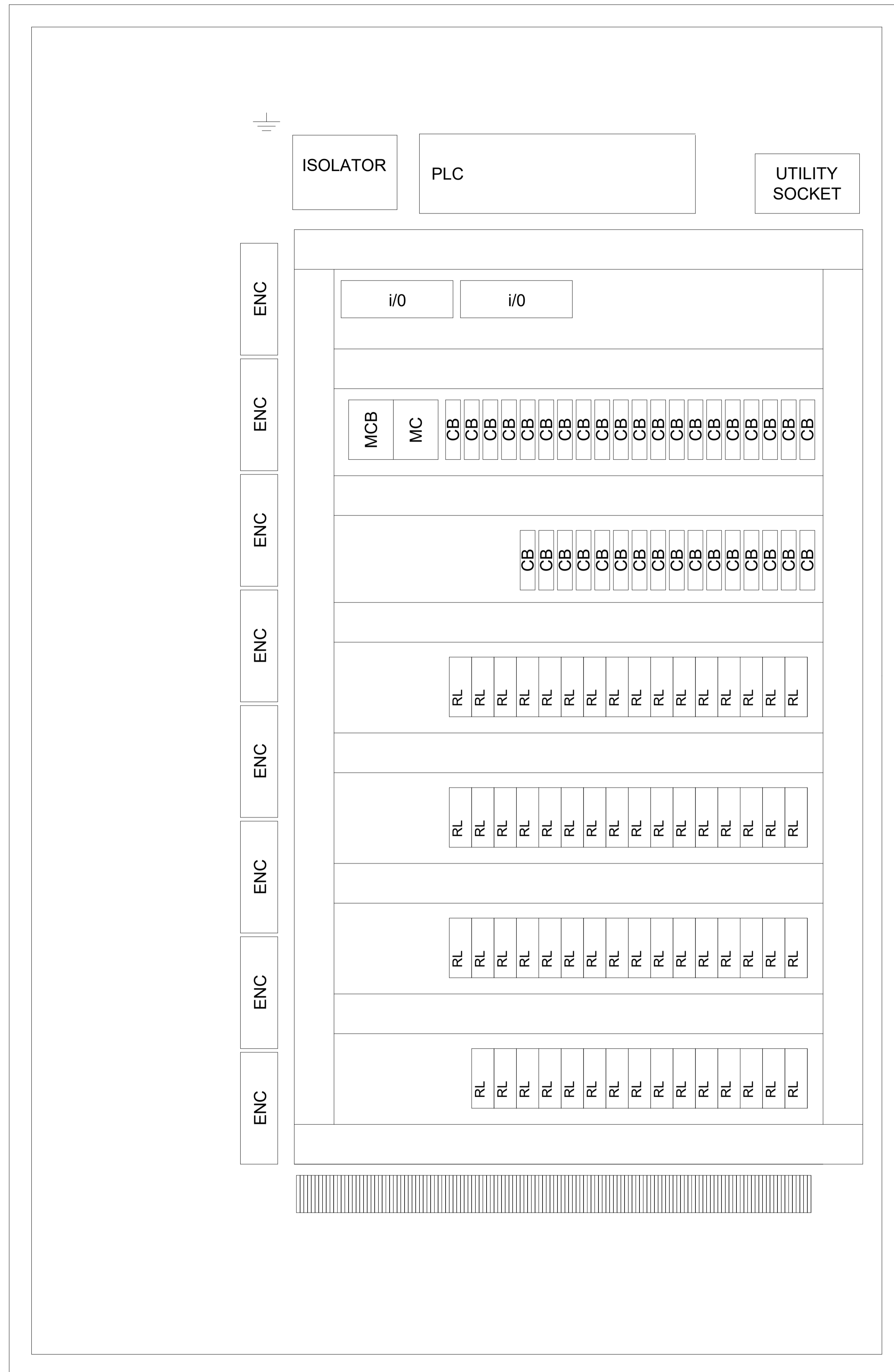
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CLIENT NO.	UOONHB-JCJ-CH-ZZ-DR-OT-990125

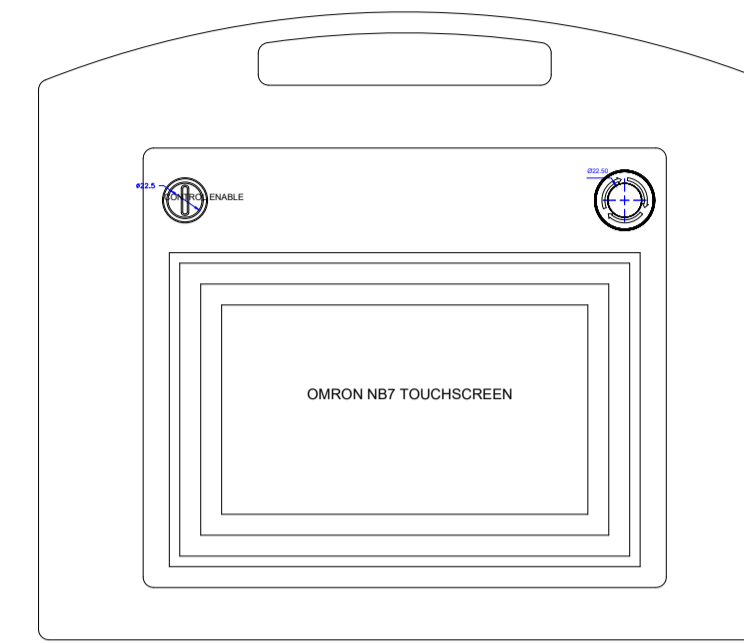
TITLE	Concert Hall Acoustic Banner Control System General Arrangement
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PURPOSE	A5 - Accepted as Suitable for Record
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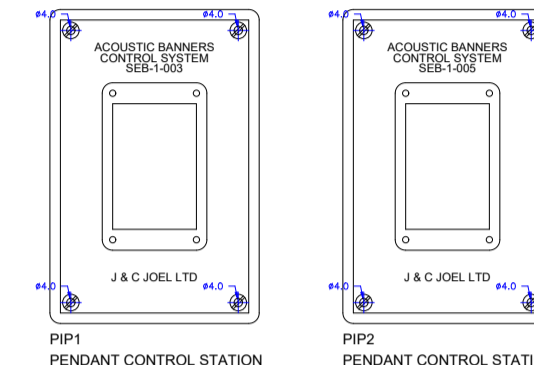
REV C04



ACOUSTIC BANNERS MCC  
1NO 1800 X 1000 X 400

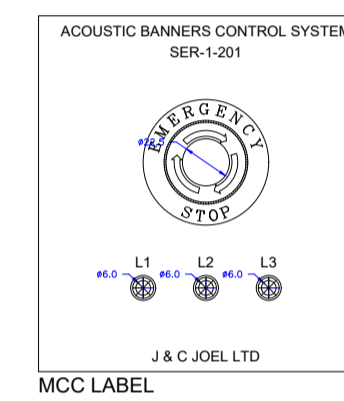


TOUCHSCREEN QTY 1



PIP1  
PENDANT CONTROL STATION  
100 X 150 X 80

PIP2  
PENDANT CONTROL STATION  
100 X 150 X 80



MCC LABEL

See drawing UOONHB-JCJ-CH-ZZ-DR-OT-990102 for Setting Out .  
Colour Light Grey, No custom colour allowed for ,on any item

Scale N.T.S.

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/01/2024
P02	PT	Response to Consultant's Comments	28/03/2024
C01	JC	OUES SCHEDULE ADDED	03/06/2024
C02	SH	FOR RECORD	28/04/2025

Notes:

Status:  
 A -       B -       C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
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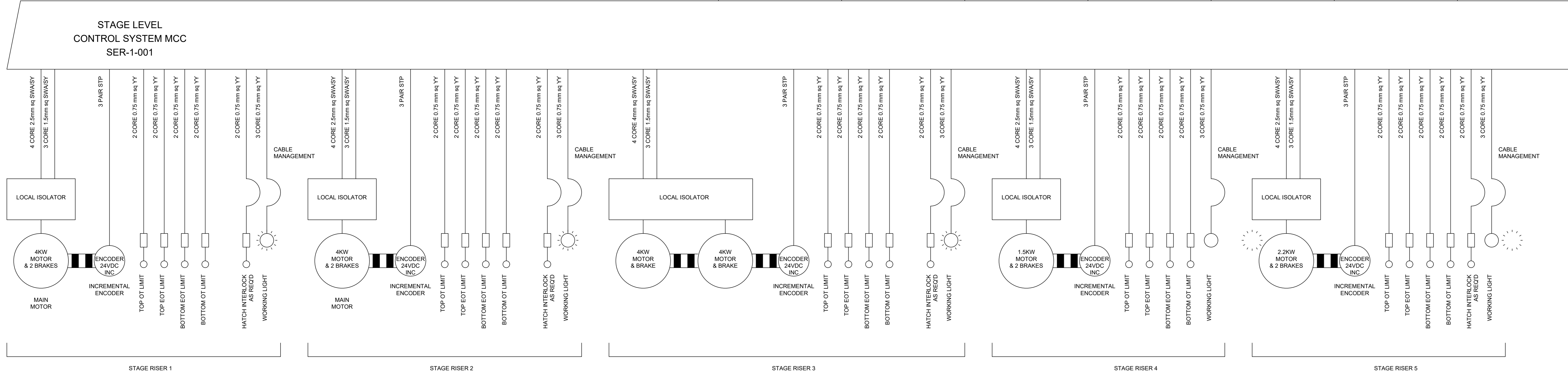
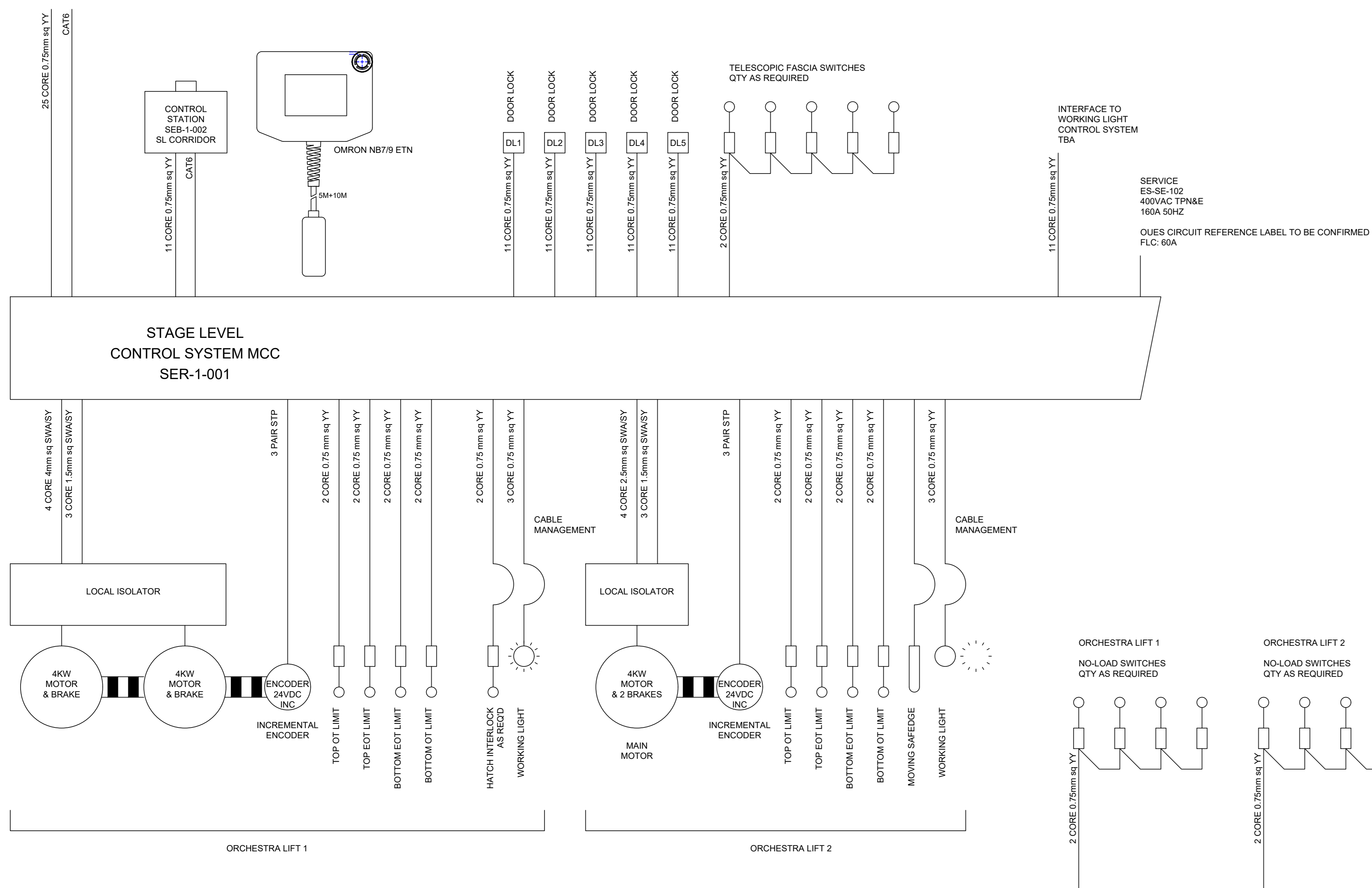


PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0131
CLIENT NO.	U00NHBJCJ-CH-ZZ-DR-OT-990131

TITLE	Concert Hall Stage Level Control System Line Diagram
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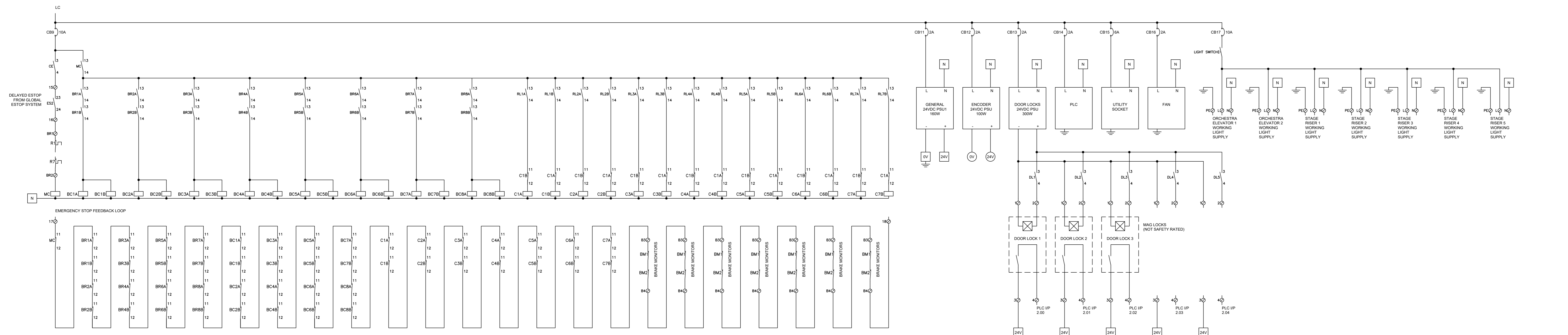
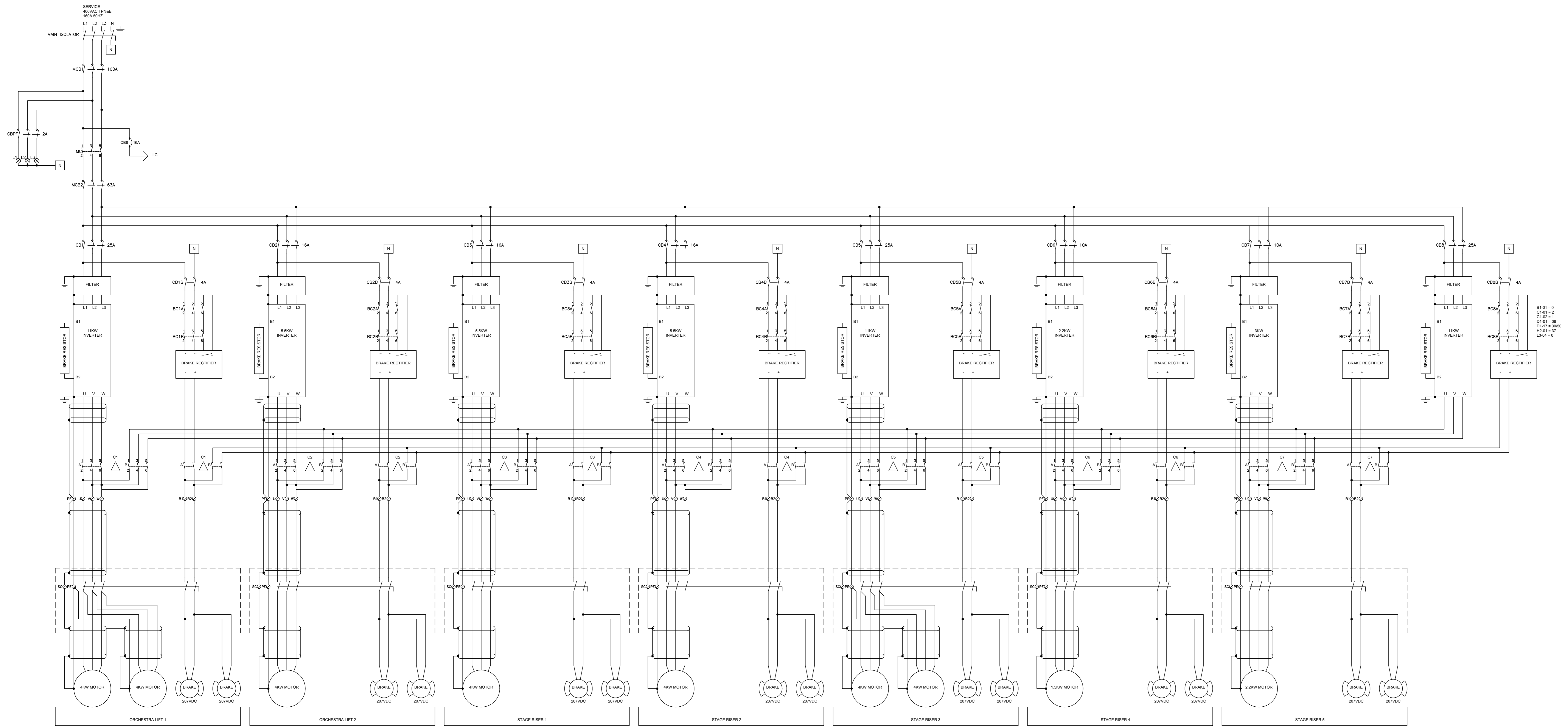
PURPOSE	A5 - Accepted as Suitable for Record
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TO  
GLOBAL EMERGENCY STOP SYSTEM



Scale N.T.S.

Note: OUES Circuit Reference  
10/016/103/1L123N



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REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/01/2024
C01	PT	Response to Consultant's Comments & For Construction	29/03/2024
C02	JC	OUES SCHEDULE ADDED	03/06/2024
C03	SH	FOR RECORD	28/04/2025

Notes:

Status:  
 A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S.	PAPER SIZE:	A1



PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0132
CLIENT NO.	U00NHB-JC-J-CH-ZZ-DR-OT-990132

TITLE  
 Concert Hall  
 Stage Level Control System  
 Power Diagram

PURPOSE	A5 - Accepted as Suitable for Record
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Scale N.T.S.

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/01/2024
P02	PT	Response to Consultant's Comments	28/03/2024
C01	JC	FOR CONSTRUCTION	03/06/2024
C02	SH	FOR RECORD	28/04/2025

Notes:

Status:  
 A -       B -       C -

All dimensions in mm unless otherwise stated. Do not scale.

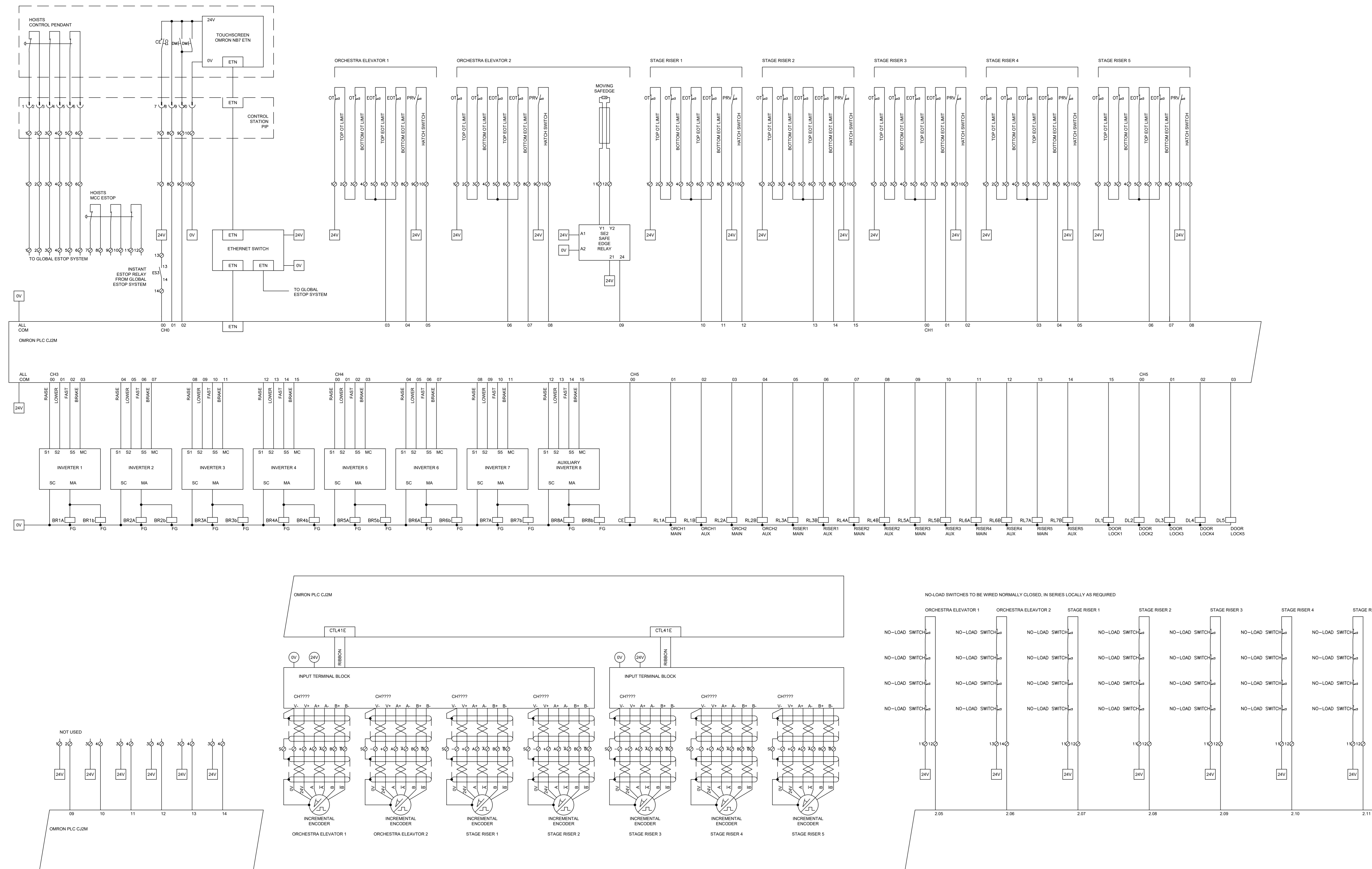
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SCALE:	N.T.S.	PAPER SIZE:	A1



PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0133
CLIENT NO.	U00NH-B-JC-J-CH-ZZ-DR-OT-990133

TITLE	Concert Hall Stage Level Control System Control Schematic Diagram
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PURPOSE	A5 - Accepted as Suitable for Record
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REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/01/2024
C01	PT	Response to Consultant's Comments & For Construction	28/03/2024
C02	JC	MCC SIZE CHANGE TO 1200	25/04/2024
C03	JC	OUES REFERENCE	03/06/2024
C04	JC	REVISED	06/08/2024
C05	SH	For Record	28/04/2025

Notes:

OUES Reference to be added on MCC door;  
10/016/103/1L123N

Location of MCCs & E-Stops;  
UOONHB-JCJ-CH-ZZ-DR-OT-990102

Status:

A -  B -  C -

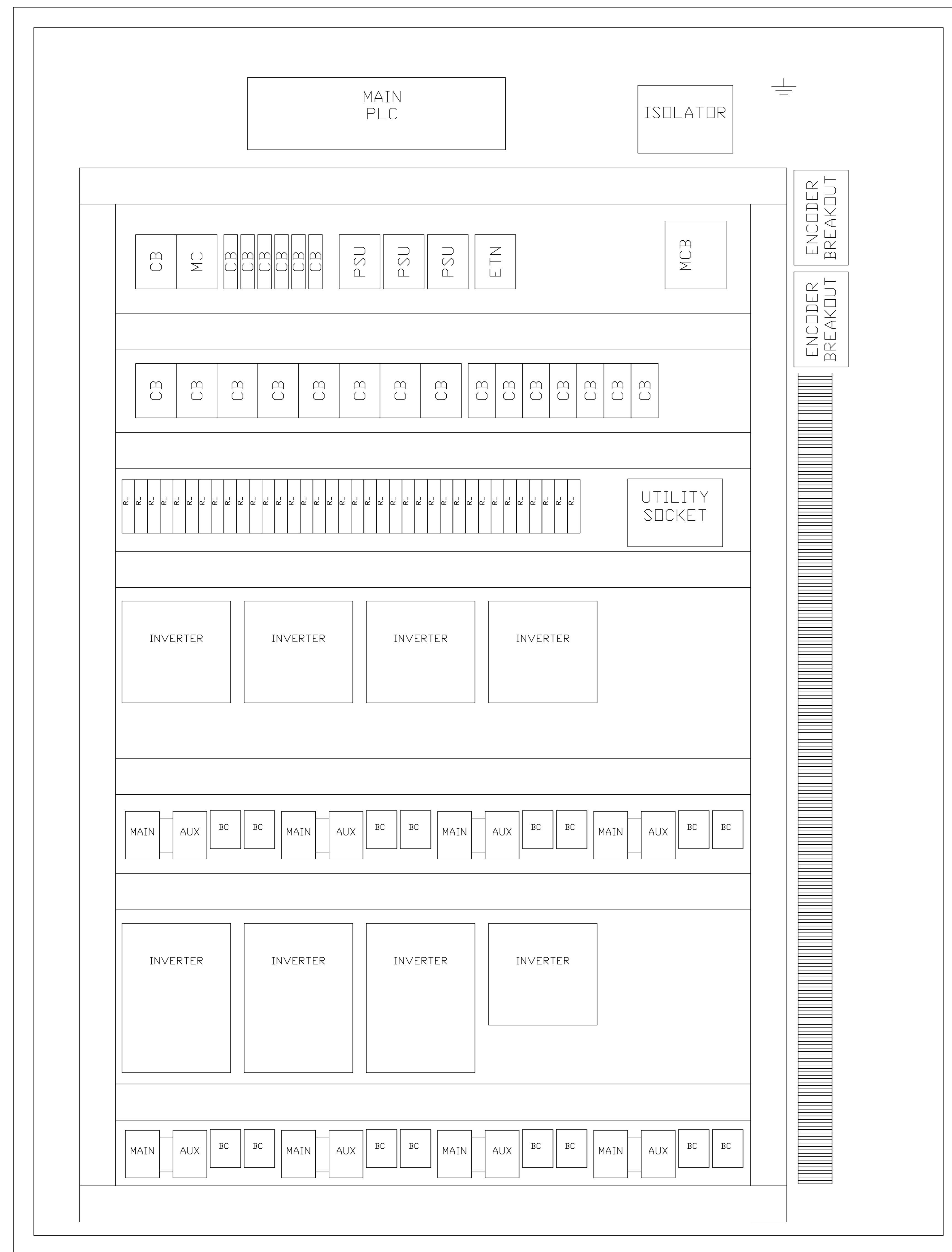
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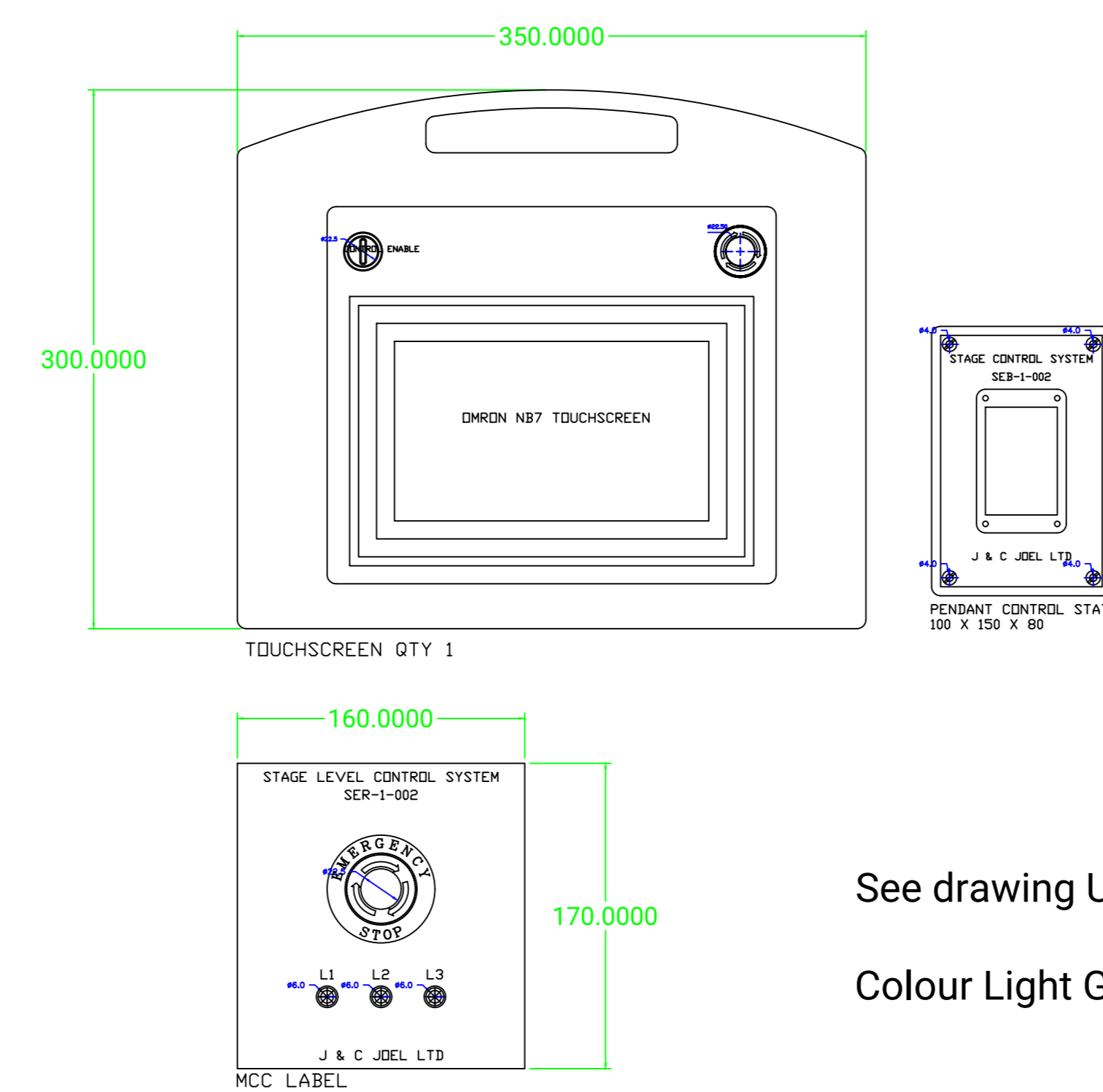
**J&C Joel** **جوئل**  
Inspiration in every performance

PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0134
CLIENT NO.	UOONHB-JCJ-CH-ZZ-DR-OT-990134

TITLE	Concert Hall Stage Level Control System General Arrangement		
PURPOSE	A5 - Accepted as Suitable for Record		
REV	C05		



STAGE LEVEL MCC  
IND 1800 X 1200 X 400



BRAKE RESISTOR MOUNTING TBD

See drawing UOONHB-JCJ-CH-ZZ-DR-OT-990103 for Setting Out  
Colour Light Grey, No custom colour allowed for, on any item

Scale N.T.S.

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	03/01/2024
CD1	PT	For Construction	01/04/2024
C02	SH	FOR RECORD	28/04/2025

Notes:

Status:  
 A -       B -       C -

All dimensions in mm unless otherwise stated. Do not scale.

