

STORMWATER MANAGEMENT PLAN

TEYS AUSTRALIA PLATE FREEZER PROJECT – WAGGA WAGGA



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REVISION STATUS


MPN Reference No: 8962

Client: Teys Australia

Site Address: Dampier Street, Wagga Wagga

Report Title: Stormwater Management Plan

DOCUMENT CONTROL

Version	Date	Author	Reviewer	Approved
Draft	15/11/2021	Peter Derrington	Matthew Hendle	
Issue A	22/11/2021	Peter Derrington	Matthew Hendle	

EXECUTIVE SUMMARY

This report has been commissioned by Teys Australia for the Development Application for the proposed plate freezer project at Dampier Street, Wagga Wagga.

This report addresses the following Engineering aspects of the proposed development:

- Topography
- Flooding
- Stormwater quality management
- Stormwater quantity management
- Erosion and sediment control.

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1 PURPOSE

This Stormwater Management Plan has been prepared to support the Development Application for the proposed plate freezer project located at Dampier Street, Wagga Wagga.

2 INTRODUCTION

2.1 Project Description

The current proposal includes the conversion of the existing blast freezer into a new auto blast freezer, switchroom/temporary workshop and sub-station engineering room along with a diversion of the entry road off Jersey Street at the north-east of the site and a landscaped covenant area.

The site access will be from Jersey Street to the east and west of the site as per the existing condition with the eastern entry diverted to accommodate the development.

The proposed development is depicted on the architectural plans prepared by Wiley attached in Appendix 1, with excerpt below.

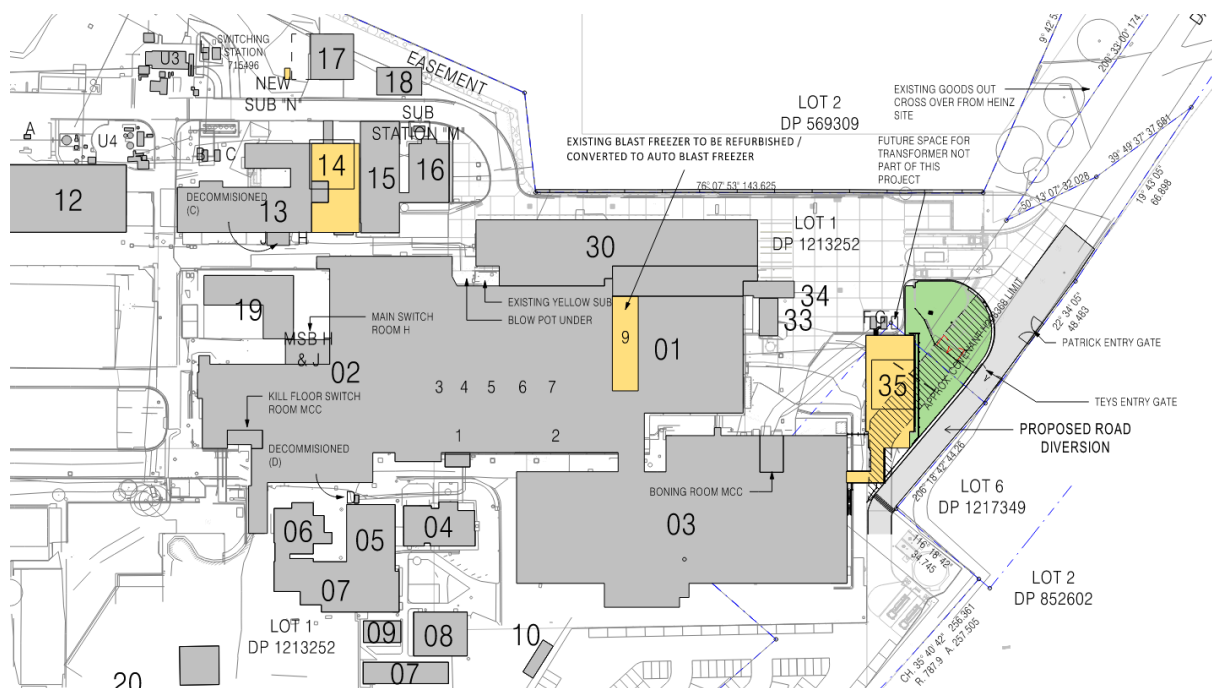


Figure 1 – Proposed Development

3 SITE CHARACTERISTICS

3.1 Site Location

The site is located at Dampier Street, Wagga Wagga on land described as Lot 1 on DP 1213252.

The site is bounded by Jersey Street to the east, the Heinz Watties Wagga Wagga plant to the north, industrial and rural residential allotments to the west and Byrnes Road to the south.



Figure 2 – Site Location

3.2 Topography and Existing Site Drainage

The existing land within the extent of works envelope is fully developed with the Teys Australia Wagga Wagga production and food manufacturing plants. The site mainly consists of hardstand and buildings with some landscaped areas and bare soil.

The site is generally flat with gentle fall from the south-west to the north-east.

The site has a fully constructed stormwater management network comprising pits and pipes and multiple dams located towards the western side of the property.

A copy of the site survey prepared by Michael Slinger & Associates Pty Ltd is attached in Appendix 2.

4 SITE DATA

Site data has been obtained from the following sources of information:

- As constructed plans
- Australian Rainfall and Runoff
- Bureau of Meteorology (BOM)
- Dial Before You Dig (DBYD)
- Discussions with relevant authorities
- New South Wales Environmental Protection Authority (EPA)
- Relevant reports
- Satellite imagery
- Site inspection
- Survey plans
- City of Wagga Wagga.

5 STORMWATER

5.1 Flooding

Based on a review of the Wagga Wagga flooding map, the site is not subject to flooding from any sources.

5.2 Site Based Stormwater Management Plan

The aim of the Stormwater Management Plan outlined below is to:

- Prevent or minimise adverse social or environmental impacts from stormwater runoff originating from the proposed development.
- Achieve acceptable levels of stormwater runoff quality and quantity.

The Stormwater Management Plan aims to identify Stormwater Quantity and Quality Best Management Practice for the site and demonstrate that water quantity and quality impacts will be minimised in receiving waters.

The Stormwater Management Plan outlines the site in two sections, the operational phase and the construction phase. The operational phase addresses treatment of contaminated runoff from the developed site by natural methods before discharging into receiving waters whilst the construction phase of the Stormwater Management Plan addresses erosion and sediment control to prevent contamination of water sources by stormwater runoff during construction of the site.

5.3 Operational Phase

5.3.1 Proposed Site Drainage

Roofwater from the proposed buildings and stormwater runoff will be connected to the existing internal underground stormwater network within the site.

The proposed site stormwater infrastructure is shown on MPN Plans 8719-DA.01 attached in Appendix 3.

5.3.2 Stormwater Quantity Management Strategy

The proposed development involves the construction of new buildings and realignment of the access roadway; however, the site is already fully developed and there will be a negligible increase in impervious area as a result of the development. Therefore, there will be no material increase in stormwater runoff from the site and on-site detention is not proposed to be constructed as part of the development.

5.3.3 Stormwater Quality Management Strategy

Following the development works, the total roof area will increase while the hardstand area (which comparatively contributes more pollutants per unit area) will decrease. On this basis the development will not adversely affect stormwater runoff quality from the site and on-site treatment devices are not proposed to be constructed as part of the development.

5.3.4 Construction Phase (Sediment and Erosion Control)

5.3.4.1 Intent of Erosion and Sediment Control Management Plan

To prevent stormwater contamination (of watercourses) and the release of contaminated stormwater and wastewater by ensuring compliance with all relevant environmental legislation and guidelines.

5.3.4.2 Implementation Strategy

Establish control measures and best practice approaches to prevent stormwater contamination and minimise the risk and adverse effects of erosion and sedimentation. All Erosion and Sediment Control measures must be designed, constructed and maintained in a manner that is commensurate with the site's erosion risk.

5.3.4.3 Erosion and Sediment Control Measures

- Obtain a license or approval to operate activities that are classed as environmental relevant activities (i.e. they have the potential to cause environmental harm).
- Implement and maintain appropriate control measures to prevent sediment laden wastewater and other potential pollutants such as oil, paint and wet concrete from entering the stormwater system via stormwater drains and gullies. The control measures which must be considered to be adopted are:
 - Limitation of site access during construction to minimise disruption to traffic. Install a temporary construction entry/ exit sediment trap at all site accesses to minimise mud and sediment from the site being tracked onto public road, particularly during wet weather or when the site is muddy.
 - Install and maintain appropriate sediment fences around construction areas.
 - Divert clean stormwater runoff, using catch drains, around construction areas to existing or new stormwater drainage system.
 - Install sandbags and other pollution containment devices around stormwater drains and any other locations where required to prevent sediment entering the trunk stormwater system.
 - Cover open earth/ soil areas progressively (with concrete slabs and pavements or mulch) to minimise areas of bare earth/ soil.
 - Any stockpiles of excavated soil and demolition/ construction waste must be located where risk of erosion and sedimentation is minimal, and must be protected from wind and water erosion.
 - Implement and maintain appropriate control measures such as catch drains and sediment fences to prevent ponding of stormwater or discharge of stormwater from the site to adjacent properties.
 - Provision of spill/ pollution control equipment that is readily accessible to clean up spills and leaks.

- Ensure spill/ pollution control measures are available and maintained in working condition.
- Sediment contained by the sediment control devices such as sandbags, sediment fences and containment bunds must be frequently removed and placed in a controlled area.
- Implement an inspection schedule for any spill or leaks of any potential polluting areas or activities.

5.3.4.4 Erosion and Sediment Control Management Goals

- Licenses, approvals, permits and inspection reports are in order.
- Sediment or pollution control devices such as sandbags, sediment fences and containment bunds are in place, maintained and effective.
- Spill/ pollution control equipment is readily accessible at designated locations.
- No accumulated sediment is contained by the sediment control devices such as hay bales, sediment fences and containment bunds.
- No sediment exceeding a depth of 300mm in the pollution control devices (e.g. silt trap).

5.3.4.5 Erosion and Sediment Control Implementation Program

- Licenses, permits or approvals for each environmentally relevant activity must be obtained prior to the commencement of the particular activity.
- Appropriate control measures such as sediment fences, temporary construction entry/ exit sediment traps, pollution containment devices (e.g. sandbags), stormwater diversion and administrative controls must be installed and established prior to commencement of the earthworks and construction activities.
- Pollution control devices such as spill control equipment must be inspected on a regular basis (at least weekly).
- Other sediment and pollution control equipment such as containment bunds, hay bales and sediment fences must be inspected on a regular basis (at least daily).
- Inspection for any leaks, spills or potential contaminating activity must be performed on a regular basis (at least daily).
- Remove accumulated sediment or other contaminants from sediment/ pollution control devices on a regular basis.
- All erosion and sediment control measures must be inspected within 24 hours of expected rain and within 18 hours of a rainfall event.

