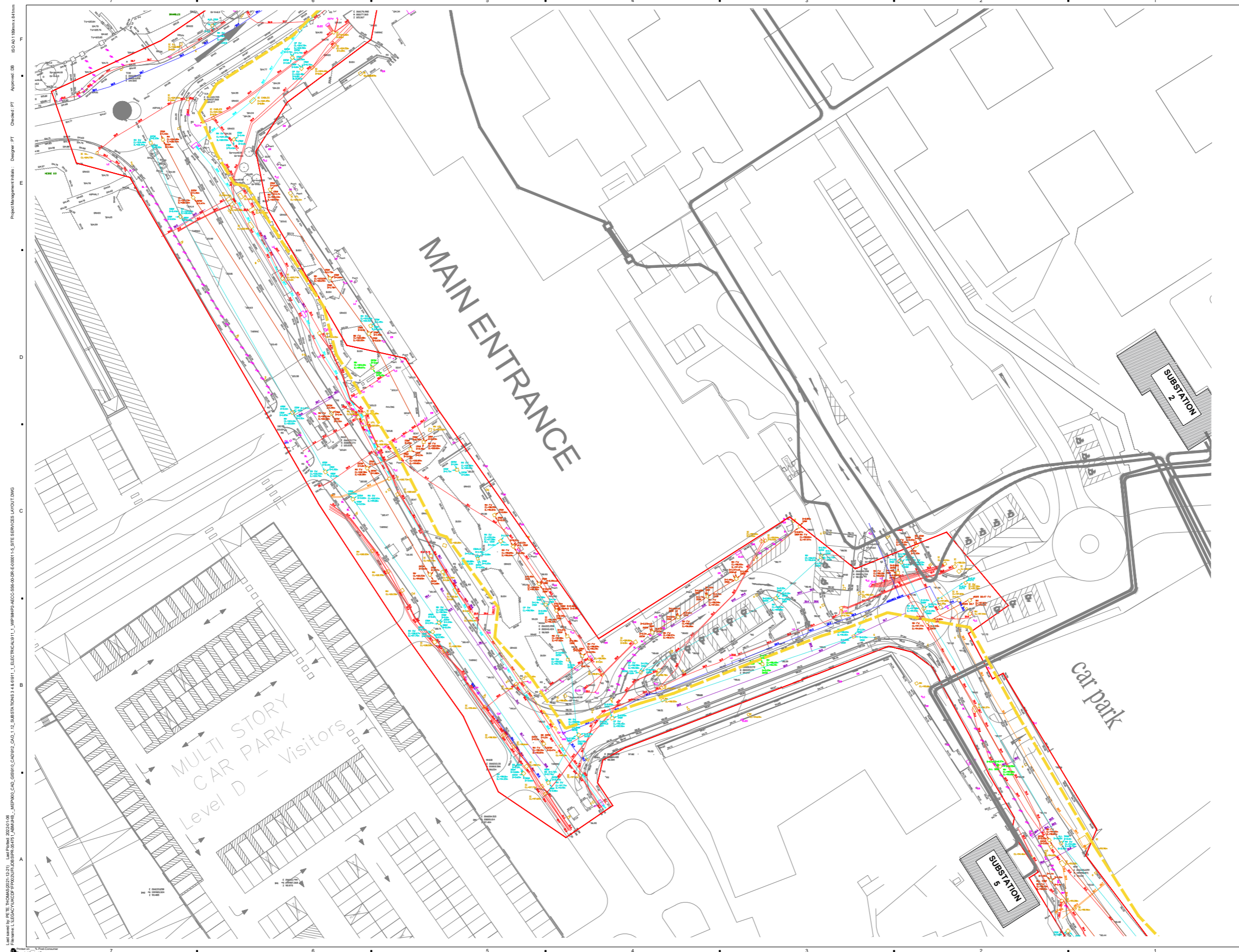


Full Size Drawings - AECOM - Electrical



Project
MORRISTON
HOSPITAL
SUBSTATION 6

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Notes
1. THIS DRAWING IS PROVIDED FOR INFORMATION ONLY AND SHOULD NOT BE RELIED UPON FOR EXACT LOCATIONS OF EXISTING AND PROPOSED SERVICES.
2. THERE HAVE BEEN SCALING ISSUES WHEN REPORTING THE SURVEY INFORMATION ACROSS THE SITE.
3. TO BE READ IN CONJUNCTION WITH MHP2-AECC-HV-00-DR-E-00004

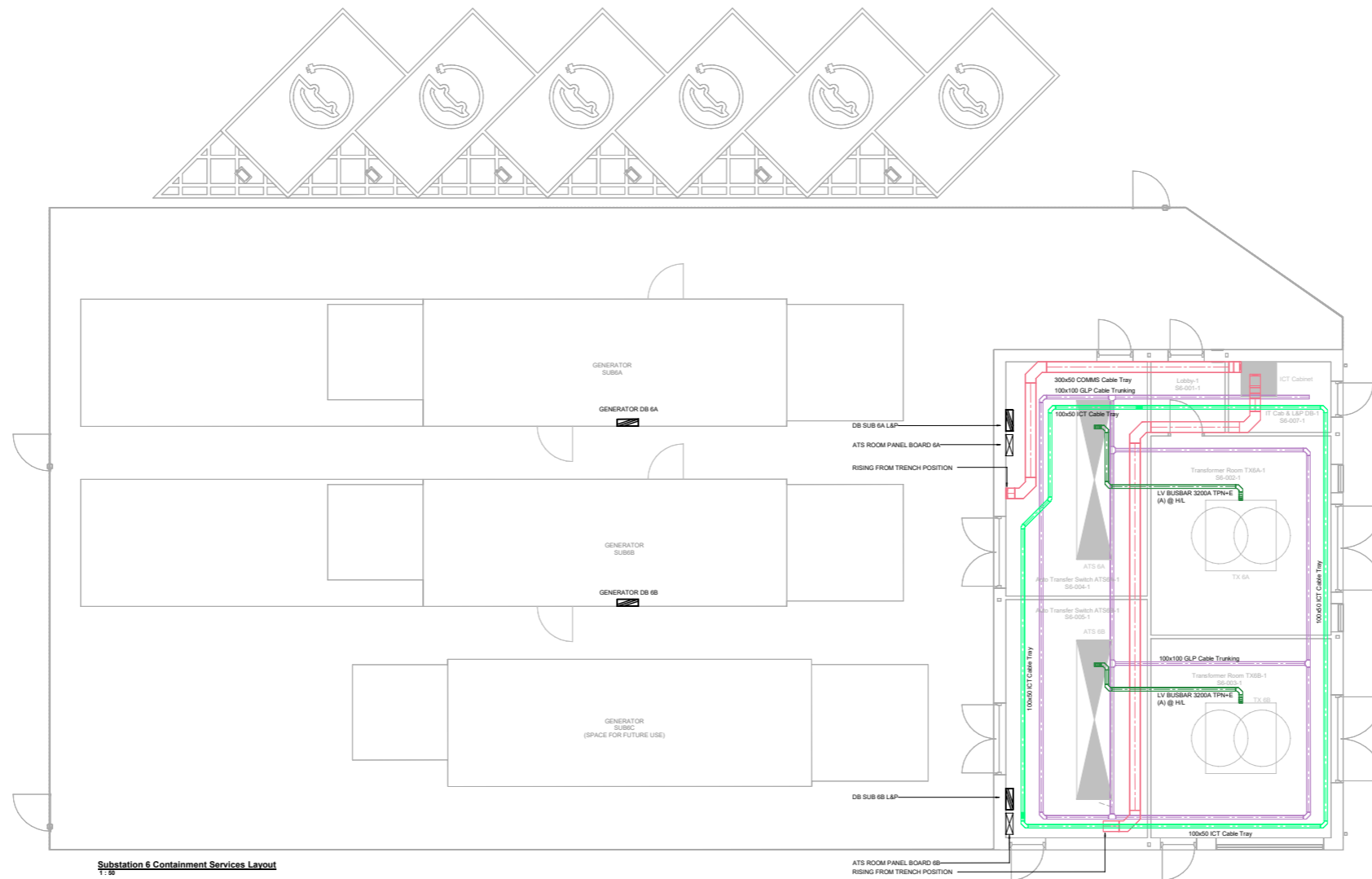
LEGEND
PROPOSED NEW 3C 185mm² HV (11kV) XLPE/SWA/ MOPE CABLING TO BS 6822
EXISTING 11kV AIRMAINS HV CABLING
EXISTING SUBSTATIONS

Issue / Revision	

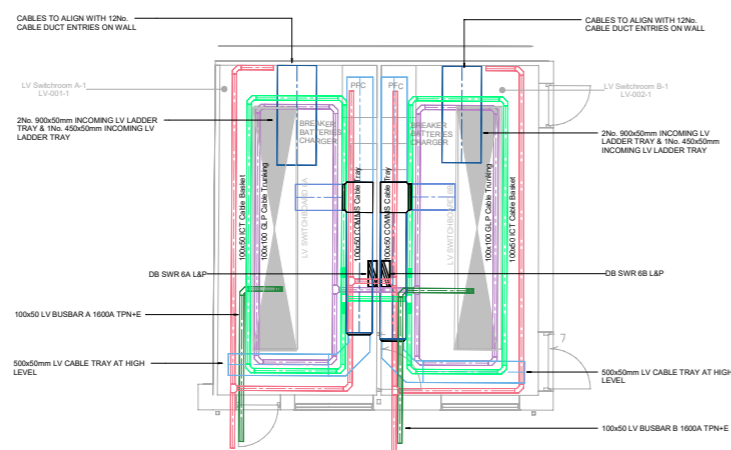
Purpose of Issue
FOR INFORMATION
Project Number
60586927
Sheet Title
MORRISTON HOSPITAL
PROPOSED SITE HV LAYOUT
SHEET 5 OF 5
Sheet Number
MHP2-AECC-HV-00-DR-E-000015
Scale : 1:250 @ A0 **Rev** : P02

Full Size Drawings - AECOM - Electrical

Project Management/Title: Designer: SZ
 Checked: SR
 Approved: DB
 Drawn by: GDI
 ISO 24484/Rev: 1 1/2018



Substation 6 Containment Services Layout
1:50



LV Switchroom Containment Services Layout
1:50

AECOM

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 2. THIS IS NOT AN INSTALLATION DRAWING. DO NOT SCALE OFF THIS DRAWING.
 3. TO BE READ ALONGSIDE ARCHITECTURAL SECURITY AND ROOMING DRAWINGS AND SPECIFICATION INFORMATION.
 4. BELOW GROUND TRENCH LAYOUTS SHOWN ON DRAWING: MHP2-AECOM-SS6-00-M2-E-0002.

- Legend**
- ELV TRAY FOR FAS & FIBRE CABLES: 300x50mm INCLUDING 50x50mm GALVANISED STEEL TRUNKING FOR FIBRE OPTIC TO BE INSTALLED IN
 - LV BUSBAR: 1600A TPNH-E (AMB)
 - LV SUBMAIN CABLE LADDER (AMB)
 - LIGHTING & POWER TRUNKING: 100x100mm
 - ICT DATA TRAY
 - LV SUBMAIN CABLE TRAY

Issue/Revision

Rev	Issue	Description	By	App'd
01	ISSUE 1	ISSUE 1		

Purpose Of Issue

STAGE 4 ISSUE

Project Number
60586927

Sheet Title
SUBSTATION 6 & LV SWITCHROOMS INTERNAL ABOVE GROUND CONTAINMENT LAYOUT

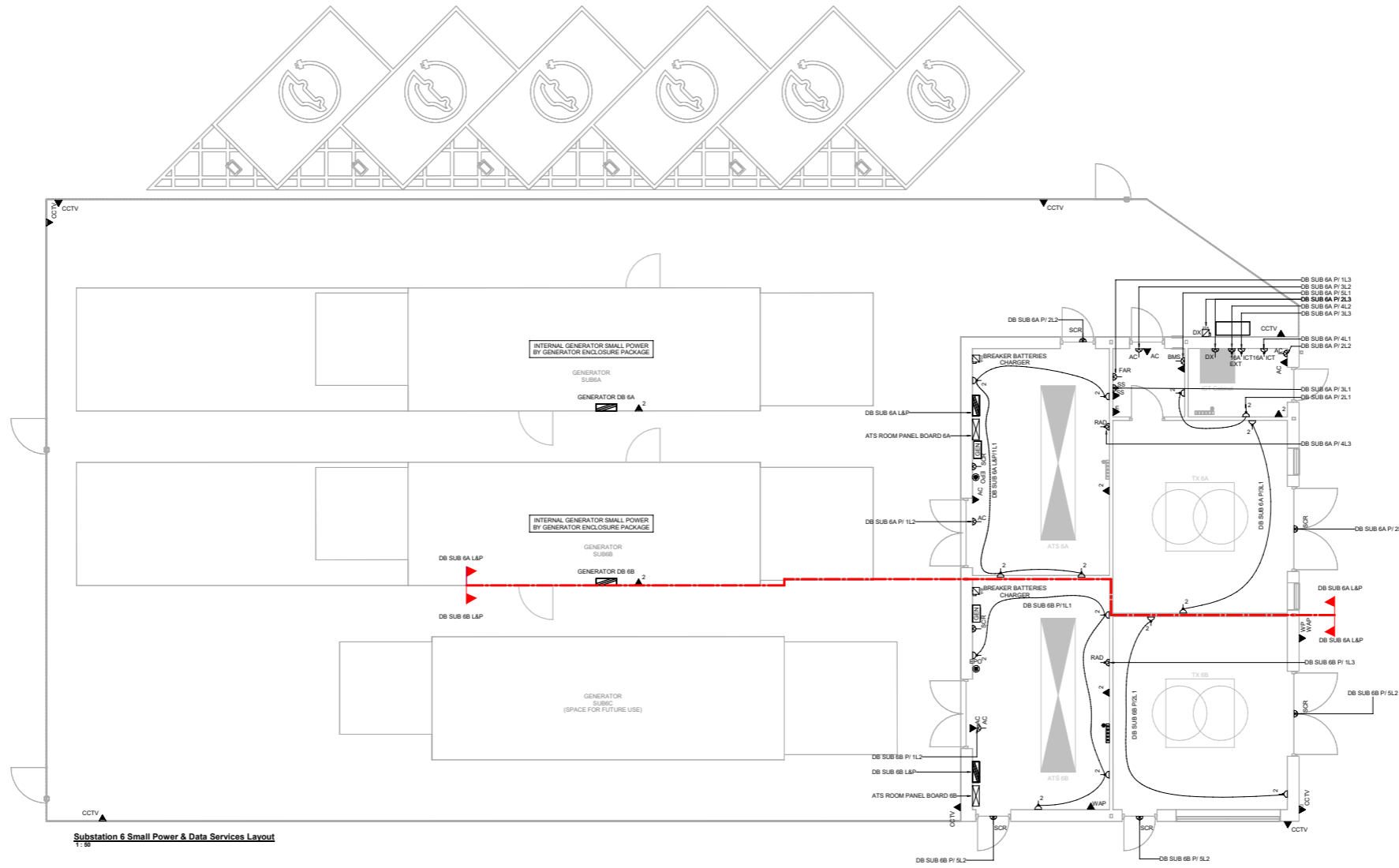
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Scale: 1:50@A0 **Rev:** P02

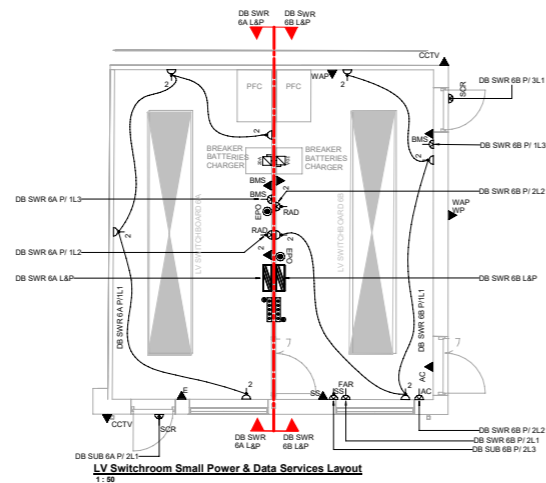
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Project Management: Designer: DR
 Checked: DR
 Approved: DB
 Drawn by: GDI
 ISO 9001:2015
 11/08/2018



Substation 6 Small Power & Data Services Layout
1:50



LV Switchroom Small Power & Data Services Layout
1:50

AECOM

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3. DO NOT SCALE OFF THIS DRAWING.

Legend

- ⊕ FUSED CONNECTION UNIT SWITCHED
- ⊕ DOUBLE SOCKET OUTLET SWITCHED
- ⊕ UNSWITCHED 16A COMMANDO SOCKET - SINGLE PHASE
- ⊕ BREAK GLASS UNITS WITH PERSPEX COVER FOR HV LV INTERTRIP - REFER TO SCHEMATIC
- ⊕ SINGLE POLE ISOLATOR
- ⊕ DATA SOCKET DOUBLE DATA (RJ45)
- ⊕ DATA SOCKET BMS (RJ45)
- ⊕ DATA SOCKET CCTV (RJ45)
- ⊕ DATA SOCKET ACCESS CONTROL (RJ45)
- ⊕ EMERGENCY TELEPHONE
- ⊕ GENERATOR DISPLAY PANEL
- ⊕ EARTH BAR

Abbreviations

- AC DENOTES ACCESS CONTROL EQUIPMENT
- FAP DENOTES FIRE ALARM PANEL
- BMS DENOTES BMS PANEL
- DX DENOTES COOLING EQUIPMENT SUPPLY CONNECTION POINTS
- CCTV DENOTES CCTV EQUIPMENT CONNECTION POINTS
- EXT EXTRACT FAN
- RAD ELECTRIC RADIATOR
- ICT DENOTES CONNECTED TO ICT CABINET
- WP DENOTES WEATHERPROOF
- WAP DENOTES WIRELESS ACCESS POINT
- SCR SCREECH ALARM SYSTEM
- SS SMARTSCAN SYSTEM FOR LIGHTING
- GEN GENERATOR DISPLAY PANEL

Issue/Revision

Rev	Issue	Description	Author	Check

Purpose of Issue

STAGE 4 ISSUE

Project Number

60586927

Sheet Title

SUBSTATION 6
SMALL POWER & DATA LAYOUT

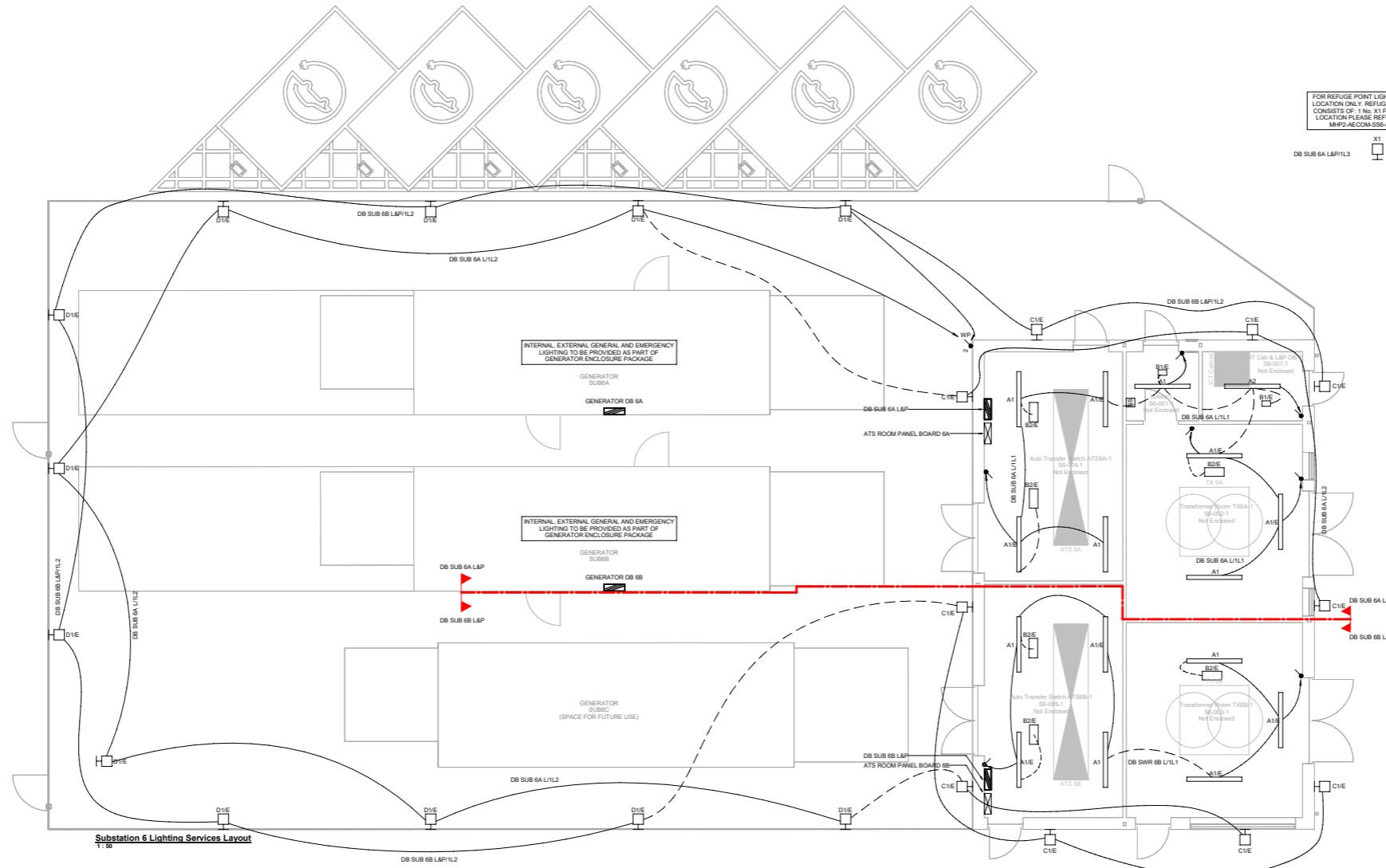
Sheet Number

MHP2-AECOM-SS6-00-M2-E-006201

Scale: 1:50@A0 Rev: P03

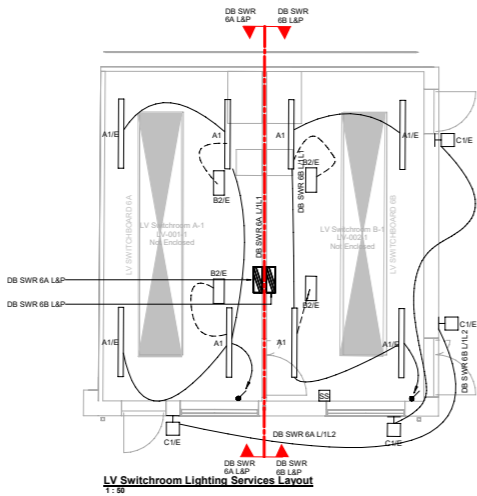
Full Size Drawings - AECOM - Electrical

Project Management: Designer: DR
 Checked: DR
 Approved: DR
 Drawn by: GDI
 ISO 9001:2015
 1:50



FOR REFUGE POINT LIGHTING, INDICATIVE LOCATION ONLY. REFUGE POINT LIGHTING CONSISTS OF 1 No. X1 FITTING FOR FINAL LOCATION PLEASE REFER TO DRAWING: MHP2-AECOM-SS6-00-M2-E-006301

Substation 6 Lighting Services Layout
1:50



LV Switchroom Lighting Services Layout
1:50

LIGHT REFERENCE	DESCRIPTION	IMAGE
A1	7070 lumens, 41W LED IP66 corrosion resistant luminaire manufactured from extruded aluminium with die-cast ends finished full polyester non-yellowing white with high impact resistant polycarbonate (Ae Thorkux AL Line or equal and approved). Fitting to have SMARTScan Capability.	
A2	10130 lumens, 50W LED IP66 corrosion resistant luminaire manufactured from extruded aluminium with die-cast ends finished full polyester non-yellowing white with high impact resistant polycarbonate (Ae Thorkux AL Line or equal and approved). Fitting to have SMARTScan Capability.	
B1	Standard Non-maintained, 3HR Operation IP66 Surface Mounted Emergency Luminaire (Ae Thorkux Duo-spot or equal & approved). Fitting to have SMARTScan Capability.	
B2	Standard adjustable IP65 emergency 3 SW LED beam head spotlight, with three hour non-maintained operation and wide beam distribution (Ae Thorkux Duo-spot or equal and approved). Fitting to have SMARTScan capability.	
C1	2840 lumens, 20W LED IP66 High performance wall mounted luminaire with integral emergency. Manufactured from strong high-pressure die-cast LM2 aluminium with high impact resistant UV stabilised acrylic polycarbonate reflector (Ae Thorkux Duo-spot or equal and approved). Fitting to have SMARTScan Capability.	
D1	855 Lumens, 15W LED IP66 Wall mounted luminaire with integral emergency. Manufactured from strong high-pressure die-cast LM2 aluminium with high impact resistance, fire resistant UV stabilised polycarbonate cover (Ae Thorkux Duo-spot with Hood & Corner or equal and approved). Fitting to have SMARTScan Capability.	
X1	3225 Lumens, 31W LED IP66 LED floodlight manufactured from die-cast aluminium with UV stabilised polycarbonate cover with area optical distribution. To be mounted on 5m high lighting column. Fitting to have SMARTScan Capability.	

AECOM

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- THIS IS NOT AN INSTALLATION DRAWING.
- DO NOT SCALE OFF THIS DRAWING.
- LIGHTING TO BE ON/OFF MANUAL CONTROL.
- EXTERNAL BUILDING MOUNTED FITTINGS SHALL BE CONTROLLED BY A PHOTOCELL SENSOR WITH A TIMELOCK OVERRIDE.
- ALL INTERNAL LIGHT FITTINGS TO BE SUSPENDED AT 3m HEIGHT FROM F.F.L.
- EXTERNAL MOUNTED FITTINGS AT 3m HIGH & EXTERNAL FENCE MOUNTED FITTINGS AT 2m HIGH FROM F.F.L.
- REFUGE POINT LIGHTING (1 No. X1 FITTING) TO BE CONTROLLED BY FIRE ALARM ACTIVATION.

Abbreviations

WP - WEATHERPROOF

Legend

- 3-PHASE ELECTRICAL DISTRIBUTION BOARD
- LIGHT SWITCH 'N' DENOTES GANG NUMBER
- SMART SCAN LIGHTING CONTROL PANEL

Issue/Revision

NO.	DATE	ISSUE	BY	CHKD
1		ISSUE		
2		ISSUE		
3		ISSUE		

Purpose Of Issue

STAGE 4 ISSUE

Project Number

60586927

Sheet Title

SUBSTATION 6 LIGHTING LAYOUT

Sheet Number

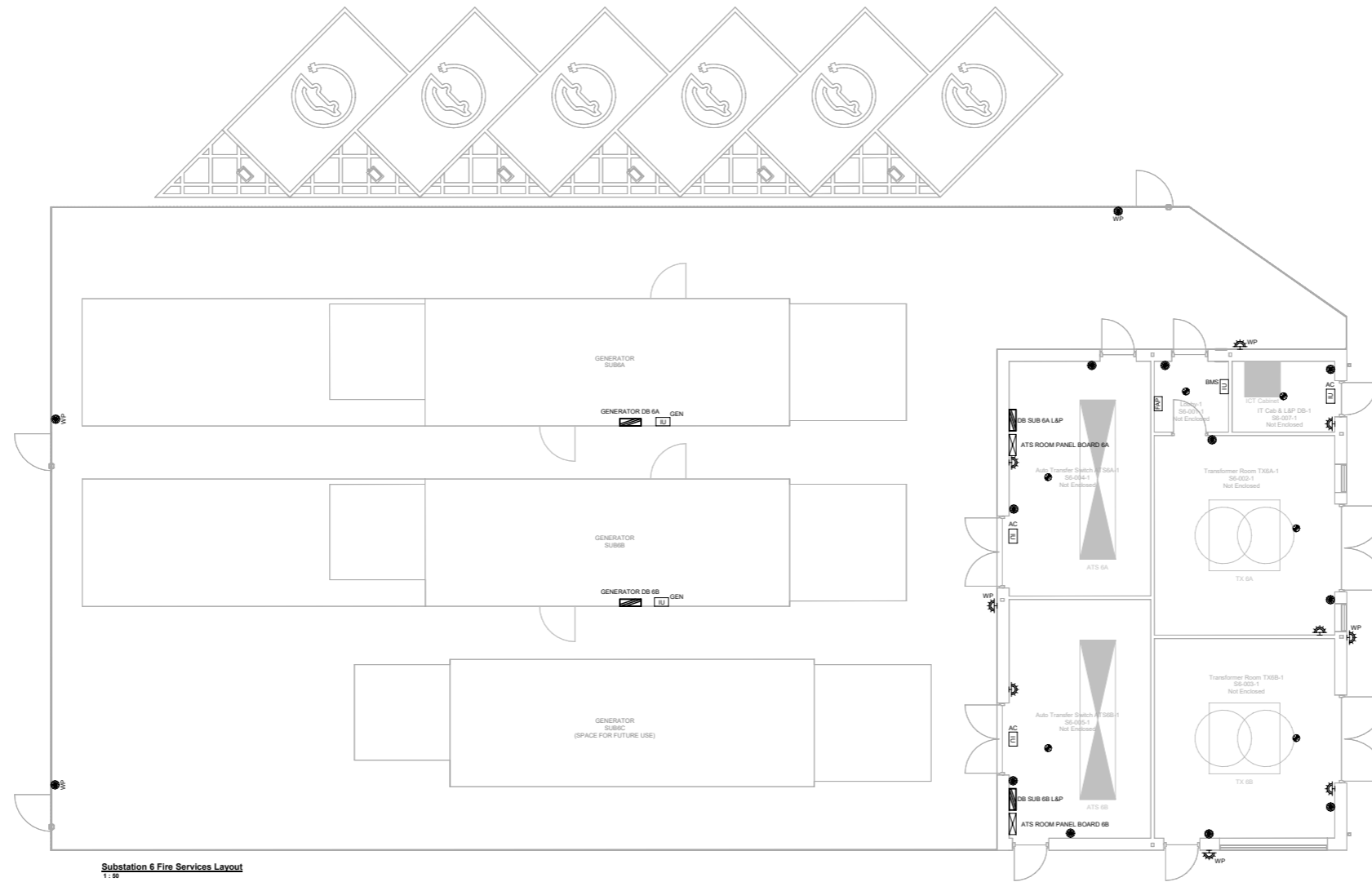
MHP2-AECOM-SS6-00-M2-E-006301

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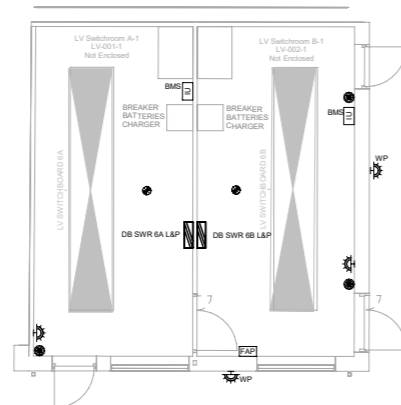
Rev: P03

Full Size Drawings - AECOM - Electrical

Project Management/Title: Designer: DB
 Checked: DB
 Approved: DB
 Drawn by: GDI
 ISO 2014/01/11/15/16mm



Substation 6 Fire Services Layout
1:50



LV Switchroom Fire Services Layout
1:50

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Legend
 WALL MOUNTED SOUNDER WITH FLASHING BEACON
 COMBINED SMOKE DETECTOR AND HEAT DETECTOR
 MANUAL CALL POINT
 FIRE ALARM INTERFACE UNIT
 FIRE ALARM PANEL

Abbreviations
 AC - ACCESS CONTROL
 WP - WEATHERPROOF
 GEN - INTERFACE FOR GENERATOR TO LINK GENERATOR ENCLOSURE PROVIDED FIRE ALARM SYSTEM TO INTERFACE WITH SITE WIDE FIRE ALARM SYSTEM

Issue/Revision

Rev	Issued	Description	Author
1			

STAGE 4 ISSUE

Project Number

60586927

Sheet Title

SUBSTATION 6
 FIRE ALARM LAYOUT

Sheet Number

MHP2-AECOM-SS6-00-M2-E-006701

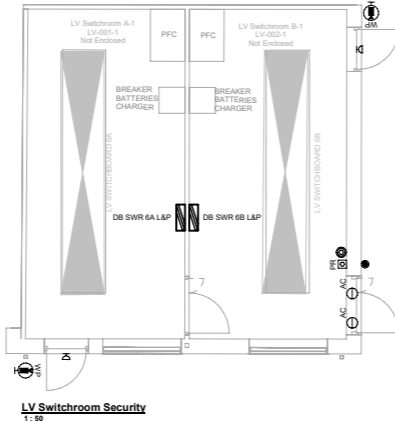
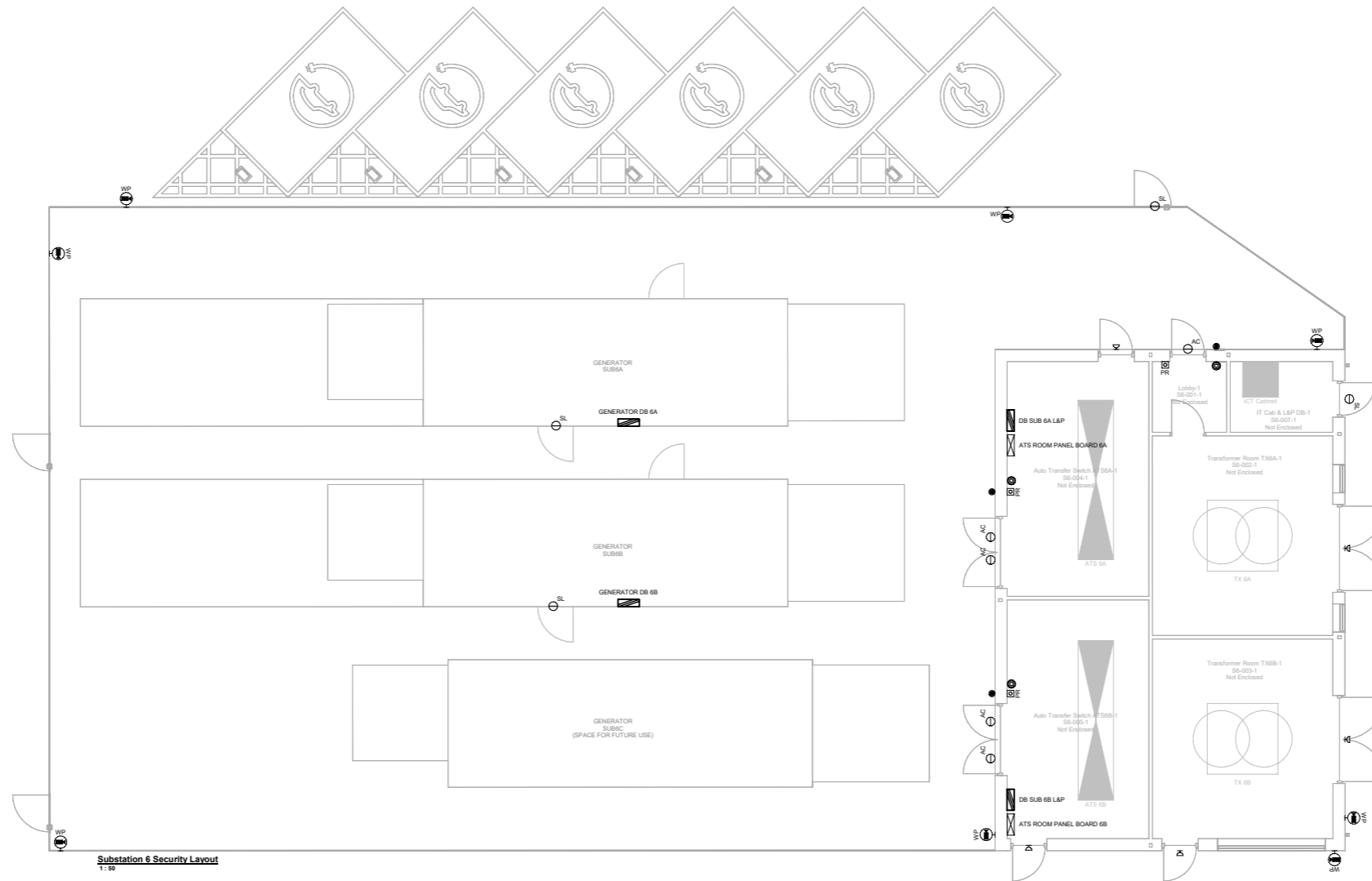
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Rev: P03

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Project Management Initials: Designer: SA
 Checked: SA
 Approved: DB
 Drawn by: GDI
 ISO A3 (420mm x 297mm)



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 - TO BE READ ALONGSIDE ARCHITECTURAL SECURITY AND ROOMING DRAWINGS AND SPECIFICATION INFORMATION.
 - ALL EXTERNALLY MOUNTED ACCESSORIES TO BE WEATHERPROOF.
 - ALL CCTV & ACCESS CONTROL TO GO TO EQUIPMENT IN HUB ROOM. REFER TO SPECIFICATION FOR FURTHER DETAIL.
 - ALL CCTV CAMERA'S SHOWN ON PERIMETER TO BE MOUNTED AT 2M ON PERIMETER PALISADE FENCE IN LOCATIONS SHOWN.