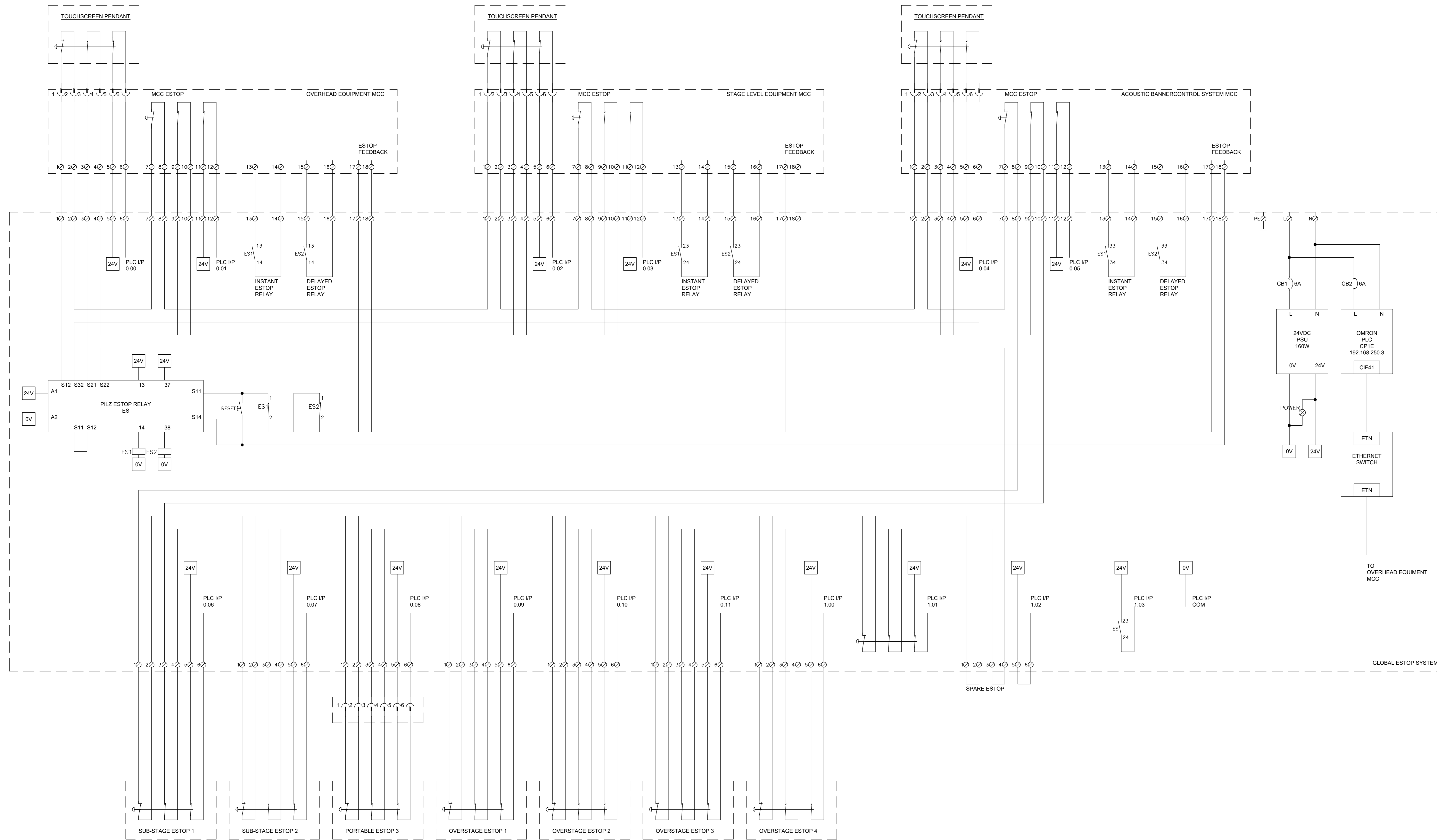
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SCALE:	N.T.S.	PAPER SIZE:	A1

**J&C Joel**  
 Inspiration in every performance

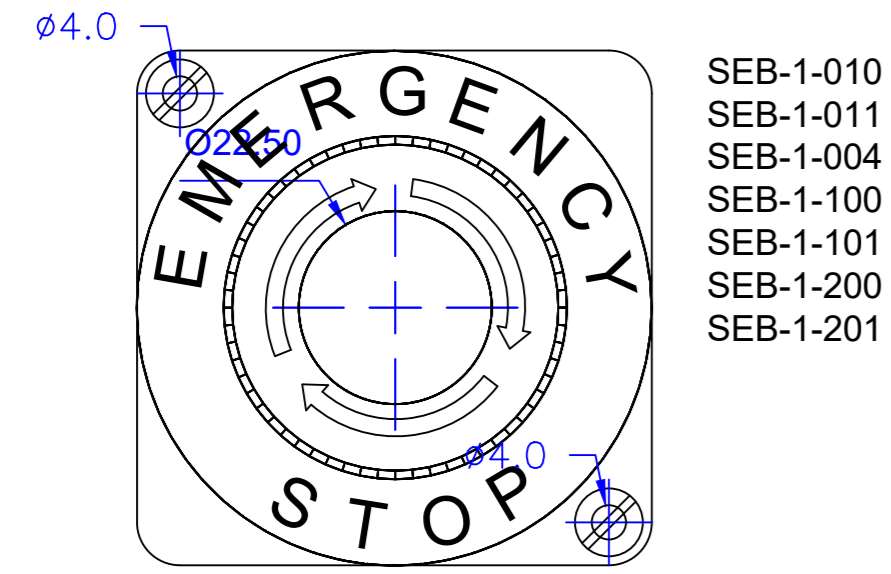
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JCJ NO.	4334-DE-99-0141
CLIENT NO.	U00NH-B-JC-J-CH-ZZ-DR-OT-990141

TITLE	Concert Hall E-Stop - Electrical Schematic Diagram
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PURPOSE	A5 - Accepted as Suitable for Record
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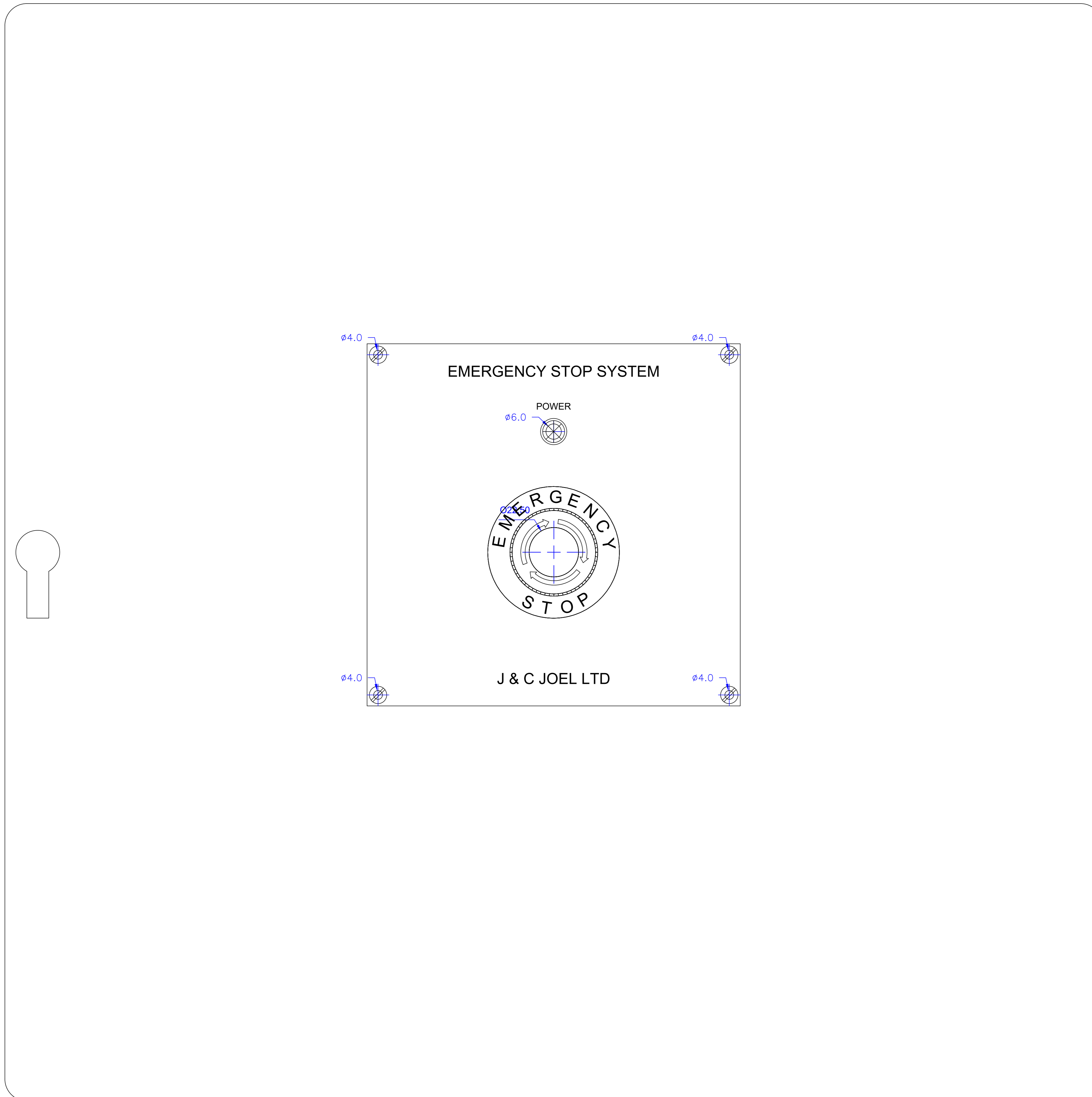


Scale N.T.S.



SEB-1-010  
SEB-1-011  
SEB-1-004  
SEB-1-100  
SEB-1-101  
SEB-1-200  
SEB-1-201

# ESTOP STATIONS QTY 7



See drawing

U00NHB-JCJ-CH-ZZ-DR-OT-990101  
U00NHB-JCJ-CH-ZZ-DR-OT-990102  
U00NHB-JCJ-CH-ZZ-DR-OT-990103

for Setting Out .

Colour Light Grey, No custom colour allowed for any item

Status:  
A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S	PAPER SIZE:	A1

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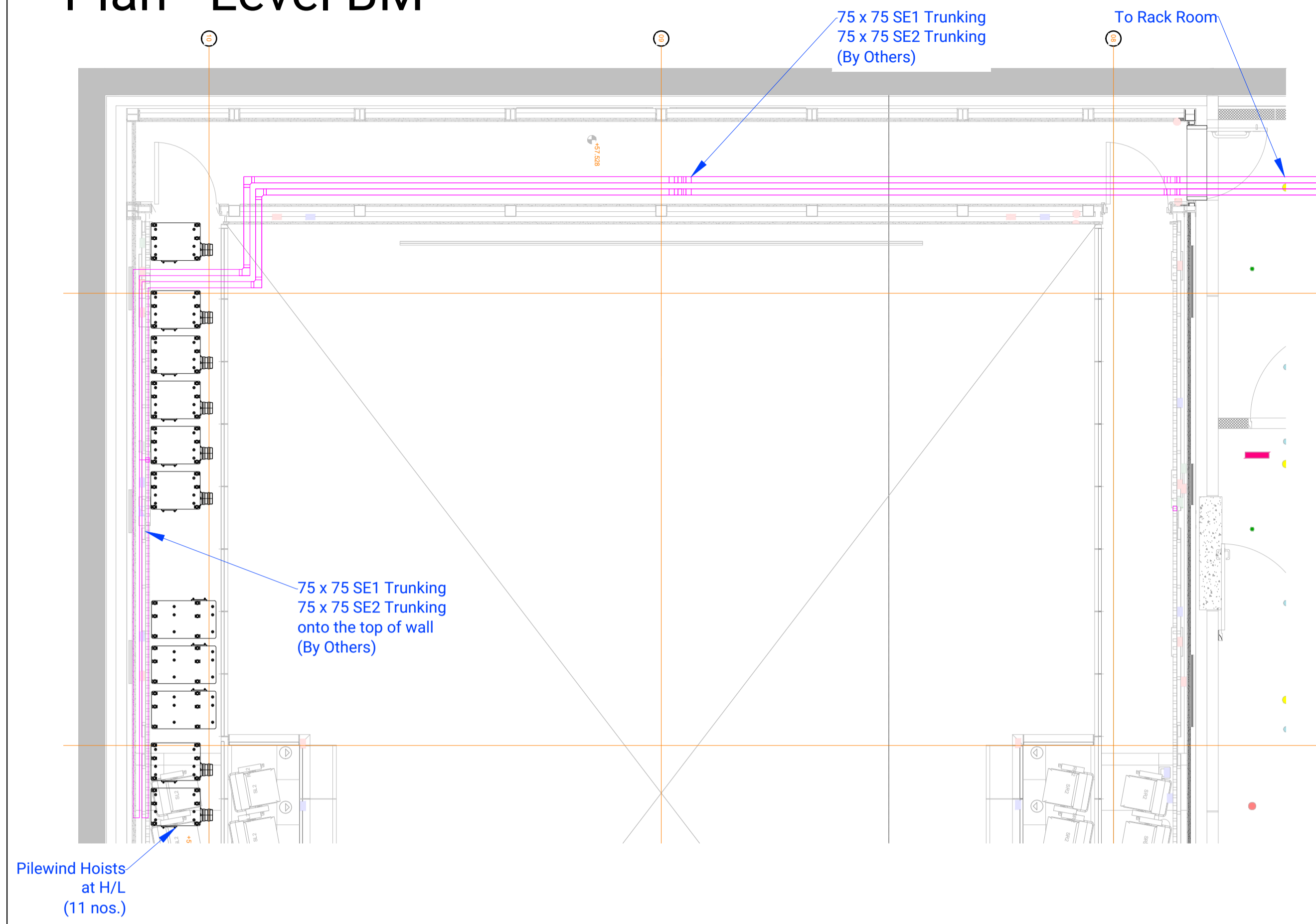
PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0142
CLIENT NO.	U00NHB-JCJ-CH-ZZ-DR-OT-990142