5.3.4.6 Responsible Person or Organisation

The contractor shall be responsible for the implementation and maintenance of the Erosion and Sediment Control Measures.

5.3.4.7 Reporting/ Review

Records such as licenses, approvals, permits and inspection reports must be reviewed on a regular basis (e.g. at least monthly) to ensure that legal compliance is met, complaints are reviewed and systems are working to prevent contamination.

5.3.4.8 Corrective Actions

- Perform clean-up of any spills immediately.
- Any mud or sediment which is tracked onto public roads is to be immediately removed using dry clean-up methods (i.e. shovel and broom).
- Remove or relocate any stockpiles of waste where there is a reasonable risk of erosion and sedimentation.
- Replace or repair sediment or pollution control devices if they are not maintained in good working condition.

6 CONCLUSION

This Stormwater Management Plan demonstrates that under the proposed concept plan, stormwater quality and quantity treatment is achievable to the levels required by the City of Wagga Wagga and Industry Best Management Practice.

The site is not impacted by flooding from any sources.

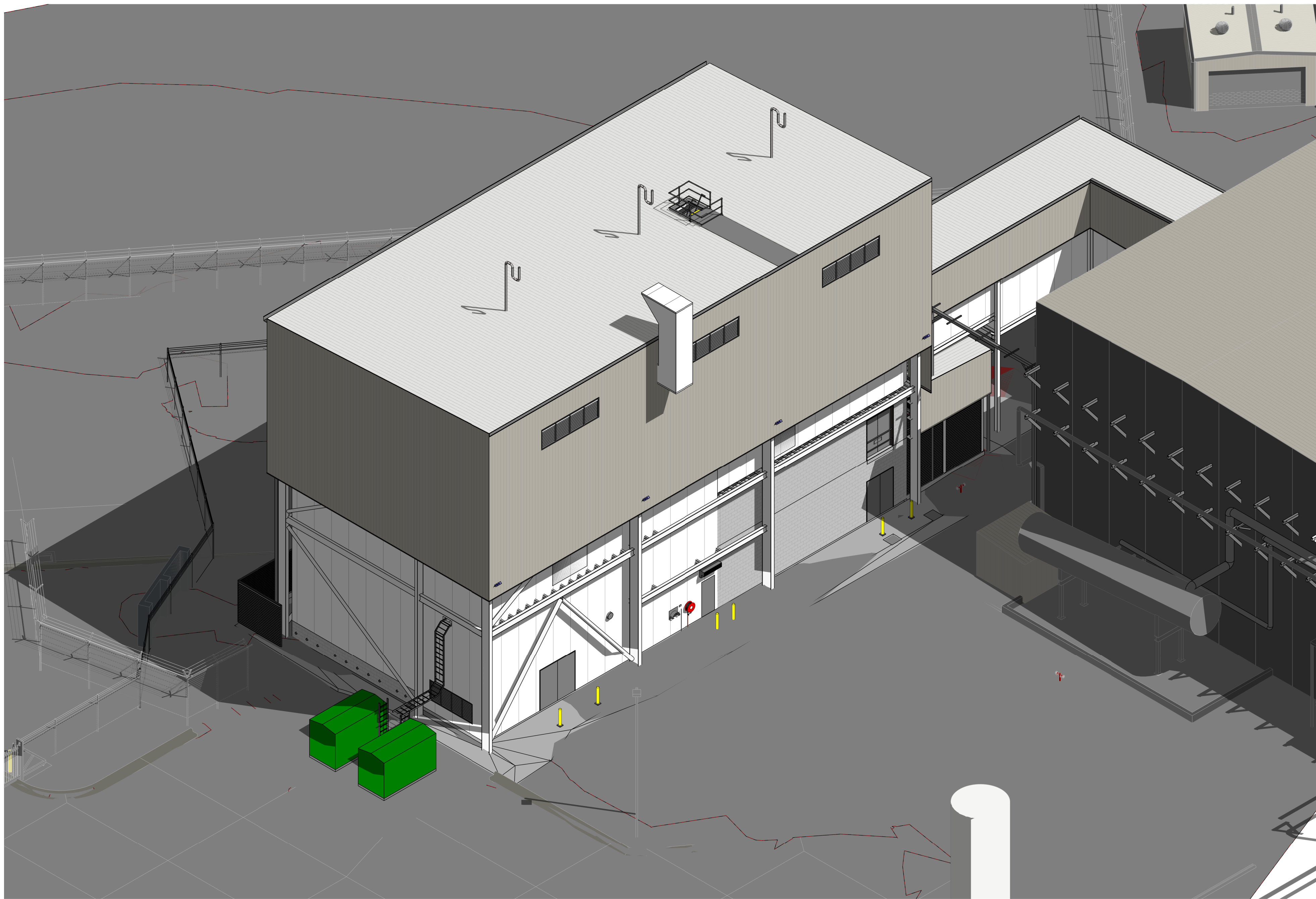
The site is already fully developed and there will be a negligible increase in impervious area as a result of the development. On this basis, there will be no material increase in stormwater runoff from the site and on-site detention or treatment devices are not proposed to be constructed as part of the development.

7 LIMITATIONS OF REPORT

MPN have prepared this report for the proposed plate freezer project in accordance with MPN's proposal to Teys Australia. This report is provided for the exclusive use of Teys Australia for this specific project and its requirements. It should not be used or relied upon by a third party and MPN accept no responsibility for the use of this report by any party other than Teys Australia.

**Appendix 1
Architectural Plans**

TEYS AUSTRALIA
ABATTOIR PLATE FREEZER
DAMPIER ST, WAGGA WAGGA, NSW



DRAWING NUMBER LEGEND

01

A

1

01

-1

BUILDING No.

DRAWING DISCIPLINE

DRAWING SERIES

DRAWING No.

REVISION/ISSUE

BUILDING No.

00 SITE DRAWINGS

01 BUILDING No. 01 drawings

DRAWING DISCIPLINE

A ARCHITECTURAL

C CIVIL

E ELECTRICAL

F FIRE

H HYDRAULICS

K ARCHITECTURAL SKETCH

M MECHANICAL

P PROCESS SKETCH

R REFRIGERATION

S STRUCTURAL

X EXISTING

D DEMOLITION

DRAWING SERIES

000 SITE & SITWORKS

100 PLANS

200 ELEVATIONS

300 SECTIONS

400 PART SECTIONS

500 CONSTRUCTION DETAILS

600 TRADE SPECIFIC

700 DETAILED AREAS

800 SPARE

900 SCHEDULES

DRAWING ISSUE / REVISION

1, 2, 3....

DRAWING ISSUE / REVISION

ORIGINAL IN COLOUR

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05/11/21	10	3D VIEW UPDATED	AJ
19/10/21	9	FOR CLIENT REVIEW	AJ
06/10/21	8	FOR CLIENT REVIEW	AJ
05/10/21	7	ISSUED TO MPN	AJ
24/09/21	6	ISSUE FOR REVIEW	AJ
11/06/21	5	VESSEL AREA REVISED	AJ
10/06/21	4	CONCEPT PHASE CLIENT SUBMISSION	AJ
31/05/21	3	AWNING OVER AMMONIA VESSELS ADDED, BLOCK WORK TO MCC & UNDER PLATE FREEZER STRUCTURAL SLAB SHOWN, GENERAL REVISION	AJ

Date

Issue

Amendment

Init

Brisbane

Kuala Lumpur

Melbourne

Sydney

Toowoomba

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connect@wiley.com.au

1300 385 988

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Project

TEYS

TEYS AUSTRALIA - PLATE FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title

COVER PAGE

Scale

NOT TO SCALE

Drawn

AJ

Date

APR 2021

Project No.

W25813

Bldg No.

35

Drawing No.