- Legend**
- BREAK GLASS
 - PROXIMITY ACCESS CARD READER
 - REQUEST TO EXIT BUTTON
 - ACCESS CONTROL
 - DOME CAMERA SURFACE MOUNTED FIXED EXTERNAL
 - SALT LOCK
 - SCREECH ALARM SOUNDER WITH ASSOCIATED DOOR CONTACT AS REQUIRED TO REGISTER DOOR OPEN

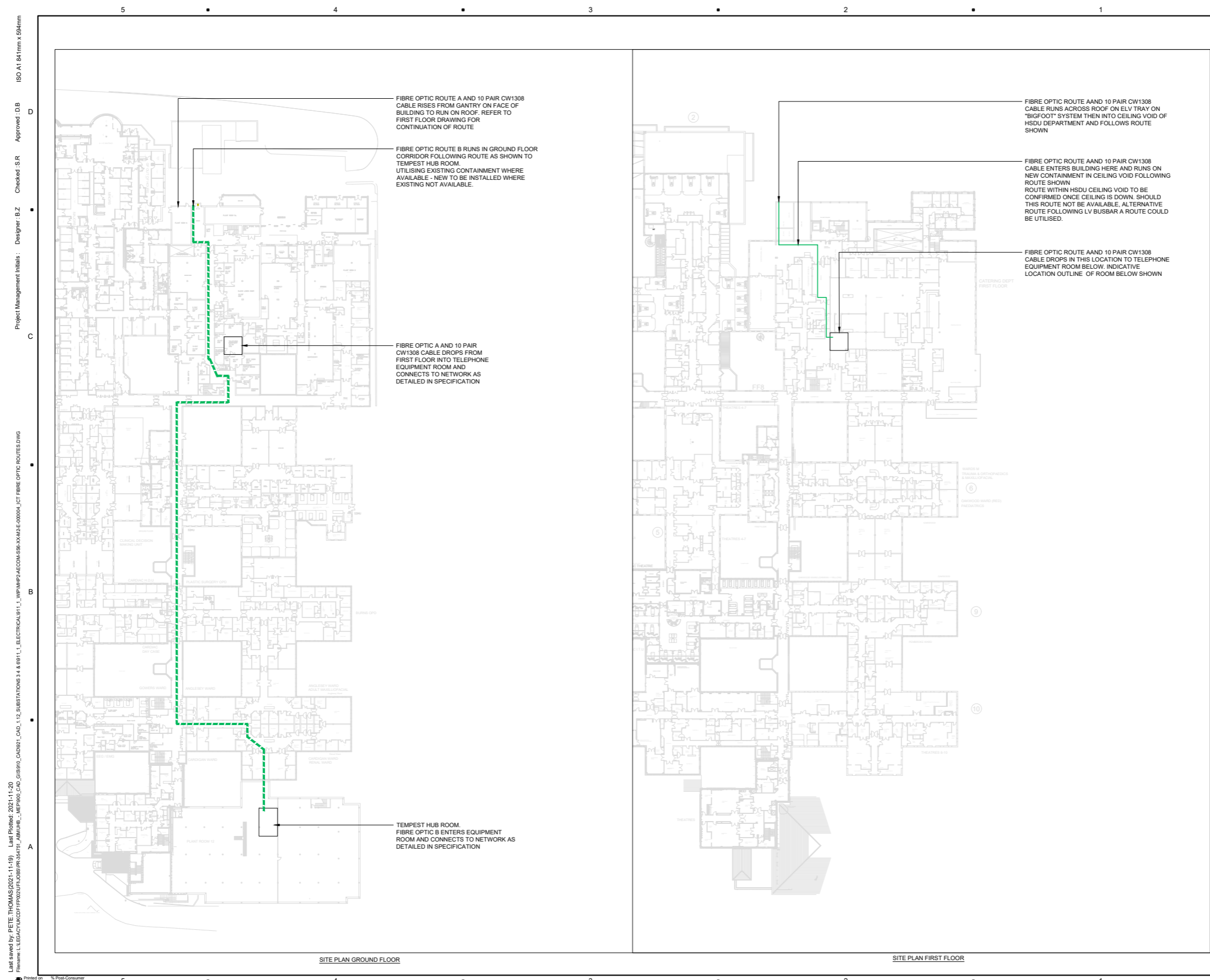
Rev	Issue	Description	By	Check	Date
01	ISSUE	STAGE 4 ISSUE			

Purpose of Issue
 STAGE 4 ISSUE
Project Number
 60586927
Sheet Title
 SUBSTATION 6 SECURITY LAYOUT

Sheet Number
 MHP2-AECOM-SS6-00-M2-E-006801
 Scale: 1:50@A0 Rev: P04

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Project

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Legend

- INCOMING FIBRE TRAY (A) AND EXTERNAL GRADE 10 PAIR CW1308 CABLE TO PABX ROOM TO BE LIDDED WITH GALVANISED STEEL LID WHEN EXTERNAL
- - - INCOMING FIBRE TRAY (B) TO BE LIDDED WITH GALVANISED STEEL LID WHEN EXTERNAL

Issue / Revision

IR	DATE	DESCRIPTION
P02	19/11/2021	STAGE 4 ISSUE
P01	05/11/2021	STAGE 4 ISSUE

Purpose of Issue

STAGE 4 ISSUE

Project Number

60586927

Sheet Title

SUBSTATION 6 NUCLEUS SITESIDE ELECTRICAL SERVICES ROUTING ICT FIBRE OPTIC

Sheet Number

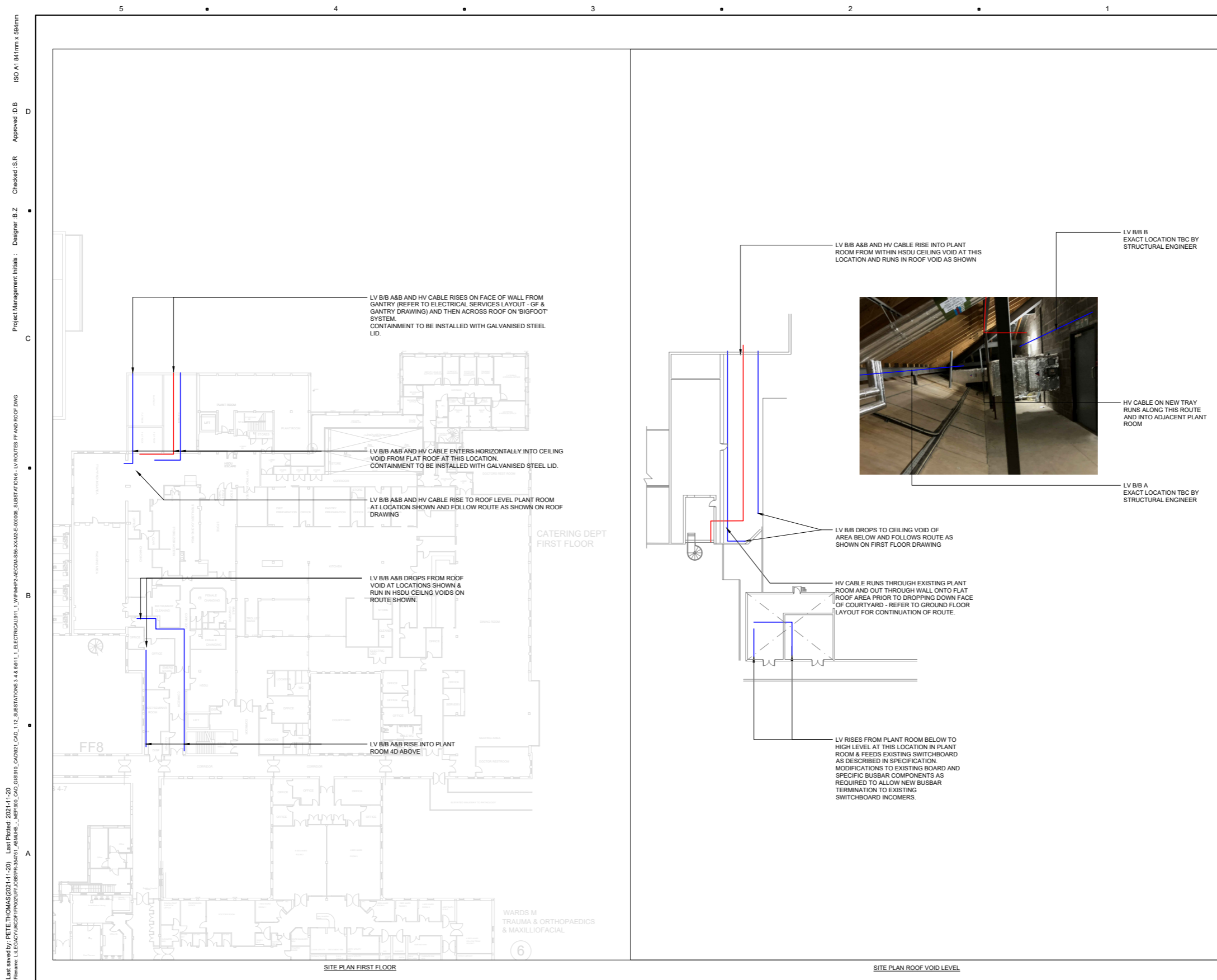
MHP2-AECOM-SS6-XX-M2-E-000004

Scale : 1:500 @ A1 Rev : P02

Last saved by: PETE.THOMAS(2021-11-19) Last Printed: 2021-11-20
 Filename: L:\LEGACY\KIER\PROJECTS\MORRISTON\SS6-XX-M2-E-000004\ICT FIBRE OPTIC ROUTES.DWG

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- THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION.
- ROUTES SHOWN TO INCLUDE FOR CONTAINMENT ALONG LENGTH TO BE 150MM LV HEAVY DUTY TRAY AND SEPARATED FROM EXISTING ELV SERVICES BY 150MM.
- CONTRACTOR TO REVIEW ROUTE ALONG ENTIRETY OF ROUTE TO ENSURE ALL REQUIRED ASPECTS OF THE INSTALLATION ARE ALLOWED FOR INCLUDING SUPPORTS AND MODIFICATION AS REQUIRED. WHERE ACCESS TO EXISTING AREAS DOES NOT PERMIT REVIEW, THESE SHOULD BE CLEARLY IDENTIFIED AS PART OF THE TENDER RETURN AND INCLUDED ON THE PROJECT RISK REGISTER
- WHERE SERVICES RUN EXTERNALLY, CONTAINMENT TO BE INSTALLED WITH GALVANISED STEEL LIDS.
- BUSBAR TO NOT HAVE FALL ALONG ROUTE AND EITHER BE VERTICAL OR HORIZONTAL.
- UNISTRUT SUPPORTING BUSBAR AND HV TRAY IN ROOF AREAS TO BE CLIPPED TO EXISTING METAL OR WALL STRUCTURE WITH DROP ROD SUPPORT.

Legend

- LV BUSBARS 1600A TP+N+E (A&B)
- NFW HV CARI F

Issue / Revision

Issue / Revision	DATE	DESCRIPTION
P06	19/11/2021	STAGE 4 ISSUE
P05	05/11/2021	STAGE 4 ISSUE
P04	25/08/2021	STAGE 3 UPDATE
P03	13/08/2021	STAGE 3 ISSUE
P02	28/05/2021	UPDATED TO KIER'S COMMENTS
P01	24/05/2021	STAGE 2 ISSUE FOR COMMENTS
1/R		

Purpose of Issue

STAGE 4 ISSUE

Project Number

60586927

Sheet Title

SUBSTATION 6 NUCLEUS SITEWIDE ELECTRICAL SERVICES ROUTING FIRST FLOOR AND ROOF LAYOUT

Sheet Number

MHP2-AECOM-SS6-XX-M2-E-000006

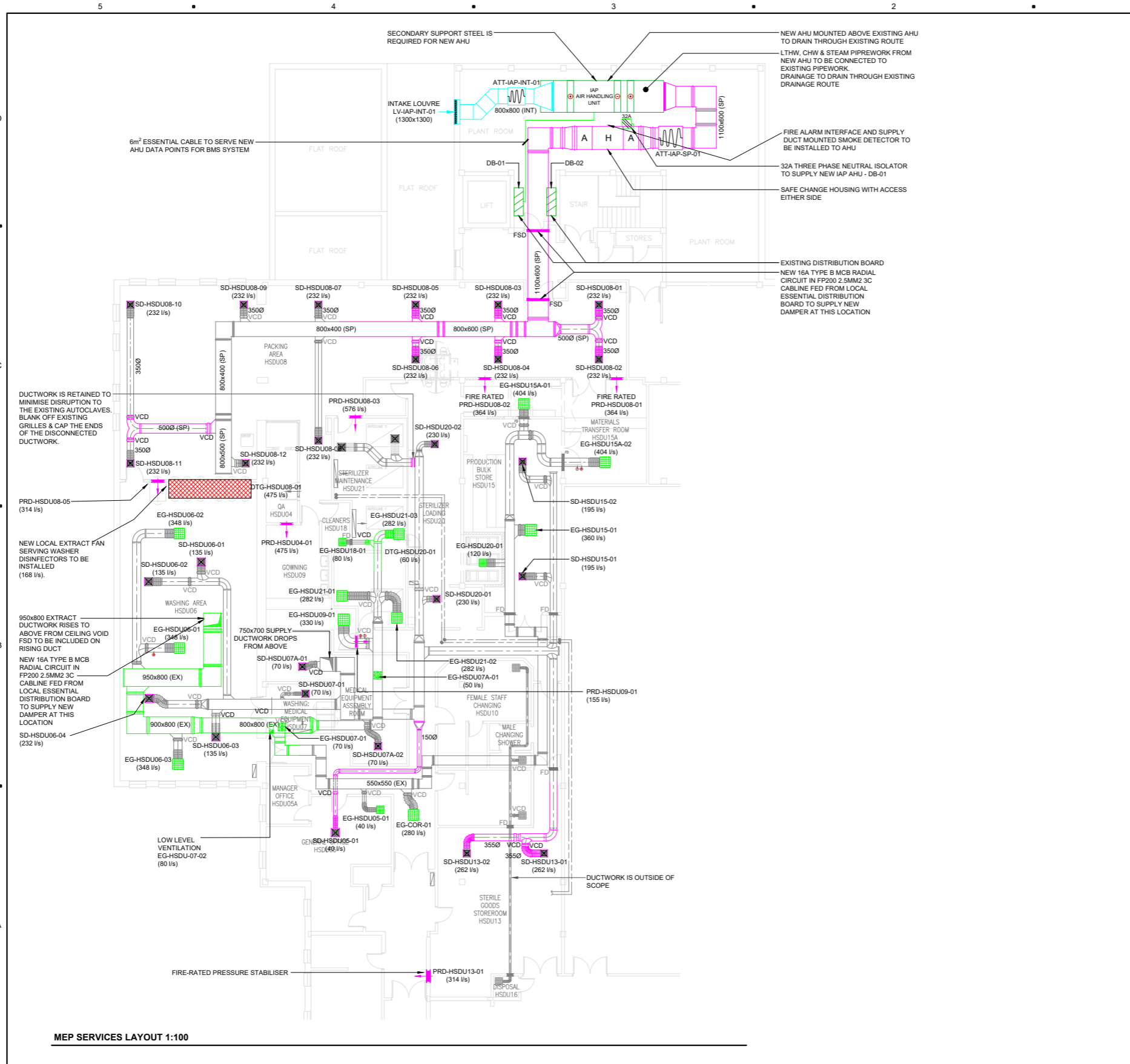
Scale : 1:250 @ A1 Rev : P06

Project Management Initials : Designer: B.Z. Checked: S.R. Approved: D.B. ISO A1 841mm x 594mm
 Last saved by: PETE THOMAS (2021-11-20) Last Plotted: 2021-11-20
 Home: L:\ECON\Substation\Substation6\470\Drawings\SS6_XX-M2-E-000006.dwg

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ISO A1 841mm x 594mm
 Approved: DB
 Checked: AM
 Designer: JL
 Project Management Initials:
 2021-11-20
 Last Printed: 2021-11-18
 File Name: L:\LEGACY\UKDF\H002\PLU\005\PR-354751_ABMUHE..._MEP900_CAD_GIS910_CAD112_SUBSTATIONS 3.4 & 6\912_1_MECHANICAL\HSDU\HSDU02-M2-M-005001.DWG



BASE DRAWINGS
 USED IN COMPLETION OF THIS DRAWING:
 Author: [Blank] Drawing No / Rev: [Blank] Date Received: [Blank]
 All: BS1700001 20/06/21

Legend

- EXISTING DUCTWORK
- SUPPLY DUCTWORK
- EXTRACT DUCTWORK
- INTAKE DUCTWORK
- EXHAUST DUCTWORK
- ATTENUATOR
- VOLUME CONTROL DAMPER
- FIRE DAMPER
- SUPPLY GRILLE
- EXTRACT GRILLE

Project
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Notes

- ALL ELECTRICAL INSTALLATIONS SHALL BE INSTALLED & COMMISSIONED TO FULLY COMPLY WITH BRITISH STANDARDS.
- CIRCUITRY FED FROM DISTRIBUTION BOARD DB/S2 LOCATED WITHIN ELEC SWITCHBOARD IN IAS. WHEREVER POSSIBLE EXISTING CIRCUITRY SHALL BE RETAINED AND RE-USED
- ALL CABLING IS TO BE CONTAINED IN NEW CONTAINMENT. MULTICOMPARTMENT DADO TRUNKING SHALL DROP DOWN TO ACCOMMODATE REQUIREMENTS FOR THE OFFICES DESKS.
- ANY/ALL PENETRATIONS THROUGH FIRE BARRIERS SHALL BE SUITABLY STOPPED USING A SELF-EXPANDING 1-HR RATED FOAM, DRESSED DOWN AFTER APPLICATION TO PROVIDE SMOOTH-FINISH READY FOR FINAL DECORATION.
- ALL ITEMS ARE EQUAL AND APPROVED.
- THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION PURPOSES. TESTING WILL BE IN ACCORDANCE WITH THE REQUIREMENTS OF BS7671, BS5266, BS5389.

0 1000 2500 5000 8000
 SCALE 1:100 mm

Issue / Revision	DATE	DESCRIPTION
P04	19/11/2021	STAGE 4 ISSUE
P03	05/11/2021	STAGE 4 ISSUE
P02	13/08/2021	SUBSTATION 6: PRELIMINARY ISSUE
P01	05/07/2021	TENDER ISSUE
1/R		

Purpose of Issue
 STAGE 4 ISSUE

Project Number
 60586927

Sheet Title
 HSDU MEP SERVICES LAYOUT

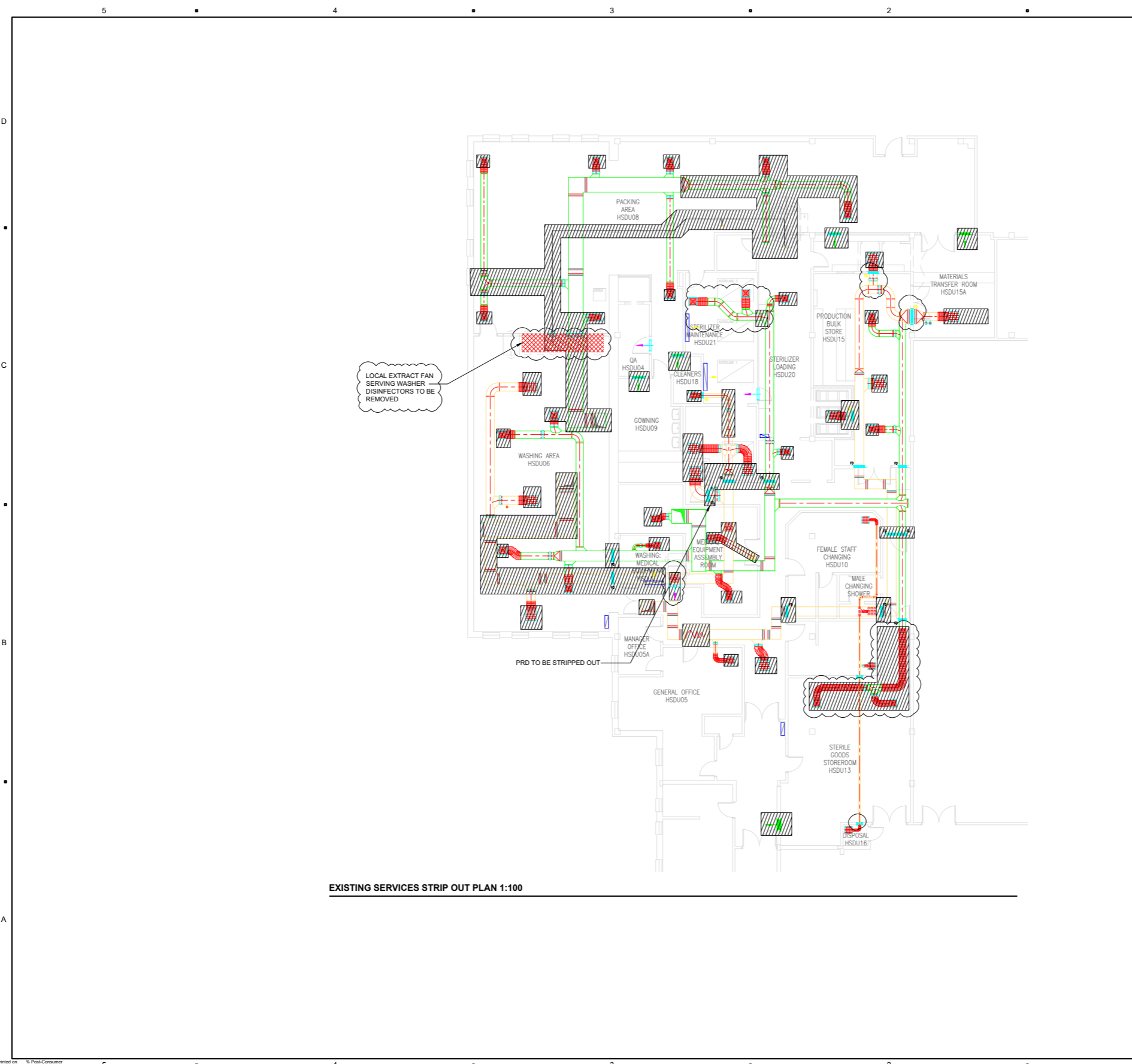
Sheet Number
 MHP2-AECOM-HSDU-02-M2-M-005001

Scale: 1:100 @ A1 **Rev:** P04

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ISO A1 841mm x 594mm
 Approved: D.B.
 Checked: A.M.
 Designer: J.L.
 B
 C
 D
 A



EXISTING SERVICES STRIP OUT PLAN 1:100

BASE DRAWINGS
 USED IN COMPLETION OF THIS DRAWING:
 Author Drawing No / Rev Date Received
 All 881780A01 25/06/21



Project
 MORRISTON
 HOSPITAL
 SUBSTATION 6

Client
 KIER
 CONSTRUCTION
 Conway House
 St Mellons Business Park
 +44 (0) 29 2036 1616 tel
 www.kier.com

Consultant
 AECOM
 1 Callaghan Square
 Cardiff CF10 5BT
 Tel +44 (0) 29 2005 1500
 www.aecom.com

- Notes**
- THIS IS NOT AN INSTALLATION DRAWING.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL DRAWINGS, OTHER MECHANICAL, ELECTRICAL AND PUBLIC HEALTH SERVICES DRAWINGS, STRUCTURAL AND CIVIL ENGINEERS DRAWINGS AND ALL SPECIFICATION DOCUMENTS.
 - DO NOT SCALE FROM THIS DRAWING.
 - REFER TO ARCHITECTS LAYOUTS FOR BUILDING DIMENSIONAL INFORMATION.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

Legend

	AREA TO BE STRIPPED OUT
	EXISTING SUPPLY DUCTWORK
	EXISTING EXTRACT DUCTWORK



Issue / Revision

Issue / Revision	DATE	DESCRIPTION
P03	09/11/2021	STAGE 4 ISSUE
P02	13/08/2021	SUBSTATION 6: PRELIMINARY ISSUE
P01	05/07/2021	TENDER ISSUE

Purpose of Issue
 STAGE 4 ISSUE

Project Number
 60586927

Sheet Title
 HSDU
 EXISTING SERVICES
 STRIP OUT PLAN

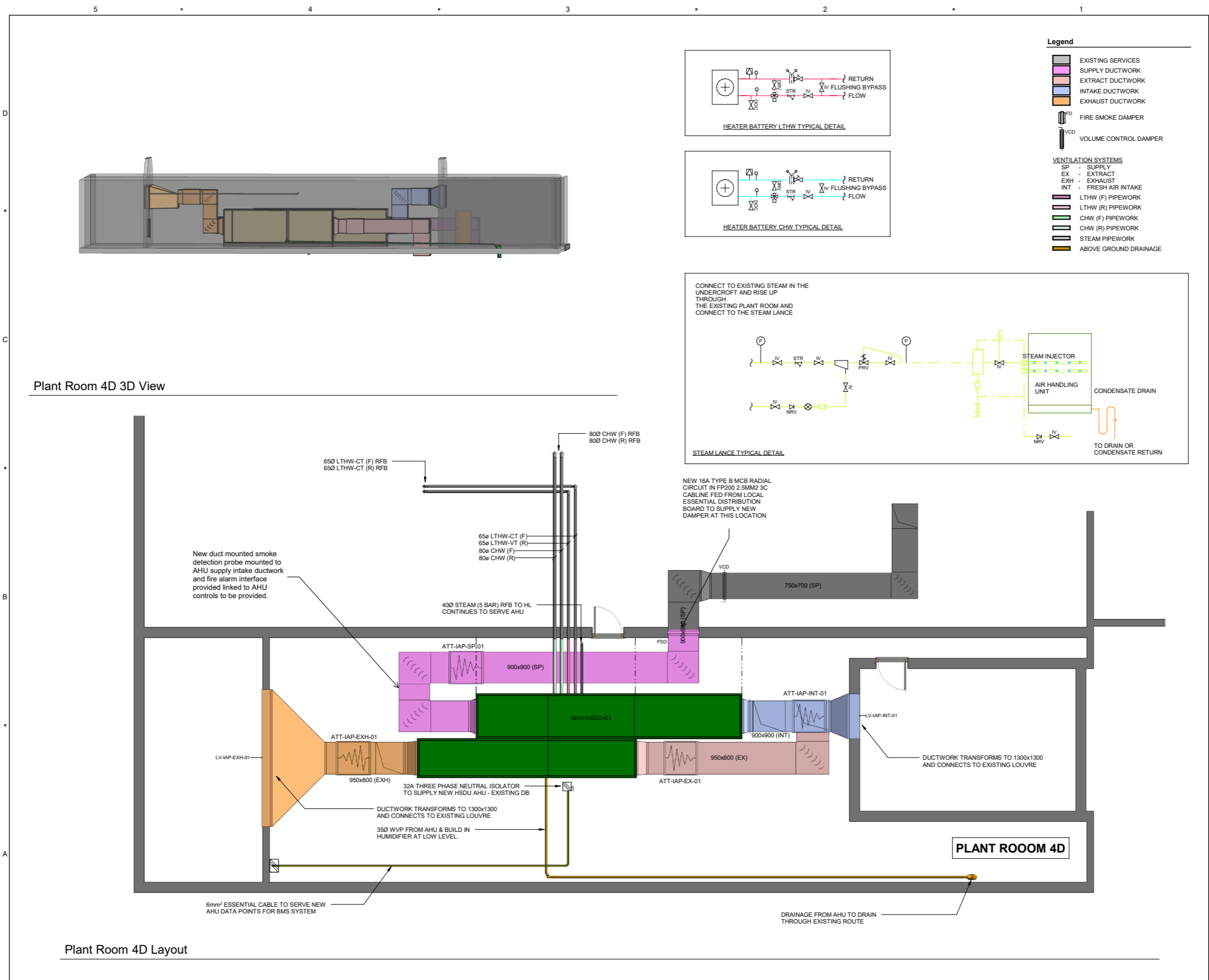
Sheet Number
 MHP2-AECOM-HSDU-02-M2-M-005002

Scale: 1:100 @ A1 **Rev:** P03

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Full Size Drawings - AECOM - Mechanical

Project Management Initials: Designer: J.L. Checked: A.M. Approved: D.B. ISO A1 841mm x 594mm
 File Name: C:\Users\newgan.baggott\Documents\MHP2-AECOM-HSDU-ZZ-MEP-0001_Mewgan_Baggott.vst
 Last Printed: 18/11/2021 18:39:41
 Printed on: Recycled Content Paper



AECOM

Project
MORRISTON HOSPITAL

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 +44 (0) 29 2005 1500 tel
 www.aecom.com

- Notes**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT AECOM DRAWINGS, SPECIFICATIONS AND SCHEDULES.
 - ALL PENETRATIONS THROUGH THE ROOF SHALL BE WEATHERPROOFED AND PROVIDED WITH UPSTANDS AND SEALS AS REQUIRED.
 - ALL EXTERNAL EQUIPMENT AND DUCTWORK TO BE WEATHERPROOFED AS REQUIRED.
 - ALL VCD'S AND FIRE DAMPERS SHALL BE ACCESSIBLE VIA ACCESS HATCHES TO ONE SIDE.
 - ALL VCD'S SHALL BE MULTI-BLADE c/w EXTERNAL CONTROL HANDLE.
 - ALL GRILLES SHALL BE c/w PLENUM BOXES AND OPPOSED BLADE DAMPERS.
 - ACCESS HATCHES SHALL BE INSTALLED IN ACCORDANCE WITH DW144 AND DW172. REFERENCE TO TR19 SHOULD ALSO BE MADE.
 - ALL PENETRATIONS THROUGH WALLS SHALL BE FILLED TO SUIT THE ACOUSTIC AND/OR FIRE REQUIREMENTS AS DETAILED ON THE ARCHITECT'S DRAWINGS.
 - ALL ELECTRICAL INSTALLATIONS SHALL BE INSTALLED & COMMISSIONED TO FULLY COMPLY WITH BRITISH STANDARDS.