TITLE	Concert Hall E-Stop General Arrangement
PURPOSE	A5 - Accepted as Suitable for Record

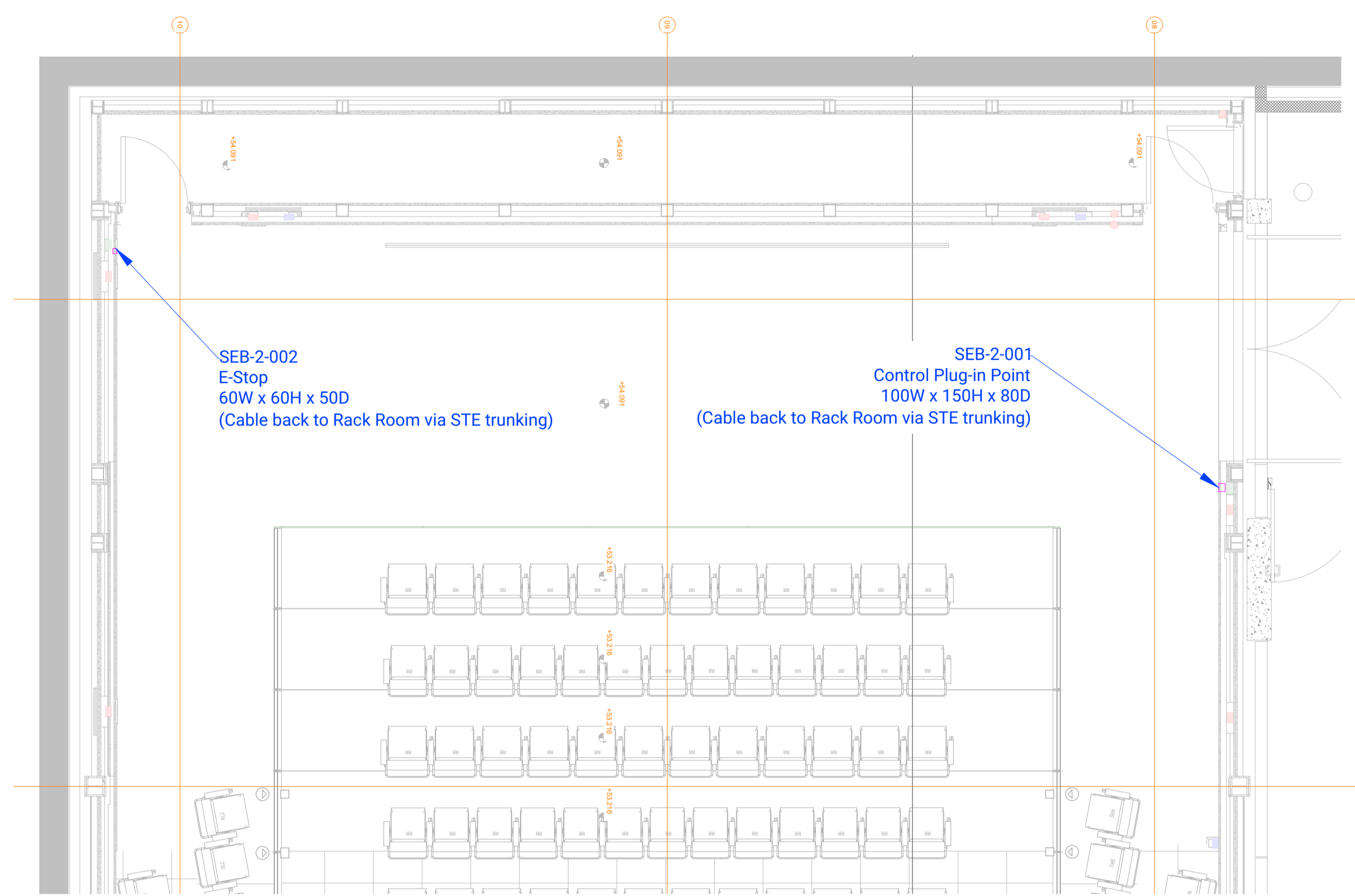
# EMERGENCY STOP SYSTEM 500 X 500 X 200

Scale N.T.S.