35A000 - 10

Issue

NOT FOR CONSTRUCTION

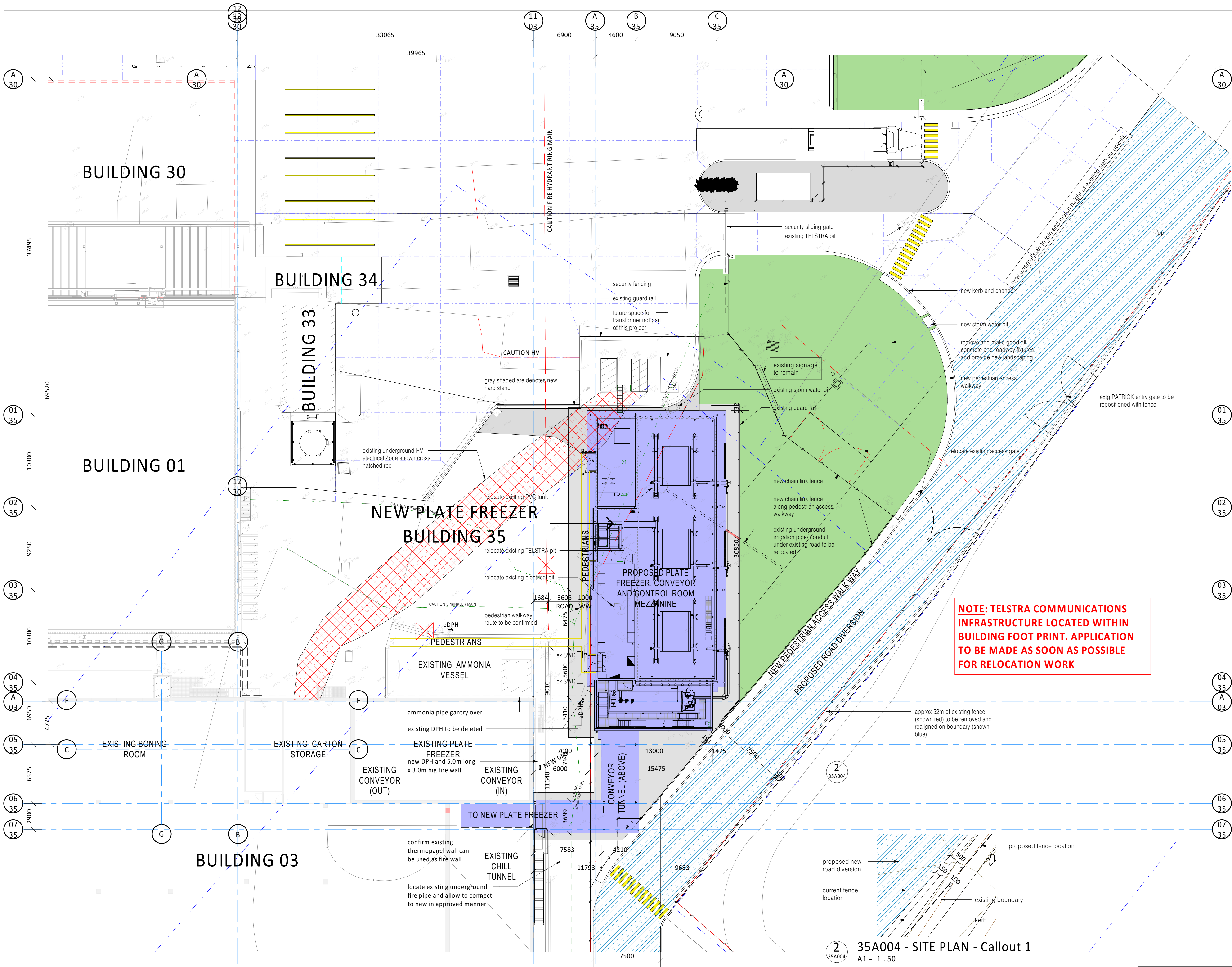
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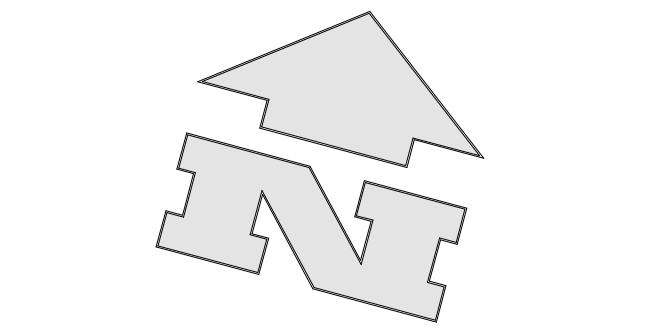
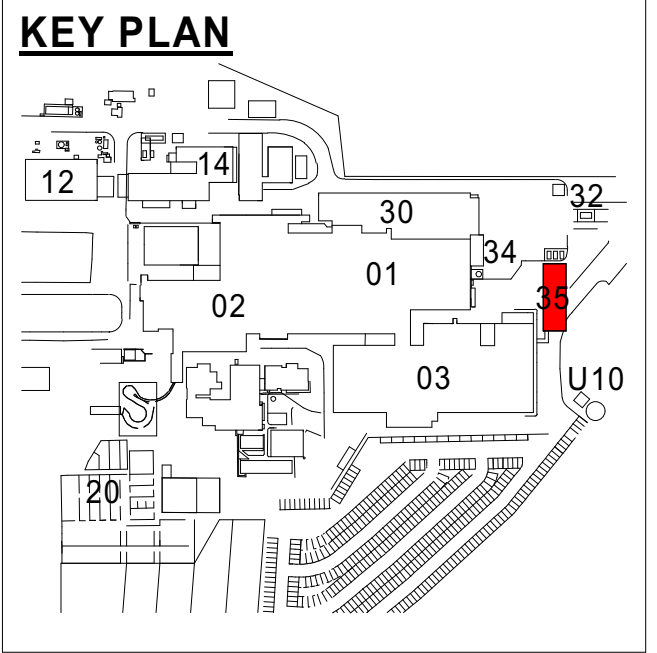
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05/11/21	13	FIRE WALL SHOWN, NOTES ADDED/ REVISED	AJ
19/10/21	12	FOR CLIENT REVIEW	AJ
06/10/21	11	FOR CLIENT REVIEW	AJ
05/10/21	10	ISSUED TO MPN	AJ
24/09/21	9	ISSUE FOR REVIEW	AJ
14/07/21	8	BUILDING 30 REFERENCE GRIDS ADDED	AJ
11/06/21	7	NOTES ADDED, LANDSCAPING, HARDSTAND, PATHWAY, FENCING & GATES SHOWN, VESSELS REVISED	AJ
10/06/21	6	CONCEPT PHASE CLIENT SUBMISSION	AJ

Date	Issue	Amendment	Init
BRISBANE KUALALUMPUR MELBOURNE SYDNEY TOOWOOMBA			
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TEYS AUSTRALIA - PLATE
FREEZER PROJECT
WAGGA WAGGA, NSW
Drawing Title
**PROPOSED NEW PLATE
FREEZER BUILDING**

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Drawn AJ Date APRIL 2021

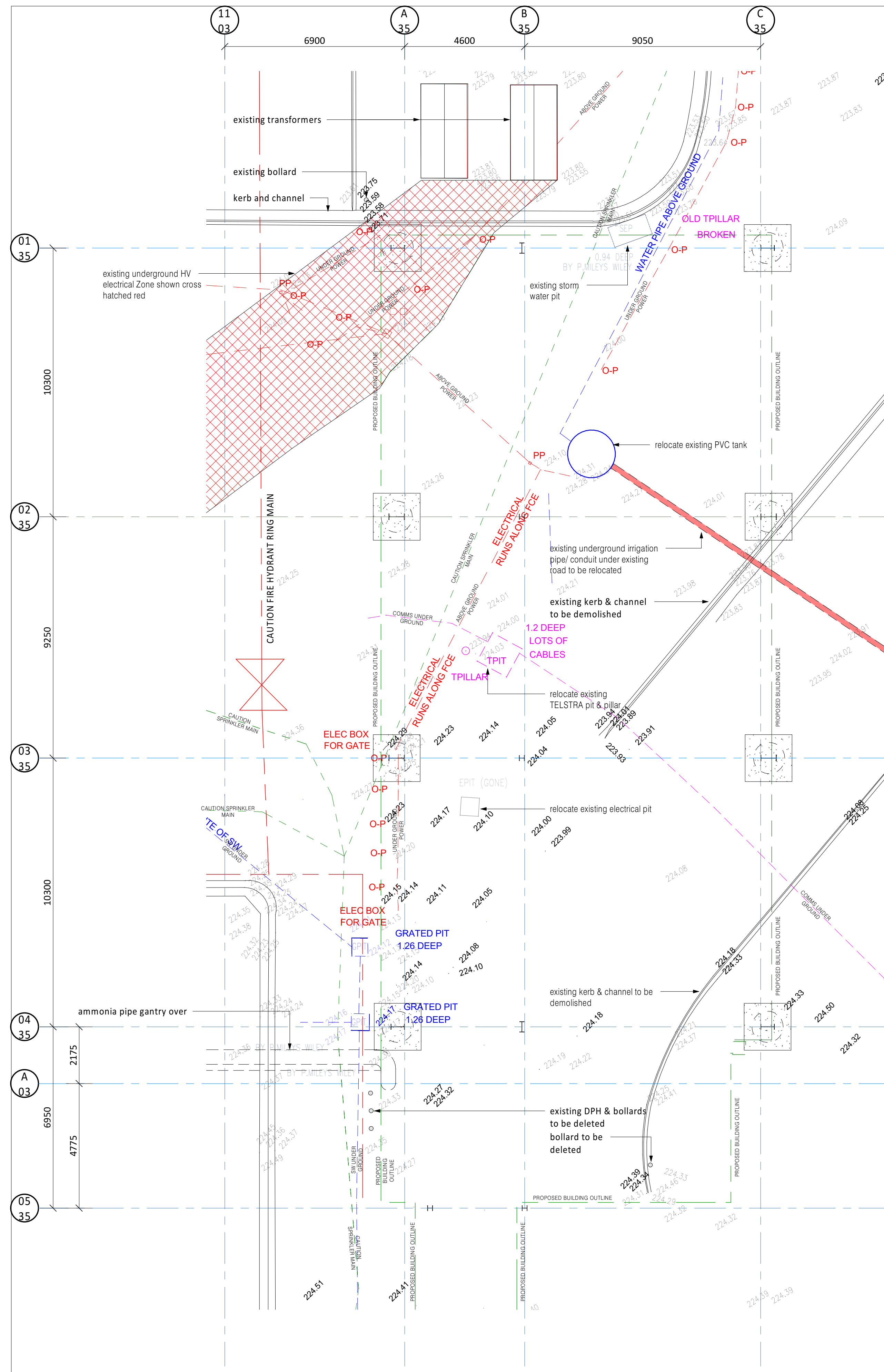
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Drawing No. Issue