Issue / Revision

Issue	Revision	Date	Description
P04	18/11/21		STAGE 4 ISSUE
P03	05/11/21		STAGE 4 ISSUE
P02	13/08/21		SUBSTATION 6: PRELIMINARY ISSUE
P01	24/05/21		STAGE 2 ISSUE
S			DATE DESCRIPTION

Purpose of Issue
 STAGE 4 ISSUE

Project Number 60586927 **Scale** 1:50@ A1

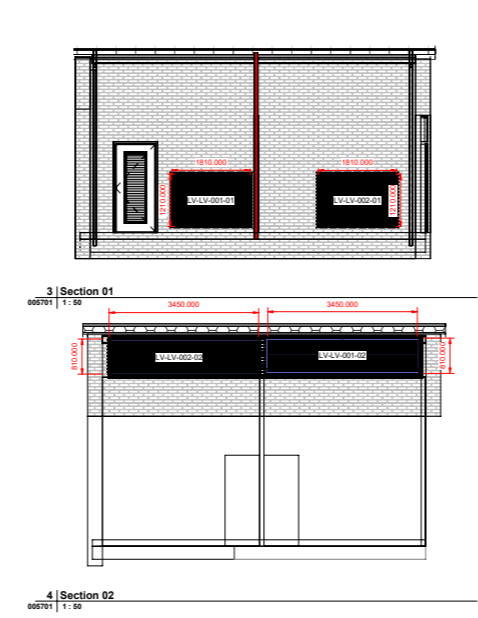
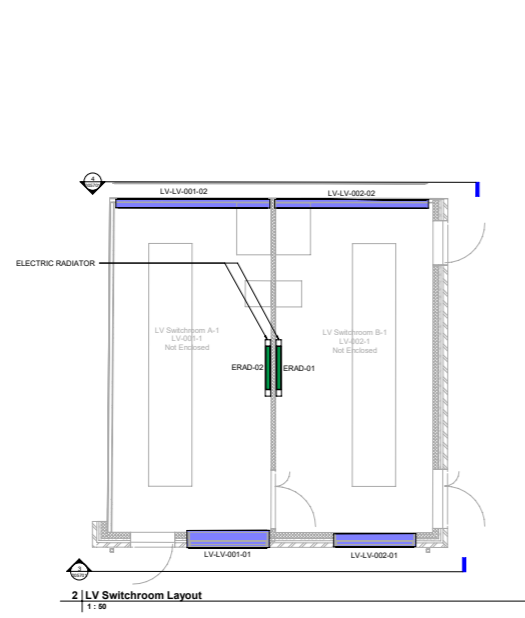
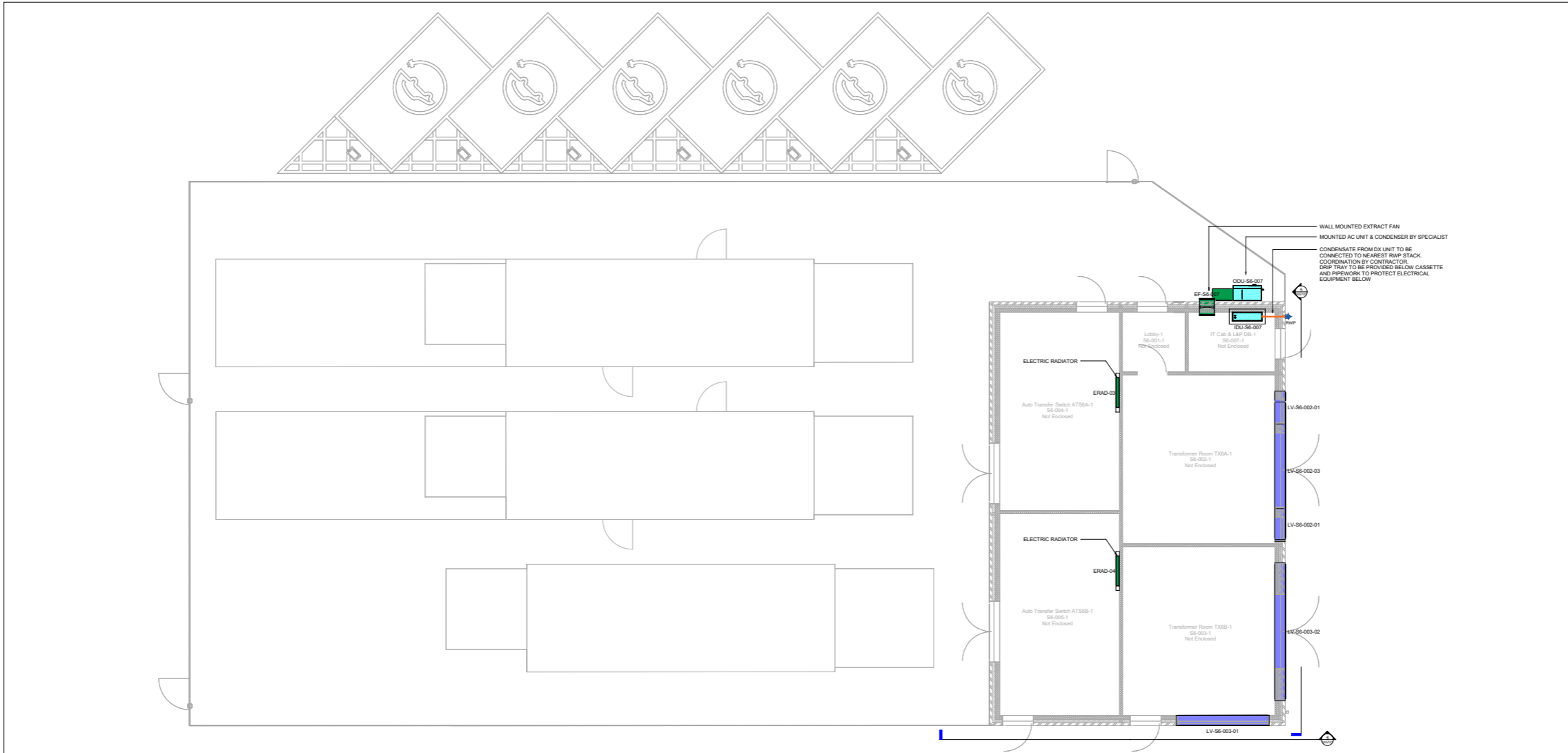
Sheet Title
 MORRISTON HOSPITAL
 MEP COMBINED SERVICES
 PLANTROOM 4D
 MEP SERVICES LAYOUT

Sheet Number MHP2-AECOM-HSDU-M2-M2-M-00500P04 **Rev**

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Full Size Drawings - AECOM - Mechanical

Project Management: J.L. Designer: J.L. Checked: A.M. Approved: D.B. Drawn by: A.R. ISO A3/Metric: 110mm



AECOM

Project
MORRISTON HOSPITAL SUBSTATION 6

Client
KIER CONSTRUCTION
Conway House
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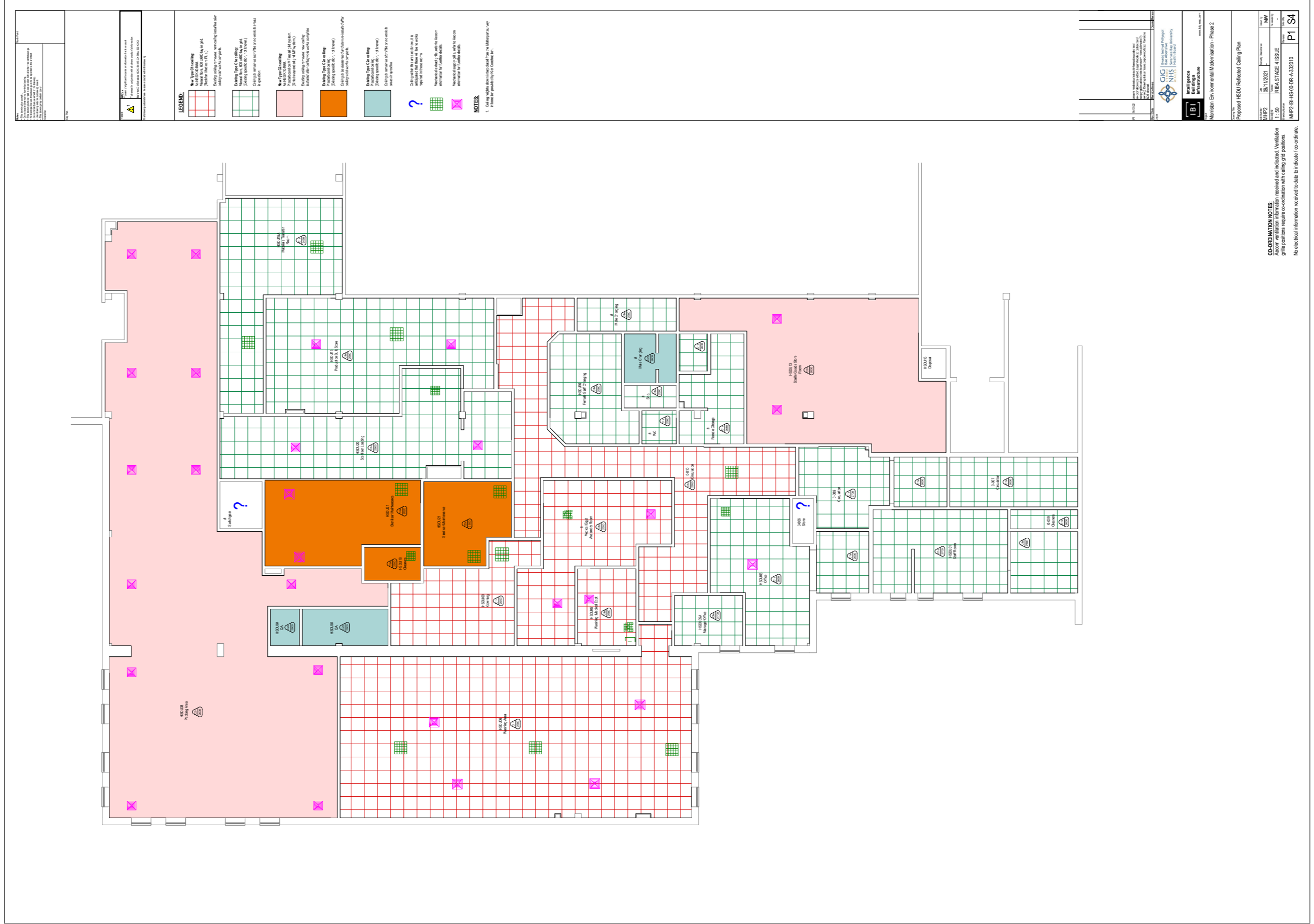
Consultant
AECOM
1 Callaghan Square
Cardiff CF10 5BT
Tel +44(0) 29 2005 1500
www.aecom.com

- Notes**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PUBLIC HEALTH SERVICES SPECIFICATION AND SCHEDULES.
 2. THIS IS NOT AN INSTALLATION DRAWING.
 3. DO NOT SCALE OFF THIS DRAWING.
 4. TO BE READ ALONGSIDE ARCHITECTURAL SECURITY AND ROOMING/DRAWINGS AND SPECIFICATION INFORMATION.
 5. BELOW GROUND TRENCH LAYOUTS SHOWN ON DRAWING: MHP2-AECOM-SS6-00-M2-M-005701.

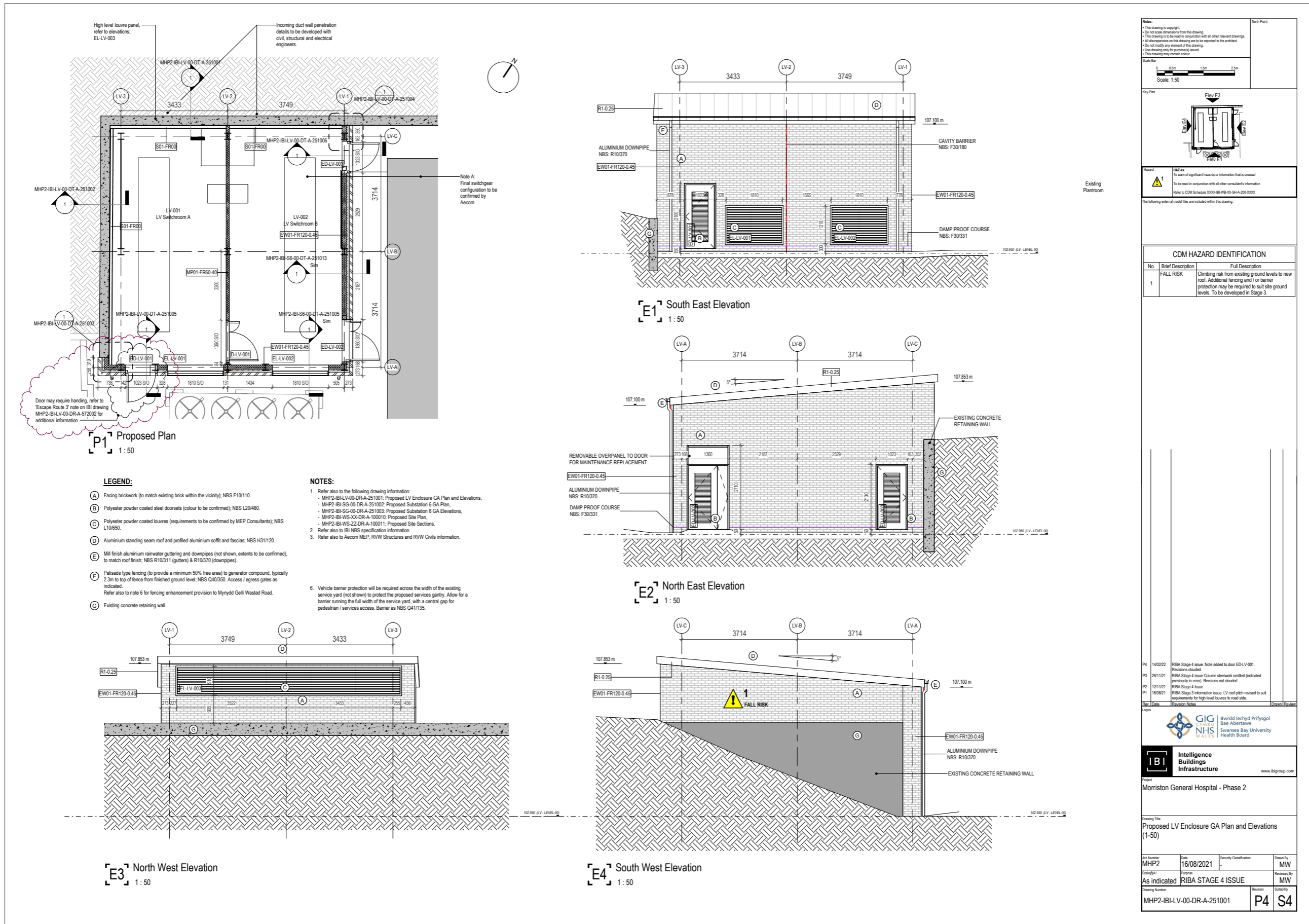
Issue/Revision			
Rev	Date	Description	By

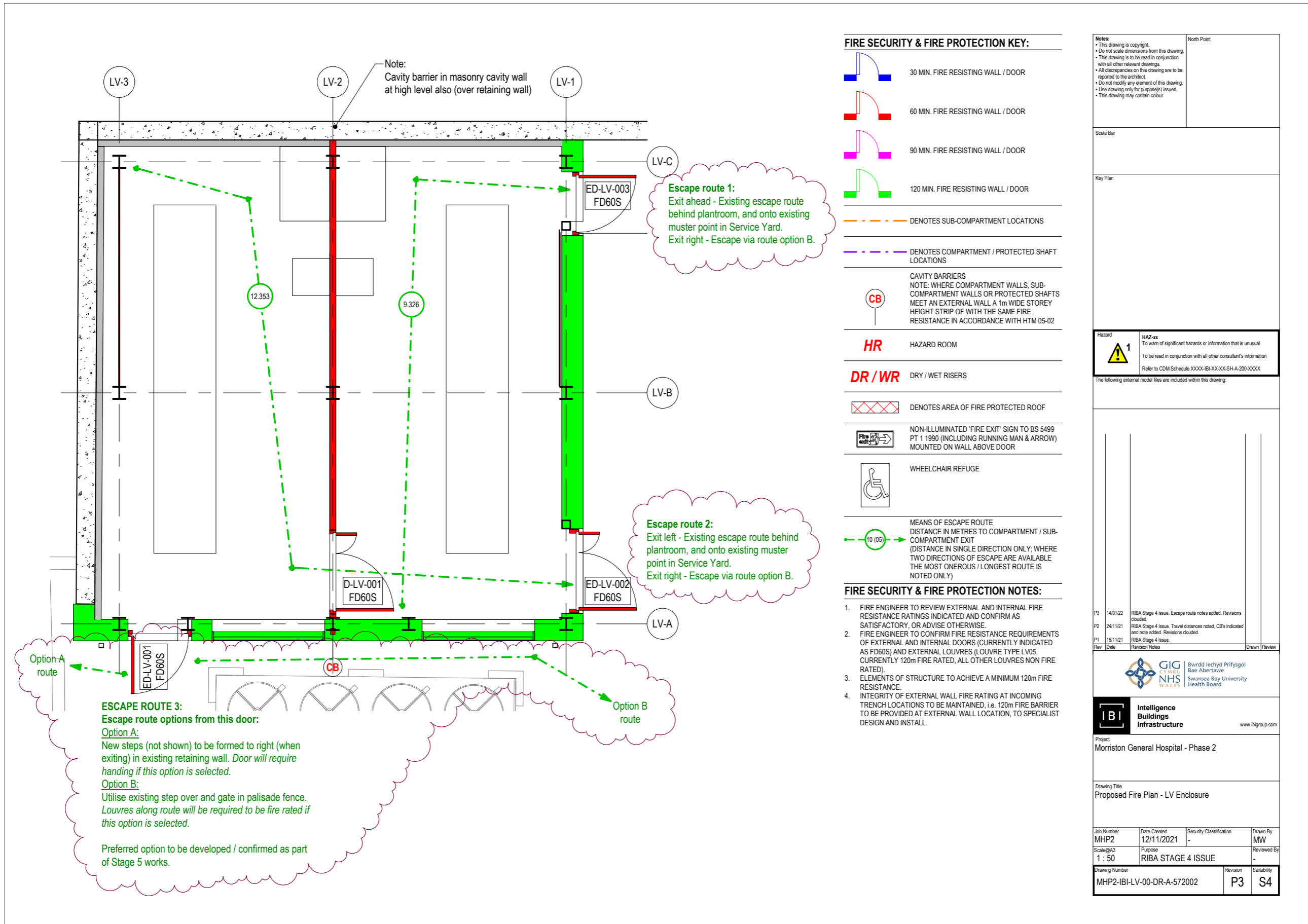
Purpose Of Issue
STAGE 4 ISSUE
Project Number
60586927
Sheet Title
SUBSTATION 6
MECHANICAL ENGINEERING
VENTILATION & COOLING LAYOUT
Sheet Number
MHP2-AECOM-SS6-00-M2-M-005701
Scale: As indicated@A0 Rev: P04

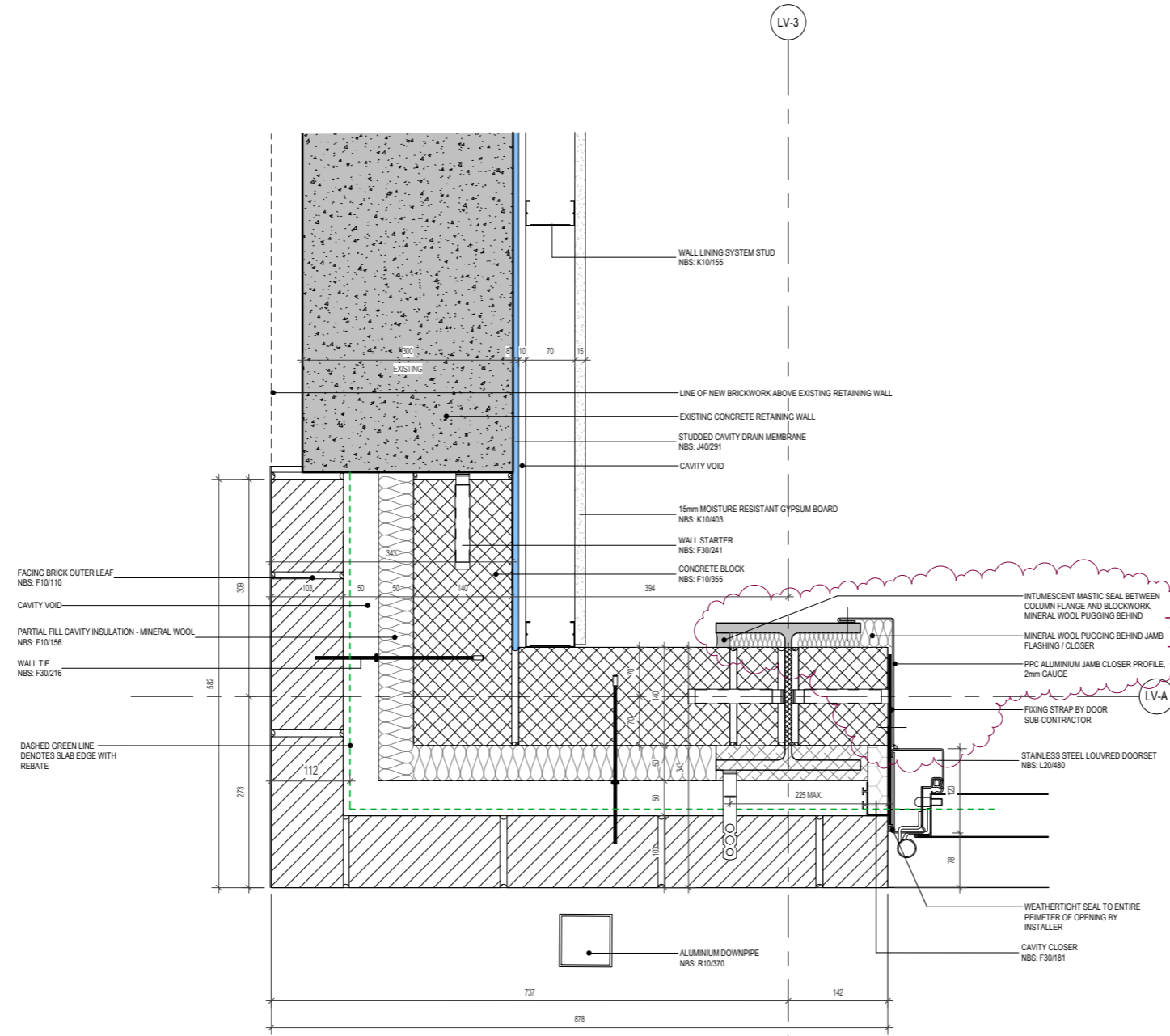
Full Size Drawings - IBI - Architect



Full Size Drawings - IBI - Architect







1 LV Building New / Retaining Wall Plan Detail - GL LV-A / LV-3
1:5

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Scale Bar	

Key Plan	
----------	--

Hazard	HAZ-xx To warn of significant hazards or information that is unusual To be read in conjunction with all other consultant's information Refer to CDM Schedule XXXX-IBI-WB-XX-SHA-200-XXXX
--------	--

The following external model files are included within this drawing:

Rev	Date	Revision Notes	Drawn	Review
P2	14/01/22	RIBA Stage 4 Issue. Plywood jamb closer omitted, aluminium profile in lieu. Sealant to beam and mineral wool pugging added. Revisions clouded.		
P1	12/11/21	RIBA Stage 4 Issue.		

Logos				
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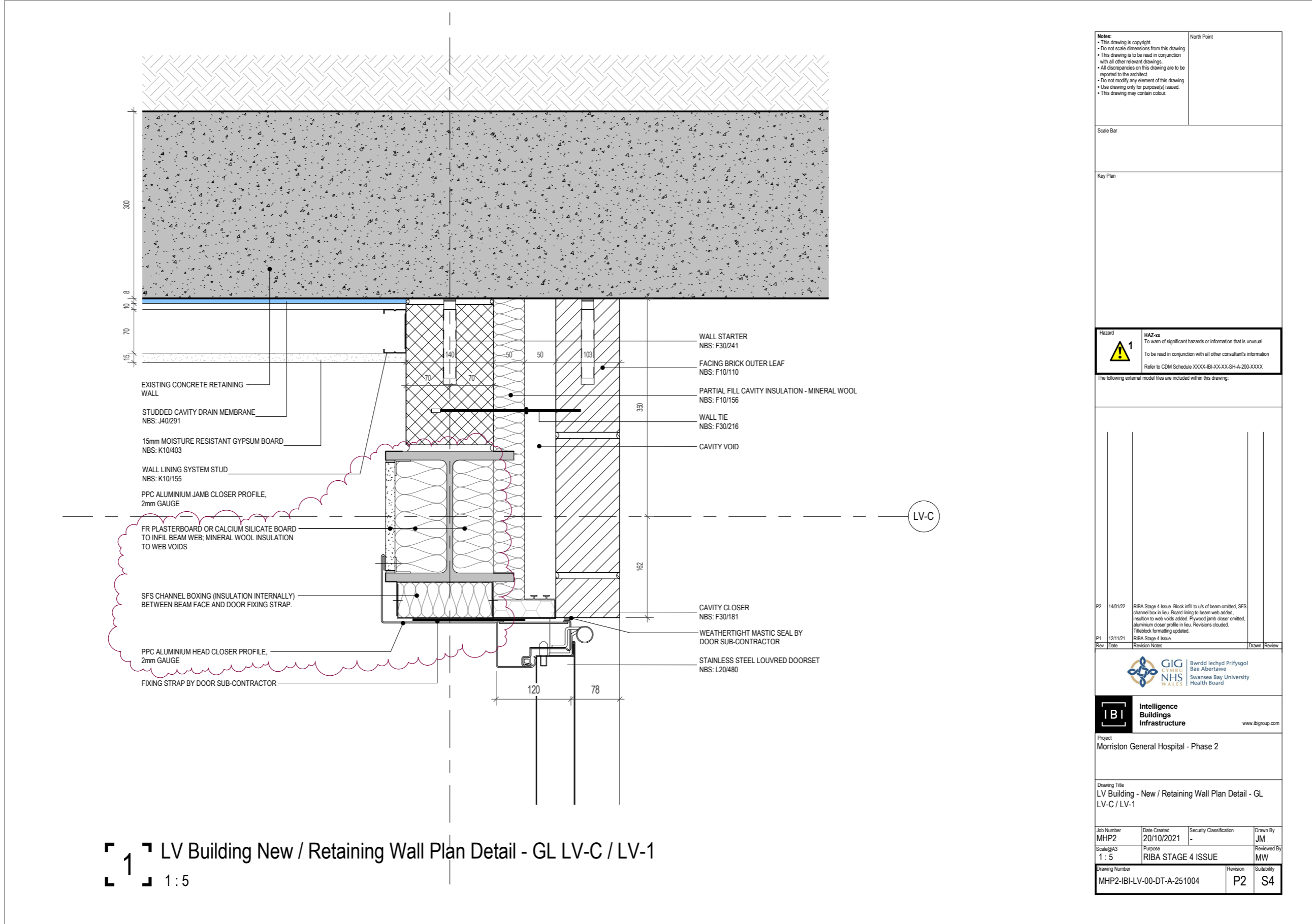
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Project
Morrison General Hospital - Phase 2

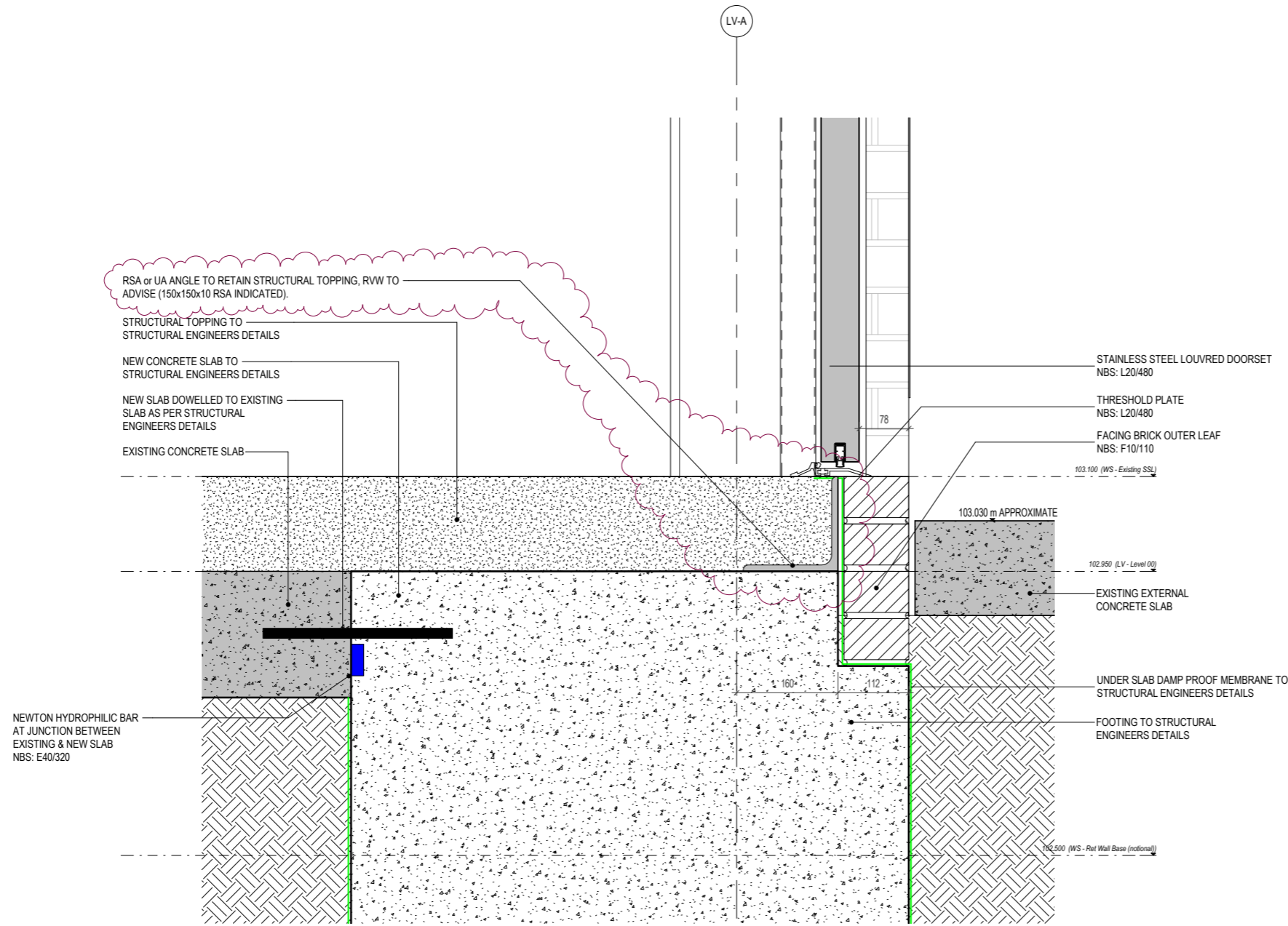
Drawing Title
LV Building - New / Retaining Wall Plan Detail - GL LV-A / LV-3

Job Number	Date	Security Classification	Drawn By
MHP2	20/10/2021		JM
Scale@A2	Purpose	Reviewed By	
1:5	RIBA STAGE 4 ISSUE	MW	
Drawing Number	Revision	Suitability	
MHP2-IBI-LV-00-DT-A-251003	P2	S4	

Full Size Drawings - IBI - Architect



1 LV Building New / Retaining Wall Plan Detail - GL LV-C / LV-1
1 : 5



1 LV Building - Door Threshold / Existing / New Slab Detail
1:5

Notes:

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- Do not modify any element of this drawing.
- Use drawing only for purpose(s) issued.
- This drawing may contain colour.

Scale Bar

North Point

Key Plan

Hazard

HAZ-xx
To warn of significant hazards or information that is unusual
To be read in conjunction with all other consultant's information
Refer to CDM Schedule XXXX-IBI-WB-XX-SHA-200-XXXX

The following external model files are included within this drawing:

Rev	Date	Revision Notes	Drawn	Review
P2	14/01/22	RIBA Stage 4 Issue. RSA angle indicated to door threshold area. Revisions clouded.		
P1	12/11/21	RIBA Stage 4 Issue.		

Logos

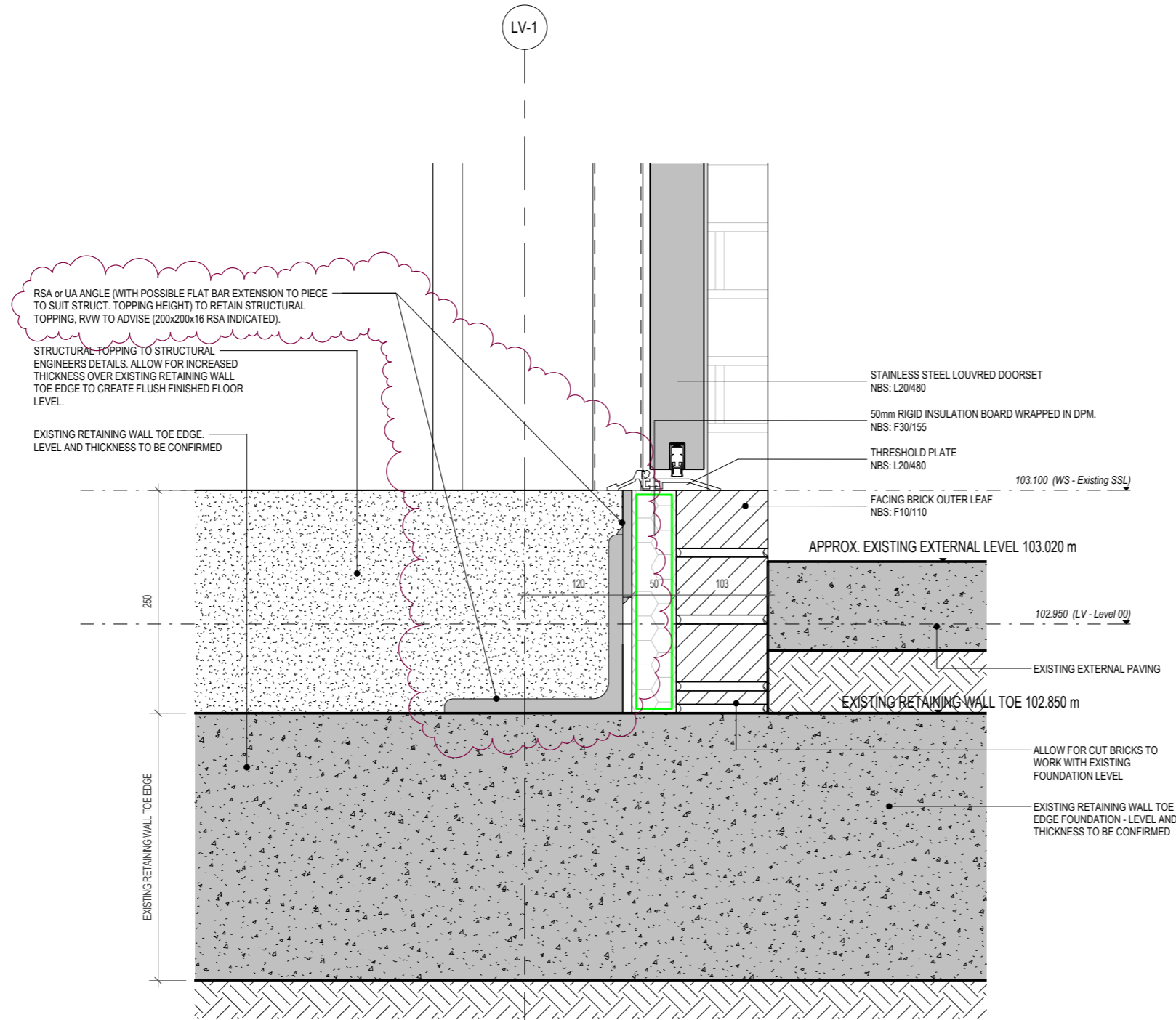


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Morrison General Hospital - Phase 2

Drawing Title
LV Building - Door Threshold / Existing / New Slab Detail

Job Number MHP2	Date 20/10/2021	Security Classification	Drawn By JM
Scale@A2 1:5	Purpose RIBA STAGE 4 ISSUE	Reviewed By MW	
Drawing Number MHP2-IBI-LV-00-DT-A-251005	Revision P2	Suitability S4	



1 LV Building - Door Threshold / Existing Retaining Wall Toe Section Detail
1 : 5

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North Point

Scale Bar

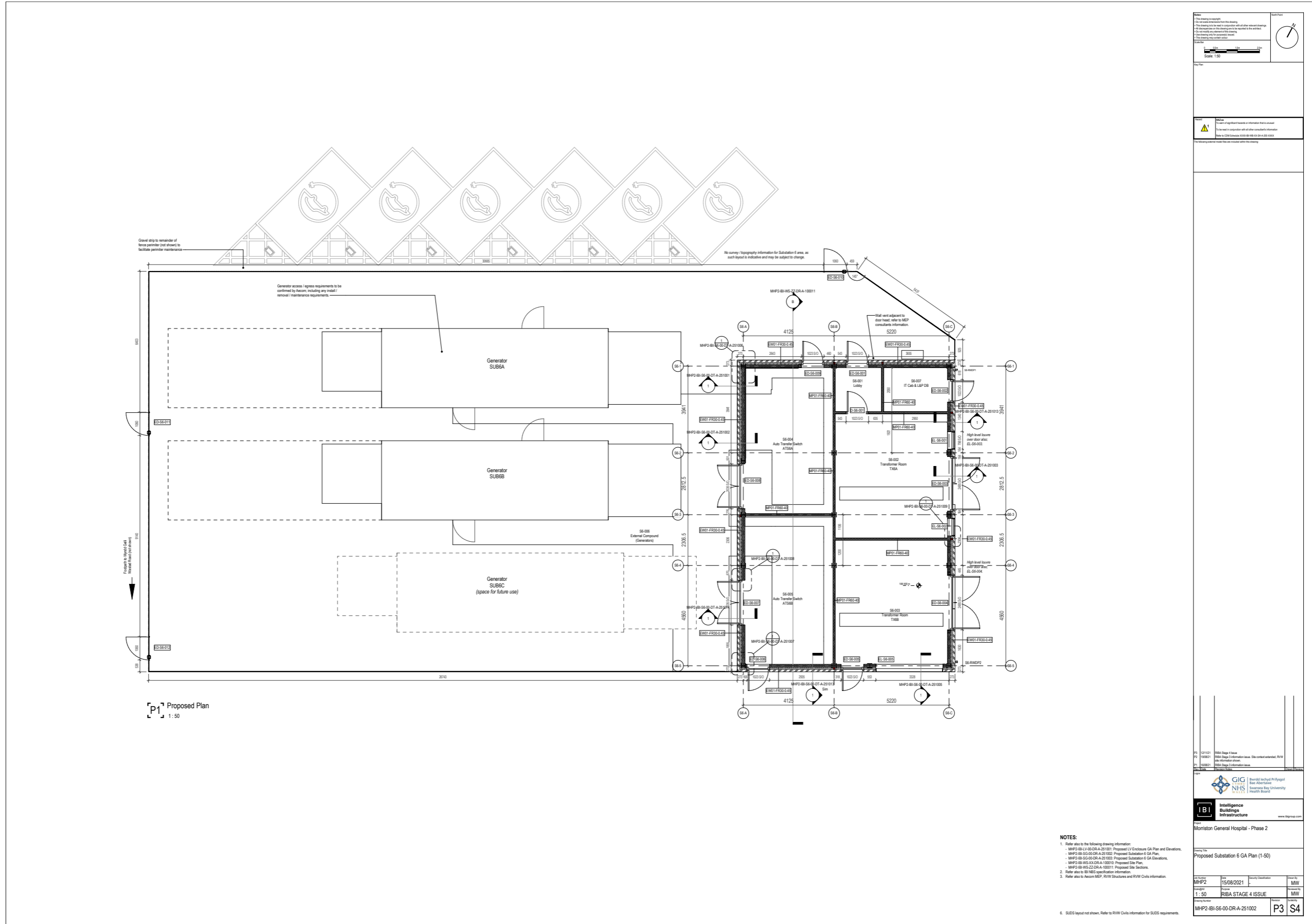
Key Plan

	<p>HAZ-xx To warn of significant hazards or information that is unusual To be read in conjunction with all other consultant's information Refer to CDM Schedule XXXX-IBI-XXXX-SH-A-200-XXXX</p>
--	--

The following external model files are included within this drawing:

Rev	Date	Revision Notes	Drawn	Review
P2	14/01/22	RIBA Stage 4 Issue. RSA angle indicated to door threshold area. Revisions clouded. Tablelock formatting updated.		
P1	12/11/21	RIBA Stage 4 Issue.		