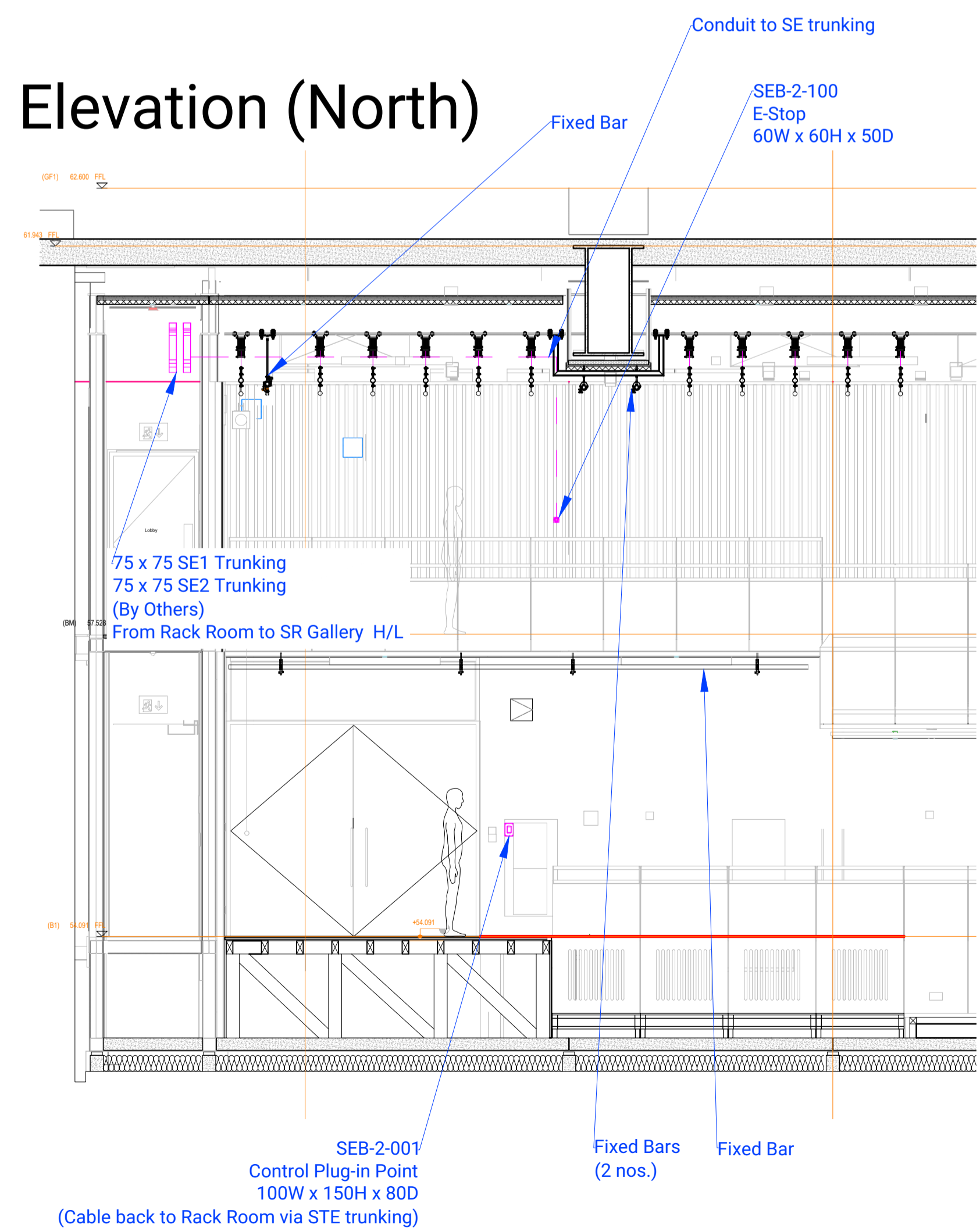
# Plan - Level BM



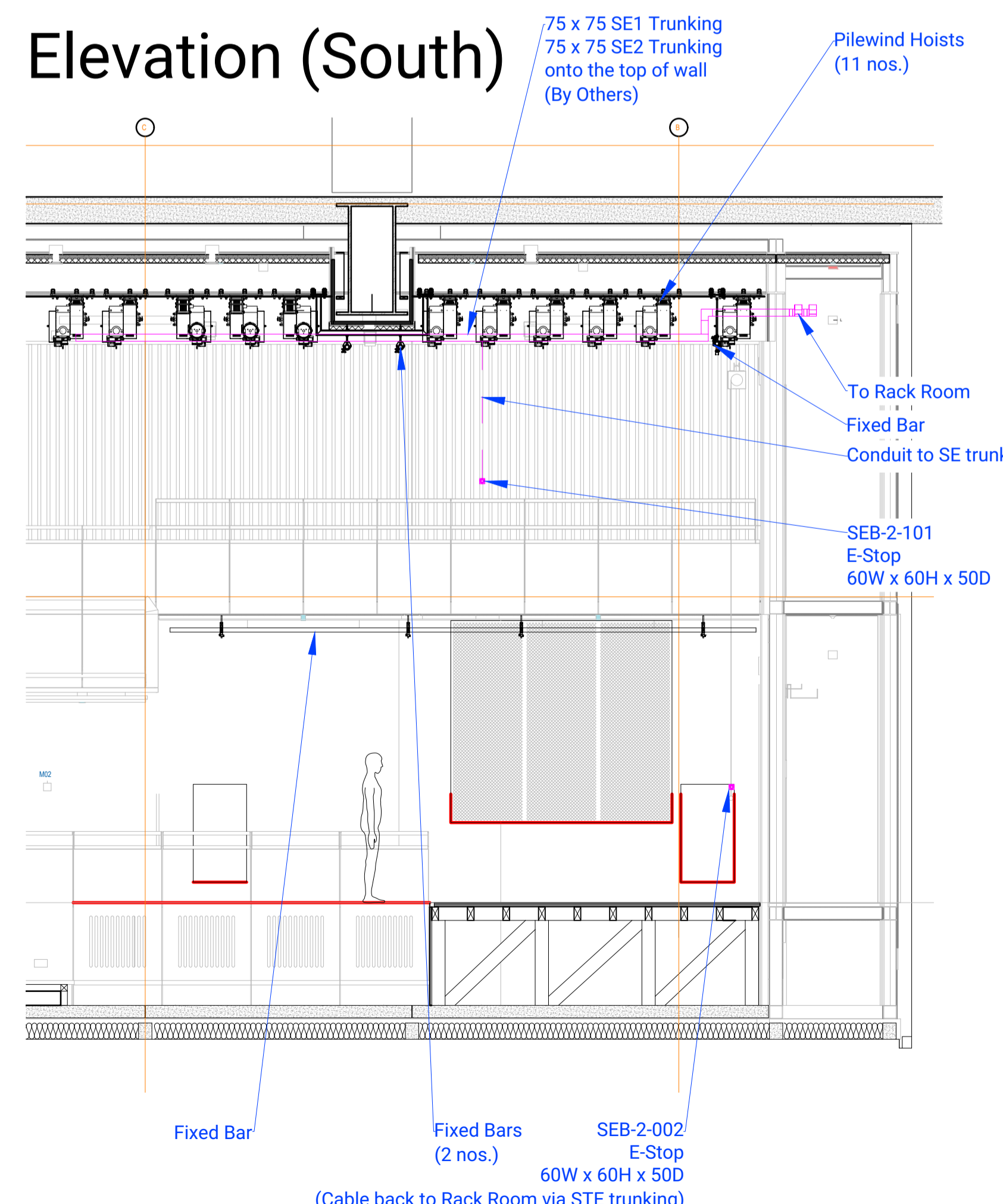
# Plan - Level B1



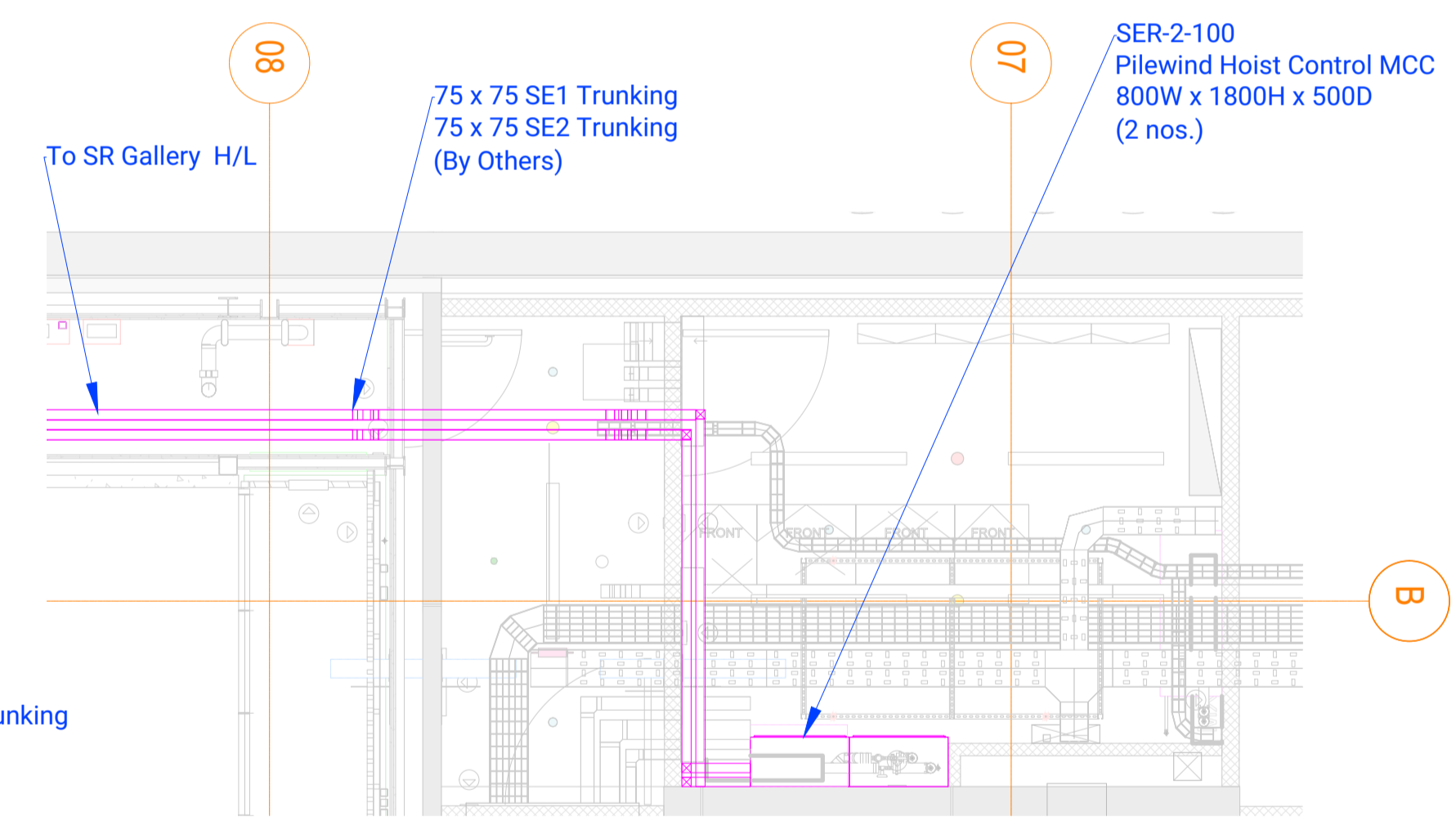
# Elevation (North)



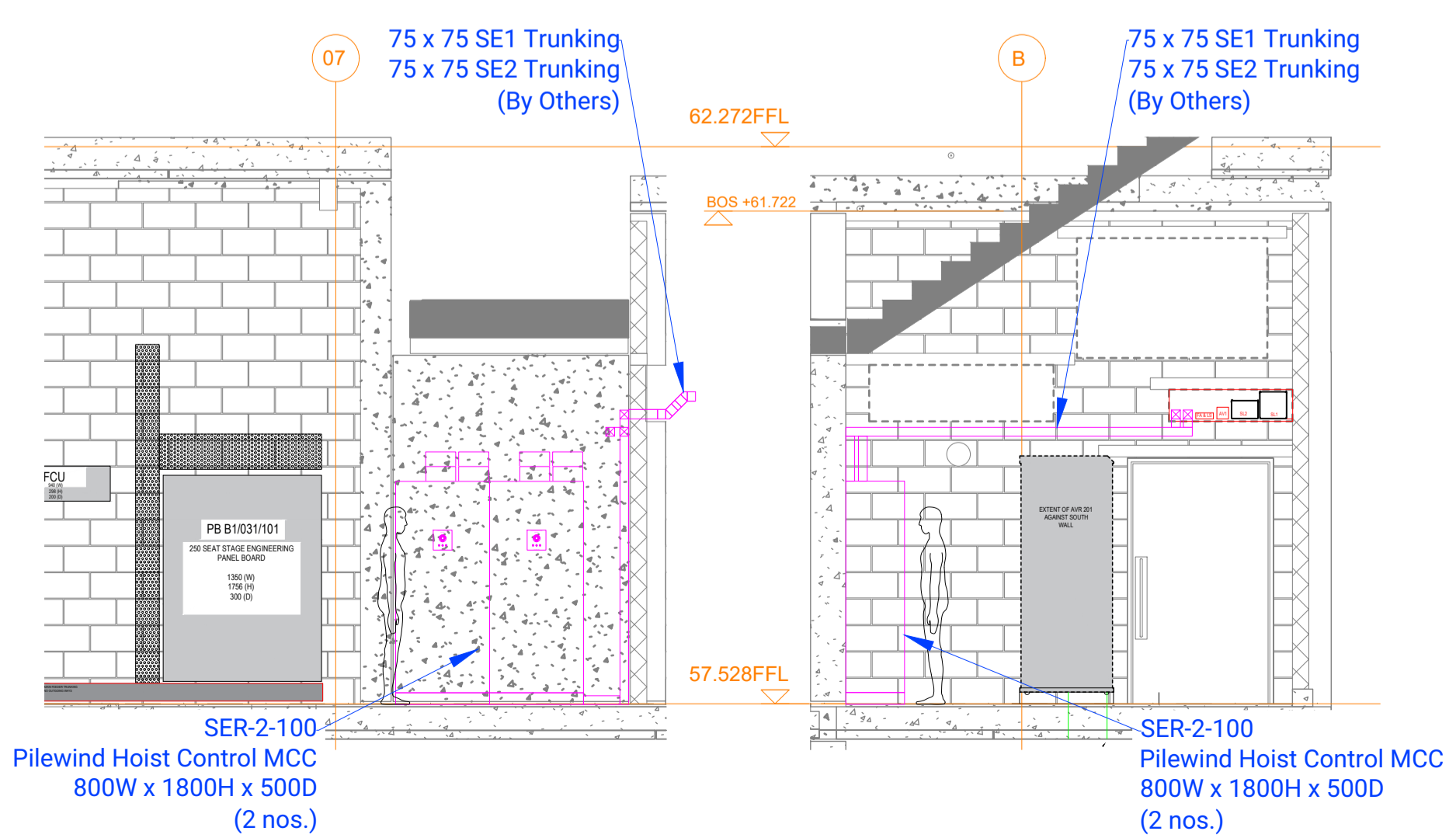
# Elevation (South)



# Plan - Rack Room



# Elevation - Rack Room (North & East)



Scale 1:50

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REVISIONS			
REV.	BY	DESCRIPTION	DATE
A	AM	FIRST ISSUE	23/05/2024
C01	SH	CONSTRUCTION ISSUE	15/04/2025
C02	SH	For Record	28/04/2025

Notes:

- Should be read in conjunction with the following drawings:
  - UOONHB-JCJ-T2-04-DR-OT-140001
  - UOONHB-JCJ-T2-XX-DR-OT-140002
  - UOONHB-JCJ-T2-XX-DR-OT-140003
  - UOONHB-JCJ-T2-XX-DR-OT-140004
  - UOONHB-JCJ-T2-XX-DR-OT-140007
  - UOONHB-JCJ-T2-ZZ-DR-OT-140008
  - UOONHB-JCJ-T2-ZZ-DR-OT-140009
  - UOONHB-JCJ-T2-ZZ-DR-OT-140010
  - UOONHB-JCJ-T2-ZZ-DR-OT-140011
  - UOONHB-JCJ-T2-ZZ-DR-OT-990211
  - UOONHB-JCJ-T2-ZZ-DR-OT-990212
  - UOONHB-JCJ-T2-ZZ-DR-OT-990213
  - UOONHB-JCJ-T2-ZZ-DR-OT-990214
- Base drawing used
  - UOONHB-HAL-T2-BM-DR-A-005700\_P02
  - UOONHB-HAL-T2-BM-DR-A-005701\_P02
  - UOONHB-HAL-T2-ZZ-DR-A-005720\_P02
  - UOONHB-HAL-T2-ZZ-DR-A-005722\_P03
  - UOONHB-STE-T2-BM-DR-OT-132910\_P01
- Primary containment SE1 & SE2 provided by others
- 400VAC TPN&E 125A power supply to MCC provided by others

Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	AM	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	1 : 50	PAPER SIZE:	A1

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PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-GA-99-0201
CLIENT NO.	UOONHB-JCJ-BB-ZZ-DR-OT-990201
TITLE	260 Seat Theatre Control Layout General Arrangement
PURPOSE	A5 - Accepted as Suitable for Record