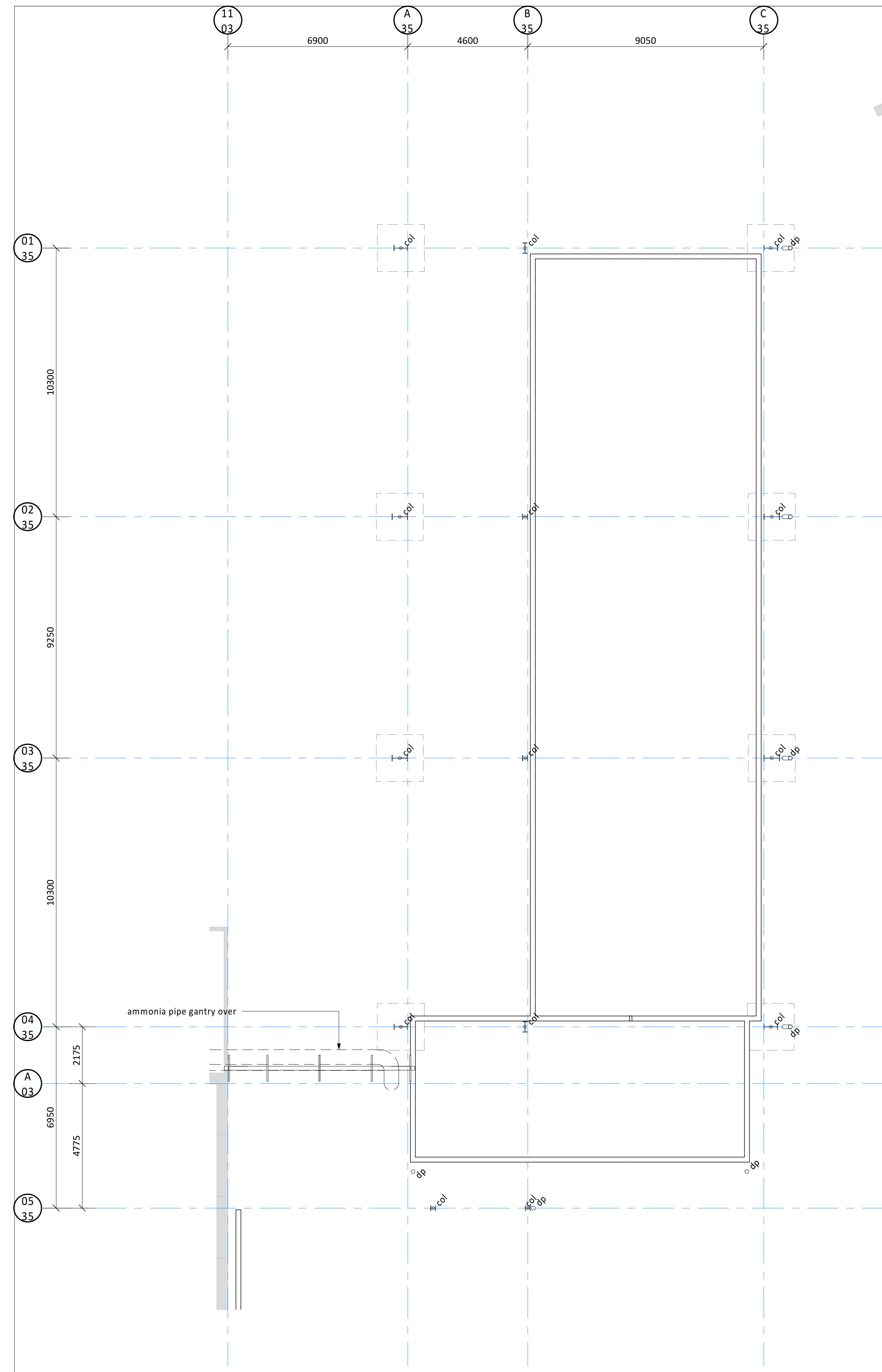
35A004 - 13

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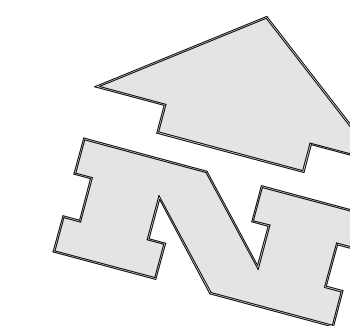
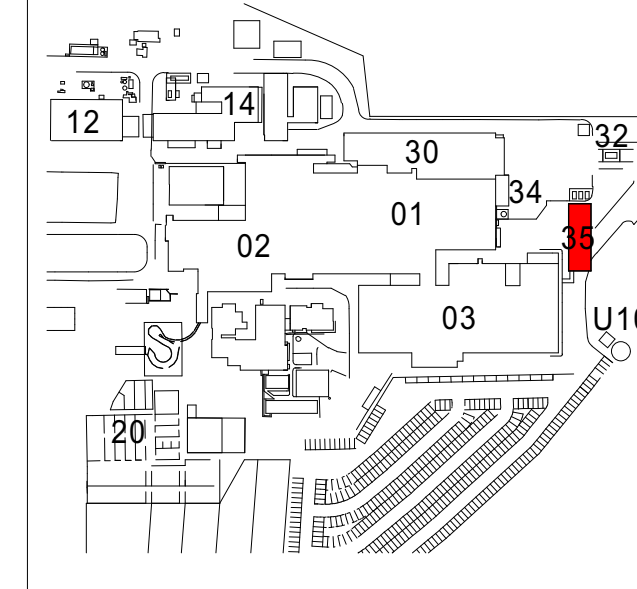
1 FOOTING PLAN
A1 = 1 : 100



2 BLOCK WALL PLAN
A1 = 1 : 100

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KEY PLAN



Date	Issue	Amendment	Initials
05/11/21	4	SERVICES SHOWN, BLOCK WALL PLAN ADDED	A
06/10/21	3	FOR CLIENT REVIEW	A
05/10/21	2	ISSUED TO MPN	A
24/09/21	1	ISSUE FOR REVIEW	A

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Project



TEYS AUSTRALIA - PLATE
FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title
**FOOTING & BLOCK WALL
PLAN**

Scale A1 = 1:100 (A3 = 1:200) 0 1000 2000

Drawn BC	Date SEPT 2021
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Project No.	Bldg No.
W25813	35

Drawing No.	Issue
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35A010 - 4

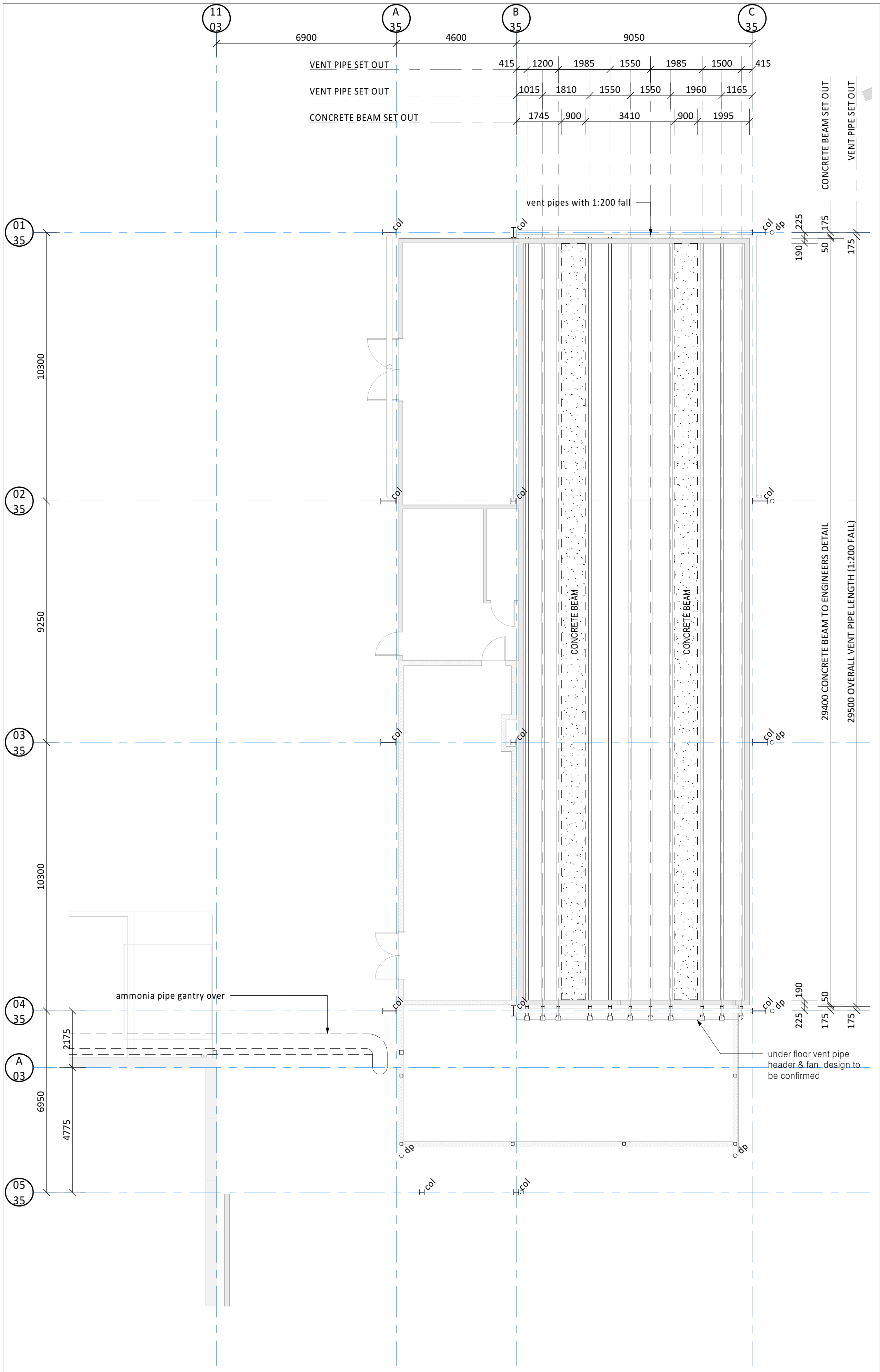
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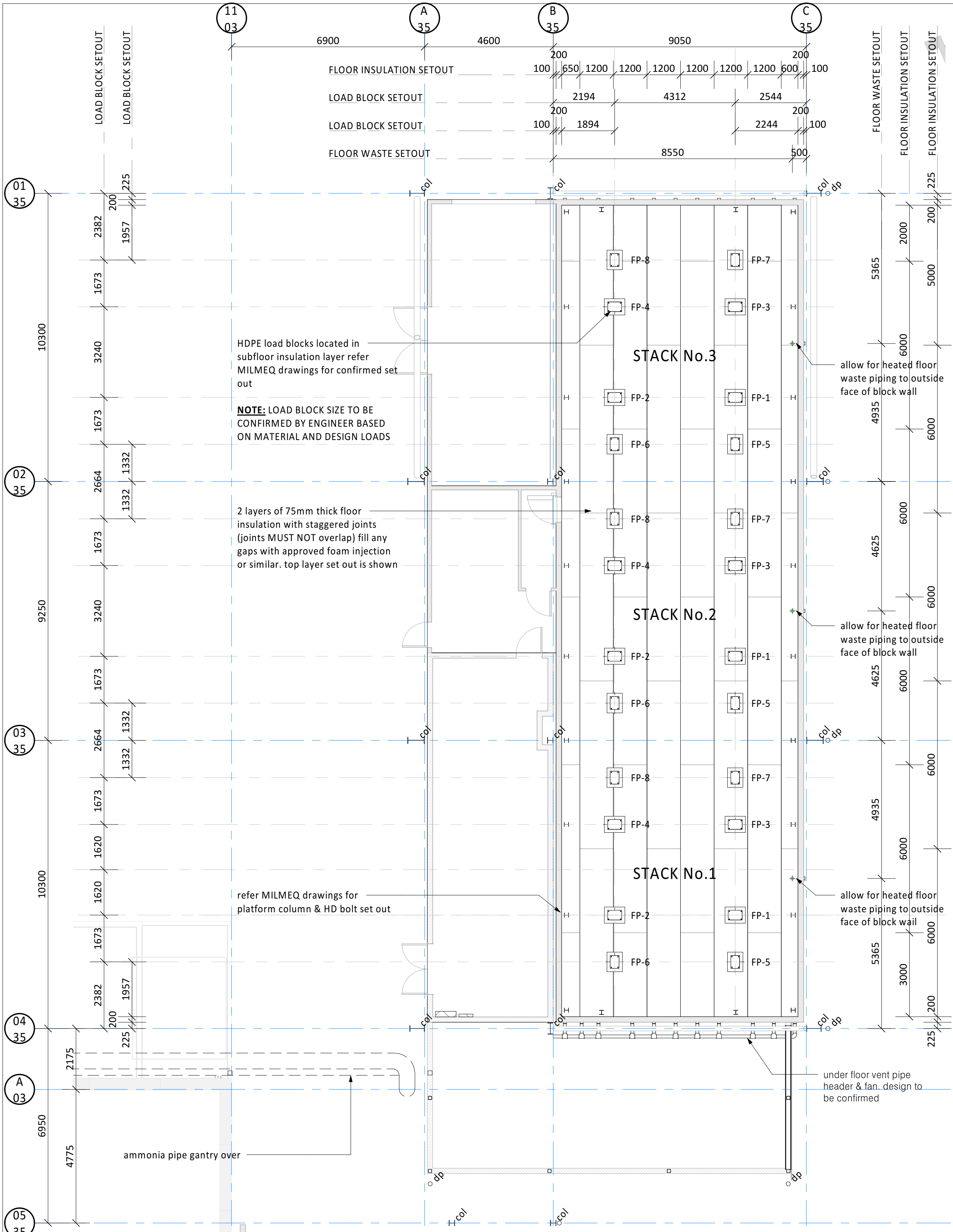
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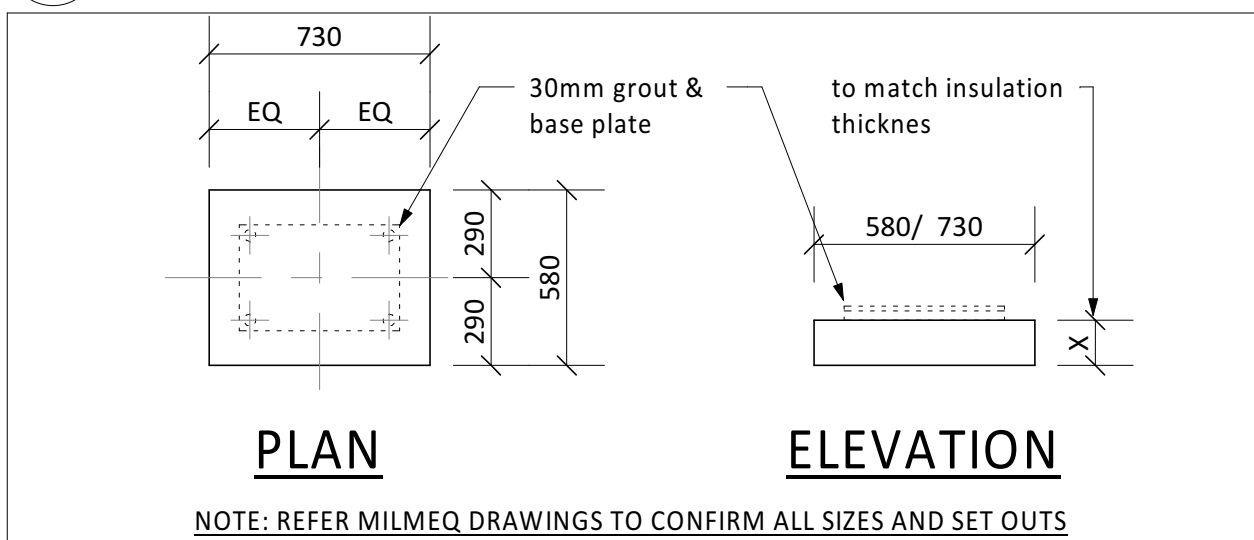
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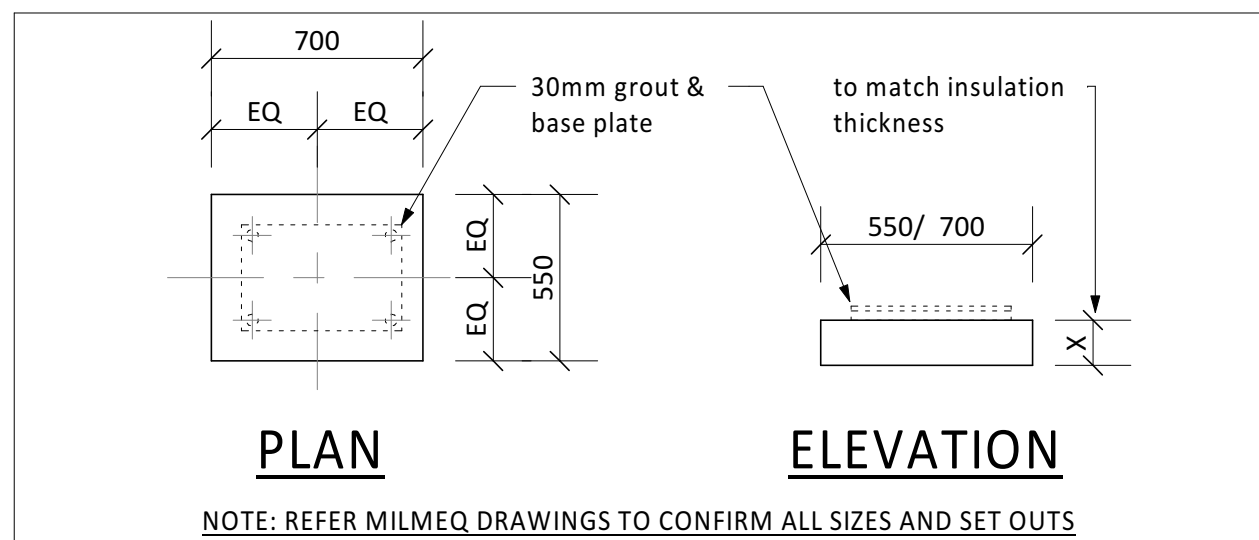
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2 INSULATED PANEL FLOOR
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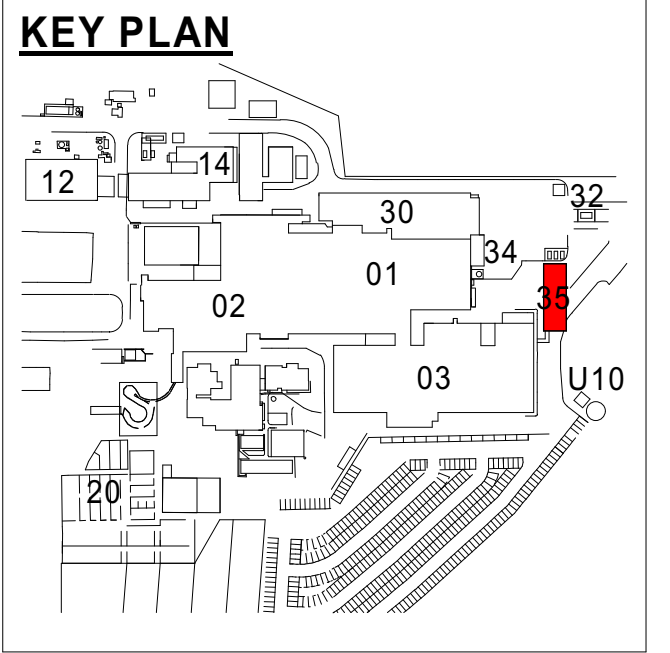