Full Size Drawings - IBI - Architect



P1 Proposed Plan
1:50

<p>Notes:</p> <ul style="list-style-type: none"> 1. This drawing is a proposal. 2. It is not to be taken as a guarantee of any kind. 3. It is not to be used for any other purpose without the written consent of the architect. 4. It is not to be used for any other purpose without the written consent of the architect. 5. It is not to be used for any other purpose without the written consent of the architect. 	
---	--

<p>Scale: 1:50</p>

<p>Warning: High Voltage</p>

<p>Proposed Substation 6 GA Plan (1-50)</p>

<p>Revision Table:</p>

<p>Project Information:</p>

<p>Client Information:</p>

<p>Contract Information:</p>

<p>Drawings List:</p>

<p>Project Location:</p>

<p>Project Name:</p>

<p>Project Reference:</p>

<p>Project Status:</p>

<p>Project Description:</p>

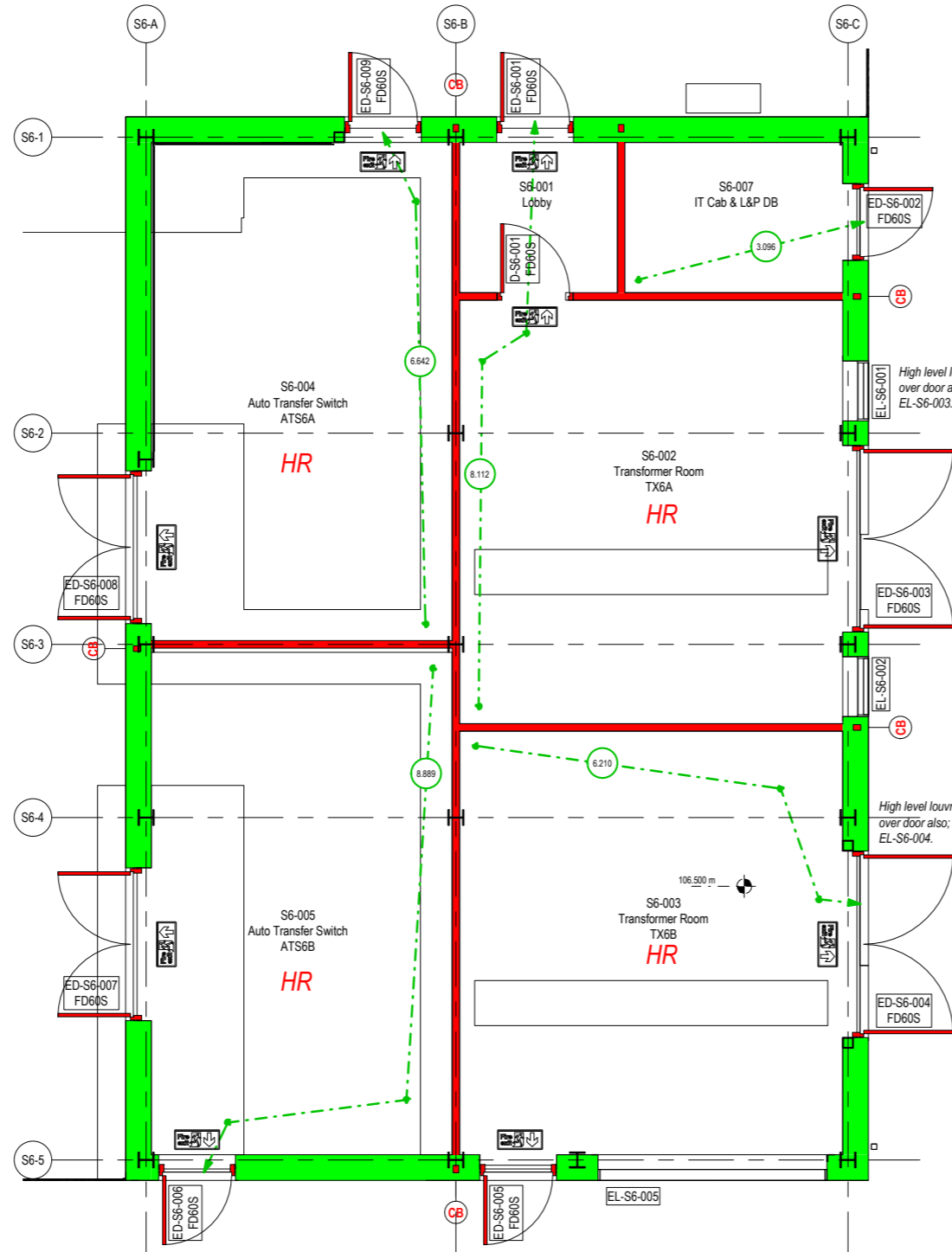
<p>Project Details:</p>

NOTES:

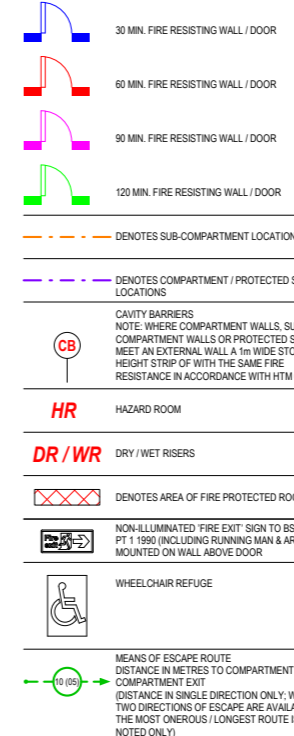
1. Refer also to the following drawing information:
 - MHP2-IBI-S6-00-DR-A-251001: Proposed LV Enclosure GA Plan and Elevations.
 - MHP2-IBI-S6-00-DR-A-251002: Proposed Substation 6 GA Plan.
 - MHP2-IBI-S6-00-DR-A-251003: Proposed Substation 6 GA Elevations.
 - MHP2-IBI-S6-00-DR-A-10010: Proposed Site Plan.
 - MHP2-IBI-S6-00-DR-A-10011: Proposed Site Sections.
2. Refer also to IBI M&E specification information.
3. Refer also to Accorn MEP, R/WV Structures and R/WV Civils information.

6. SUDS layout not shown. Refer to R/WV Civils information for SUDS requirements.

<p>Intelligence Buildings Infrastructure</p>
<p>Morriston General Hospital - Phase 2</p>
<p>Proposed Substation 6 GA Plan (1-50)</p>
<p>Issue No: 1</p>
<p>Date: 15/08/2021</p>
<p>Scale: 1:50</p>
<p>Project: RIBA STAGE 4 ISSUE</p>
<p>Author: MW</p>
<p>Check: MW</p>
<p>Project Reference: MHP2-IBI-S6-00-DR-A-251002</p>
<p>Issue: P3 S4</p>



FIRE SECURITY & FIRE PROTECTION KEY:



FIRE SECURITY & FIRE PROTECTION NOTES:

1. FIRE ENGINEER TO REVIEW EXTERNAL AND INTERNAL FIRE RESISTANCE RATINGS INDICATED AND CONFIRM AS SATISFACTORY, OR ADVISE OTHERWISE.
2. FIRE ENGINEER TO CONFIRM FIRE RESISTANCE REQUIREMENTS OF EXTERNAL AND INTERNAL DOORS (CURRENTLY INDICATED AS FD60S) AND EXTERNAL LOUVRES (LOUVRE TYPE LV6S CURRENTLY 120m FIRE RATED, ALL OTHER LOUVRES NON FIRE RATED).
3. ELEMENTS OF STRUCTURE TO ACHIEVE A MINIMUM 120m FIRE RESISTANCE.
4. INTEGRITY OF EXTERNAL WALL FIRE RATING AT INCOMING TRENCH LOCATIONS TO BE MAINTAINED, I.E. 120m FIRE BARRIER TO BE PROVIDED AT EXTERNAL WALL LOCATION, TO SPECIALIST DESIGN AND INSTALL.

Notes:

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- Do not scale dimensions from this drawing.
- This drawing is to be read in conjunction with all other relevant drawings.
- All discrepancies on this drawing are to be reported to the architect.
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- Use drawing only for purpose(s) issued.
- This drawing may contain colour.

Scale Bar
0 0.5m 1.5m 2.5m
Scale: 1:50

North Point

Key Plan

HAZARD	HAZ-xx To warn of significant hazards or information that is unusual To be read in conjunction with all other consultant's information Refer to CDM Schedule XXXX-IBI-WB-XX-SH-A-200-XXXX
--------	--

The following external model files are included within this drawing:

MHP2-IBI-LV-XX-M3-250101_LV_Bldg	LV
MHP2-IBI-WS-XX-M3-100100_Site_SharedCoOrds	SHA
MHP2-IBI-WS-XX-M3-A-100010_SiteModel	SITE
MHP2-RVW-S6-XX-M3-S-900000_P2_S1_Substation	RWW-S6
6 Structural Model	

P1	15/11/21	RIBA Stage 4 Issue.	
Rev	Date	Revision Notes	Drawn / Review

Bwrdd Iechyd Prifysgol Bae Abertawe Swansea Bay University Health Board

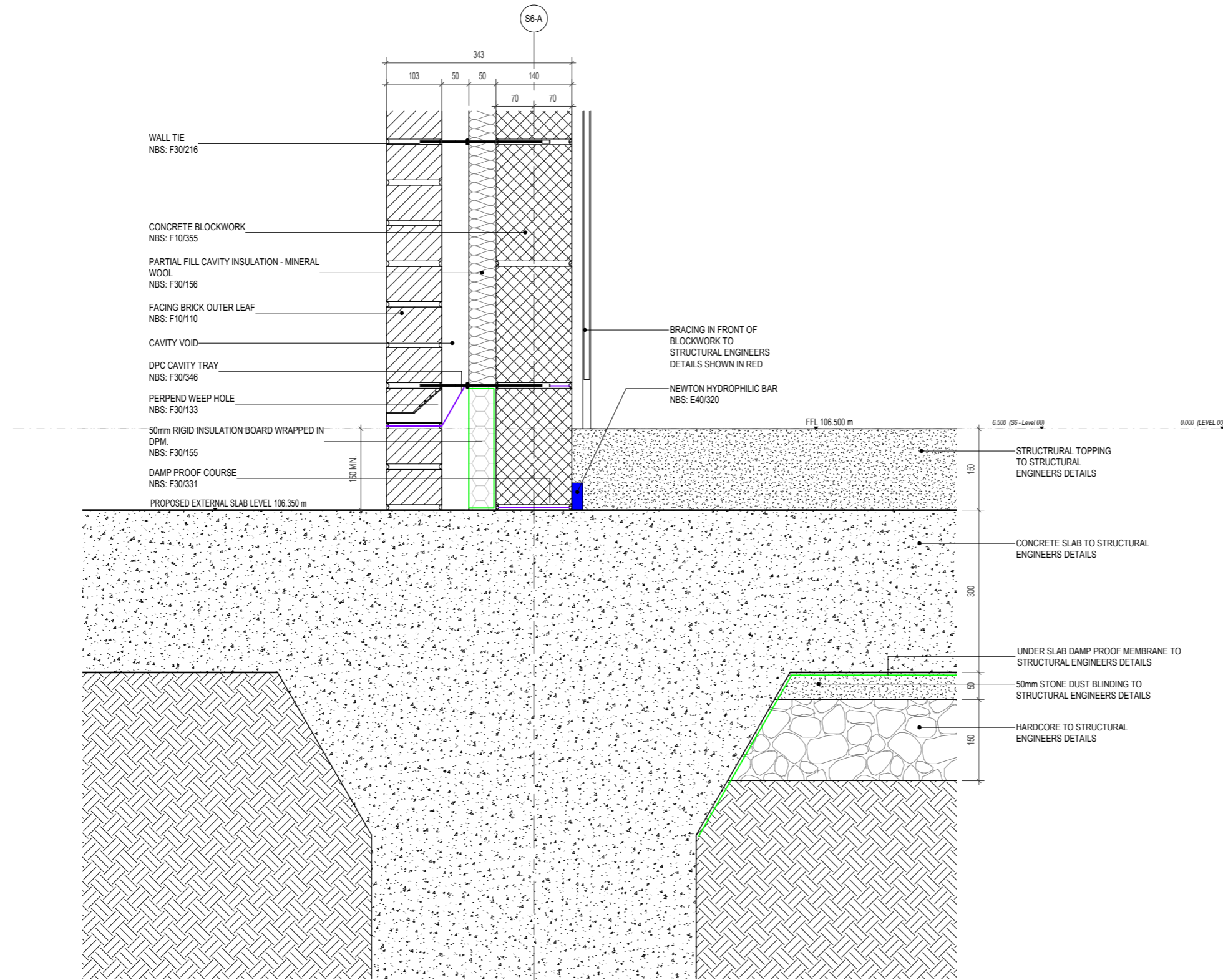
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Project
Morrison General Hospital - Phase 2

Drawing Title
Proposed Fire Plan - Substation 6

Job Number	Date	Security Classification	Drawn By
MHP2	12/11/2021	-	MW
Scale@A2	Purpose	Reviewed By	
1 : 50	RIBA STAGE 4 ISSUE	-	
Drawing Number	Revision	Subtality	
MHP2-IBI-S6-00-DR-A-572001	P1	S4	

Full Size Drawings - IBI - Architect



1 Proposed Slab Edge / Brick Base with Bracing Detail
1:5

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Scale Bar	

Key Plan	
----------	--

Hazard 	HAZ-xx To warn of significant hazards or information that is unusual To be read in conjunction with all other consultant's information Refer to CDM Schedule XXXX-IBI-WB-XX-SH-A-200-XXXX
-------------------	---

The following external model files are included within this drawing:

P1 Rev Date 12/11/21	RIBA Stage 4 Issue Revision Notes	Drawn Review
-------------------------------	--------------------------------------	-----------------

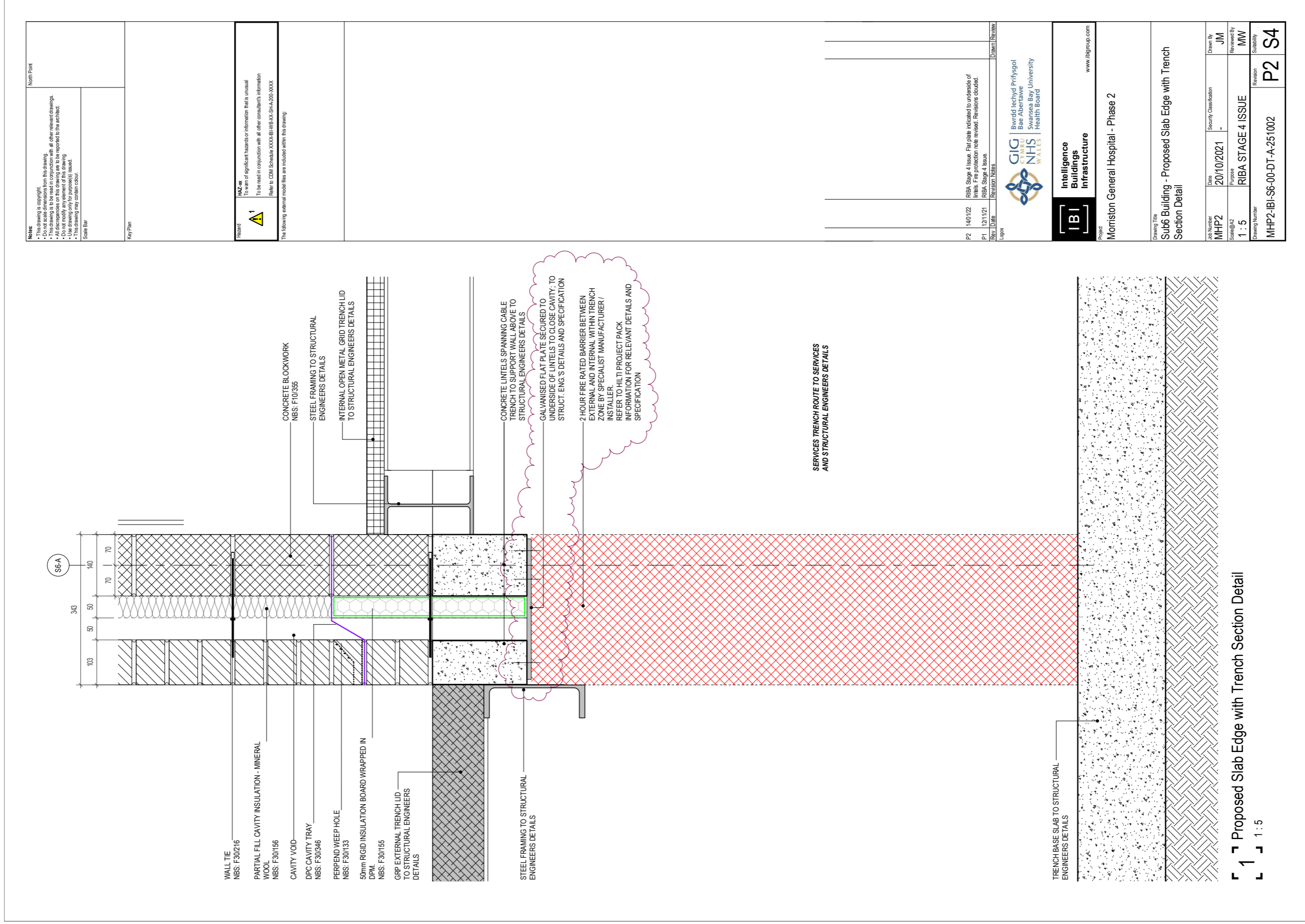
Logos

www.ibigroup.com

Project
Morrison General Hospital - Phase 2

Drawing Title
Sub6 Building - Proposed Slab Edge / Brick Base with Bracing Detail

Job Number MHP2	Date 20/10/2021	Security Classification	Drawn By JM
Scale@A2 1:5	Purpose RIBA STAGE 4 ISSUE	Reviewed By MW	
Drawing Number MHP2-IBI-S6-00-DT-A-251001	Revision P1	Suitability S4	



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- Use drawing only for purposes(s) stated.
- This drawing may contain colour.

Scale Bar

North Point

Key Plan

Warnings

MSA **MSA**
To warn of significant hazards or information that is unusual
To be read in conjunction with all other consultants information
Refer to CDM Schedule XXXX/BIWB/XX-SH-A-200-XXXX

The following external model files are included within this drawing:

Rev.	DSB#	Revision Notes	Drawn/Reviewed
P2	140102	RIBA Stage 4 Issue. Flat plate indicated to underside of lintels. Fire protection note revised. Revisions clouded.	
P1	121121	RIBA Stage 4 Issue.	

Logos

Bwrdd Iechyd Prifysgol
Bae Abertawe
Swansea Bay University
Health Board

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Morriston General Hospital - Phase 2

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Job Number
MHP2

Date
20/10/2021

Security Classification
-

Drawn By
JM

Scale@A2
1 : 5

Purpose
RIBA STAGE 4 ISSUE

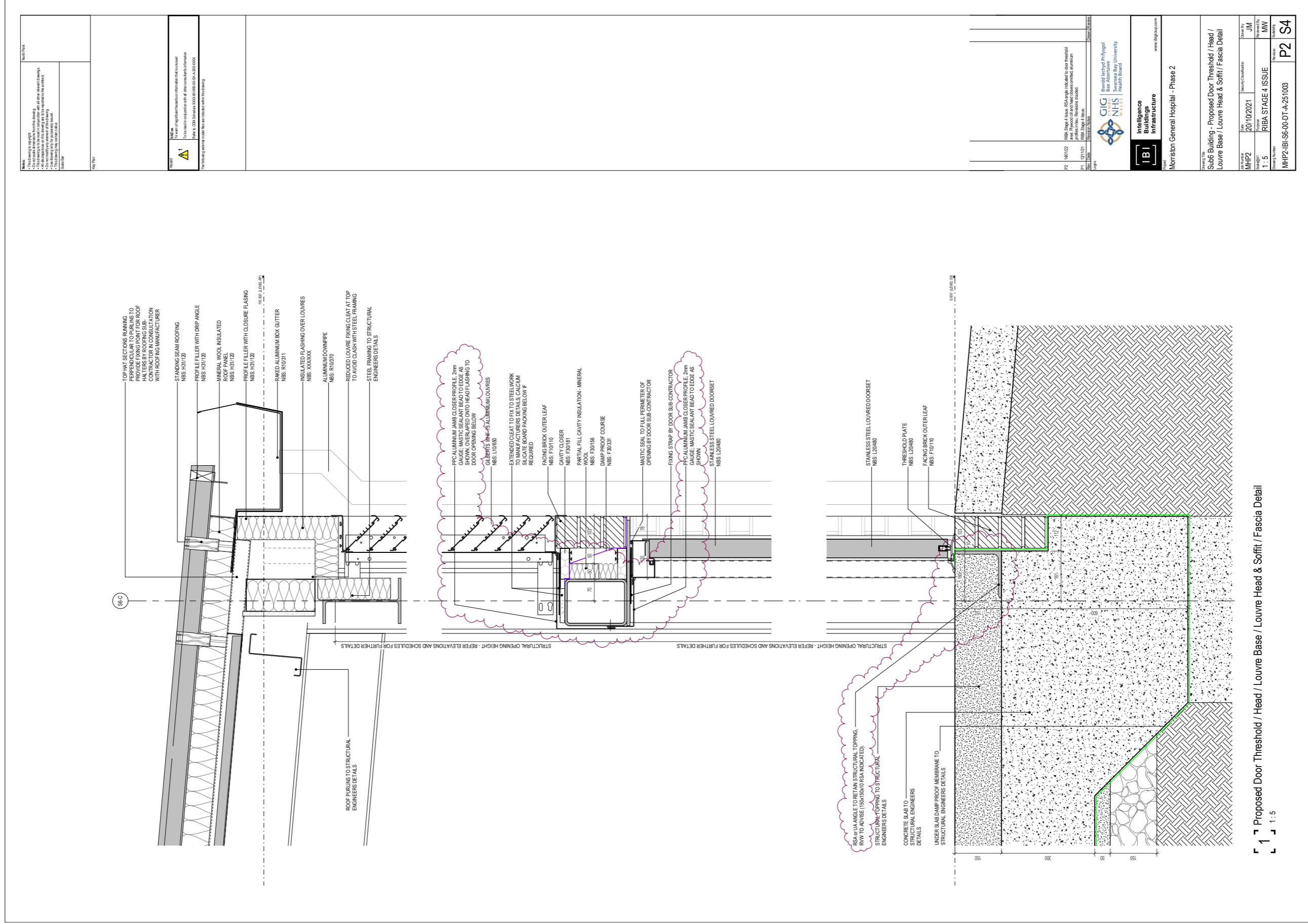
Reviewed By
MW

Drawing Number
MHP2-IBI-S6-00-DT-A-251002

Revision
P2

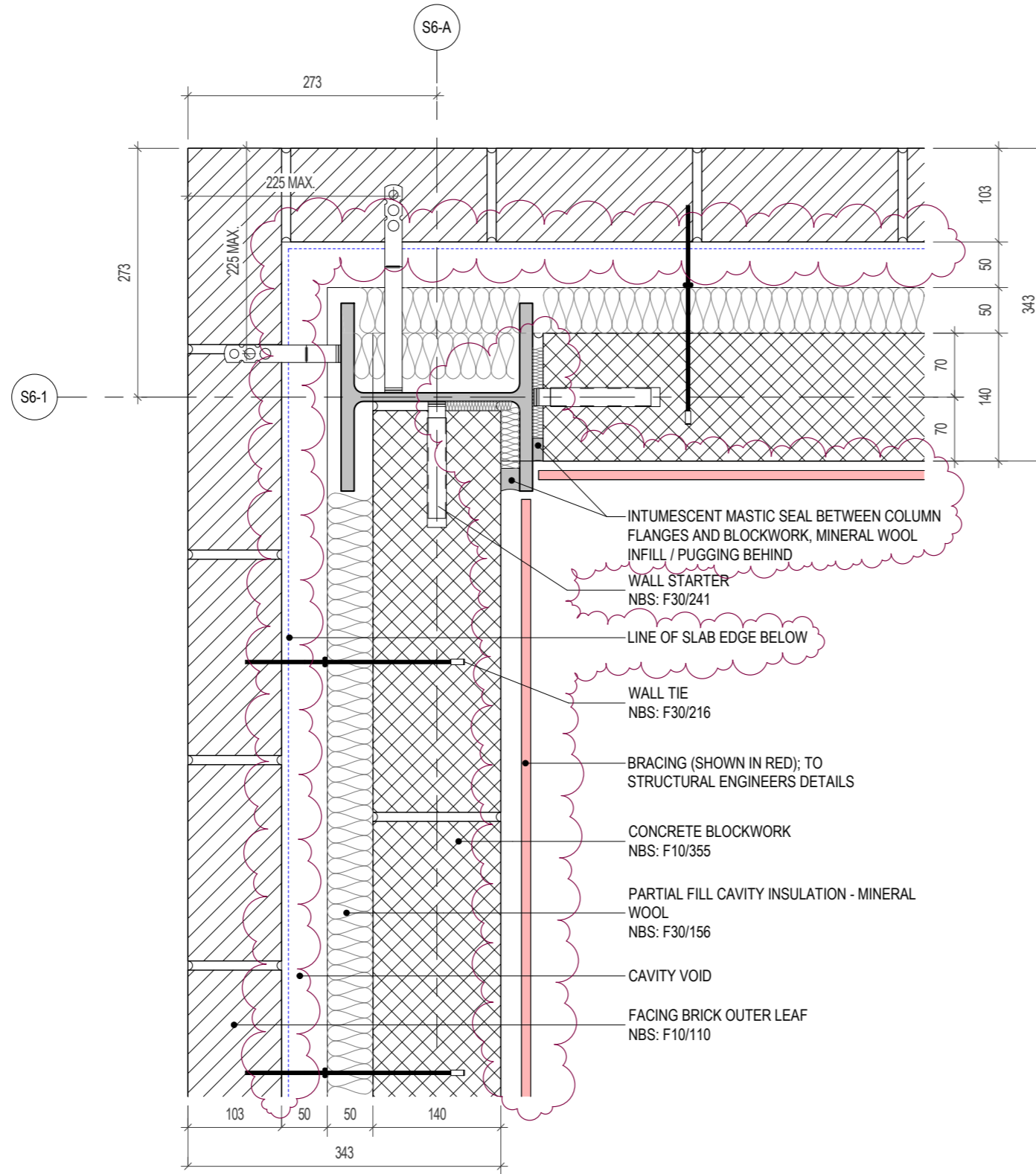
Scaleability
S4

1 Proposed Slab Edge with Trench Section Detail
1 : 5



1 Proposed Door Threshold / Head / Louvre Base / Louvre Head & Soffit / Fascia Detail

1:5



1 Typical Brick External Corner Plan Detail
1 : 5

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North Point

Scale Bar

Key Plan

Hazard 1

HAZ-xx
To warn of significant hazards or information that is unusual
To be read in conjunction with all other consultant's information
Refer to CDM Schedule XXXX-IBI-XXXX-SH-A-200-XXXX

The following external model files are included within this drawing:

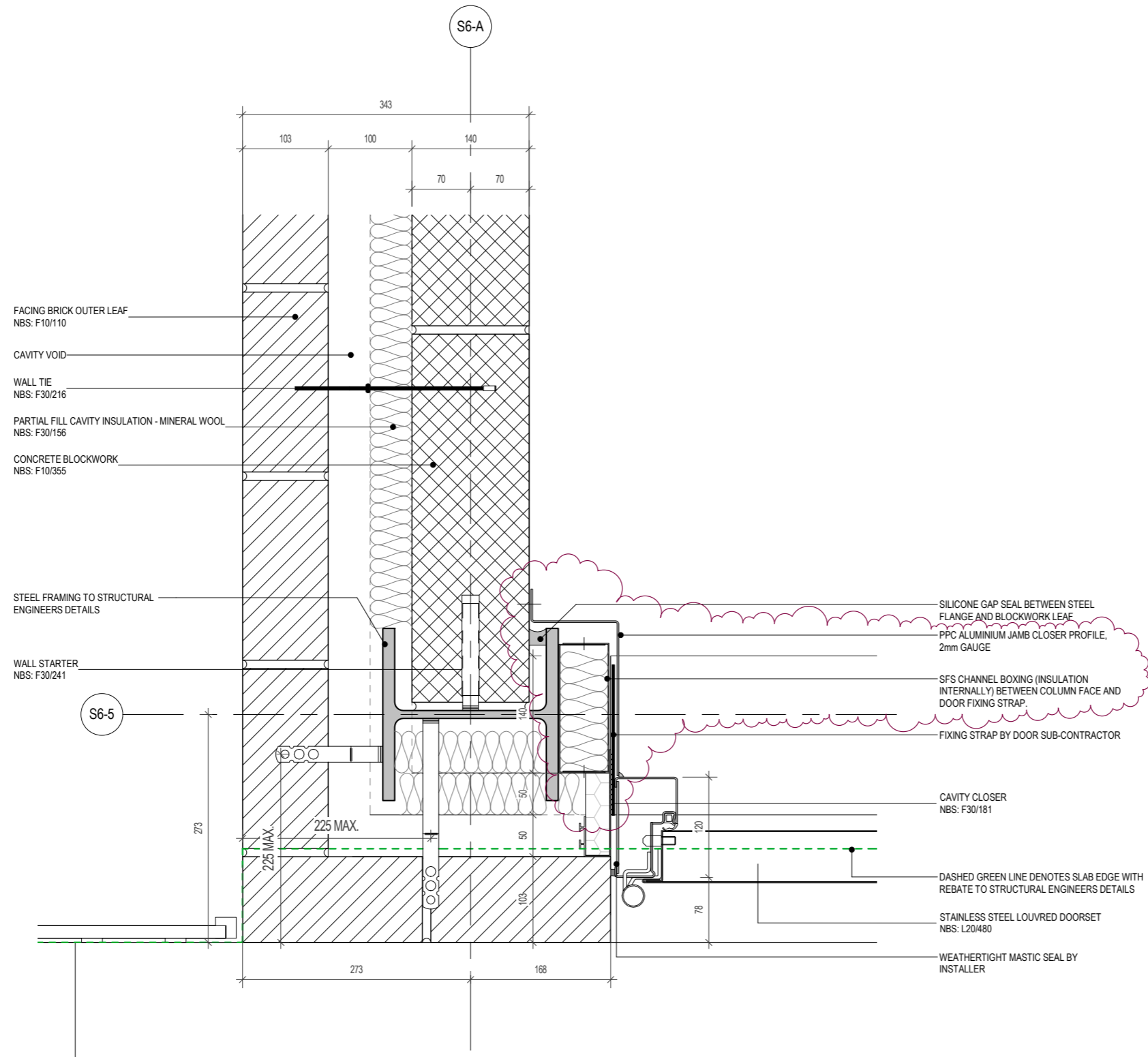
Rev	Date	Revision Notes	Drawn	Review
P2	14/01/22	RIBA Stage 4 Issue. Slab edge indicated. Struct. bracing shown in red. Mastic sealant / pugging added around column / blockwork junction. Revisions clouded. Titleblock formatting updated.		
P1	12/11/21	RIBA Stage 4 Issue.		

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Project
Morrison General Hospital - Phase 2

Drawing Title
Typical - Brick External Corner Plan Detail

Job Number MHP2	Date Created 20/10/2021	Security Classification -	Drawn By JM
Scale@A3 1 : 5	Purpose RIBA STAGE 4 ISSUE	Reviewed By MW	
Drawing Number MHP2-IBI-S6-00-DT-A-251006	Revision P2	Suitability S4	



1 Typical Brick External Corner with Fence Plan Detail
1 : 5

Notes:

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- Use drawing only for purpose(s) issued.
- This drawing may contain colour.