REV	C02
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REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	04/01/2024
C01	PT	Response to Consultant's Comments & For Construction	29/03/2024
C02	JC	OUES SCHEDULE ADDED	03/06/2024
C03	SH	FOR RECORD	28/04/2025

Notes:

Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S	PAPER SIZE:	A1

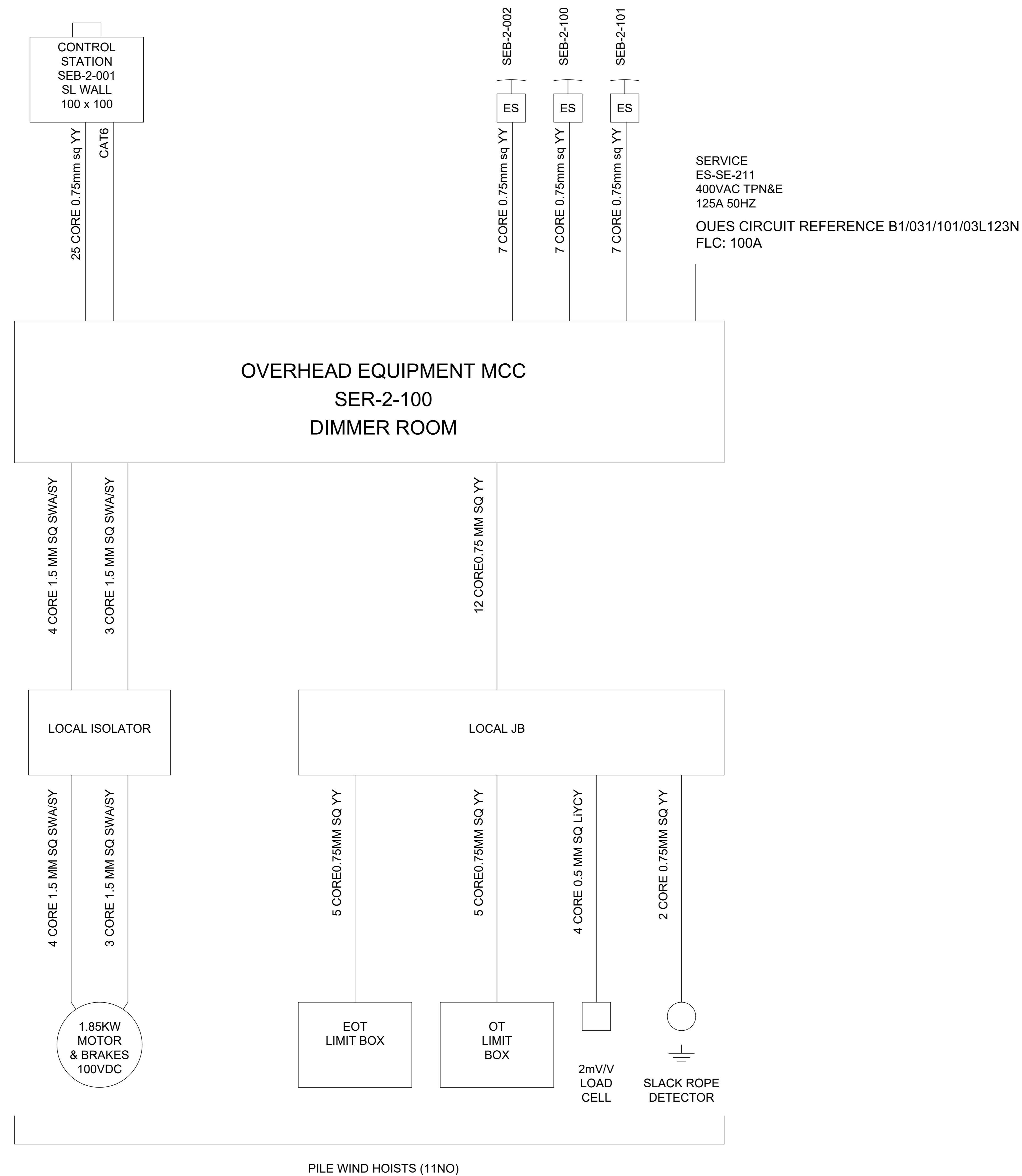
**J&C Joel**   
Inspiration in every performance

PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0211
CLIENT NO.	U00NHB-JCJ-T2-ZZ-DR-OT-990211

TITLE	250 Seat Theatre Overstage Equipment Control System Line Diagram
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PURPOSE	A5 - Accepted as Suitable for Record
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REV C03



Scale N.T.S.

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	04/01/2024
C01	PT	Response to Consultant's Comments & For Construction	29/03/2024
C02	JC	OUES SCHEDULE ADDED	03/06/2024
C03	SH	FOR RECORD	28/04/2025

Notes:

Status:  
 A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S.	PAPER SIZE:	A1

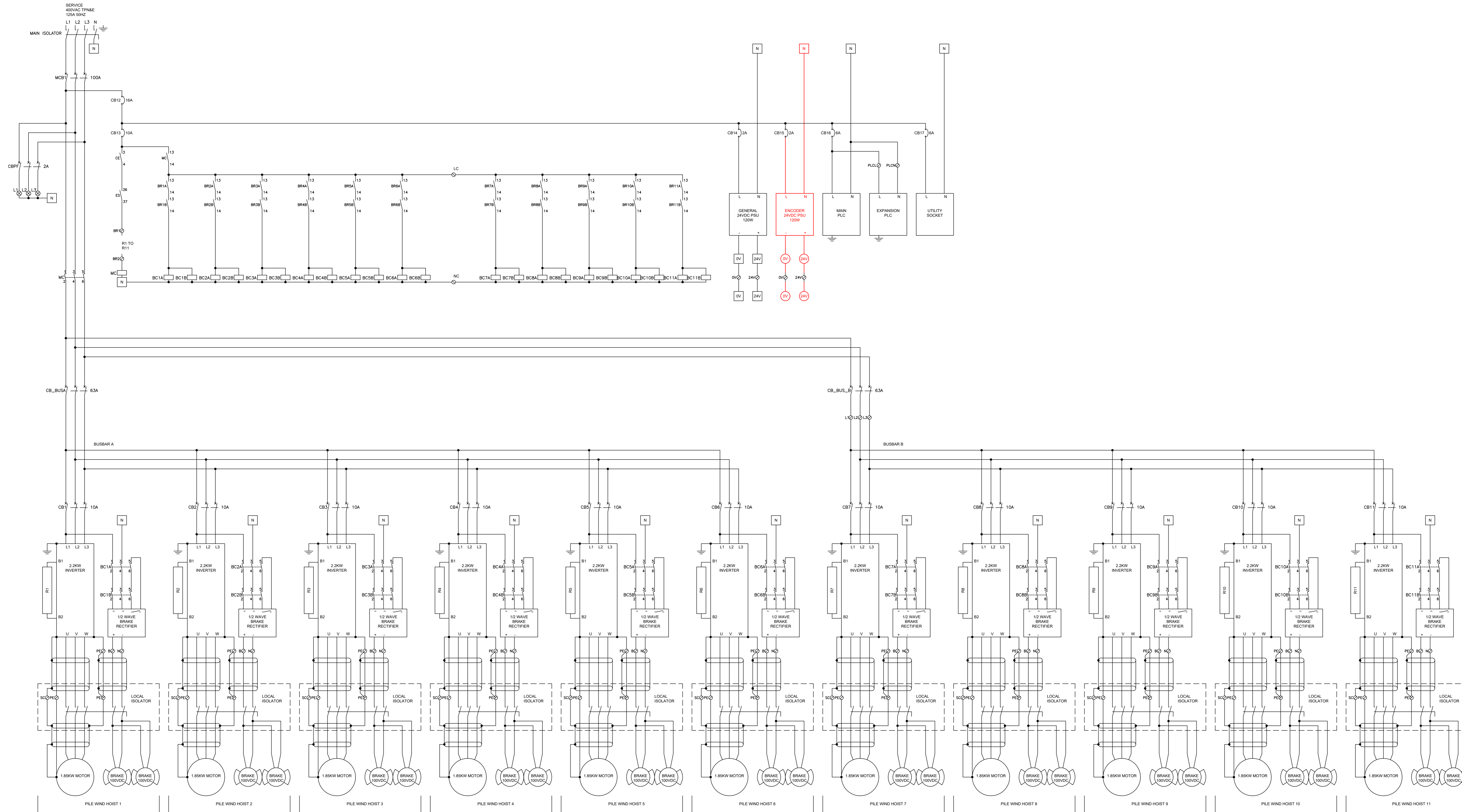


PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0212
CLIENT NO.	U00NHB-JCJ-T2-ZZ-DR-OT-990212

TITLE  
 250 Seat Theatre  
 Overstage Equipment Control  
 System  
 Power Diagram

PURPOSE  
 A5 - Accepted as  
 Suitable for Record

Note: OUES Circuit Reference  
 B1/031/101/03L123N



Scale N.T.S.

REVISIONS			
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	04/01/2024
C01	PT	For Construction	02/04/2024
C02	SH	FOR RECORD	28/04/2025

Notes:

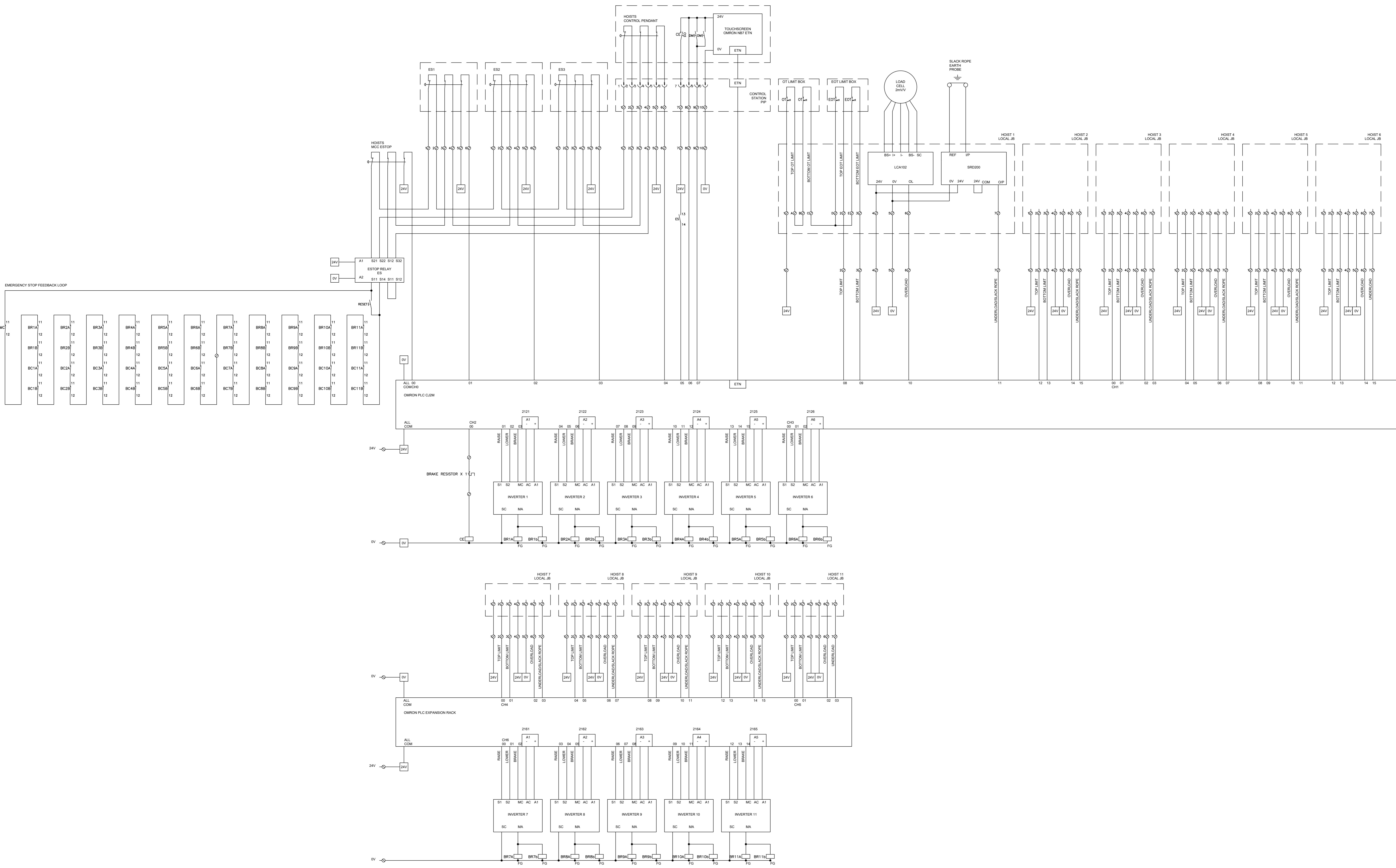
Status:  
 A -       B -       C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN:	SH	DATE:	28/04/2025
CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S	PAPER SIZE:	A1