3 FP1, FP2, FP3 & FP4
A1 = 1 : 25



4 FP5, FP6, FP7 & FP8
A1 = 1 : 25

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LOAD BLOCK SCHEDULE		
ITEM	DESCRIPTION	QUANTITY
FP-1	720 x 580 x 150 HDPE load blocks	3
FP-2	720 x 580 x 150 HDPE load blocks	3
FP-3	720 x 580 x 150 HDPE load blocks	3
FP-4	720 x 580 x 150 HDPE load blocks	3
FP-5	700 X 550 x 150 HDPE load blocks	3
FP-6	700 X 550 x 150 HDPE load blocks	3
FP-7	700 X 550 x 150 HDPE load blocks	3
FP-8	700 X 550 x 150 HDPE load blocks	3

VENT PIPE SCHEDULE		
ITEM	DESCRIPTION	QUANTITY
PIPE	Ø100 uPVC pipe, refer drawing for lengths and set out	11

Date	Issue	Amendment	Init
05/11/21	4	DIMENSIONS, NOTES, SCHEDULES & DETAILS ADDED	AJ
06/10/21	3	FOR CLIENT REVIEW	AJ
05/10/21	2	ISSUED TO MPN	AJ
24/09/21	1	ISSUE FOR REVIEW	AJ