North Point

Scale Bar

Key Plan

Hazard

HAZ-xx
To warn of significant hazards or information that is unusual
To be read in conjunction with all other consultant's information
Refer to CDM Schedule XXXX-IBI-XXXX-SH-A-200-XXXX

The following external model files are included within this drawing:

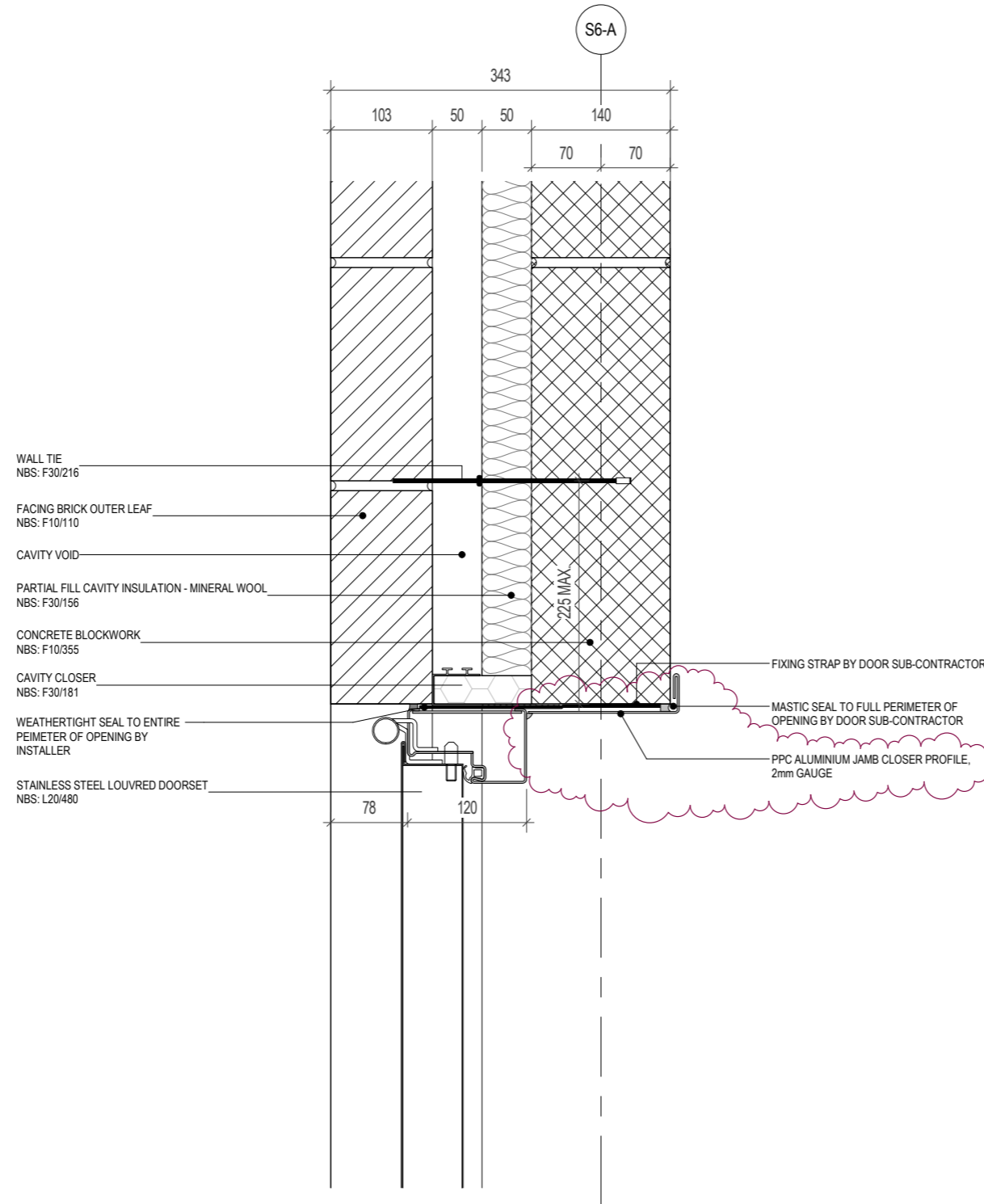
Rev	Date	Revision Notes	Drawn	Review
P2	12/01/22	RIBA Stage 4 Issue. Block infill adjacent to column omitted, SFS channel box in lieu. Plywood jamb closer omitted, aluminium closer profile in lieu. Revisions clouded. Titleblock formatting updated.		
P1	12/11/21	RIBA Stage 4 Issue.		

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Project
Morrison General Hospital - Phase 2

Drawing Title
Typical - Brick External Corner with Fence Plan Detail

Job Number MHP2	Date Created 20/10/2021	Security Classification -	Drawn By JM
Scale@A3 1 : 5	Purpose RIBA STAGE 4 ISSUE	Reviewed By MW	
Drawing Number MHP2-IBI-S6-00-DT-A-251007	Revision P2	Submittal S4	



1 Typical Door Jamb Plan Detail
1 : 5

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- Use drawing only for purpose(s) issued.
- This drawing may contain colour.

North Point

Scale Bar

Key Plan

Hazard 1
 HAZ-xx
 To warn of significant hazards or information that is unusual
 To be read in conjunction with all other consultant's information
 Refer to CDM Schedule XXXX-IBI-XXXX-SH-A-200-XXXX

The following external model files are included within this drawing:

Rev	Date	Revision Notes	Drawn	Review
P2	12/01/22	RIBA Stage 4 Issue. Plywood jamb closer omitted, aluminium profile in lieu. Revisions clouded. Titleblock formatting updated.		
P1	12/11/21	RIBA Stage 4 Issue.		

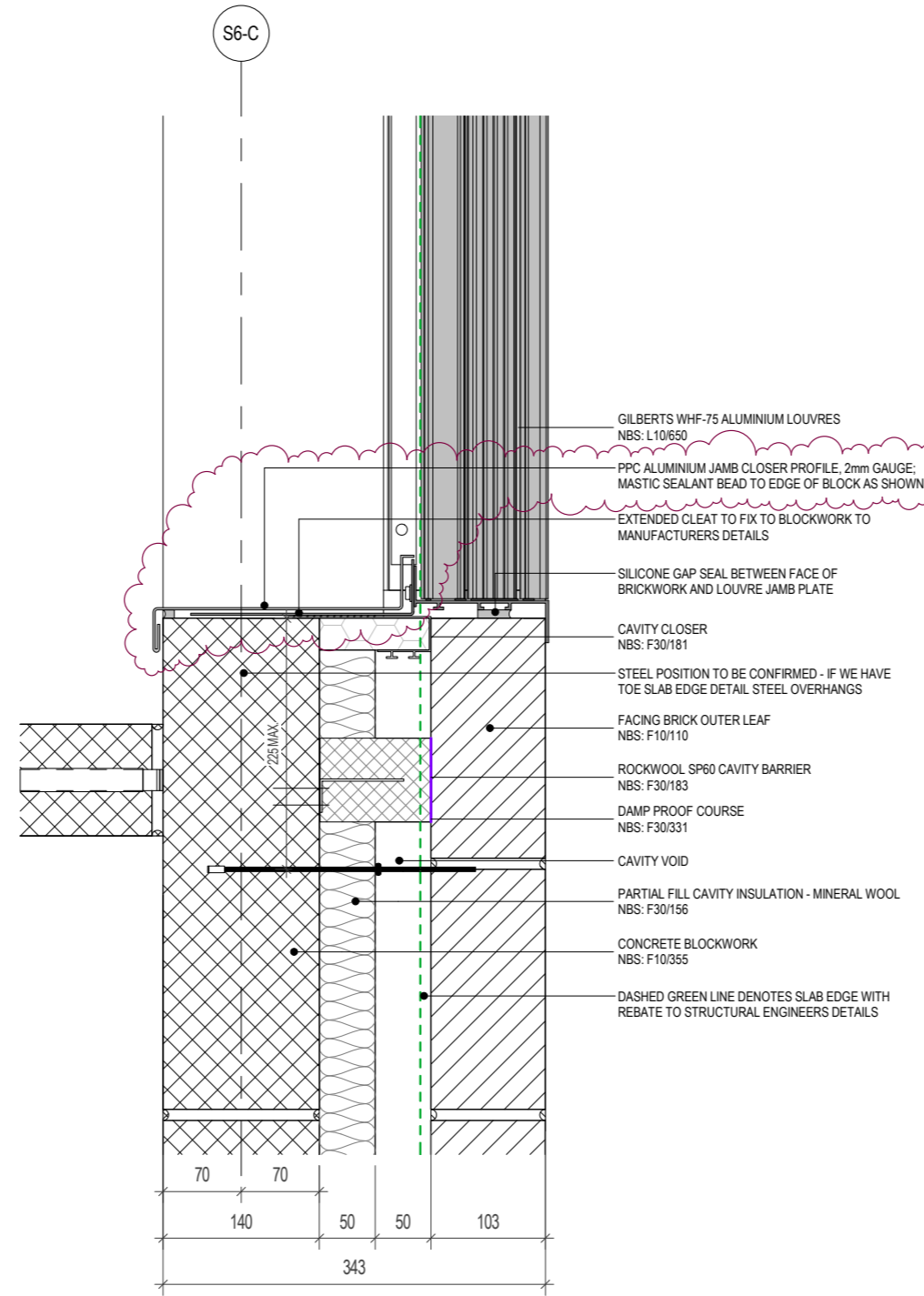
Project: Morriston General Hospital - Phase 2

Drawing Title: Typical - Door Jamb Plan Detail

Job Number: MHP2
 Date Created: 20/10/2021
 Security Classification: -
 Drawn By: JM

Scale: A3
 1 : 5
 Purpose: RIBA STAGE 4 ISSUE
 Reviewed By: MW

Drawing Number: MHP2-IBI-S6-00-DT-A-251008
 Revision: P2
 Suitability: S4



1 Typical Louvre Jamb Plan Detail
1 : 5

Notes:

- This drawing is copyright.
- Do not scale dimensions from this drawing.
- This drawing is to be read in conjunction with all other relevant drawings.
- All discrepancies on this drawing are to be reported to the architect.
- Do not modify any element of this drawing.
- Use drawing only for purpose(s) issued.
- This drawing may contain colour.

North Point

Scale Bar

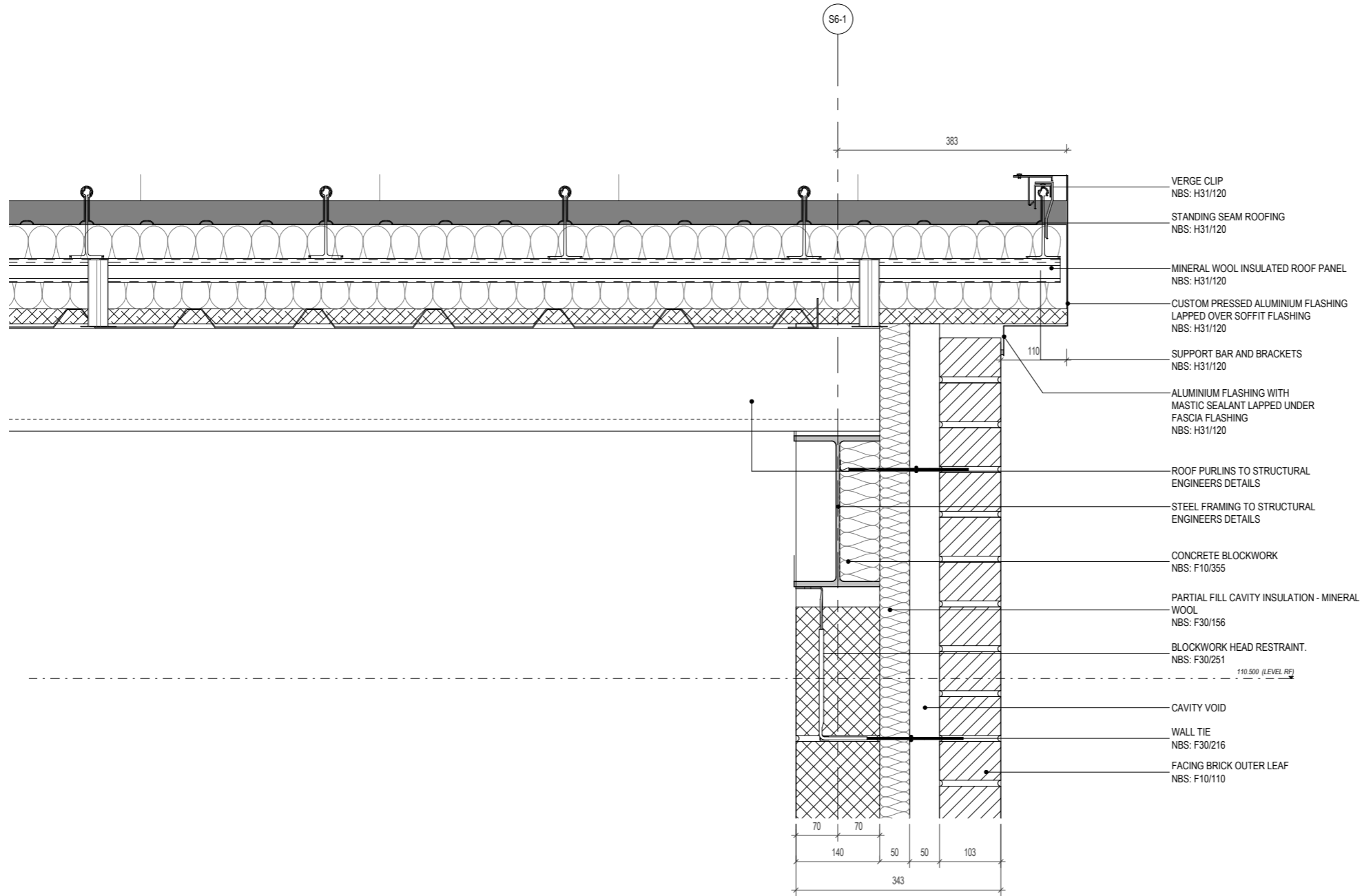
Key Plan

Hazard 1
To warn of significant hazards or information that is unusual
To be read in conjunction with all other consultant's information
Refer to CDM Schedule XXXX-IBI-XXXX-SH-A-200-XXXX

The following external model files are included within this drawing:

Rev	Date	Revision Notes	Drawn	Review
P2	12/01/22	RIBA Stage 4 Issue. Plywood jamb closer omitted, aluminium profile in lieu. Revisions clouded. Titleblock formatting updated.		
P1	12/11/21	RIBA Stage 4 Issue.		

Rev	Date	Revision Notes	Drawn	Review



1 Typical Roof Verge Detail
1:5

Notes: • This drawing is copyright. • Do not scale dimensions from this drawing. • This drawing is to be read in conjunction with all other relevant drawings. • All discrepancies on this drawing are to be reported to the architect. • Do not modify any element of this drawing. • Use drawing only for purpose(s) issued. • This drawing may contain colour.	North Point
Scale Bar	

Key Plan	
----------	--

Hazard 	HAZ-xx To warn of significant hazards or information that is unusual To be read in conjunction with all other consultant's information Refer to CDM Schedule XXXX-IBI-WB-XX-SH-A-200-XXXX
-------------------	---

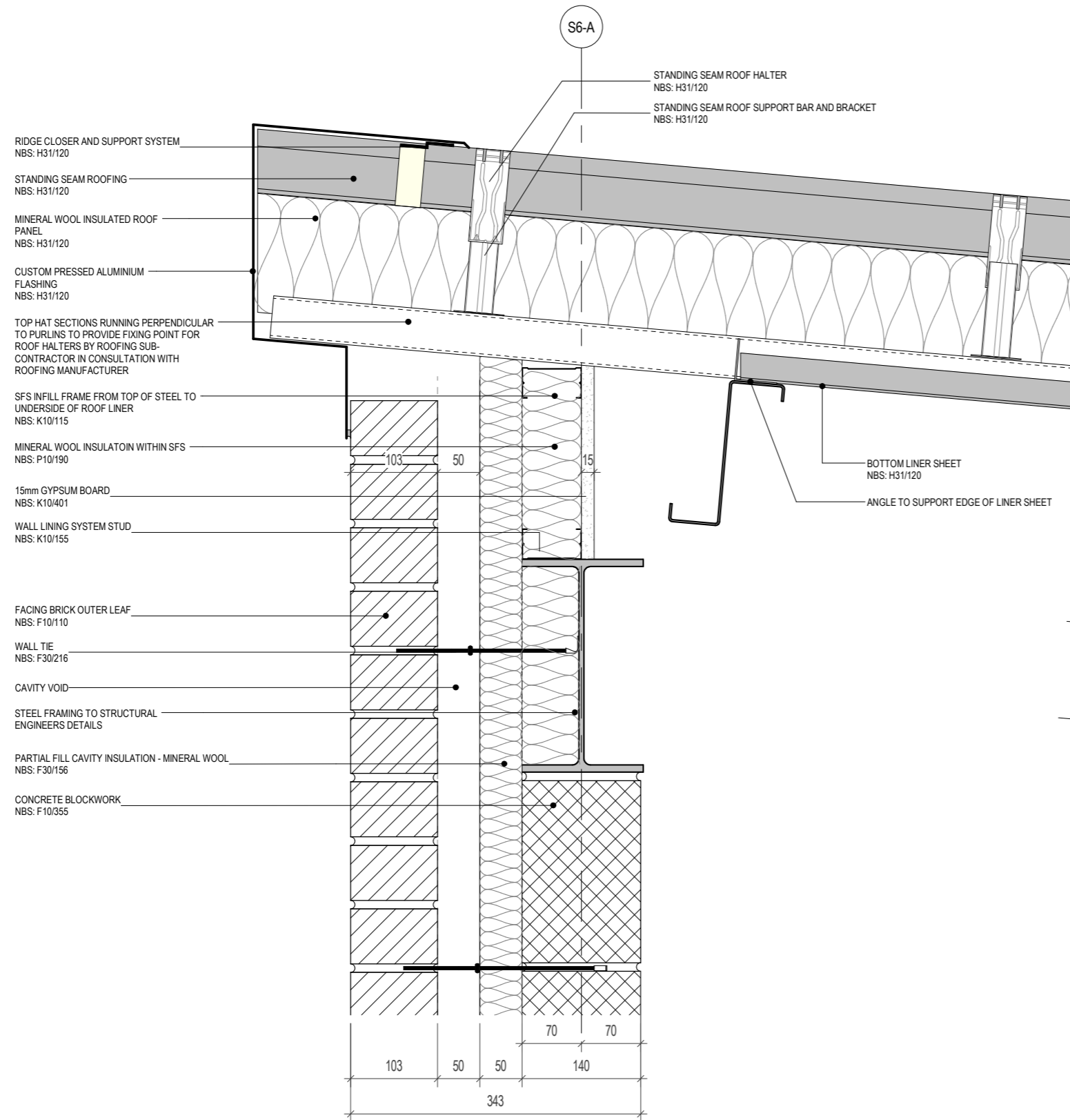
The following external model files are included within this drawing:

P1	12/11/21	RIBA Stage 4 Issue		
Rev	Date	Revision Notes	Drawn	Review

Logos

IBI Intelligence Buildings Infrastructure www.ibigroup.com	
Project	
Morrison General Hospital - Phase 2	
Drawing Title	
Typical - Roof Verge Detail	

Job Number	Date	Security Classification	Drawn By
MHP2	20/10/2021		JM
Scale@A2	Purpose	Reviewed By	
1:5	RIBA STAGE 4 ISSUE	MW	
Drawing Number	Revision	Subtality	
MHP2-IBI-S6-00-DT-A-251010	P1	S4	



1 Typical Fascia Detail
1:5

Notes:

- This drawing is copyright.
- Do not scale dimensions from this drawing.
- This drawing is to be read in conjunction with all other relevant drawings.
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- Do not modify any element of this drawing.
- Use drawing only for purpose(s) issued.
- This drawing may contain colour.

North Point

Scale Bar

Key Plan

Hazard	HAZ-xx To warn of significant hazards or information that is unusual To be read in conjunction with all other consultant's information Refer to CDM Schedule XXXX-IBI-WB-XX-SH-A-200-XXXX
--------	--

The following external model files are included within this drawing:

P1	12/11/21	RIBA Stage 4 Issue		
Rev	Date	Revision Notes	Drawn	Review

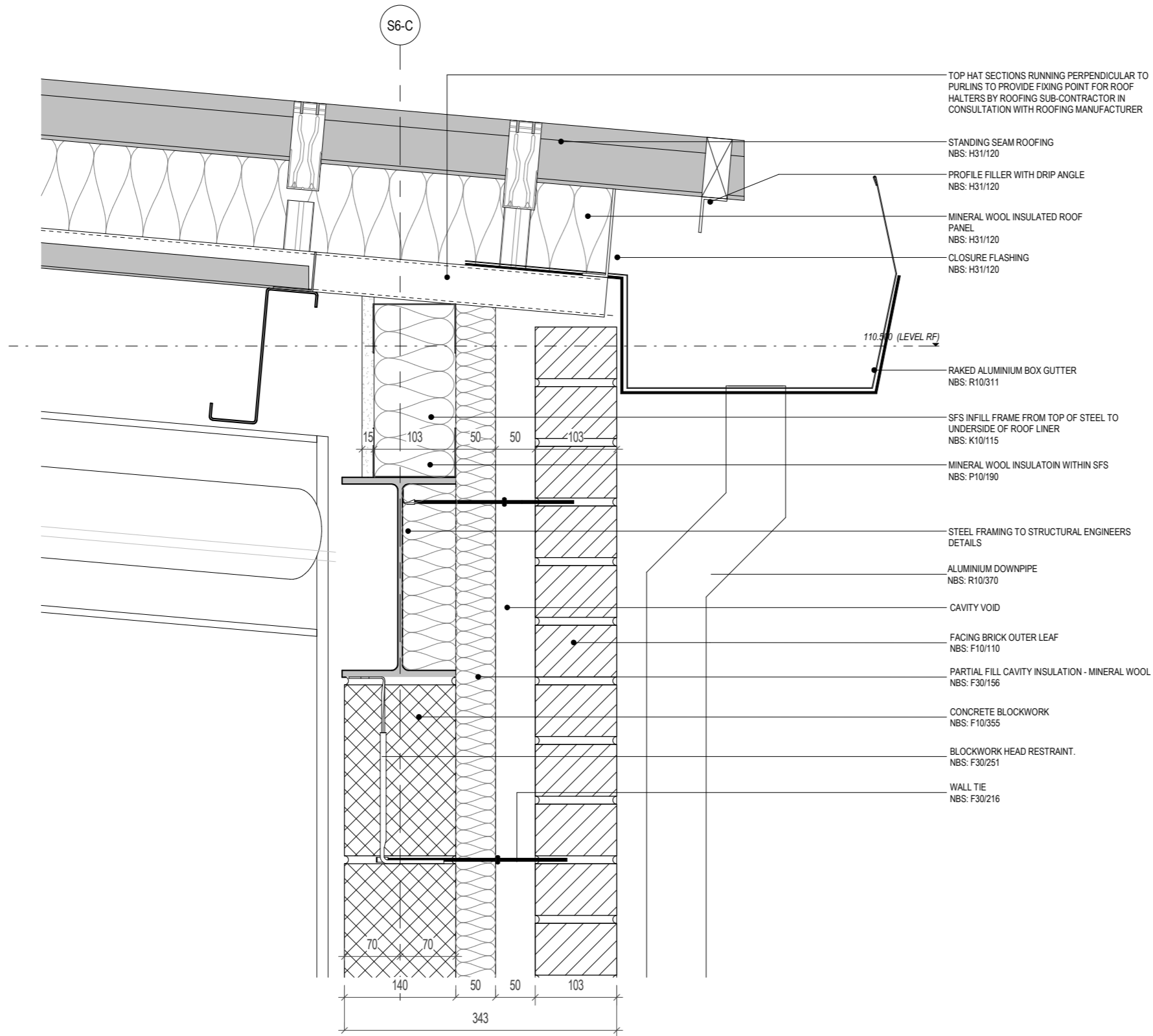
Logos

IBI Intelligence Buildings Infrastructure www.ibigroup.com

Project
Morrison General Hospital - Phase 2

Drawing Title
Typical - Fascia Detail

Job Number	Date	Security Classification	Drawn By
MHP2	20/10/2021		JM
Scale@A3	Purpose	Reviewed By	
1:5	RIBA STAGE 4 ISSUE	MW	
Drawing Number	Revision	Suitability	
MHP2-IBI-S6-00-DT-A-251011	P1	S4	



1 Typical Eaves Gutter Detail
1:5

Notes:

- This drawing is copyright.
- Do not scale dimensions from this drawing.
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- Do not modify any element of this drawing.
- Use drawing only for purpose(s) issued.
- This drawing may contain colour.

North Point

Scale Bar

Key Plan

Hazard	HAZ-xx To warn of significant hazards or information that is unusual To be read in conjunction with all other consultant's information Refer to CDM Schedule XXXX-IBI-WB-XX-SH-A-200-XXXX
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The following external model files are included within this drawing:

P1	12/11/21	RIBA Stage 4 Issue		
Rev	Date	Revision Notes	Drawn	Review

Logos

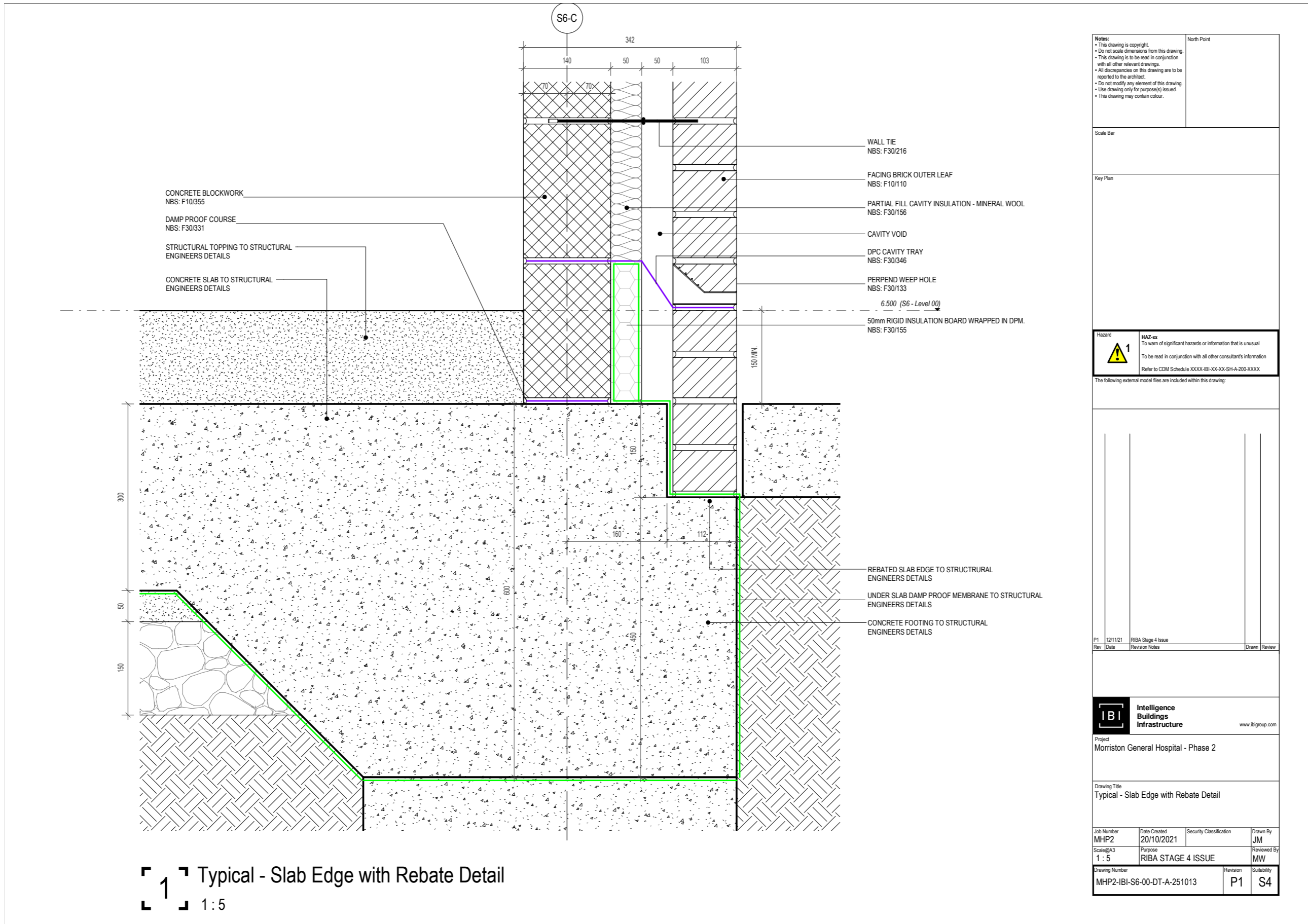


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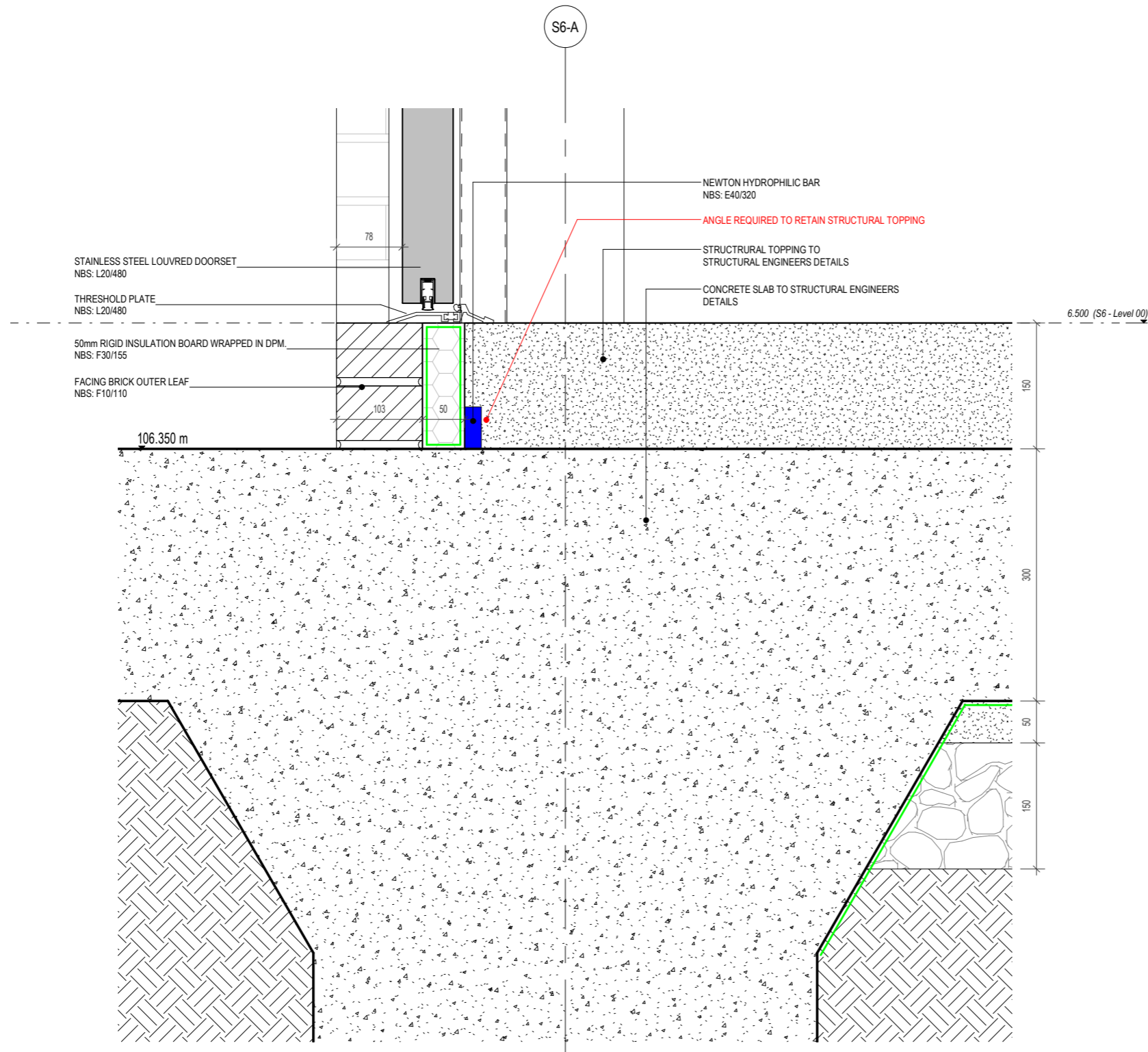
Project
Morrison General Hospital - Phase 2

Drawing Title
Typical - Eaves Gutter Detail

Job Number	Date	Security Classification	Drawn By
MHP2	20/10/2021		JM
Scale@A3	Purpose	Reviewed By	
1:5	RIBA STAGE 4 ISSUE	MW	
Drawing Number	Revision	Suitability	
MHP2-IBI-S6-00-DT-A-251012	P1	S4	



Full Size Drawings - IBI - Architect



1 Typical - Door Threshold Detail - No Rebate
1 : 5

Notes:

- This drawing is copyright.
- Do not scale dimensions from this drawing.
- This drawing is to be read in conjunction with all other relevant drawings.
- All discrepancies on this drawing are to be reported to the architect.
- Do not modify any element of this drawing.
- Use drawing only for purpose(s) issued.
- This drawing may contain colour.