PROJECT	4334 - Oxford Humanities		
JCJ NO.	4334-DE-99-0213		
CLIENT NO.	U00NHB-JCJ-T2-ZZ-DR-OT-990213		
TITLE	250 Seat Theatre Overstage Equipment Control System Control Diagram		
PURPOSE	A5 - Accepted as Suitable for Record		
		REV	C02



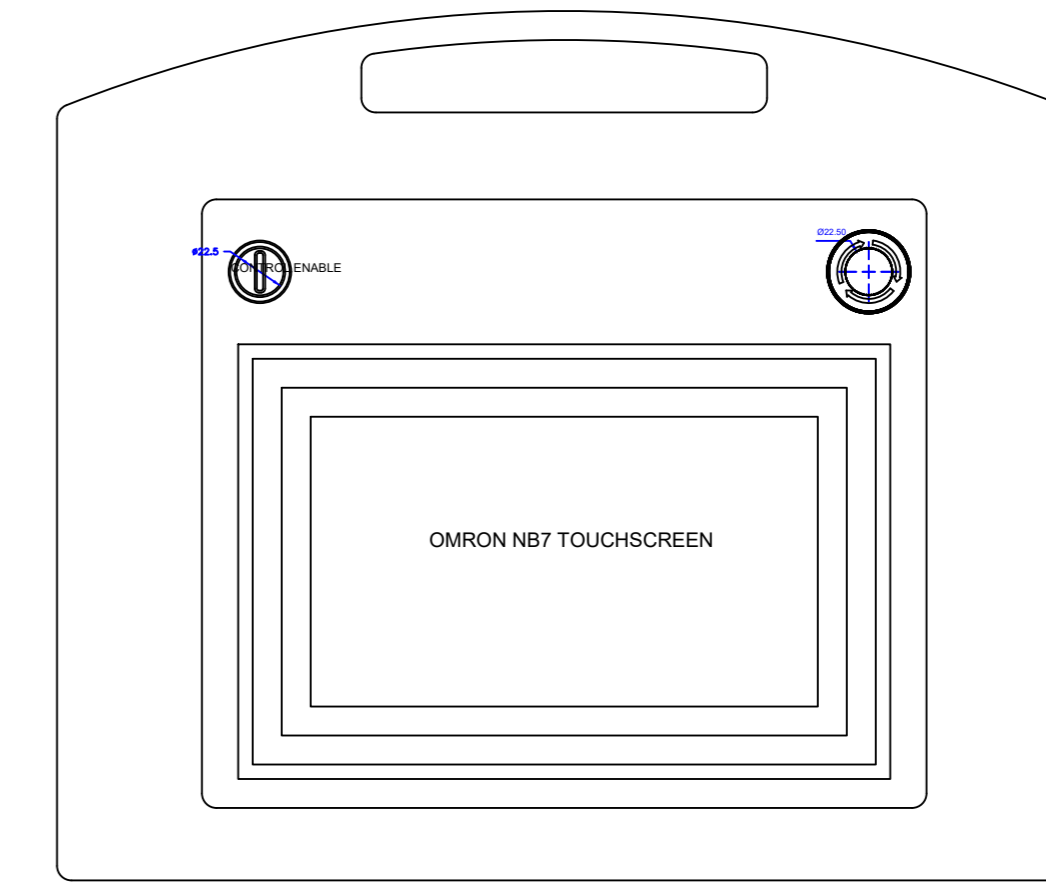
Scale N.T.S.

REVISIONS

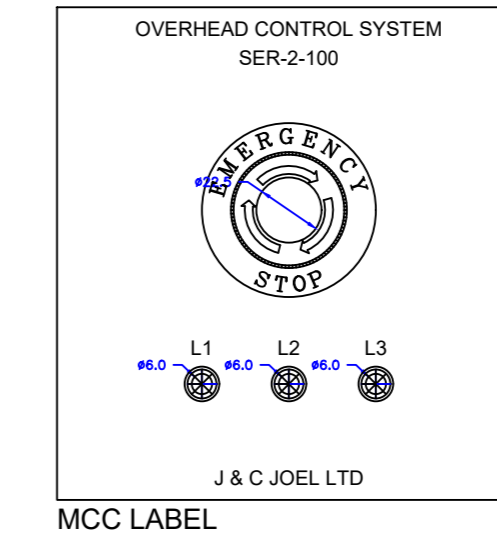
REV.	BY	DESCRIPTION	DATE
P01	PT	FIRST ISSUE	04/01/2024
C01	PT	Response to Consultant's Comments & For Construction	04/01/2024
C02	JC	OUES SCHEDULE ADDED	03/06/2024
C03	SH	FOR RECORD	28/04/2025

Note: OUES Circuit Reference Label to be placed on the cabinet door; B1/031/101/03L123N

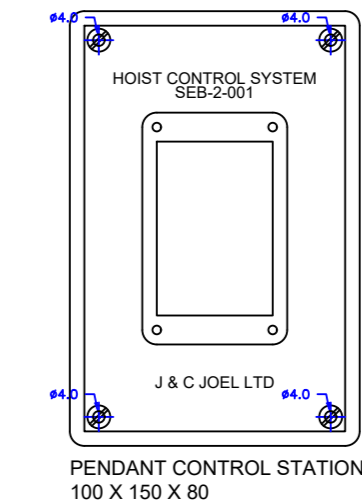
Location of MCCs & E-Stops:  
UOONHB-JCJ-T2-ZZ-DR-OT-990201



TOUCHSCREEN QTY 1



MCC LABEL



PENDANT CONTROL STATION 150 X 150 X 80

BRAKE RESISTOR MOUNTING TBD

Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

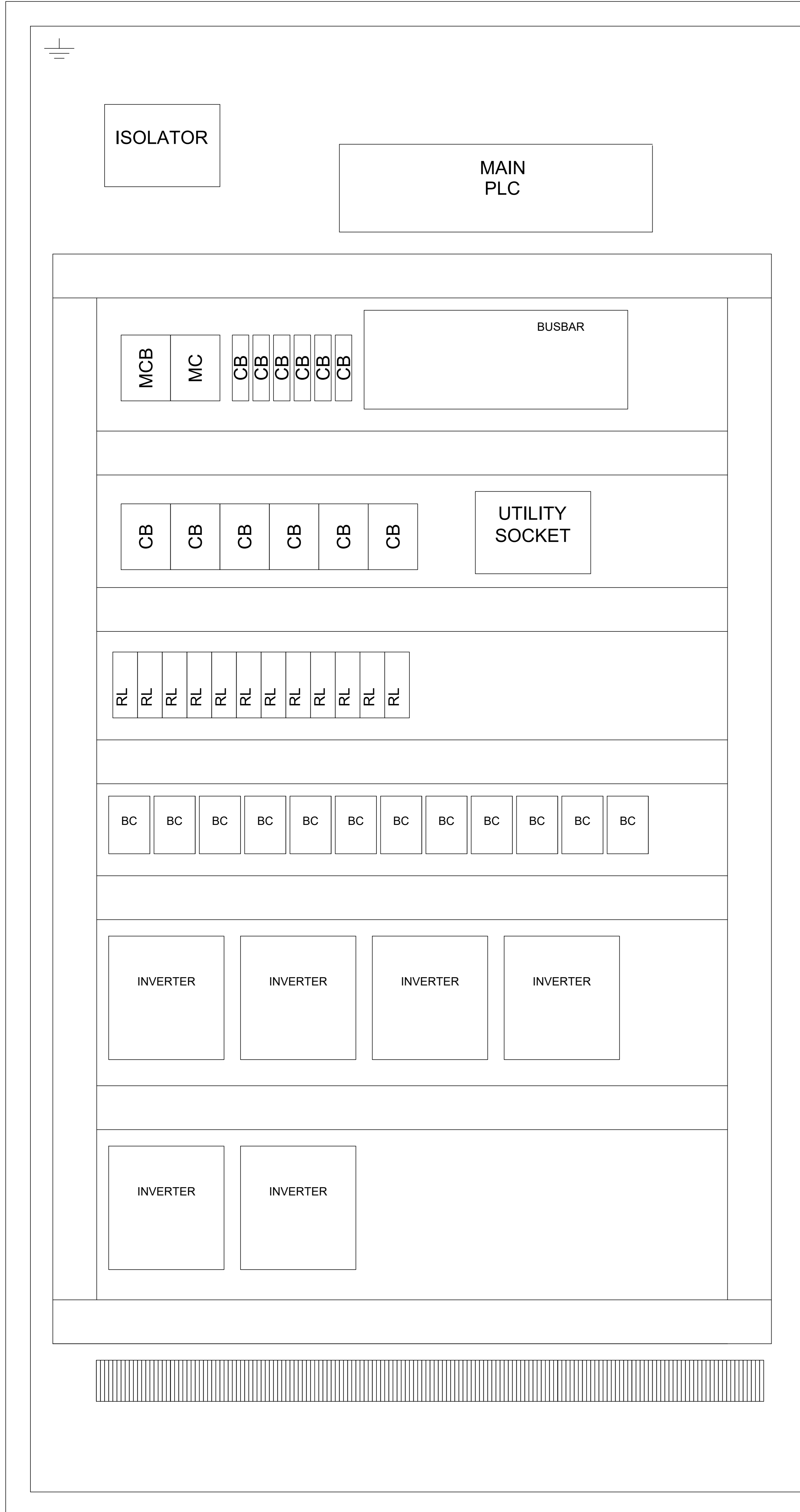
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CHECKED:	JC	DATE:	28/04/2025
APPROVED:	OS	DATE:	28/04/2025
SCALE:	N.T.S	PAPER SIZE:	A1

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PROJECT	4334 - Oxford Humanities
JCJ NO.	4334-DE-99-0214
CLIENT NO.	UOONHB-JCJ-T2-ZZ-DR-OT-990214

TITLE	250 Seat Theatre Overstage Equipment Control System General Arrangement
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PURPOSE	A5 - Accepted as Suitable for Record
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OVERHEAD MCC  
2NO 1800 X 800 X 500 (DOUBLE DOORS)

Scale N.T.S.