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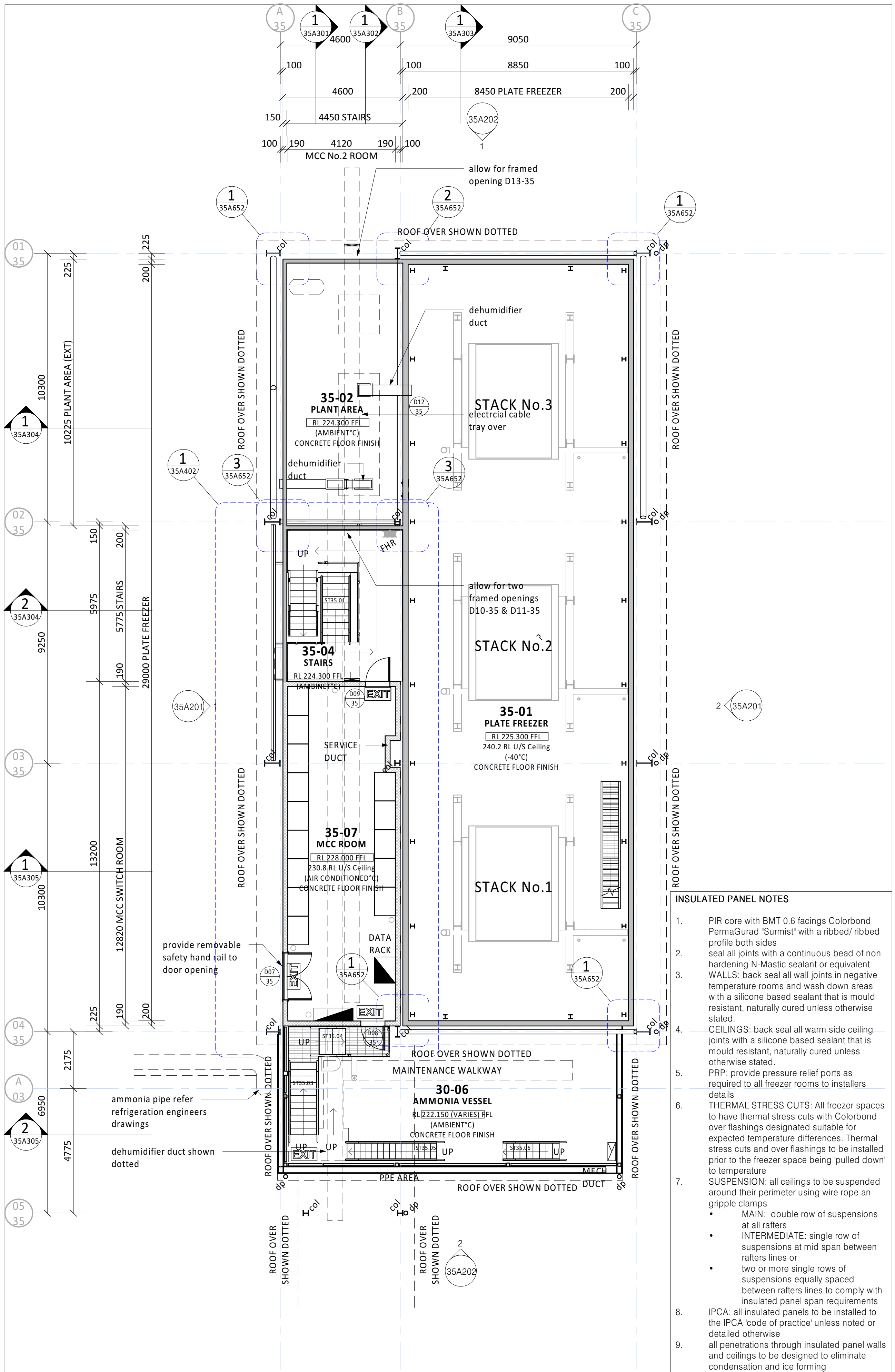
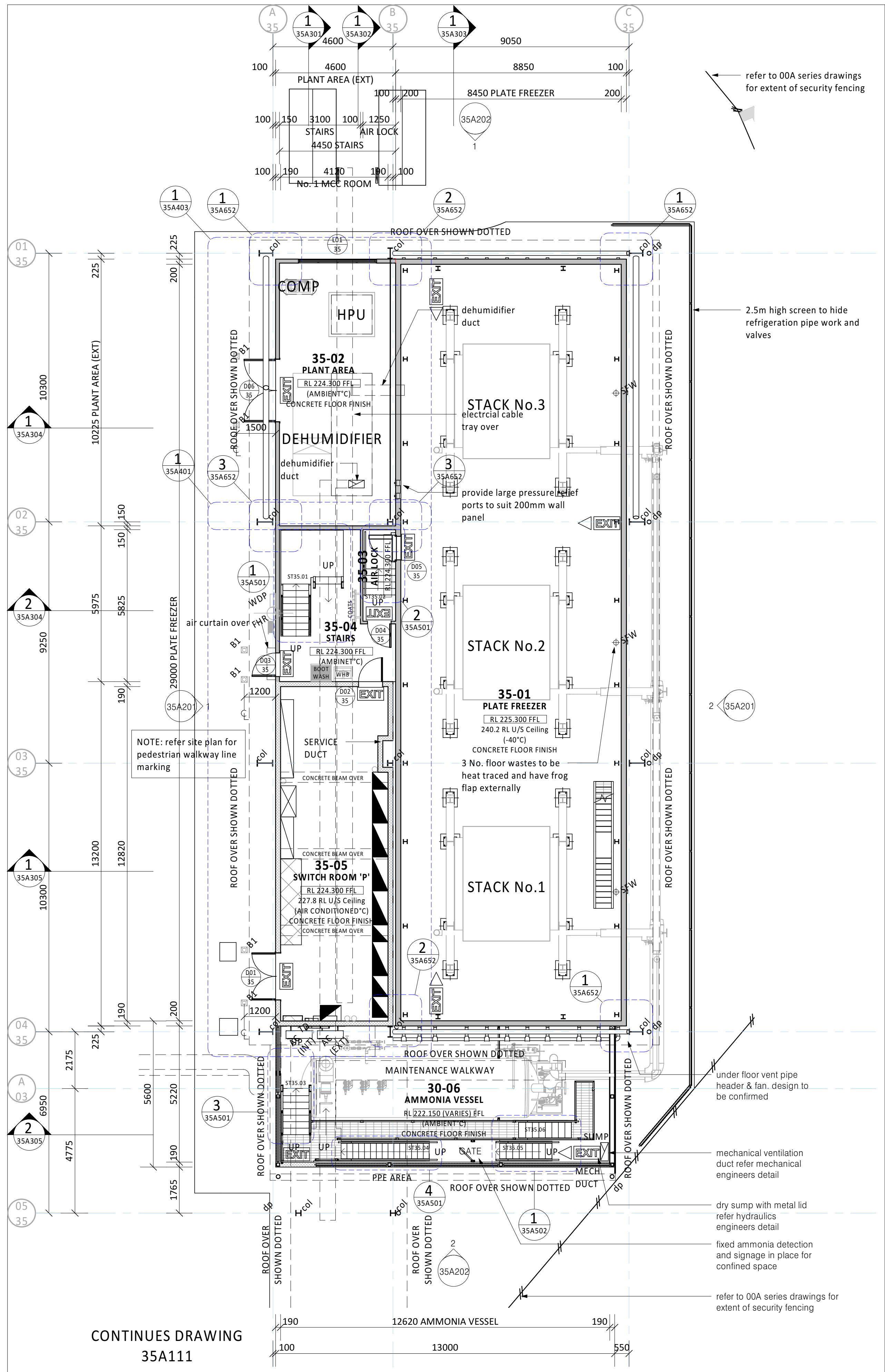
Drawing Title
VENT PIPES, BEAMS,
BLOCK WALLS &
STRUCTURAL SLAB

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Drawn	BC
Date	SEPT 2021
Project No.	W25813
Bldg No.	35
Drawing No.	
Issue	

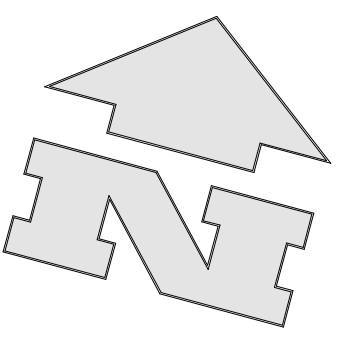
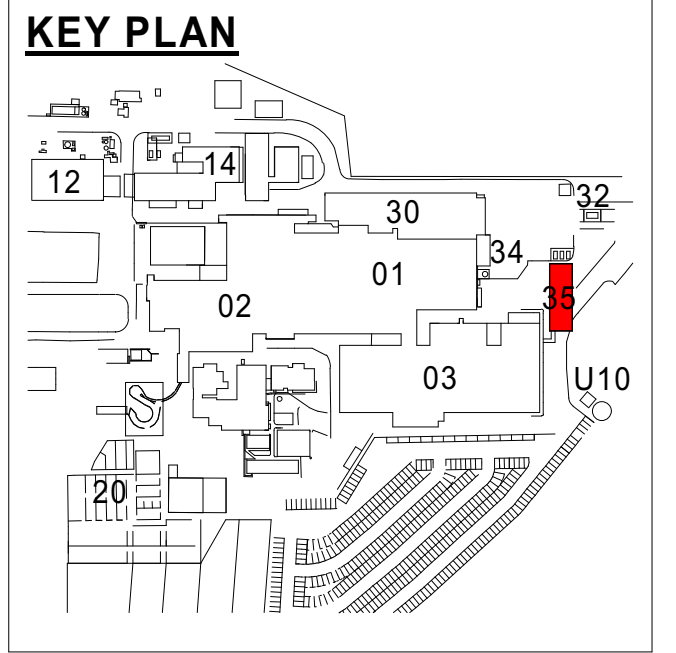
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- NOTE:**
- provide zone rated fittings to ammonia vessels area
 - all conduits and droppers to be stainless steel
 - all insulated panel joints must be core to core connection and or foam filled and sealed to prevent green mould forming on external joints
 - plate freezer and tunnel walls to be restrained with mushroom bolt girt/ wind beam fixings for seismic compliance

Date	Issue	Amendment	Init
05/11/21	11	WDP SHOWN, FHR MOVED, NOTES ADDED/REVISED, FENCING SHOWN	AJ
19/10/21	10	FOR CLIENT REVIEW	AJ
06/10/21	9	FOR CLIENT REVIEW	AJ
05/10/21	8	ISSUED TO MPN	AJ
24/09/21	7	ISSUE FOR REVIEW	AJ
11/06/21	6	VESSEL AREA REVISED	AJ
10/06/21	5	CONCEPT PHASE CLIENT SUBMISSION	AJ

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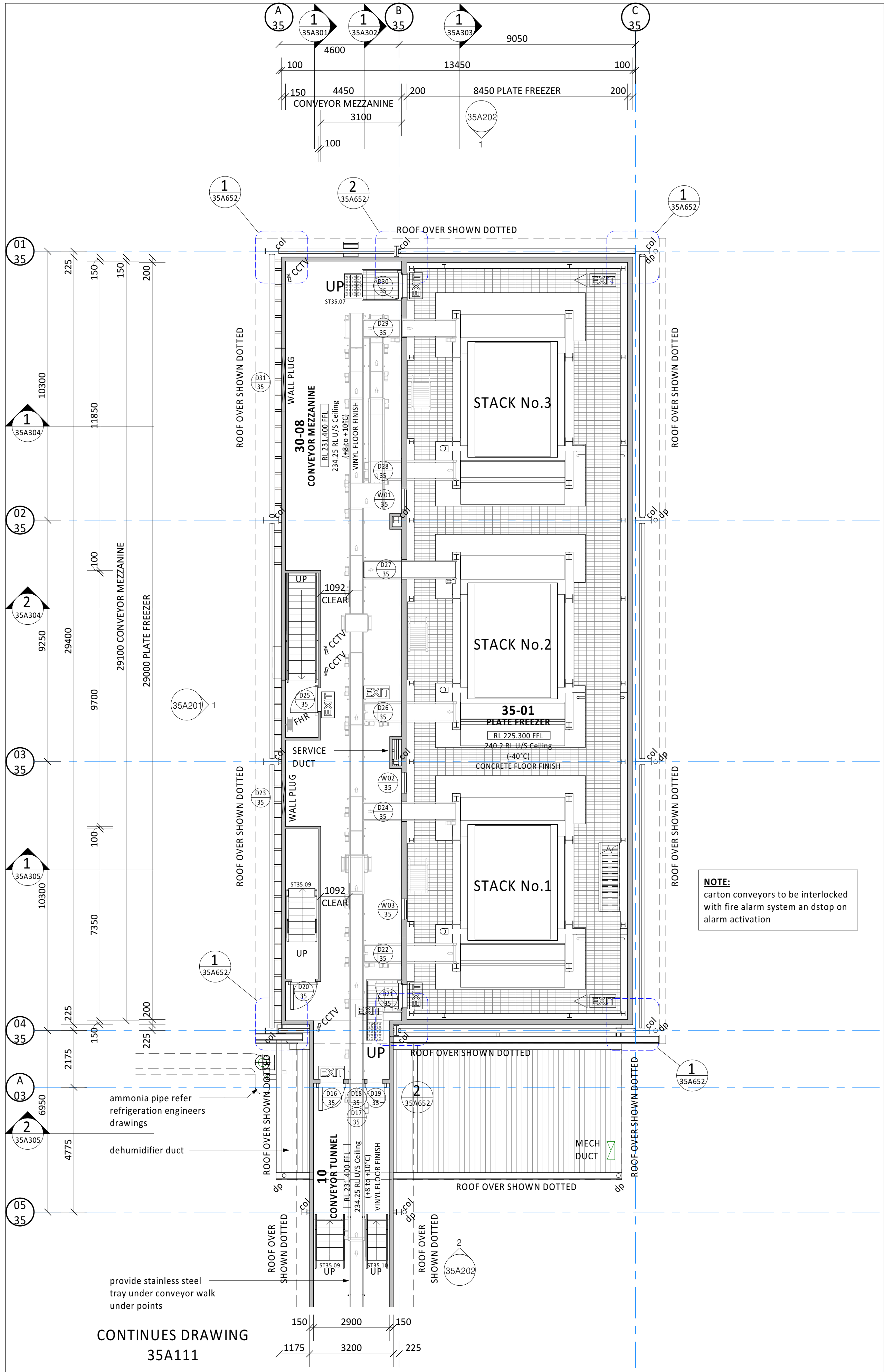