North Point

Scale Bar

Key Plan

Hazard	HAZ-xx To warn of significant hazards or information that is unusual To be read in conjunction with all other consultant's information Refer to CDM Schedule XXXX-IBI-WB-XX-SH-A-200-XXXX
---------------	---

The following external model files are included within this drawing:

P1	12/11/21	RIBA Stage 4 Issue		
Rev	Date	Revision Notes	Drawn	Review

Logos

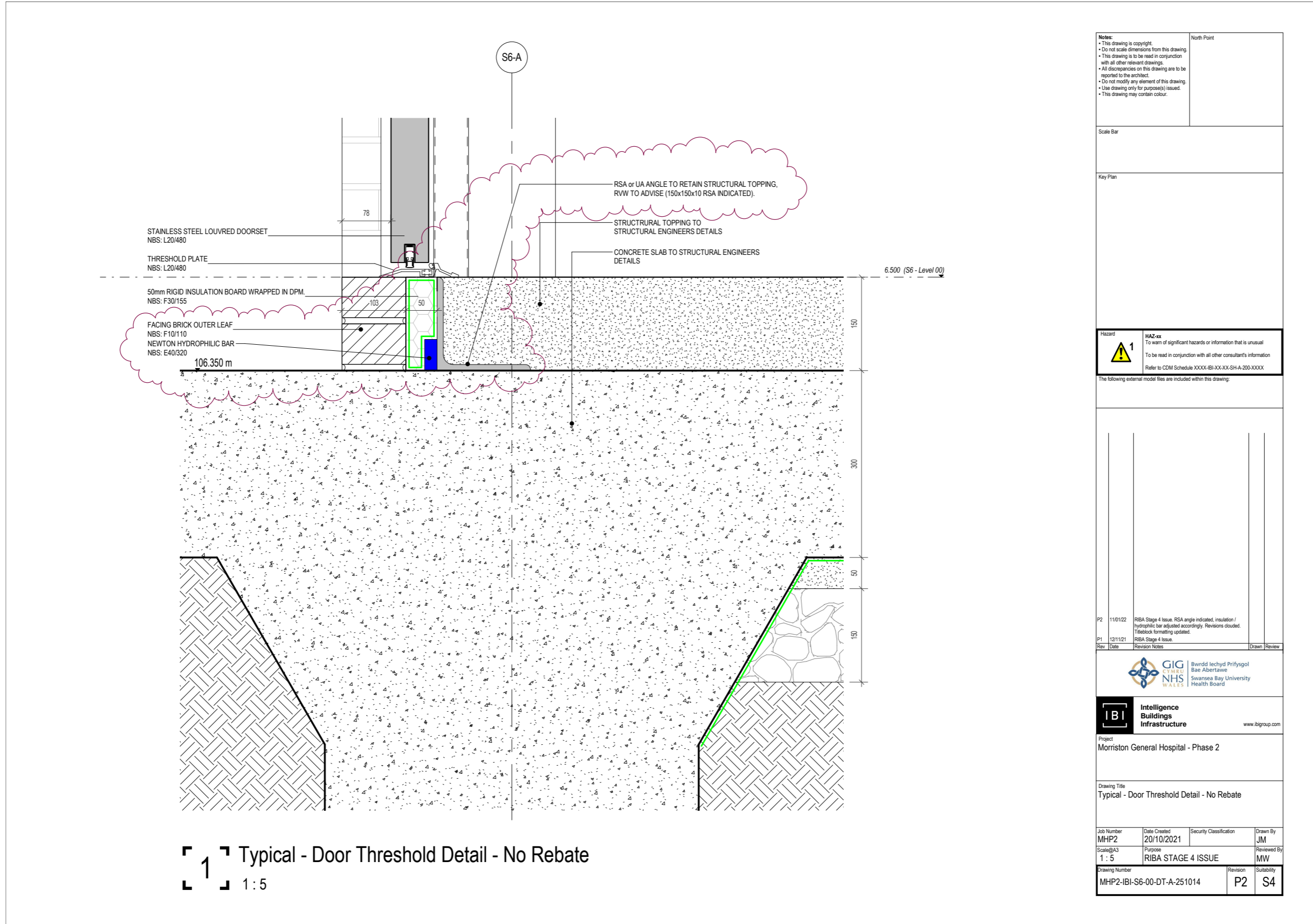
IBI Intelligence Buildings Infrastructure
www.ibigroup.com

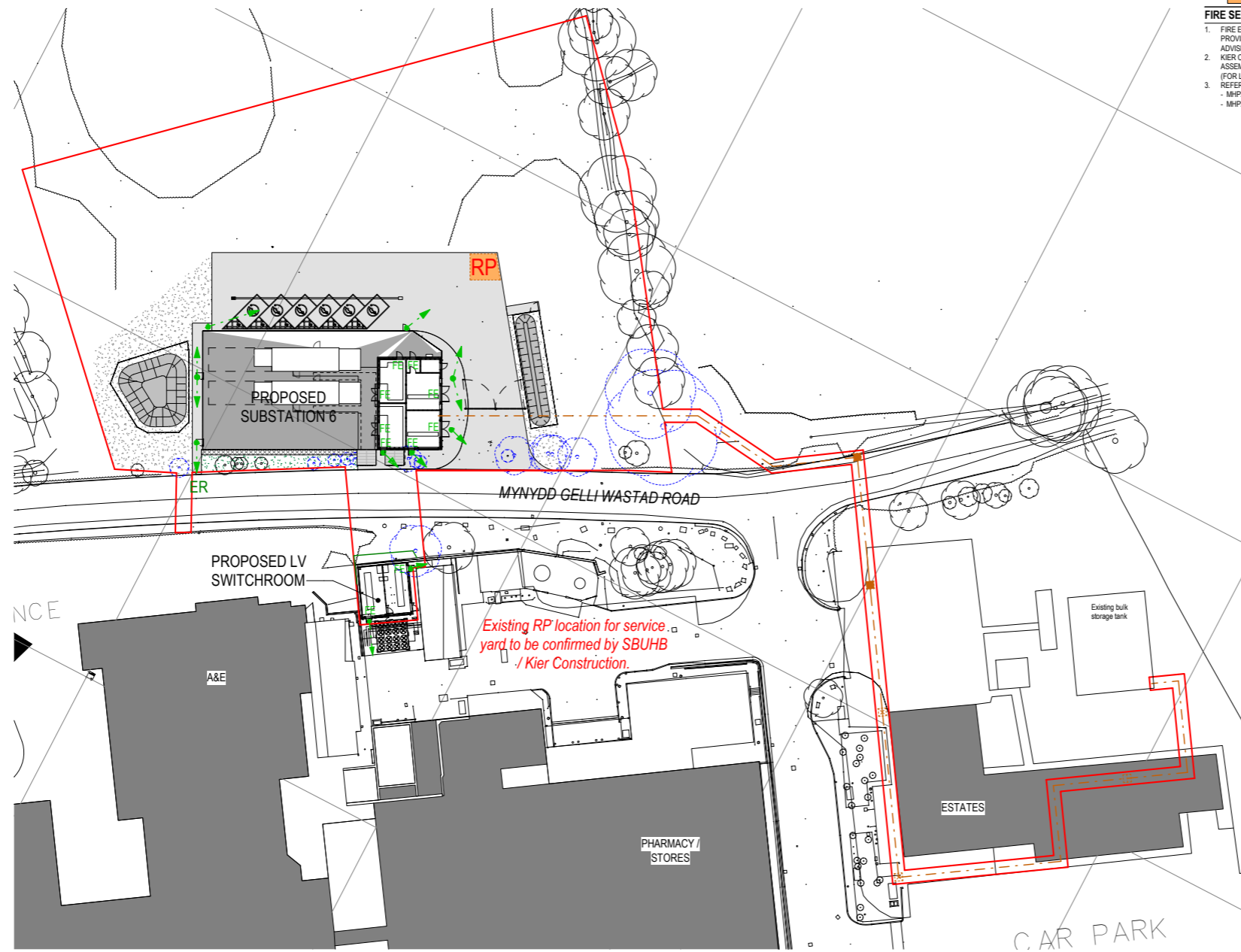
Project
Morrison General Hospital - Phase 2

Drawing Title
Typical - Door Threshold Detail - No Rebate

Job Number	Date	Security Classification	Drawn By
MHP2	20/10/2021		JM
Scale@A3	Purpose	Reviewed By	
1 : 5	RIBA STAGE 4 ISSUE	MW	
Drawing Number	Revision	Suitability	
MHP2-IBI-S6-00-DT-A-251014	P1	S4	

Full Size Drawings - IBI - Architect





FIRE SECURITY & FIRE PROTECTION KEY:

	FIRE ESCAPE ROUTE TO PLACE OF SAFETY / EXTERNAL FIRE REFUGE POINT
	FINAL EXIT (ESCAPE DOOR WITH PANIC HARDWARE OR TAIL OPEN ACCESS CONTROL)
	FIRE REFUGE / ASSEMBLY POINT

- FIRE SECURITY & FIRE PROTECTION NOTES:**
- FIRE ENGINEER TO REVIEW EXTERNAL FIRE ESCAPE PROVISIONS / ROUTES AND CONFIRM AS SATISFACTORY, OR ADVISE OTHERWISE.
 - KIER CONSTRUCTION / SBUHB TO CONFIRM THE REFUGE / ASSEMBLY POINT LOCATION FOR THE EXISTING SERVICE YARD (FOR LV BUILDING).
 - REFER ALSO TO THE FOLLOWING IBI DRAWINGS:
 - MHP2-IBI-S6-00-DR-A-572001: PROPOSED FIRE PLAN (SUB 6).
 - MHP2-IBI-LV-00-DR-A-572002: PROPOSED FIRE PLAN (LV).

Notes:

- This drawing is copyright.
- Do not scale dimensions from this drawing.
- This drawing is to be read in conjunction with all other relevant drawings.
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- This drawing may contain colour.

Scale Bar
0 5m 15m 25m
Scale: 1:500

North Point

Key Plan

--	--

Hazard

	HAZ-xx To warn of significant hazards or information that is unusual To be read in conjunction with all other consultant's information Refer to CDM Schedule XXXX-IBI-WB-XX-SH-A-200-XXXX
--	--

The following external model files are included within this drawing:

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P1	15/11/21	RIBA Stage 4 Issue.	
Rev	Date	Revision Notes	Drawn / Review

Logos

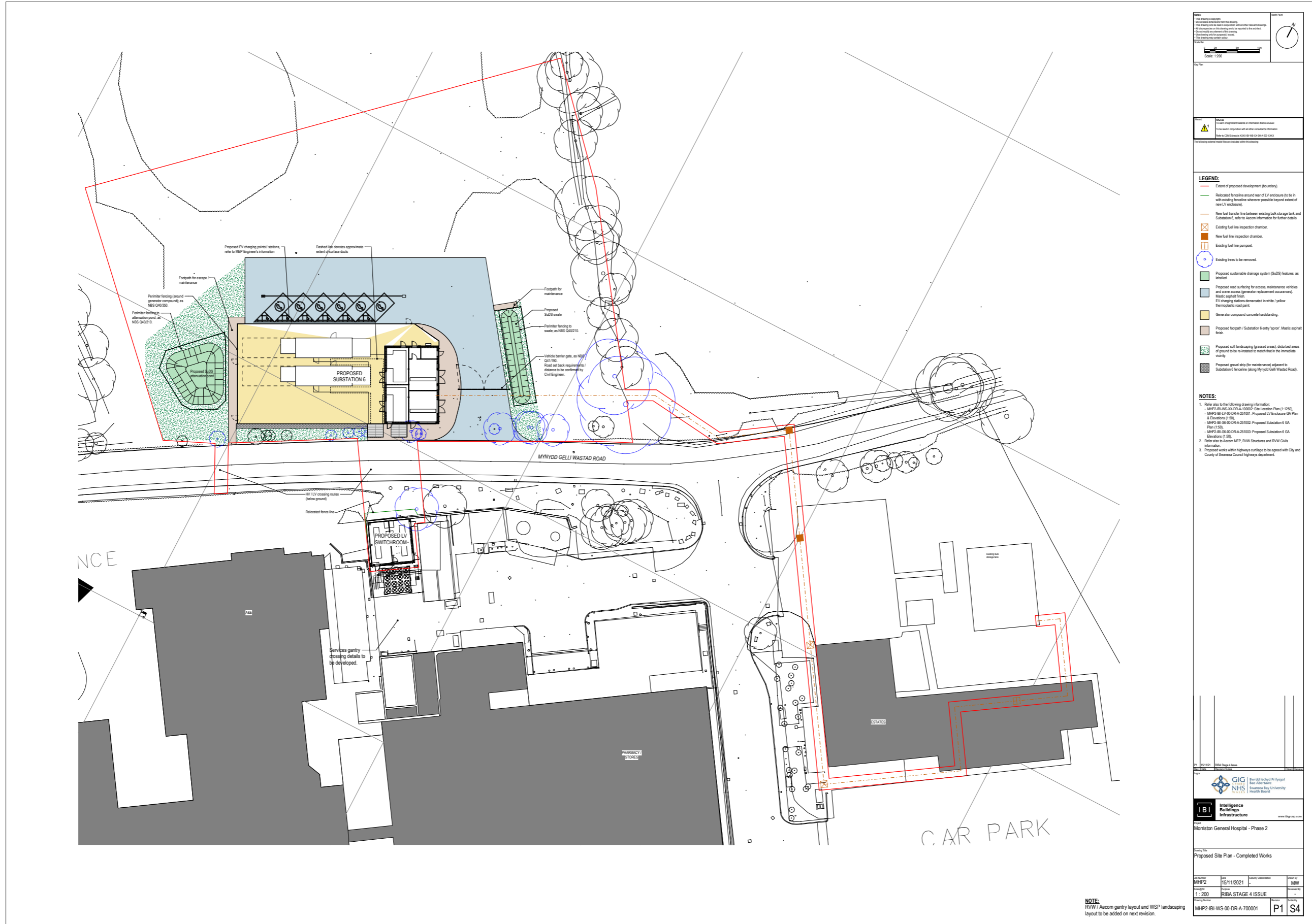
IBI Intelligence Buildings Infrastructure
www.ibigroup.com

Project
Morrison General Hospital - Phase 2

Drawing Title
Proposed Fire Plan - Site

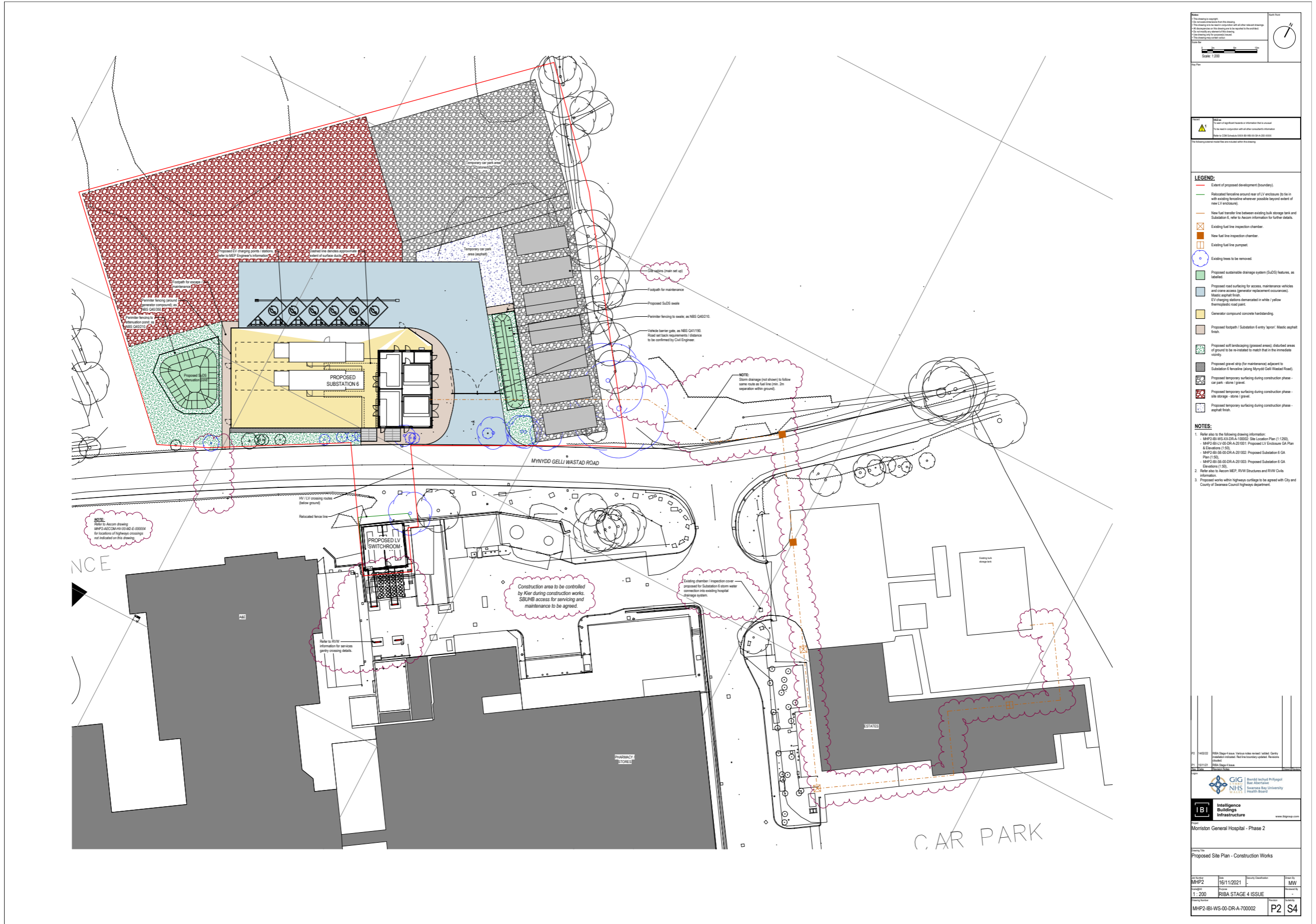
Job Number	Date	Security Classification	Drawn By
MHP2	15/11/2021	-	MW
Scale@A2	Purpose	Reviewed By	
1 : 500	RIBA STAGE 4 ISSUE	-	
Drawing Number	Revision	Suitability	
MHP2-IBI-WS-00-DR-A-572003	P1	S4	

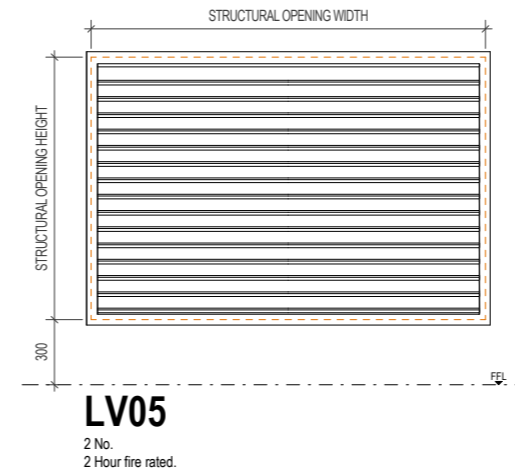
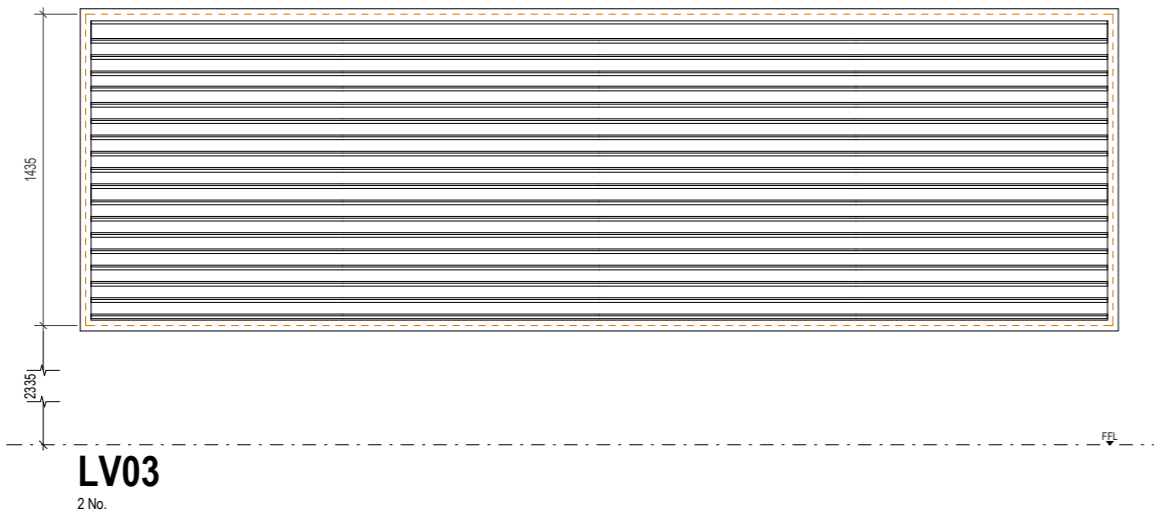
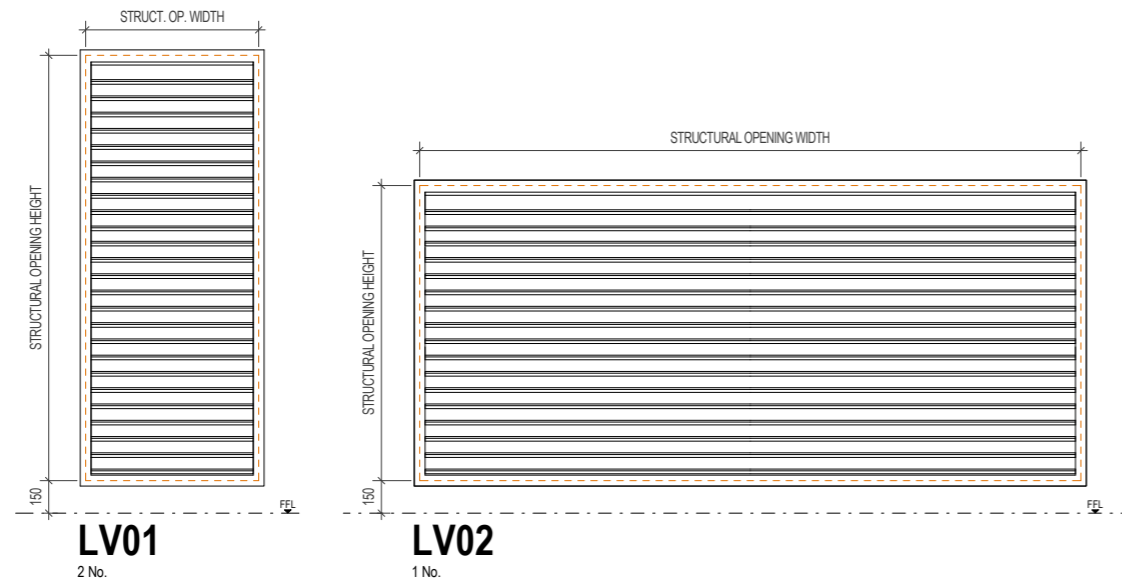
Full Size Drawings - IBI - Architect



<p>Scale: 1:200</p> <p>North Arrow: [North Arrow Symbol]</p>	
<p>Legend:</p> <ul style="list-style-type: none"> Extent of proposed development (boundary) Relocated fence line around rear of LV enclosure (to be in with existing fence line wherever possible beyond extent of new LV enclosure) New fuel transfer line between existing bulk storage tank and Substation 6, refer to Aecom information for further details Existing fuel line inspection chamber New fuel line inspection chamber New fuel line pump Existing trees to be removed Proposed sustainable drainage system (SuDS) features, as detailed Proposed road surfacing for access, maintenance vehicles and cone access (generator replacement occasions) Mastic asphalt finish EV charging stations demarcated in white / yellow thermoplastic road paint Generator compound concrete hardstanding Proposed footpath / Substation 6 entry 'apron', Mastic asphalt finish Proposed soft landscaping (grassed areas) disturbed areas of ground to be re-instated to match that in the immediate vicinity Proposed gravel strip for maintenance adjacent to Substation 6 fence line (along Mynydd Gelli Wastad Road) 	
<p>NOTES:</p> <ol style="list-style-type: none"> Refer also to the following drawing information: <ul style="list-style-type: none"> MHP2-IBI-WS-00-DR-A-10000: Site Location Plan (1:250) MHP2-IBI-WS-00-DR-A-20100: Proposed LV Enclosure GA Plan (1:50) MHP2-IBI-WS-00-DR-A-20100: Proposed Substation 6 GA Plan (1:50) MHP2-IBI-WS-00-DR-A-20100: Proposed Substation 6 GA Information (1:50) Refer also to Aecom MEP, RWV Structures and RWV Civils information. Proposed works within highway's curbside to be agreed with City and County of Swansea Council Highways department. 	
<p>IBI Intelligence Buildings Infrastructure</p>	
<p>Morriston General Hospital - Phase 2</p>	
<p>Proposed Site Plan - Completed Works</p>	
<p>Project No: MHP2</p>	<p>Date: 15/11/2021</p>
<p>Scale: 1:200</p>	<p>Issue: RIBA STAGE 4 ISSUE</p>
<p>Project No: MHP2-IBI-WS-00-DR-A-700001</p>	<p>Sheet No: P1 S4</p>

NOTE:
RWV / Aecom gantry layout and WSP landscaping layout to be added on next revision.





LOUVRE SCHEDULE					
LOUVRE MARK	LOUVRE ELEVATION	CILL HEIGHT	STRUCTURAL OPENING WIDTH	STRUCTURAL OPENING HEIGHT	COMMENTS
S6					
EL-S6-001	LV01	150	797.5	1960	
EL-S6-002	LV01	150	797.5	1960	
EL-S6-003	LV03	2335	4735	1425	
EL-S6-004	LV03	2335	4735	1435	
EL-S6-005	LV02	150	3047.5	1360	
LV					
EL-LV-001	LV05	300	1810	1210	
EL-LV-002	LV05	300	1810	1210	
EL-LV-003	LV04	3900	7210	910	

- NOTES:**
- Refer to NBS section L10/650 for louvre specifications.
 - With the exception of louvre type LV05 it is assumed that all louvres are non fire rated. This is to be clarified by the Fire Engineer (refer also to note 2 on IBI drawing MHP2-IBI-S6-00-DR-A-572001).
 - Louvre colour RAL7012 (colour to be confirmed by client and may be subject to change).
 - Refer also to IBI 251 series DT drawings for louvre details.

Notes:

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- This drawing is to be read in conjunction with all other relevant drawings.
- All discrepancies on this drawing are to be reported to the architect.
- Do not modify any element of this drawing.
- Use drawing only for purpose(s) issued.
- This drawing may contain colour.

North Point

Scale Bar

Key Plan

Hazard

HAZ-xx
To warn of significant hazards or information that is unusual
To be read in conjunction with all other consultant's information
Refer to CDM Schedule XXXX-IBI-WB-XX-SH-A-200-XXXX

The following external model files are included within this drawing:

Rev	Date	Revision Notes	Drawn	Review
P1	12/11/21	RIBA Stage 4 Issue		

Logos

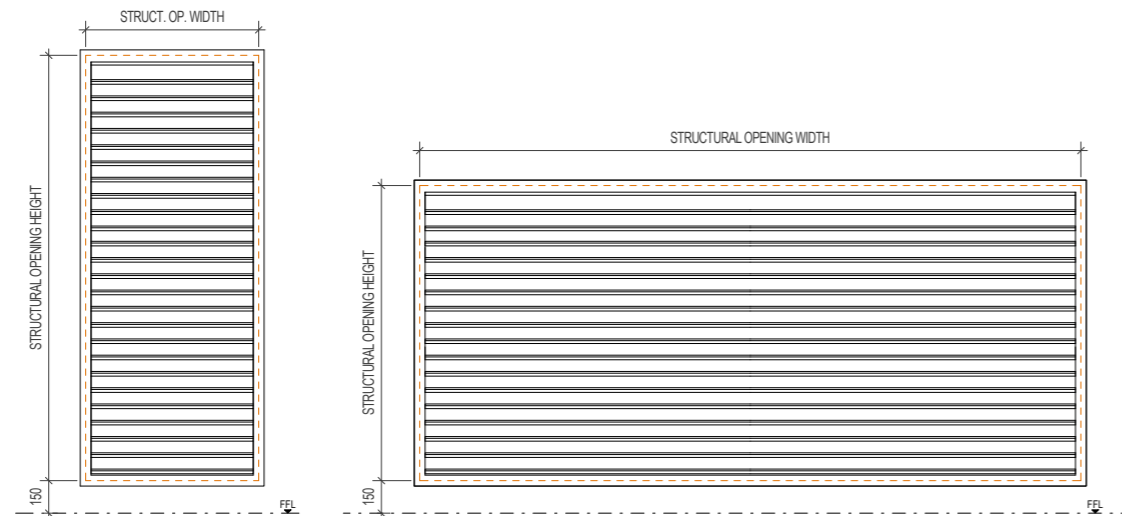
Bwrdd Iechyd Prifysgol
Bae Abertawe
Swansea Bay University
Health Board

IBI Intelligence Buildings Infrastructure
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Project
Morrison General Hospital - Phase 2

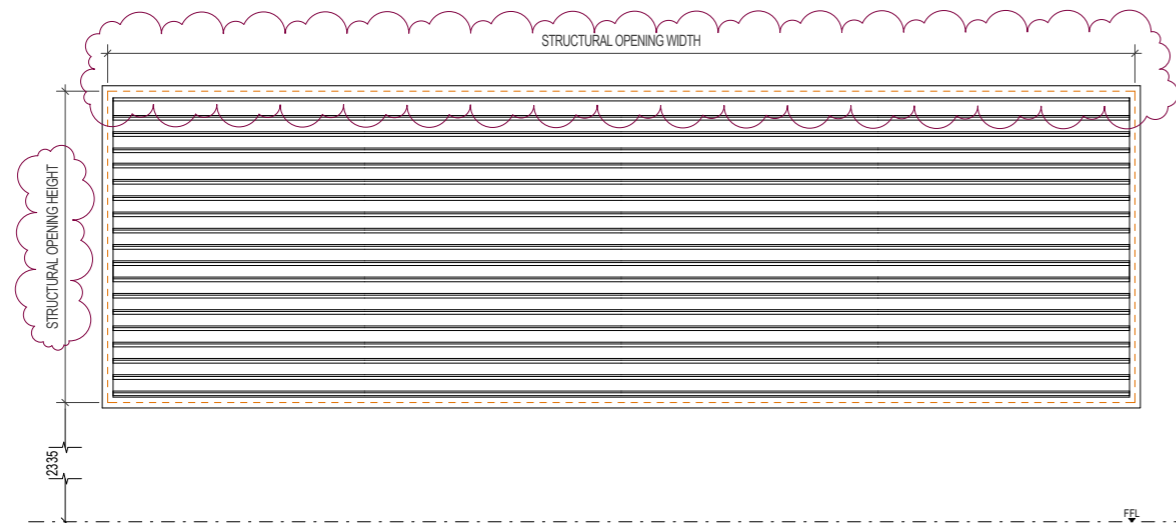
Drawing Title
Louvre Schedule - Substation 6 and LV

Job Number	Date	Security Classification	Drawn By
MHP2	12/11/2021	-	JM
Scale@A2	Purpose	Reviewed By	
1 : 20	RIBA STAGE 4 ISSUE	MW	
Drawing Number	Revision	Suitability	
MHP2-IBI-XX-XX-SH-A-321001	P1	S4	

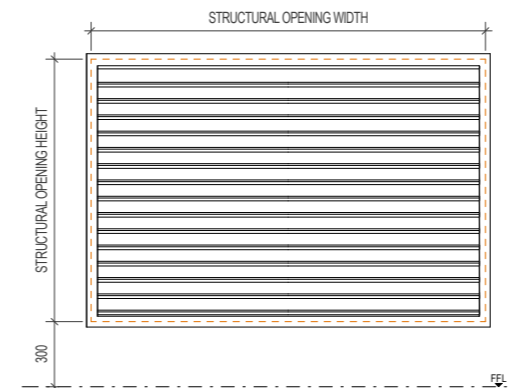


LV01
2 No.

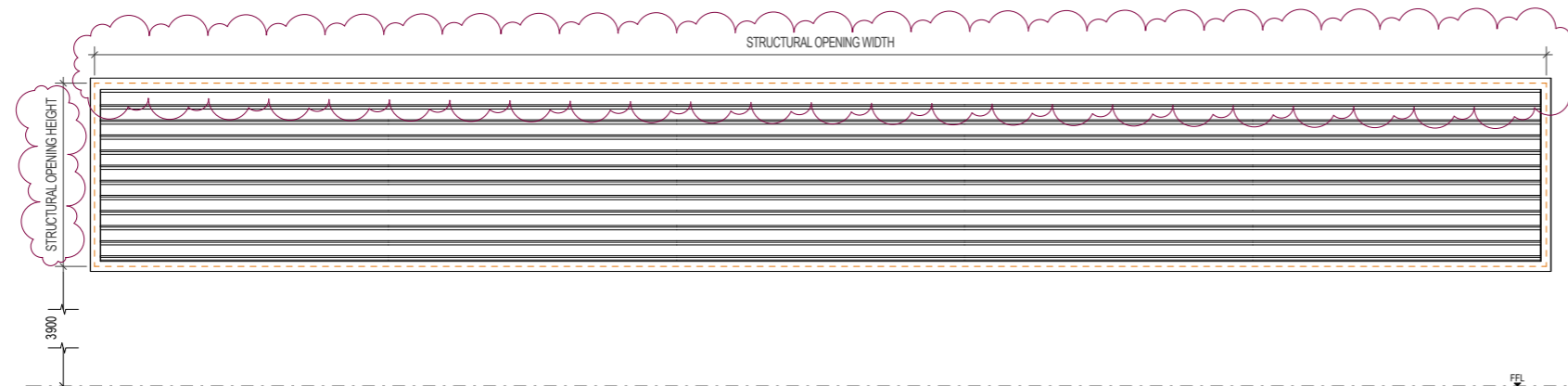
LV02
1 No.



LV03
2 No.



LV05
2 No.
2 Hour fire rated.



LV04
1 No.

LOUVRE SCHEDULE					
LOUVRE MARK	LOUVRE ELEVATION	CILL HEIGHT	STRUCTURAL OPENING WIDTH	STRUCTURAL OPENING HEIGHT	COMMENTS
S6					
EL-S6-001	LV01	150	797.5	1960	
EL-S6-002	LV01	150	797.5	1960	
EL-S6-003	LV03	2335	4735	1435	
EL-S6-004	LV03	2335	4735	1435	
EL-S6-005	LV02	150	3047.5	1360	
LV					
EL-LV-001	LV05	300	1810	1210	
EL-LV-002	LV05	300	1810	1210	
EL-LV-003	LV04	3900	7210	910	

- NOTES:**
1. Refer to NBS section L10/650 for louvre specifications.
 2. With the exception of louvre type LV05 it is assumed that all louvres are non fire rated. This is to be clarified by the Fire Engineer (refer also to note 2 on IBI drawing MHP2-IBI-S6-00-DR-A-572001).
 3. Louvre colour RAL7012 (colour to be confirmed by client and may be subject to change).
 4. Refer also to IBI 251 series DT drawings for louvre details.

Notes:

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- This drawing is to be read in conjunction with all other relevant drawings.
- All discrepancies on this drawing are to be reported to the architect.
- Do not modify any element of this drawing.
- Use drawing only for purpose(s) issued.
- This drawing may contain colour.

North Point

Scale Bar

Key Plan

Hazard

HAZ-xx

To warn of significant hazards or information that is unusual

To be read in conjunction with all other consultant's information

Refer to CDM Schedule XXXX-IBI-WB-XX-SH-A-200-XXXX

The following external model files are included within this drawing:

Rev	Date	Revision Notes	Drawn	Review
P2	11/01/22	RIBA Stage 4 Issue. Structural opening width to louvre EL-S6-003 revised (to match EL-S6-004). Structural opening widths / heights indicated to louvre LV03 and LV04 elevations. Revisions clouded.		
P1	12/11/21	RIBA Stage 4 Issue.		

Logos

Bwrdd Iechyd Prifysgol Bae Abertawe Swansea Bay University Health Board

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Project

Morrison General Hospital - Phase 2

Drawing Title

Louvre Schedule - Substation 6 and LV

Job Number	Date	Security Classification	Drawn By
MHP2	12/11/2021	-	JM
Scale@A2	Purpose	Reviewed By	
1 : 20	RIBA STAGE 4 ISSUE	MW	
Drawing Number	Revision	Suitability	
MHP2-IBI-XX-XX-SH-A-321001	P2	S4	

Project No.: **MHP2 / 132740**

Project Title: **MORRISTON GENERAL HOSPITAL - PHASE 2**

Document Title: **DOOR IRONMONGERY / HARDWARE SCHEDULE**

Doc. Ref.: **MHP2-IBI-XX-XX-SH-A-322002**

Revision: **P01**

Doc. Status: **RIBA STAGE 4 ISSUE**

IRONMONGERY DESCRIPTION (all elements are single quantity, unless noted otherwise in the description)	Access Control (C): Network Link Req'd / S: Stand Alone / NA: Not applicable	Fire Alarm Link Req'd? (Y: Yes / N: No)	Power Required? (D: To door / F: To frame / N: No req.)	NBS Section (P21 u.n.o)	HARDWARE SET REFERENCE 'S' Prefix denotes single leaf doors, 'D' prefix denotes double leaf doors & 'L' prefix denotes leaf and a half doors (see note 02)									
					S01	S02	S03	S04	D01	D02	L01	L02		
HINGES (see note 1)														
Single axis hinges (pair)	NA	N	N	310	1.5	1.5	1.5			3	3	3	3	
DOOR CLOSERS / OPERATORS														
Overhead door closer - standard, with backcheck	NA	N	N	410	1	1	1			1	1	1	2	
DOOR LOCKING														
Cylinder mortice dead lock; euro profile	NA	N	N	516						1				
Cylinder & thumbturn, euro profile	NA	N	N	521						1				
Door bolts; pair (mounted top and bottom of door)	NA	N	N	582						1	1	1	1	
Electro-magnetic door lock, mounted at head of door (linked to access control).	C	Y	D	532	1						1	1		
Salto access control swipe card reader (refer to Aecom specification).	S	N	N	AE	1						1	1		
DOOR FURNITURE														
Pull handle; D shape handle	NA	N	N	641	1	1	1			2	2	2	1	
Pull handle, pair; D shape handle (back to back fixing)	NA	N	N	642										
Push plate	NA	N	N	670	1		1			2	2	2	1	
Kick plate: Height 150mm, width related to door leaf.	NA	N	N	690	2	1	2			4	4	4	4	
Escutcheon, euro profile cylinder	NA	N	N	710						2				
Door stop	NA	N	N	720			1							
Panic hardware: Push pad panic latch.	NA	N	N	577		1								
DOOR SIGNAGE														
'Drws tân cadwch ar gau / Fire Door Keep Shut' circular door sign, screw fix	NA	N	N	820	2	2	2			4	4	4	4	
'Drws tân cadwch ar glo / Fire Door Keep Locked' circular door sign, screw fix	NA	N	N	821										

Set S04 related to external gate elements, as such it is assumed that all related hardware / locking requirements.

NOTES:

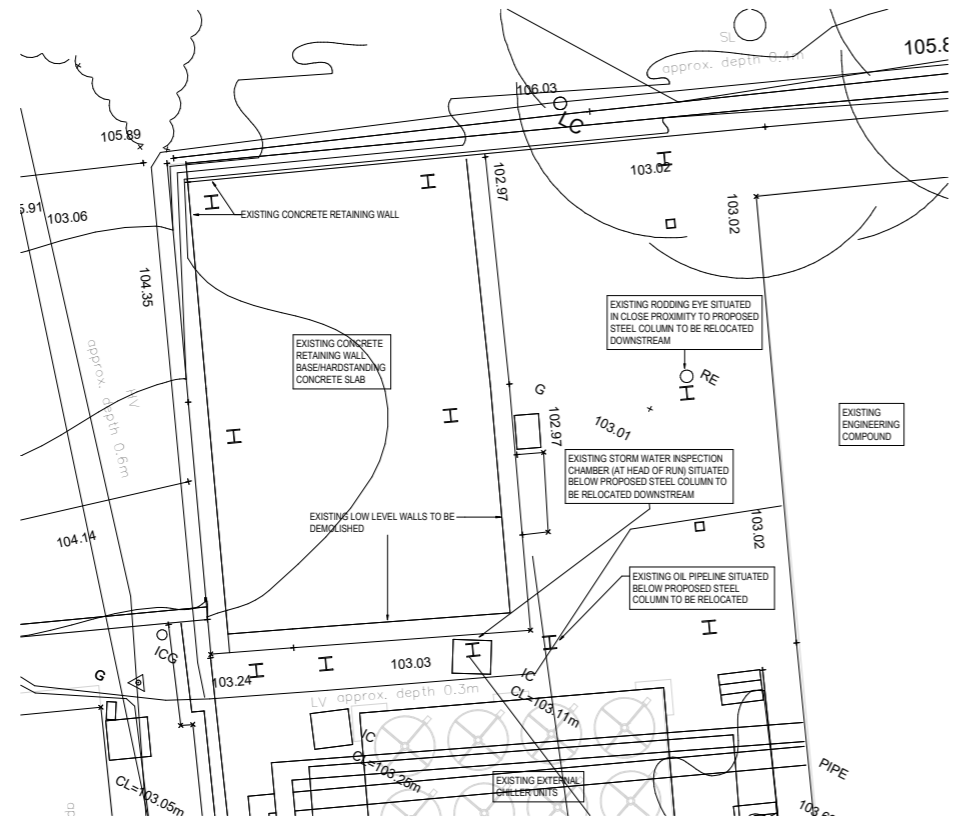
- 01 Where hinges are indicated, hinges to be integral with door / doorset and as manufacturers standard.
- 02 Where doors are fire rated, ironmongery to have suitable fire rating to match door and CE marked as such.
- 03 Refer to door schedule for lock suiting, additionally all cylinders keyed to differ.
- 04 When ordering ironmongery, the contractor is to ensure that the ironmongery noted is suitable for the thickness of door into which they are being installed. Any adjustments in item codes should be notified to IBI prior to ordering / fabrication.
- 05 Ironmongery to comply with the requirements of Approved Document Part M 2010 Section 2.17 and BS8300: 2009 Clause 6.6 (all clauses) and Fig. 17.
- 06 Where NBS specification is referenced as AE, refer to Aecom MEP specification for item.

REFER ALSO TO IBI INFORMATION:

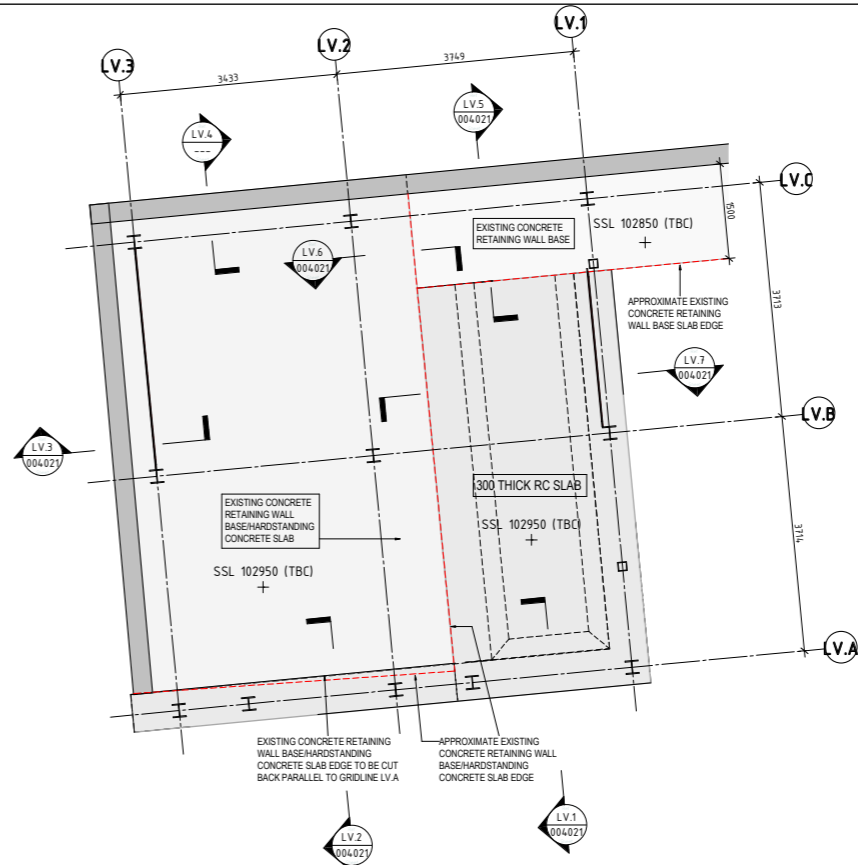
- DR-A-251 series drawings for 1:50 GA plans and door locations / references.
- MHP2-IBI-XX-XX-SP-A-800-111: NBS L20 Doors/ shutters/ hatches
- MHP2-IBI-XX-XX-SP-A-800-154: NBS P21 Door/ window ironmongery

DATE	DESCRIPTION
17/11/2021	Issued for RIBA Stage 4 - first issue.

Full Size Drawings - RVW - Structural

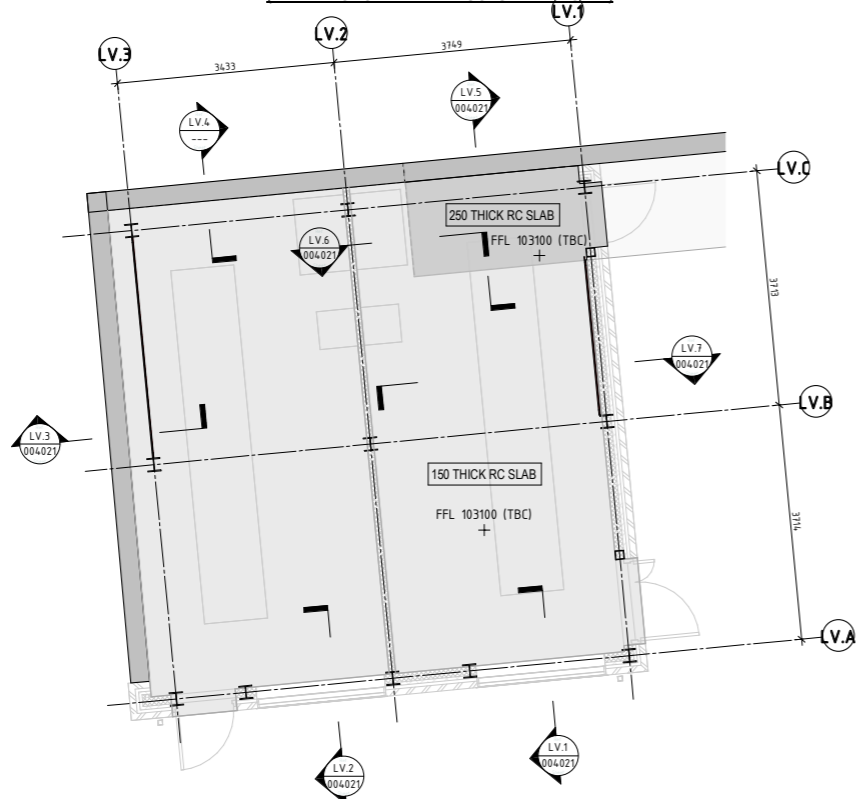


LV BUILDING EXISTING/DEMOLITION PLAN
(Scale 1: 50)
(WITH PROPOSED STEEL COLUMNS SHOWN)



PLAN ON LV BUILDING AT GROUND FLOOR SSL
(Scale 1: 50)

NOTE!
SETTING OUT, LEVELS AND THICKNESSES OF EXISTING CONCRETE RETAINING WALL BASE AND HARDSTANDING ARE UNKNOWN DUE TO LACK OF SURVEY DATA. DETAILS ARE TO BE CONFIRMED AND REPORTED TO RVW PRIOR TO COMMENCEMENT OF CONSTRUCTION ISSUE DETAILING.



PLAN ON LV BUILDING AT GROUND FLOOR FFL
(Scale 1: 50)

REINFORCEMENT ESTIMATE.
GROUND FLOOR BASE SLAB - 35Kg/m²
600x600 EDGE BEAM - 19Kg/m
GROUND FLOOR INTERNAL TOPPING SLAB - 10Kg/m²

SAFETY, HEALTH & ENVIRONMENT (SHE BOX) RESIDUAL HAZARDS	
CONSTRUCTION PHASE: SPECIFIC RESIDUAL HAZARDS HAVE BEEN IDENTIFIED ON THIS DRAWING BY THE FOLLOWING SYMBOLS:	
KEY:	DETAILS OF RISK:
	EXISTING UNDERGROUND SERVICES. DEEP EXCAVATIONS.

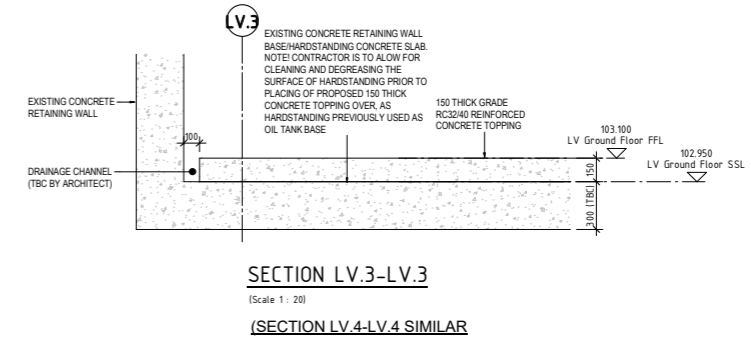
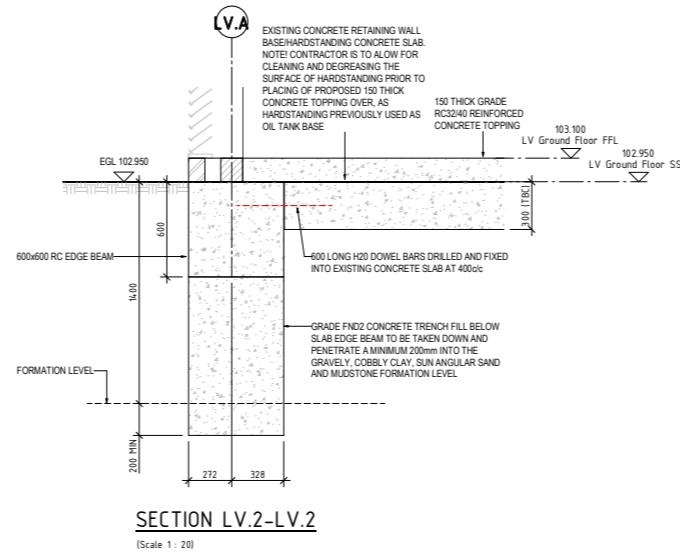
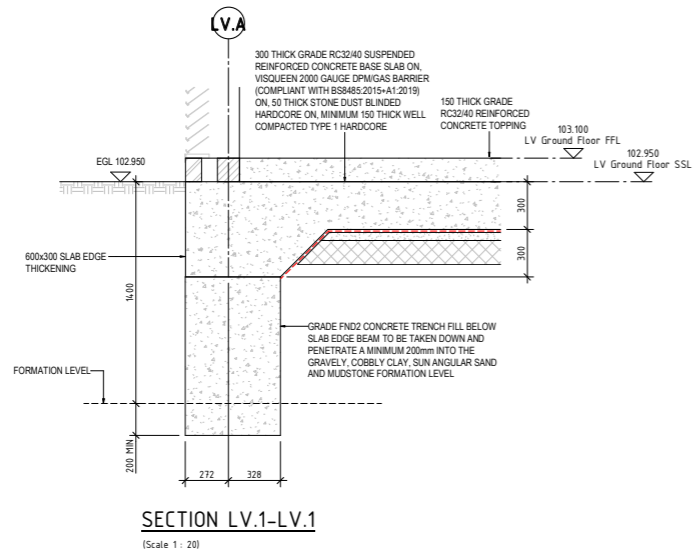
- NOTES:**
- GENERAL**
- DO NOT SCALE FROM THIS DRAWING, USE FIGURED DIMENSIONS ONLY.
 - ALL DIMENSIONS ARE IN MILLIMETRES. ALL LEVELS ARE IN METRES.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH THE LATEST ARCHITECTS, ENGINEERS & SPECIALISTS DRAWINGS & SPECIFICATIONS.
 - DRAWING TO BE READ IN CONJUNCTION WITH THE LATEST S.I. REPORT.

- GROUND FLOOR SLAB**
- SLAB HAS BEEN DESIGNED FOR A UDL OF 35kN/m².
 - NO FIBRE REINFORCEMENT IS TO BE USED.
 - PRIOR TO EXCAVATION CARE MUST BE TAKEN TO LOCATE & CLEARLY MARK ALL EXISTING SERVICES.
 - ALL SOFT SPOTS TO BE REMOVED & REPLACED WITH LEAN MIX CONCRETE AS DIRECTED BY THE ENGINEER.
 - ALL COMPACTION TO BE CARRIED OUT IN ACCORDANCE WITH THE D.O.T. SPECIFICATION.
 - PRIOR TO CONCRETING, FORMATION LEVEL TO BE INSPECTED & APPROVED BY ENGINEER.

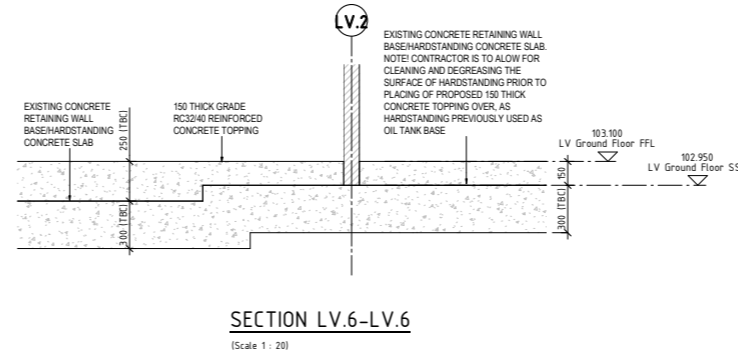
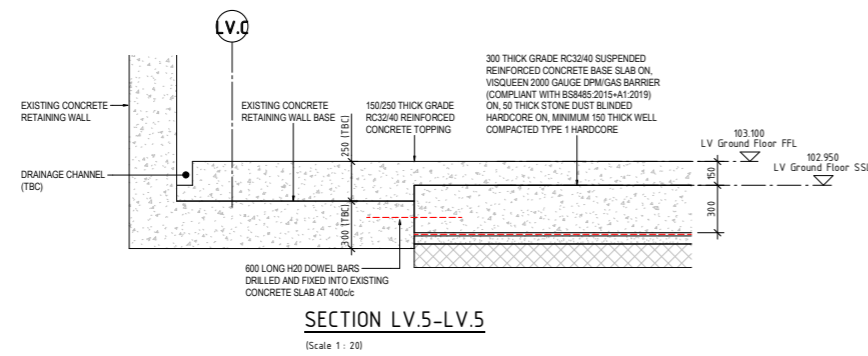
- CONCRETE**
- ALL WORK TO BE UNDERTAKEN & MATERIALS SUPPLIED IN ACCORDANCE WITH RELEVANT BRITISH STANDARDS, CODES OF PRACTICE & BUILDING REGULATIONS.
 - CONCRETE GRADES TO BE AS FOLLOWS:
REINFORCED CONCRETE BASE & INTERNAL TOPPING SLABS TO BE GRADE RC32/4.0
GAS BARRIER.
 - ONLY PLASTIC OR CONCRETE SPACERS ARE TO BE LAID DIRECTLY ONTO DPM / RADON / GAS BARRIER.
 - ALL BURIED CONCRETE SHOULD AT A MINIMUM CONFORM TO CLASS AC-1 OF BRE SPECIAL DIGEST 1 (2006)
 - WATERPROOFING MEMBRANE / RADON BARRIER TO BE LAID IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS & LAPPED ONTO D.P.C. WHERE APPLICABLE. ALL TO ARCHITECT'S DETAILS. TOP HATS TO BE USED AT SERVICE PENETRATIONS AND ALL JOINTS TO BE LAPPED AND TAPED

P01	12.11.21	STAGE 4 ISSUE.	DPH	JF
Rev.	Date	Details	By	Chk.
Amendments				
Project: MORRISTON GENERAL HOSPITAL PHASE 2				
Title: LV BUILDING - PLAN ON GROUND FLOOR AT SSL & FFL				
Drawn:	Checked:	Scale(s) at A1:		
DPH	JF	As indicated		
Date:	RWV Job No.:	Revision:	Suitability:	
NOV. 2021	C6986	P01	D1	
Drawing Status: STAGE 4 INFORMATION				
Drawing No.: MHP2-RVW-LV-ZZ-DR-S-004020				

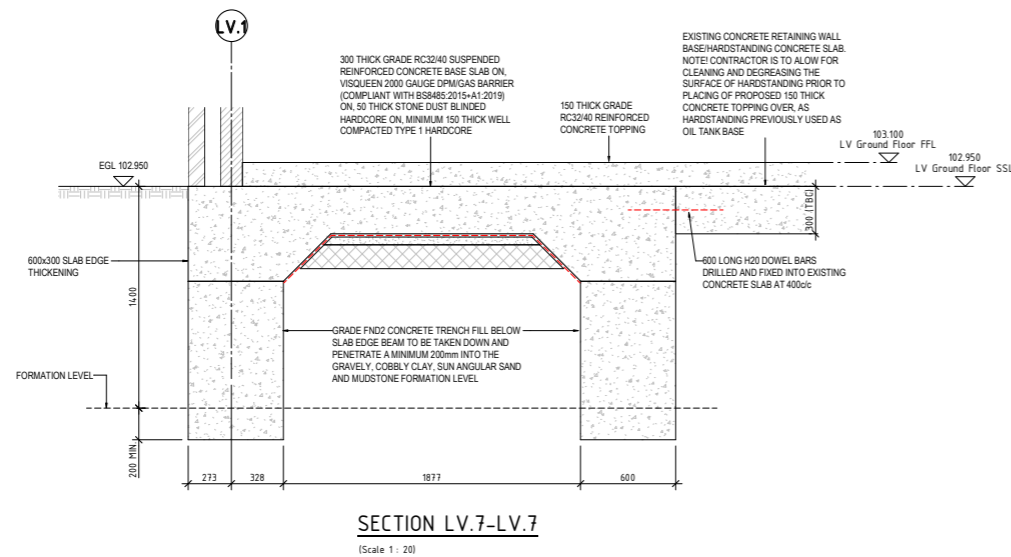
Full Size Drawings - RVW - Structural



NOTE!
SETTING OUT, LEVELS AND THICKNESSES OF EXISTING CONCRETE RETAINING WALL BASE AND HARDSTANDING ARE UNKNOWN DUE TO LACK OF SURVEY DATA. DETAILS ARE TO BE CONFIRMED AND REPORTED TO RVW PRIOR TO COMMENCEMENT OF CONSTRUCTION ISSUE DETAILING.



FOR ALL SUBSTRUCTURE NOTES REFER TO DRAWING MHP2-RVW-LV-ZZ-DR-S-00420



P01	12.11.21	STAGE 4 ISSUE.	DPH	JF
Rev.	Date	Details	By	Chk.

AMENDMENTS

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CARDIFF CF24 5PJ

Project: **MORRISTON GENERAL HOSPITAL PHASE 2**

Title: **LV BUILDING SUBSTRUCTURE SECTIONS & DETAILS**

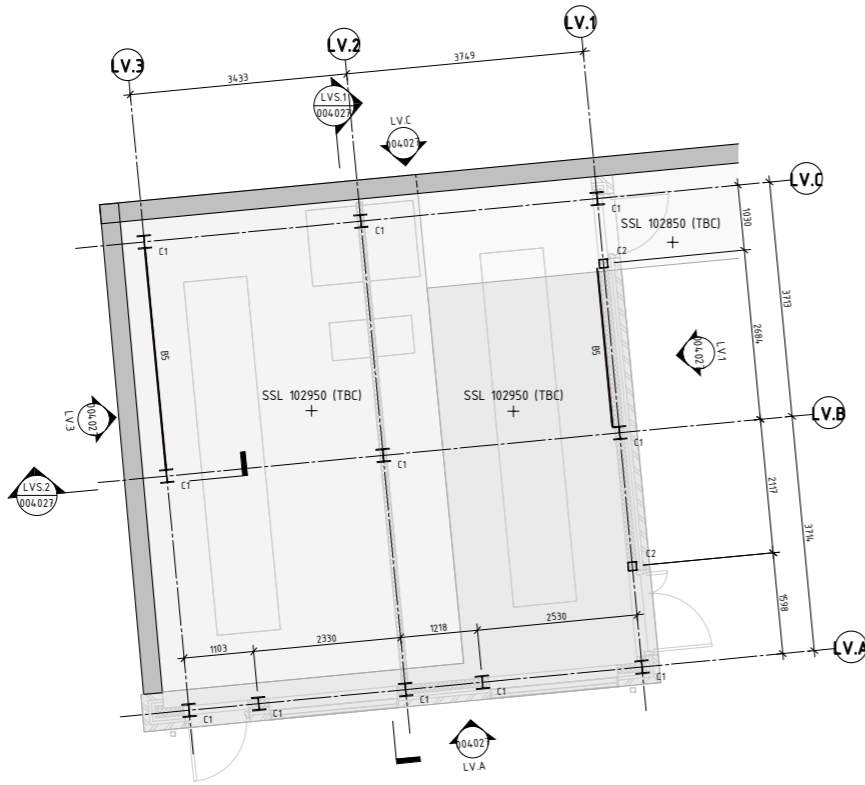
Drawn: JF | Checked: JF | Scale(s) at A1: 1:20

Date: NOV. 2021 | RVW Job N°: C6986 | Revision: P01 | Suitability: D1

Drawing Status: **STAGE 4 INFORMATION**

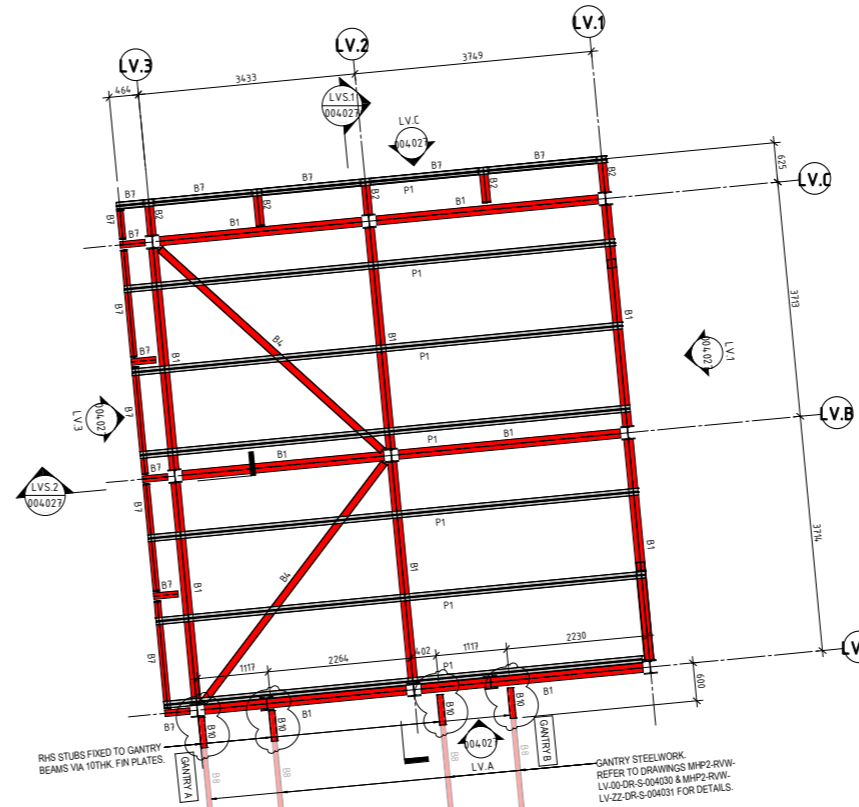
Drawing N°: **MHP2-RVW-LV-ZZ-DR-S-004021**

Full Size Drawings - RVW - Structural



PLAN ON STEELWORK AT GROUND FLOOR LEVEL

(Scale 1 : 50)



PLAN ON ROOF STEELWORK

(Scale 1 : 50)

SECONDARY STEELWORK
 PURLINS TO BE METSEC 172.223 PURLINS AT MAX. 1500c/c (SLEEVED SYSTEM).
 REQUIREMENTS FOR ANTI-SAG RODS, DIAGONAL TIES WIRES ETC. TO BE AS
 MANUFACTURER'S RECOMMENDATIONS.

STEEL COLUMNS KEY	
C1	203x203x60 UC
C2	140x140x6 SHS
C3	100x100x10 RSA
C4	219.1x12.5 CHS

STEEL BEAMS KEY	
B1	254x146x31 UB
B2	203x133x25 UB
B3	220x75x26 PFC
B4	114.3x5 CHS
B5	100x10 FLAT BRACING
B6	200x150x6 RHS
B7	178x102x19 UB
B8	180x75x20 PFC
B9	219.1x10 CHS
B10	200x100x10 RHS
P1	MetSec-172.223 PURLIN

SAFETY, HEALTH & ENVIRONMENT (SHE BOX) RESIDUAL HAZARDS

CONSTRUCTION PHASE:
 SPECIFIC RESIDUAL HAZARDS HAVE BEEN IDENTIFIED ON THIS DRAWING BY
 THE FOLLOWING SYMBOLS:

KEY: DETAILS OF RISK

EXISTING UNDERGROUND SERVICES.
 DEEP EXCAVATIONS.
 WORKING AT HEIGHT.

NOTES:

GENERAL

DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS ONLY.

ALL DIMENSIONS ARE IN MILLIMETRES. ALL LEVELS ARE IN METRES.

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE LATEST ARCHITECTS, ENGINEERS & SPECIALISTS DRAWINGS & SPECIFICATIONS.

STEELWORK

DESIGN RESPONSIBILITIES:

1. THE STRUCTURE HAS BEEN DESIGNED FOR THE FINAL CONFIGURATION ONLY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, FABRICATION, ERECTION AND REMOVAL OF ALL TEMPORARY WORKS AND SHALL PROVIDE ALL TEMPORARY BRACING & BACKCROPPING NECESSARY TO MAINTAIN STABILITY DURING CONSTRUCTION.
3. THE STEEL FABRICATOR SHALL BE RESPONSIBLE FOR THE STEELWORK FABRICATION DRAWINGS AS WELL AS DESIGN OF STEEL TO STEEL CONNECTIONS TO SUIT THEIR METHOD OF ERECTION.

STEELWORK FABRICATOR TO DESIGN & DETAIL ALL CONNECTIONS. LOADS TO BE PROVIDED BY THE ENGINEER. ALL CONNECTIONS TO BE CAPABLE OF RESISTING THE TYING FORCE REQUIRED BY BS. 5950.

PRIOR TO ANY FABRICATION:

- A) ALL CALCULATIONS & DETAILS TO BE APPROVED BY THE ENGINEER.
- B) FABRICATOR TO PRODUCE A FULL SET OF DETAILED DRAWINGS FOR COMMENT.

SPECIFICATION FOR STRUCTURAL STEELWORK TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE 'NATIONAL STRUCTURAL STEELWORK SPECIFICATION FOR BUILDING CONSTRUCTION' BY BSCA.

GALVANISING SPECIFICATION:

ALL HOT ROLLED STEEL - 85 MICRONS HOT DIP GALVANISED TO ENISO14715 EN ISO 1461 STANDARD CODE OF PRACTISE

ALL DAMAGED STEEL TO BE MADE GOOD TO ENGINEERS APPROVAL.

STEELWORK FABRICATOR TO BE SOLELY RESPONSIBLE FOR TEMPORARY WORK & THE ERECTION OF STRUCTURAL STEELWORK.

UNLESS OTHERWISE NOTED:

- A) ALL HOT ROLLED STEEL TO BE GRADE S355
- B) ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS.
- C) ALL BOLTS FOR HOT ROLLED SECTIONS TO BE GRADE 8.8.
- D) ALL BOLTS FOR COLD ROLLED SECTIONS TO BE GRADE 4.6.

IF ANY SPLICES ARE TO BE USED, THEIR LOCATION MUST BE APPROVED BY THE ENGINEER.

ALL COLD FORMED SECTIONS, ROOF PURLINS, SIDE RAILS & TRIMMERS, INCLUDING TRIMMERS TO BE DETAILED TO MANUFACTURERS SPECIFICATION.

ALL WALL RESTRAINING MEMBERS TO HAVE SLOTTED CONNECTIONS & COUNTERSUNK BOLT FIXINGS.

ALL STEELWORK ENCLOSED IN CONCRETE TO RECEIVE ONE COAT OF BITUMINOUS PAINT TO TOP OF BLOCKWORK UP TO DPC

FOR LOCATION OF ALL ROOF & SIDE MOUNTED PLANT REFER TO M&E DRAWINGS.