TEYS AUSTRALIA - PLATE FREEZER PROJECT
WAGGA WAGGA, NSW
Drawing Title
PLATE FREEZER FLOOR PLANS

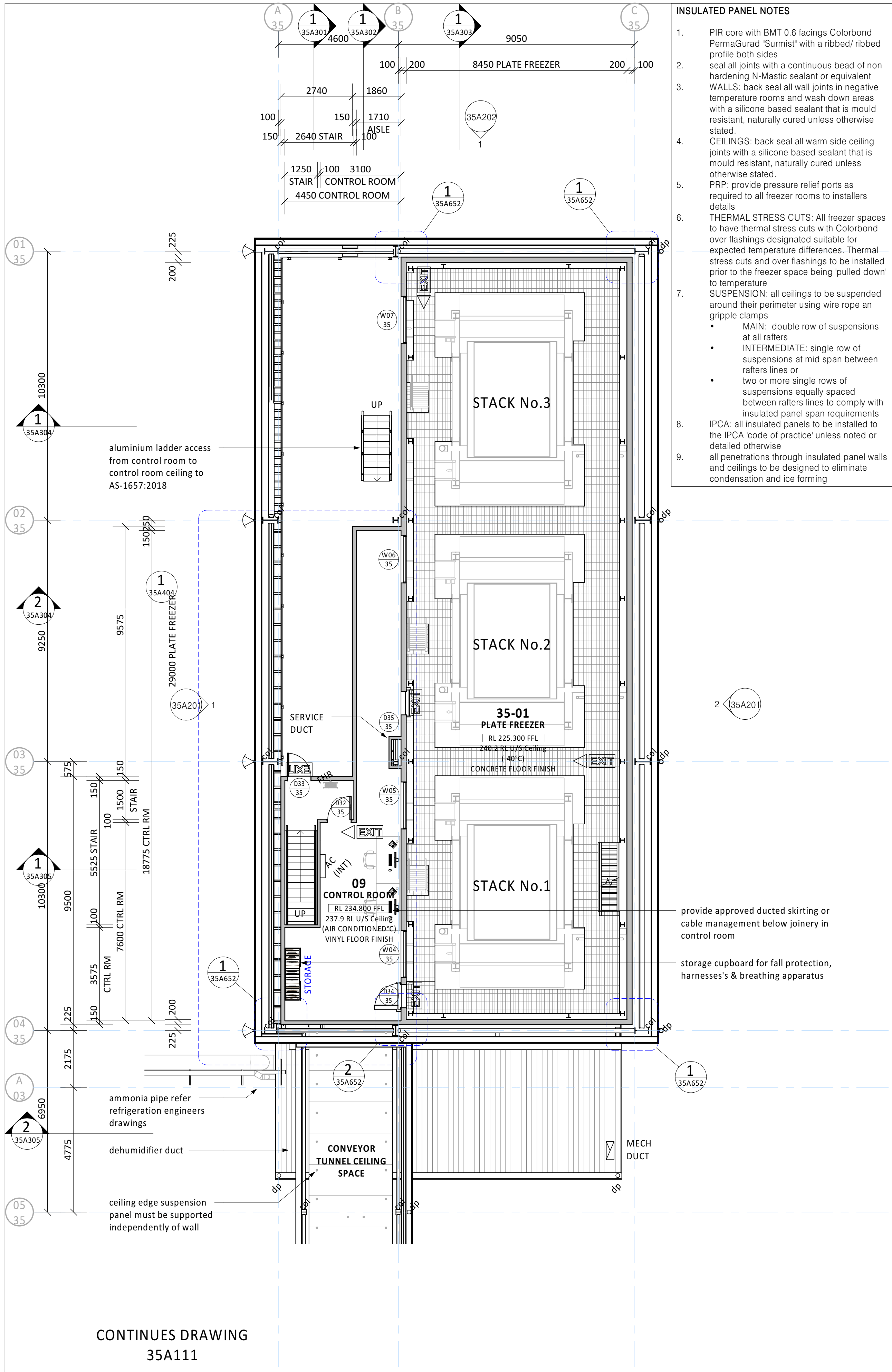
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Drawn	AJ	Date APR 2021
Project No.	W25813	Bldg No. 35
Drawing No.		Issue

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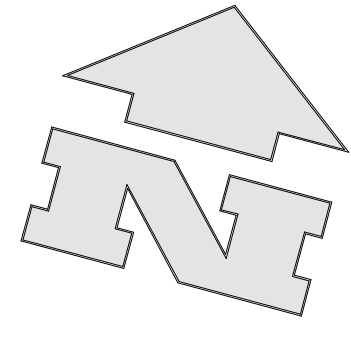
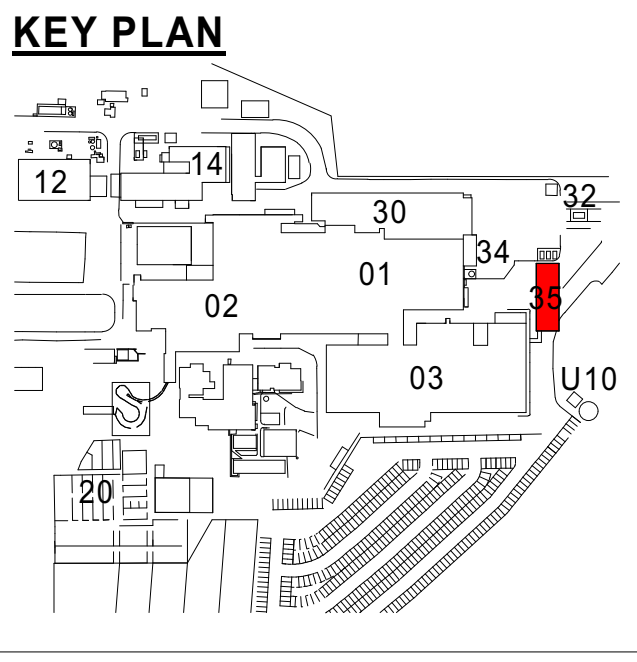
11 CONVEYOR LEVEL PLAN
A1 = 1 : 100



2 CONTROL ROOM LEVEL PLAN
A1 = 1 : 100

- INSULATED PANEL NOTES**
- PIR core with BMT 0.6 facings Colorbond PermaGuard 'Summist' with a ribbed/ribbed profile both sides
 - seal all joints with a continuous bead of non hardening N-Mastic sealant or equivalent
 - WALLS: back seal all wall joints in negative temperature rooms and wash down areas with a silicone based sealant that is mould resistant, naturally cured unless otherwise stated.
 - CEILINGS: back seal all warm side ceiling joints with a silicone based sealant that is mould resistant, naturally cured unless otherwise stated.
 - PRP: provide pressure relief ports as required to all freezer rooms to installers details
 - THERMAL STRESS CUTS: All freezer spaces to have thermal stress cuts with Colorbond over flashings designated suitable for expected temperature differences. Thermal stress cuts and over flashings to be installed prior to the freezer space being 'pulled down' to temperature
 - SUSPENSION: all ceilings to be suspended around their perimeter using wire rope an gripple clamps
 - MAIN: double row of suspensions at all rafters
 - INTERMEDIATE: single row of suspensions at mid span between rafters lines or
 - two or more single rows of suspensions equally spaced between rafters lines to comply with insulated panel span requirements
 - IPCA: all insulated panels to be installed to the IPCA 'code of practice' unless noted or detailed otherwise
 - all penetrations through insulated panel walls and ceilings to be designed to eliminate condensation and ice forming

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- NOTE:**
- provide zone rated fittings to ammonia vessels area
 - all conduits and droppers to be stainless steel
 - all insulated panel joints must be core to core connection and or foam filled and sealed to prevent green mould forming on external joints
 - plate freezer and tunnel walls to be restrained with mushroom bolt girt/ wind beam fixings for seismic compliance

05/11/21	12	NOTES ADDED/ REVISED	AJ
19/10/21	11	FOR CLIENT REVIEW	AJ
06/10/21	10	FOR CLIENT REVIEW	AJ
05/10/21	9	ISSUED TO MPN	AJ
24/09/21	8	ISSUE FOR REVIEW	AJ
21/06/21	7	CEILING SPACE ACCESS LADDERS NOW STAIRS	AJ
11/06/21	6	VESSEL AREA REVISED	AJ
10/06/21	5	CONCEPT PHASE CLIENT SUBMISSION	AJ