Rev.	Date	Details	By	Chk.
P03	01.02.22	STAGE 4 ISSUE: RHS STUBS (REF B10) ADDED FOR CONNECTION OF GANTRY STEELWORK.	DPH	JF
P02	08.12.21	STAGE 4 ISSUE: SETTING OUT OF GANTRY B STEELWORK REVISED.	DPH	JF
P01	12.11.21	STAGE 4 ISSUE.	DPH	JF

AMENDMENTS

6 NEPTUNE COURT
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Project:
MORRISTON GENERAL HOSPITAL PHASE 2

Title:
LV BUILDING - STEELWORK PLANS

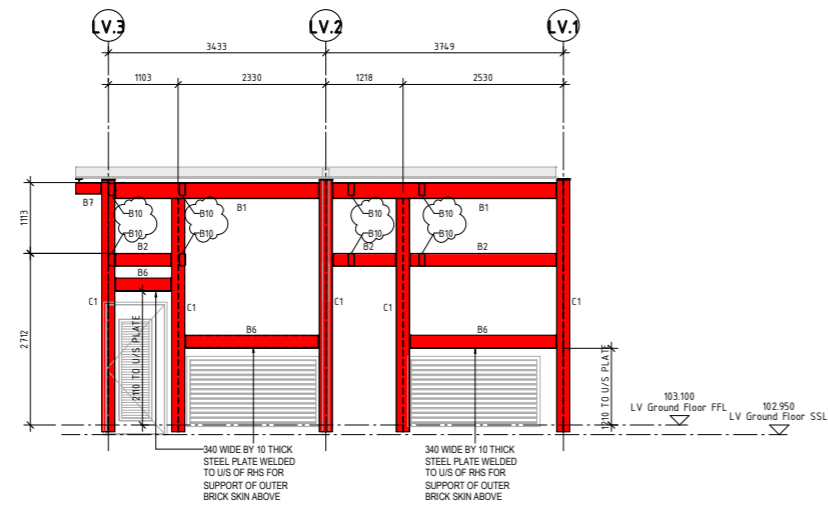
Drawn: DPH
 Checked: JF
 Date: NOV. 2021
 Drawing Status: **STAGE 4 INFORMATION**

Scale(s) at A1:
 As indicated

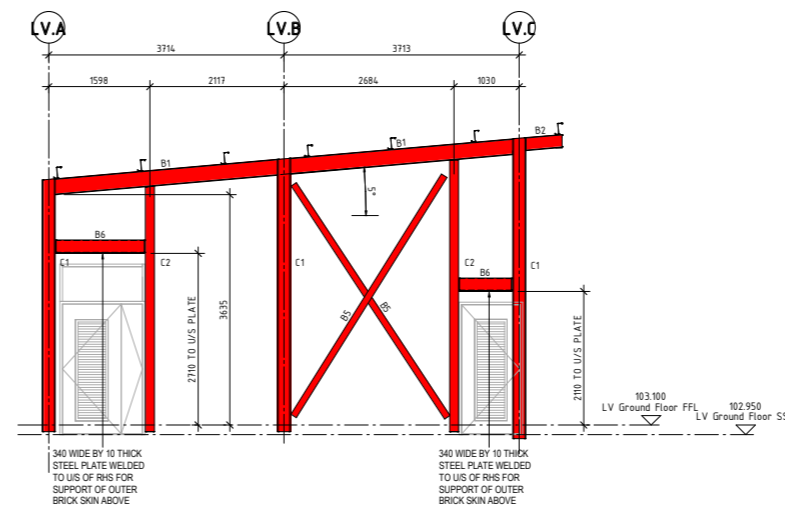
RWV Job N°: **C6986**
 Revision: **P03**
 Suitability: **D1**

Drawing N°: **MHP2-RVW-LV-ZZ-DR-S-004026**

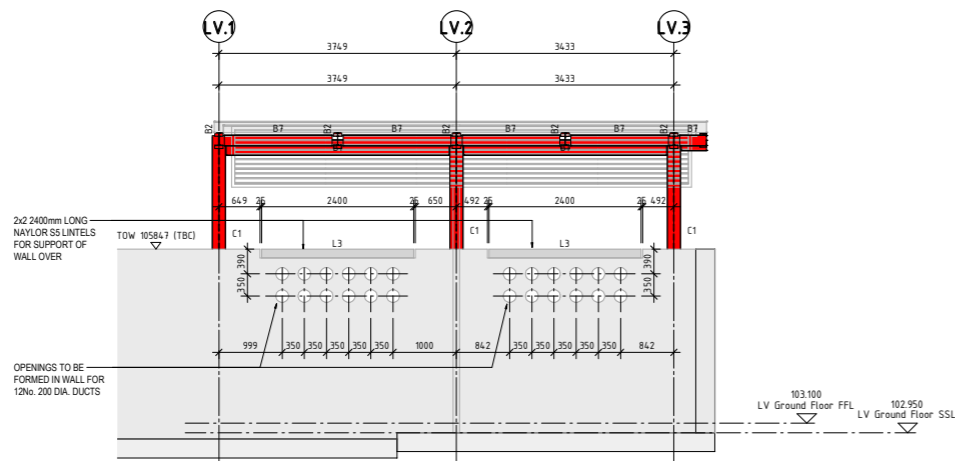
Full Size Drawings - RVW - Structural



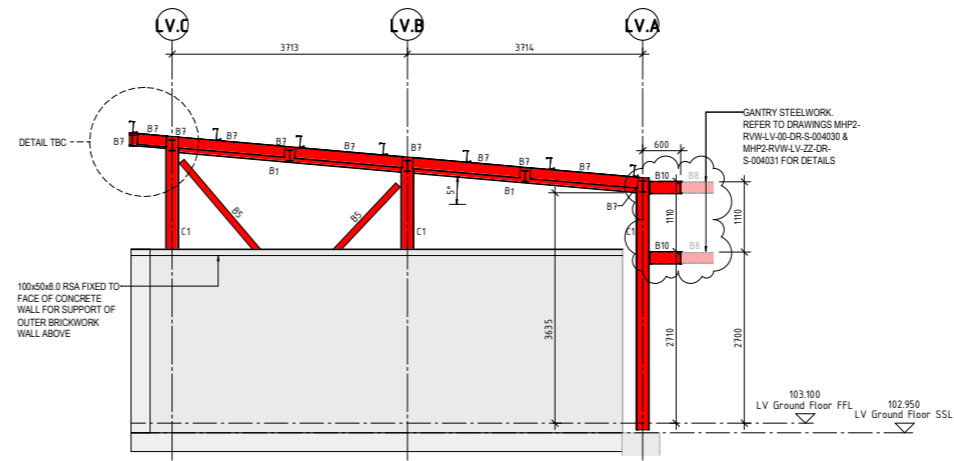
ELEVATION ON GRIDLINE LV.A
(Scale 1 : 50)



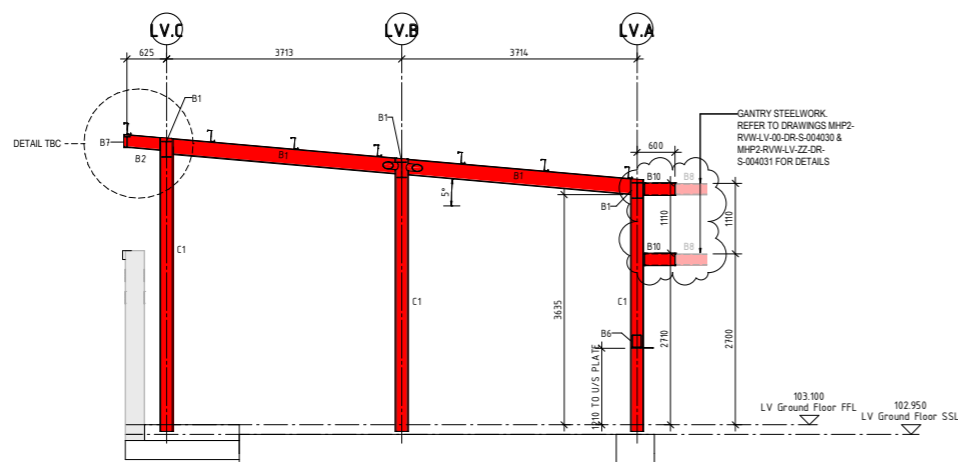
ELEVATION ON GRIDLINE LV.B
(Scale 1 : 50)



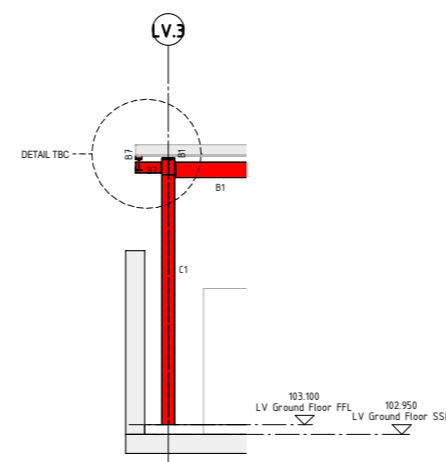
ELEVATION ON GRIDLINE LV.C
(Scale 1 : 50)



ELEVATION ON GRIDLINE LV.3
(Scale 1 : 50)



SECTION LVS.1-LVS.1
(Scale 1 : 50)



SECTION LVS.2-LVS.2
(Scale 1 : 50)

FOR ALL STEELWORK NOTES REFER TO DRAWING MHP2-RVW-LV-ZZ-DR-S-004026

STEEL COLUMNS KEY	
C1	203x203x60 UC
C2	140x140x8 SHS
C3	100x100x10 RSA
C4	219.1x12.5 CHS

STEEL BEAMS KEY	
B1	254x146x31 UB
B2	203x133x25 UB
B3	230x75x26 PFC
B4	114.3x5 CHS
B5	100x10 FLAT BRACING
B6	200x150x8 RHS
B7	178x102x19 UB
B8	180x75x20 PFC
B9	219.1x10 CHS
B10	200x100x10 RHS
P1	Metsec-172 Z33 PURLIN

PC LINTELS KEY	
L1	Naylor R8 Lintel
L2	Naylor R9 Lintel
L3	Naylor S5 Lintel

Rev.	Date	Details	By	Chk.
P04	01.02.22	STAGE 4 ISSUE: RHS STUBS (REF B10) ADDED FOR CONNECTION OF GANTRY STEELWORK.	DPH	JF
P03	13.12.21	STAGE 4 ISSUE: ROOF STEELWORK AND GANTRIES TOP PFC SUPPORT RAILS LOWERED BY 190mm.	DPH	JF
P02	08.12.21	STAGE 4 ISSUE: ROOF STEELWORK RAISED FOLLOWING REDESIGN OF GANTRY STEELWORK.	DPH	JF
P01	12.11.21	STAGE 4 ISSUE.	DPH	JF

AMENDMENTS

6 NEPTUNE COURT
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Project:
MORRISTON GENERAL HOSPITAL PHASE 2

Title:
LV BUILDING STEELWORK SECTIONS & ELEVATIONS

Drawn: DPH
Checked: JF
Scale(s) at A1: 1 : 50

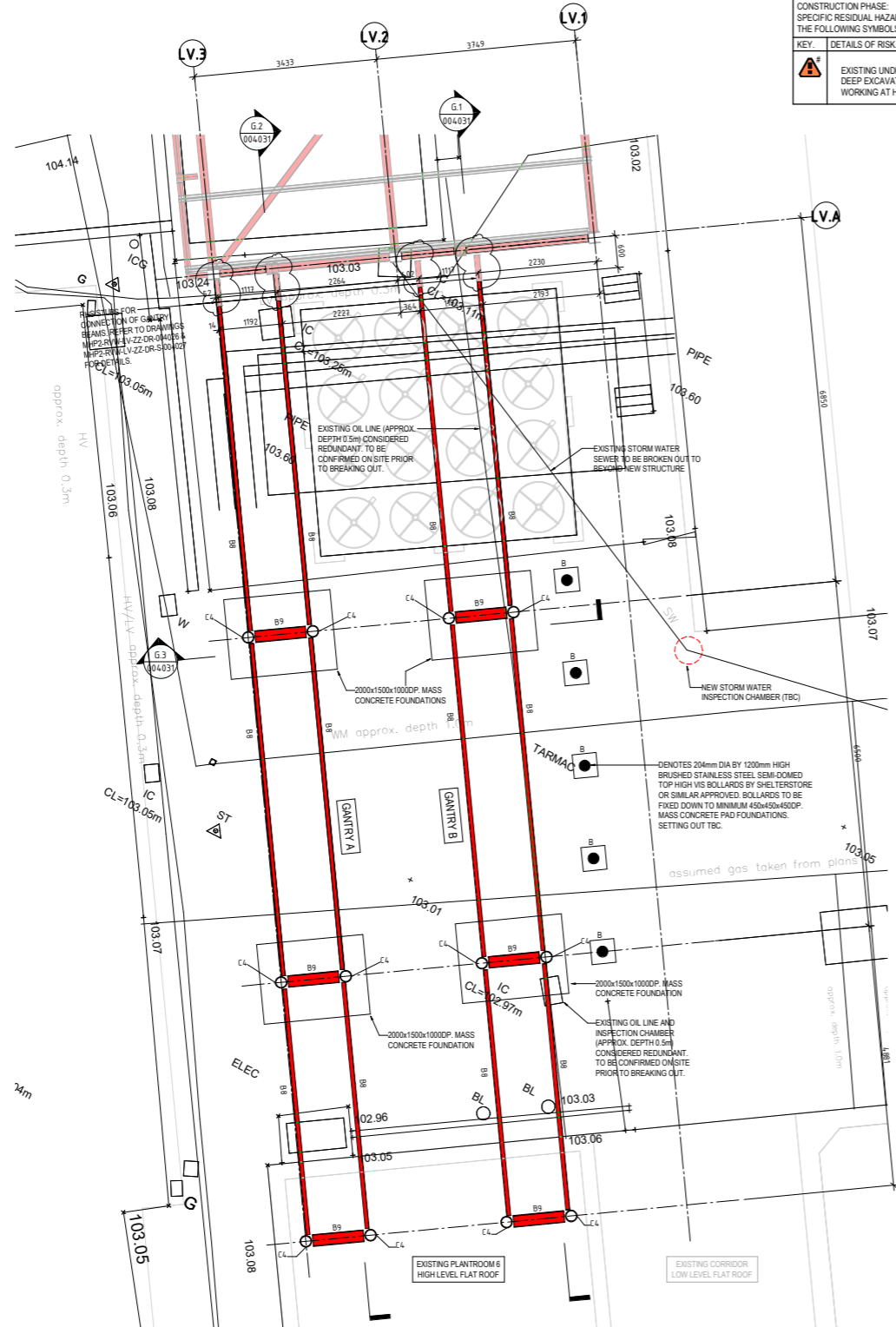
Date: OCT. 2021
RVW Job N°: C6986
Revision: P04
Suitability: D1

Drawing Status:
STAGE 4 INFORMATION

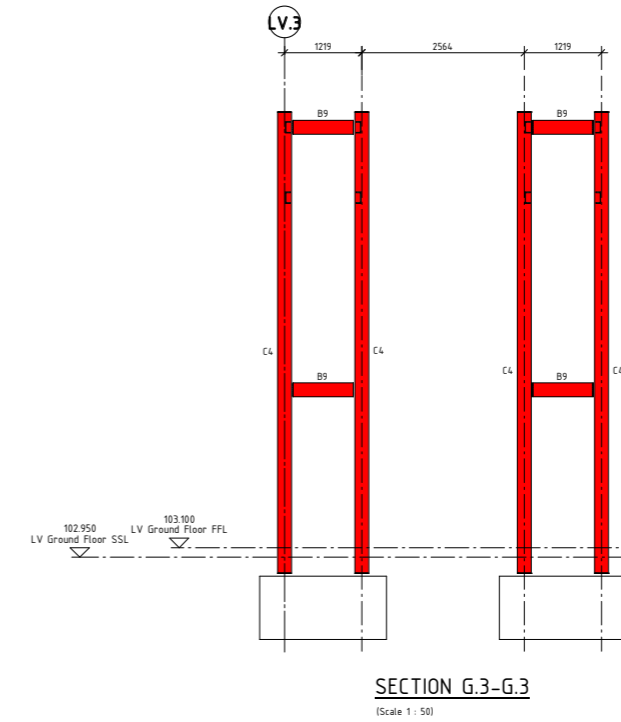
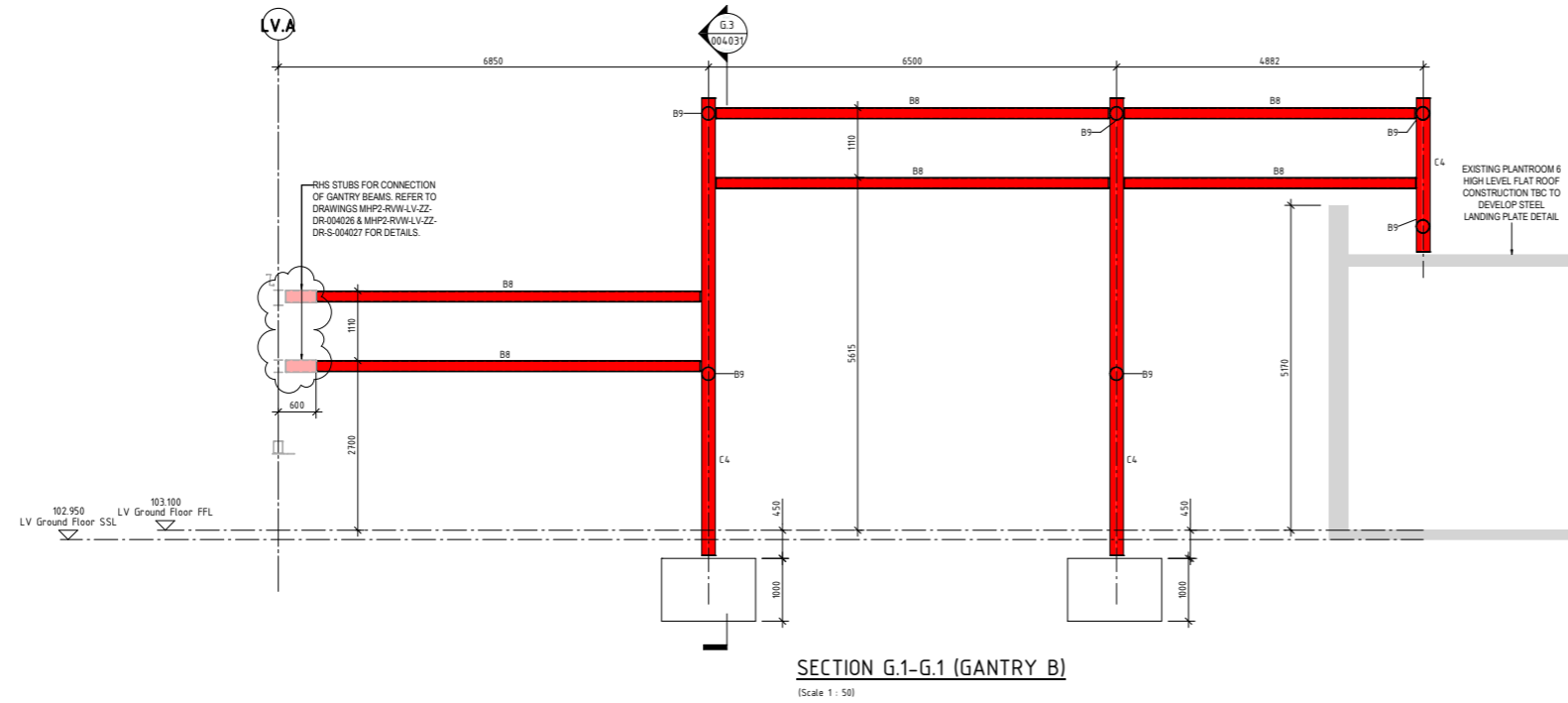
Drawing N°:
MHP2-RVW-LV-ZZ-DR-S-004027

Full Size Drawings - RVW - Structural

SAFETY, HEALTH & ENVIRONMENT (SHE BOX) RESIDUAL HAZARDS	
CONSTRUCTION PHASE SPECIFIC RESIDUAL HAZARDS HAVE BEEN IDENTIFIED ON THIS DRAWING BY THE FOLLOWING SYMBOLS:	
KEY	DETAILS OF RISK
	EXISTING UNDERGROUND SERVICES, DEEP EXCAVATIONS, WORKING AT HEIGHT.



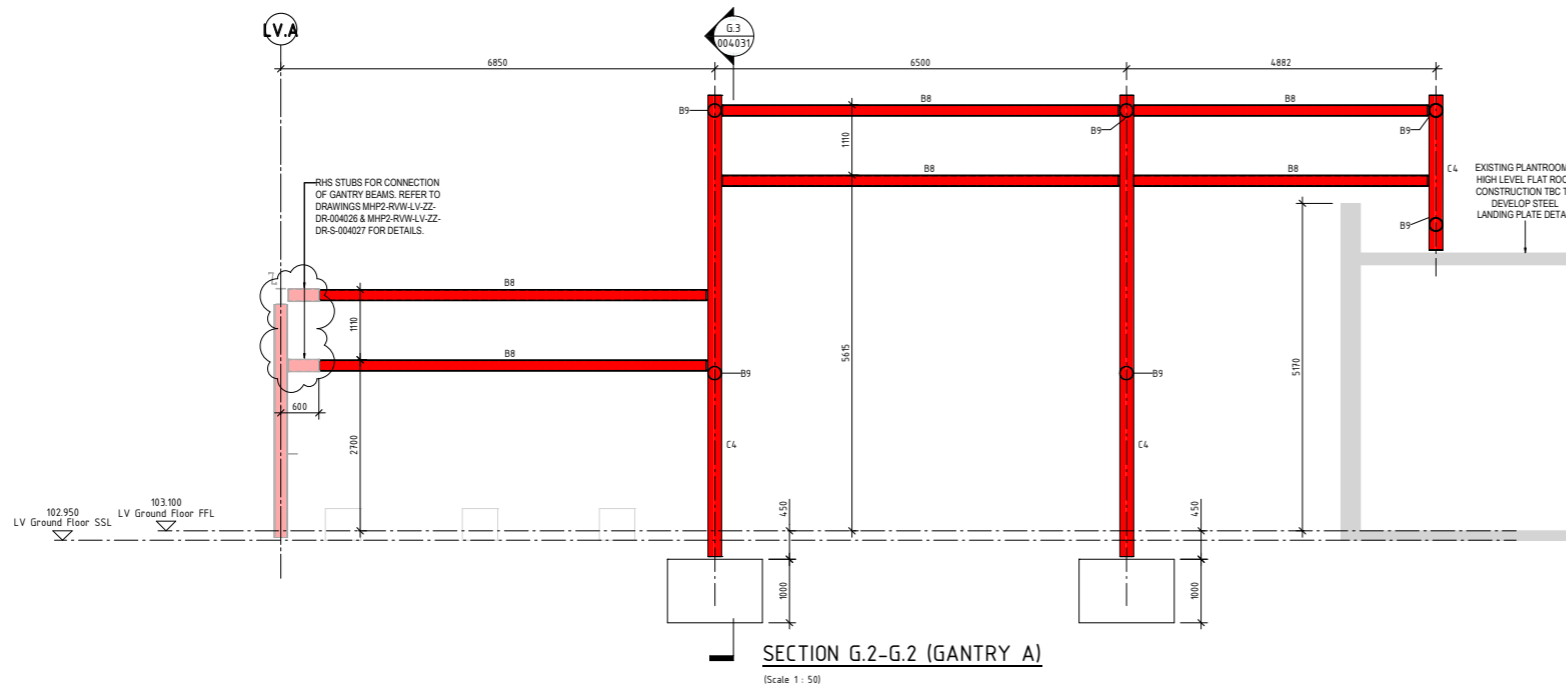
Full Size Drawings - RVW - Structural



FOR ALL STEELWORK NOTES REFER TO DRAWING MHP2-RVW-LV-ZZ-DR-S-004030

STEEL COLUMNS KEY	
C1	203x203x60 UC
C2	140x140x8 SHS
C3	100x100x10 RSA
C4	219.1x12.5 CHS

STEEL BEAMS KEY	
B1	254x146x31 UB
B2	203x133x25 UB
B3	230x75x26 PFC
B4	114.3x5 CHS
B5	100x10 FLAT BRACING
B6	200x150x8 RHS
B7	178x102x19 UB
B8	180x75x20 PFC
B9	219.1x10 CHS
B10	200x100x10 RHS
P1	Metsec-172.223 PURLIN



Rev.	Date	Details	By	Chk.
P04	01.02.22	STAGE 4 ISSUE: RHS STUBS ADDED FOR CONNECTION OF GANTRY STEELWORK.	DPH	JF
P03	13.12.21	STAGE 4 ISSUE: GANTRIES TOP PFC SUPPORT RAILS LOWERED BY 150mm.	DPH	JF
P02	08.12.21	STAGE 4 ISSUE: GANTRY B RELOCATED AND REDUCED TO TWO LEVELS. STEEL BEAMS BETWEEN MAIN GANTRY BEAMS REMOVED. WIDTH OF BOTH GANTRIES INCREASED. HEIGHT OF STEELWORK LEVELS FOR BOTH GANTRIES REVISED.	DPH	JF
P01	12.11.21	STAGE 4 ISSUE.	DPH	JF

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Project:
MORRISTON GENERAL HOSPITAL PHASE 2

Title:
GANTRIES STEELWORK SECTIONS

Drawn: DPH
Checked: JF
Scale(s) at A1: 1 : 50

Date: NOV. 2021
RVW Job N°: C6986
Revision: P04
Suitability: D1

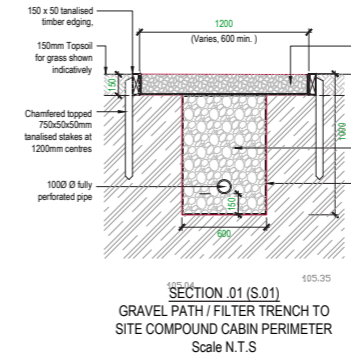
Drawing Status:
STAGE 4 INFORMATION

Drawing N°:
MHP2-RVW-LV-ZZ-DR-S-004031

Full Size Drawings - RVW - Structural

Storm Water run-off destination - Standard S1 Sustainable Drainage Systems Standards for Wales.

- Level 1 - Collected for re-use; - No foreseeable demand - see level 2
- Level 2 - Discharge to ground; - Ground appears saturated, infiltration not appropriate - see level 3
- Level 3 - Discharge to surface water body; - No surface water bodies available - see level 4
- Level 4 - Discharge to a surface water or highway drain; - a 150dia. surface water drain has been located on the hospital site - proposal is to discharge to surface water drain, connection subject to approval.
- Level 5 - Discharge to a combined sewer; - Not required see level 4



DESIGN EVALUATION NOTES

- Construction Site Area 0.51Ha. Development site area =0.08Ha
- Assumed little potential for discharge via infiltration - ground saturated
- Surface water to be directed to Highway Drain in accordance with hierarchy of Standard S1 Sustainable Drainage Systems Standards for Wales.
- Surface water discharge to mimic Greenfield Run-off Rates in accordance with Standard S2 - Sustainable Drainage Systems Standards for Wales.
- Drainage system to prevent first 5mm of rainfall from leaving the site for majority of rainfall events (interception)
- Greenfield run-off rates calculated as;
 - QBAR - 0.65l/s
 - Q1 - 0.57l/s
 - Q30 - 1.15l/s
 - Q100 - 1.41l/s
- Flows to be limited to 2l/s to minimise blockage risk Attenuation storage requirements;

Design flow - 2l/s from site.

Design assumptions as below

- Total Site area - 0.457Ha - Permanent 0.145Ha
- Climate change allowance 30%
- Urban Creep allowance 1.1
- Interception rainfall depth 5mm

Rev.	Date	Details	By	Chk.
C03	04.07.22	Annotation amended.	AJH	ABP
C02	24.12.21	Attenuation tank added to swale, levels & notes amended to suit.	AJH	ABP
C01	21.12.21	Construction Issue - detention basin & annotation amended, boundary lines updated to suit.	AJH	ABP
P7	19.12.21	Architectural layout, drainage runs & boundary lines updated.	AJH	ABP
P6	12.11.21	SAB drainage outfall position revised to enable road crossing point to coincide with other services. Drawing number revised to allow S6.	KJW	ABP
P5	12.10.21	Revised to suit new substation layout.	KJW	ABP
P4	05.10.21	Layout revised following new topo survey and co-ordinate information. SAB drainage outfall position revised to connect to existing SW drain.	KJW	ABP
P3	12.08.21	HRA access and mobile crane handstanding area with slot drain added. Perimeter filter drain revised to suit.	KJW	ABP
P2	20.05.21	Drawing Title and number revised in accordance with Contractor's comments. Note added - no positive drainage requirement storage area	DRW	JF

DRAINAGE LEGEND

- Proposed storm drain
- Proposed storm manhole
- Proposed Catchpit /Sump Chamber
- Proposed Detention Basin/Pond
- Proposed Swale & attenuation tank

Refer to Drawing Number
MHP2-RVW-S6-00-DR-C-000002
For Typical Construction Details

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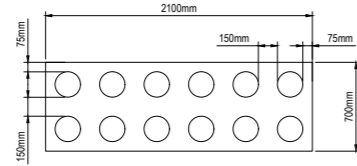
Project:
MORRISTON GENERAL HOSPITAL - PHASE 2

Title:
SAB Application External Arrangements

Drawn: DRW	Checked: ABP	Scale(s) at A3: 1:500
Date: 08.05.21	RVW Job No: C6986	Revision: C03
Drawing Status: CONSTRUCTION	Suitability: A1	

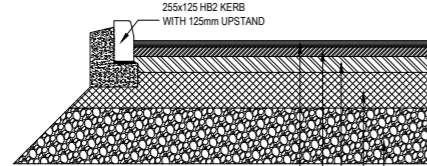
Drawing No:
MHP2-RVW-S6-00-DR-C-000001

Full Size Drawings - RVW - Structural



DETAIL SHOWING DUCT ARRANGEMENT
SCALE 1:25

Proprietary plastic spacers to be used to support the ducts and whole assembly to be surrounded by steel reinforcement bars to form cage.

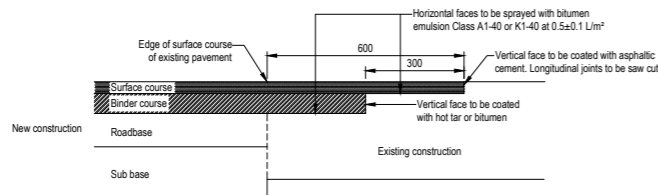


45mm HRA 35/14 F SURF 40/60 Hstone PSV65 to BS EN13108
 BINDER
 60mm AC 20 Dense Bin 100/150 to BS EN13108
 BASE
 100mm AC 32 Dense Base 100/150 to BS EN13108
 SUB-BASE
 Granular sub-base Type 1 to Clause 803 SHW
 (depth dependant on CBR value refer to table 1 below)
 CAPPING LAYER
 Capping layer to Clause 613 SHW
 (depth dependant on CBR value refer to table 1 below)

FULL ROAD CONSTRUCTION

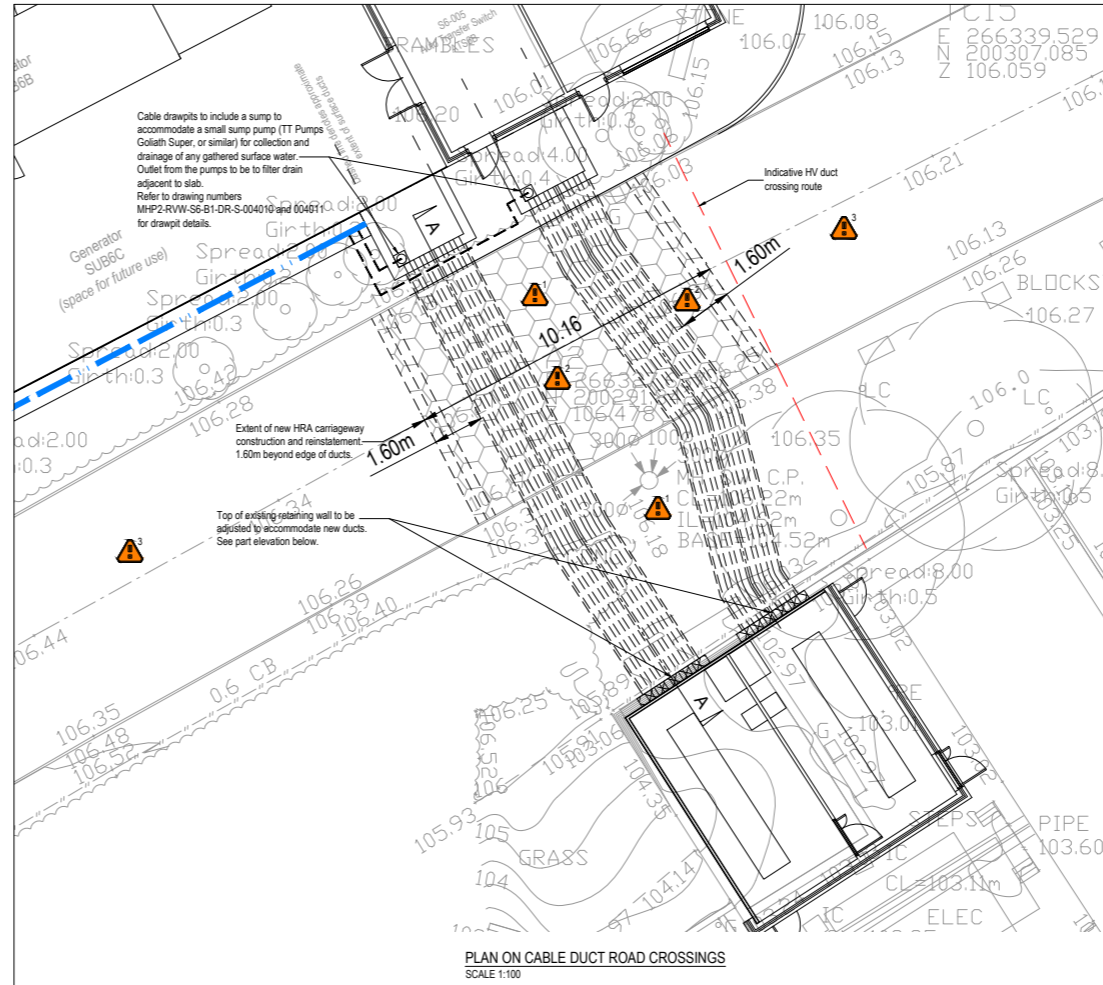
LAYER	CBR VALUE		
	Below 2%	2% - 5%	>5%
Sub-base	150mm	150mm	300mm
Capping layer*	600mm	350mm	0mm

*Capping layer Material to be min. Class BF1 or BF2 as specified in Table 6/1 SHW

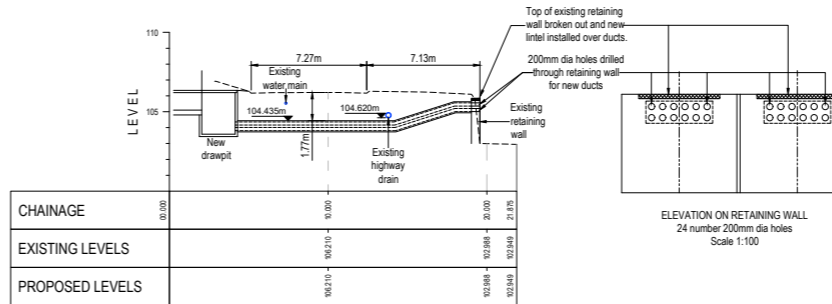


NOTE:
Any remaining existing pavement construction cut back to sound vertical face to form new formation level

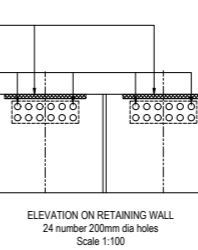
CARRIAGEWAY TIE-IN DETAIL



PLAN ON CABLE DUCT ROAD CROSSINGS
SCALE 1:100



SECTION A-A
SCALE 1:200



ELEVATION ON RETAINING WALL
24 number 200mm dia holes
Scale 1:100

SAFETY, HEALTH & ENVIRONMENT (SHE BOX) RESIDUAL HAZARDS	
CONSTRUCTION PHASE: SPECIFIC RESIDUAL HAZARDS HAVE BEEN IDENTIFIED ON THIS DRAWING BY THE FOLLOWING SYMBOLS:	
KEY:	DETAILS OF RISK:
	EXISTING SERVICES IN HIGHWAY AND VERGE.
	DEEP EXCAVATION IN CARRIAGEWAY FOR DUCT CROSSINGS.
	TRAFFIC MANAGEMENT FOR VEHICLE AND PEDESTRIAN SAFETY DURING EXCAVATION WORKS.

- NOTES
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT RVW CONSULTING LIMITED PROJECT DRAWINGS AND SPECIFICATIONS.
 2. DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS ONLY.
 3. THIS LAYOUT IS BASED ON THE TOPOGRAPHICAL SURVEY INFORMATION PROVIDED BY THE CLIENT.

Rev.	Date	Details	By	Chk.
P5	12.11.21	Cable duct crossings revised to suit new substation position. Chainage numbers revised to show lift.	KJW	ABP
P4	28.09.21	Cable duct crossing positions revised following latest Architects layout.	KJW	ABP
P3	06.08.21	Alternative option for crossing arrangement removed. Carriageway construction and level details added.	KJW	ABP
P2	19.05.21	Revised in accordance with Contractors comments.	KJW	ABP

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Project: **MORRISTON GENERAL HOSPITAL - PHASE 2**

Title: **Road Duct Crossings from Sub 6 to LV Switchroom**

Drawn: KJW
 Checked: DRW
 Scale(s) at A1: AS SHOWN

Date: 05.05.21
 RVW Job N°: C6986
 Revision: P5
 Subtitle: S2

Drawing Status: **STAGE 4 INFORMATION**

Drawing N°: **MHP2-RVW-S6-00-DR-C-000002**