Date	Issue	Amendment	Init
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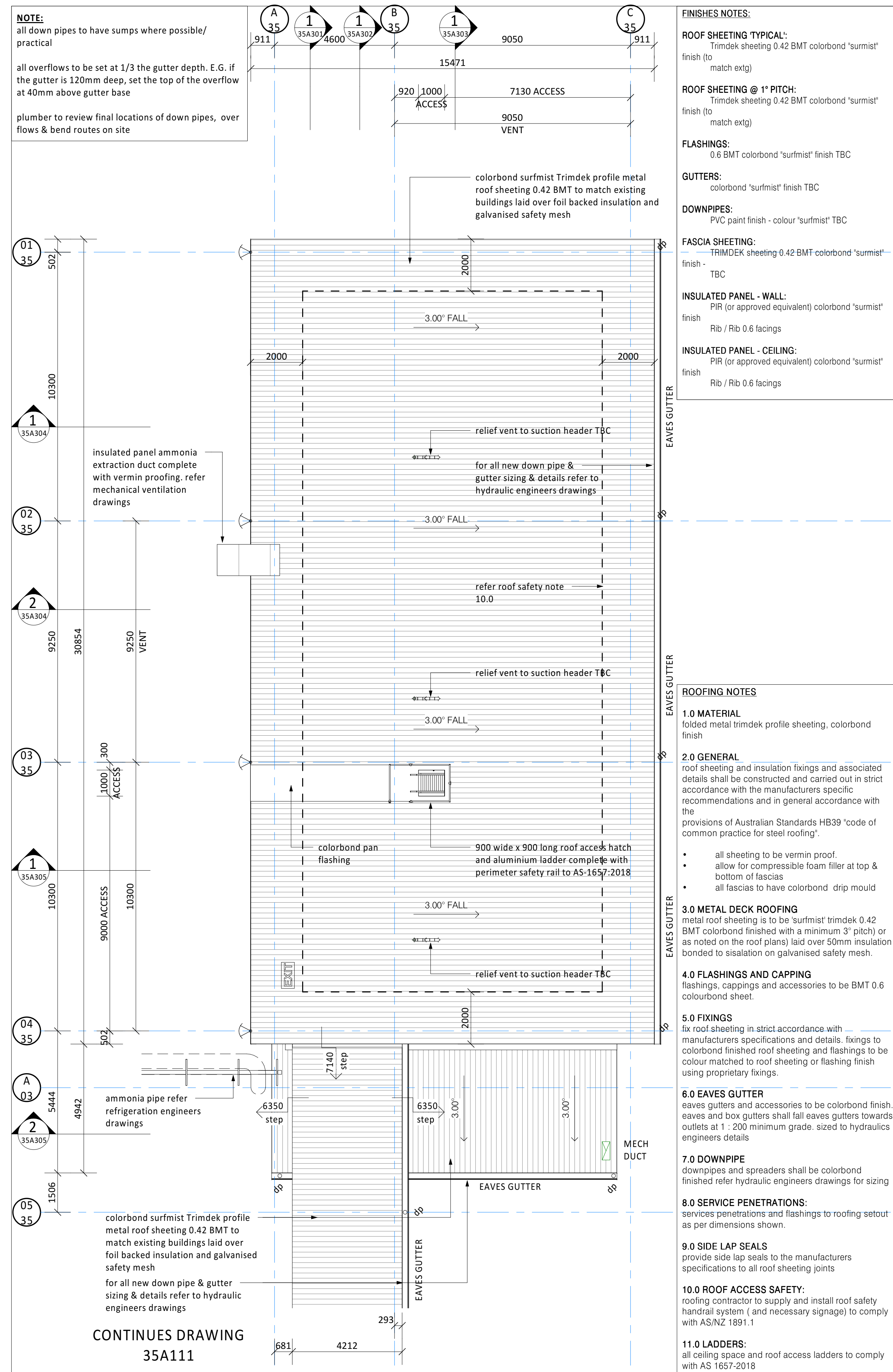
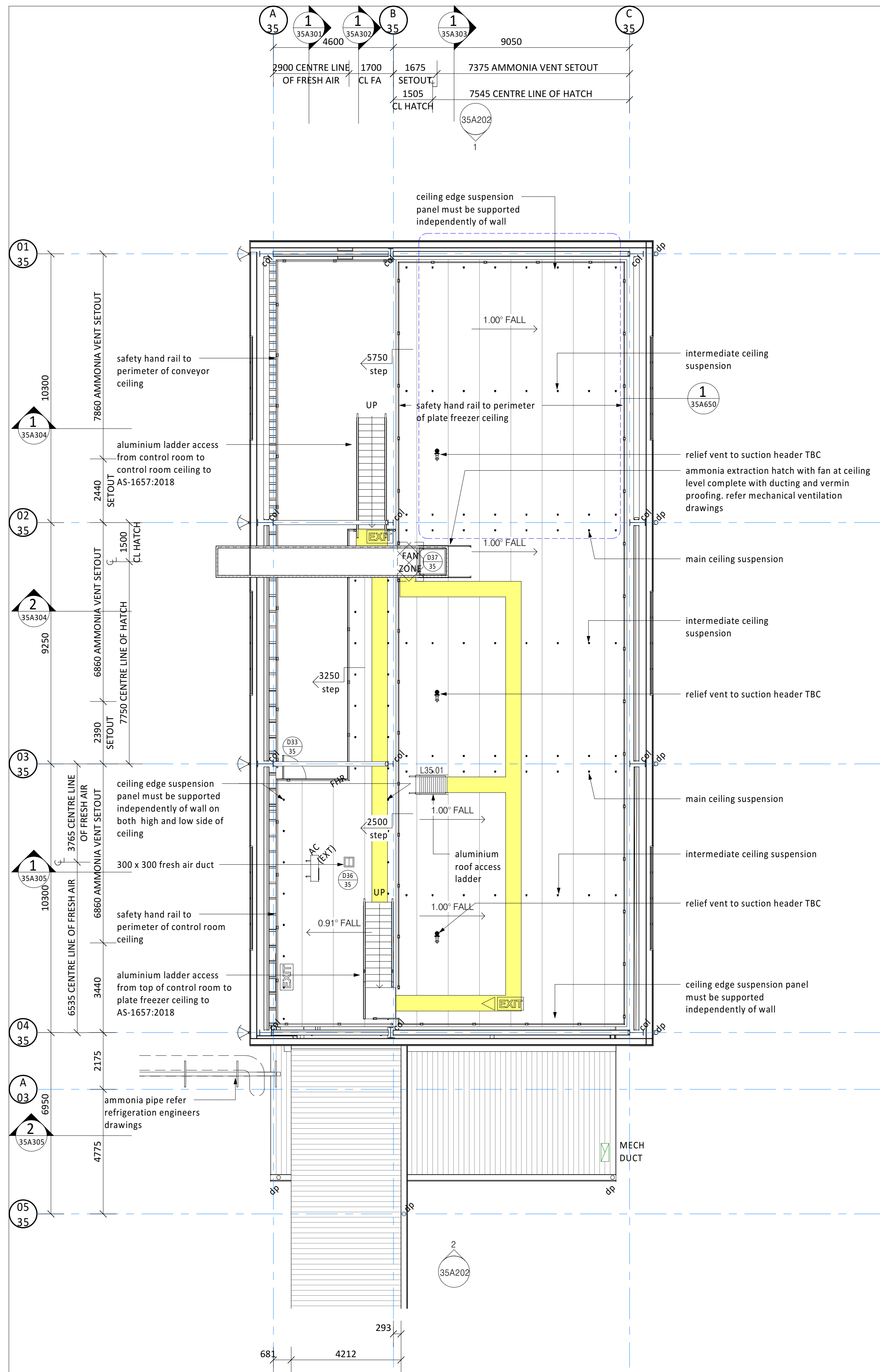
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TEYS AUSTRALIA - PLATE FREEZER PROJECT
WAGGA WAGGA, NSW
Drawing Title
CONVEYOR FLOOR ROOM & CONTROL ROOM FLOOR PLANS

Scale	A1= 1:100 (A3=1: 200)	0 1000 2000
Drawn	AJ	Date APR 2021
Project No.	W25813	Bldg No. 35
Drawing No.		Issue

35A102 - 12
NOT FOR CONSTRUCTION



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- NOTE:**
- provide zone rated fittings to ammonia vessels area
 - all conduits and droppers to be stainless steel
 - all insulated panel joints must be core to core connection and or foam filled and sealed to prevent green mould forming on external joints
 - plate freezer and tunnel walls to be restrained with mushroom bolt girt/ wind beam fixings for seismic compliance

Date	Issue	Amendment	Init
05/11/21	5	ACCESS HATCH MOVED, AMMONIA VENTS & DUCTING REVISED	AJ
19/10/21	4	FOR CLIENT REVIEW	AJ
06/10/21	3	FOR CLIENT REVIEW	AJ
05/10/21	2	ISSUED TO MPN	AJ
24/09/21	1	ISSUE FOR REVIEW	AJ

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TEYS AUSTRALIA - PLATE
FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title
PLATE FREEZER TOP OF

CEILING & ROOF PLANS

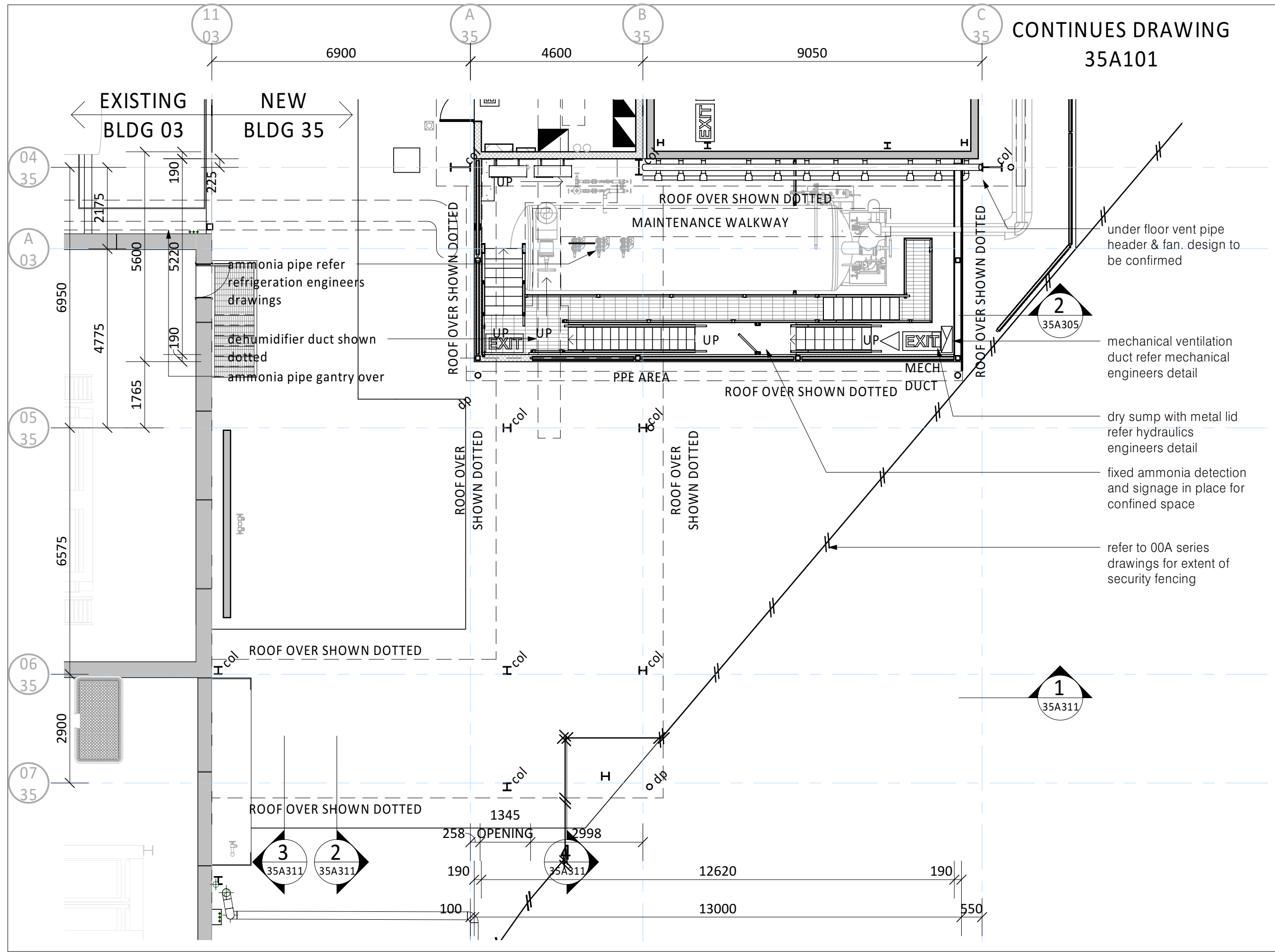
Scale A1 = 1: 100 (A3 = 1: 200) 0 1000 2000

Drawn A.J.	Date SEPT 2021
Project No. 1007010	Bldg No. 1007010

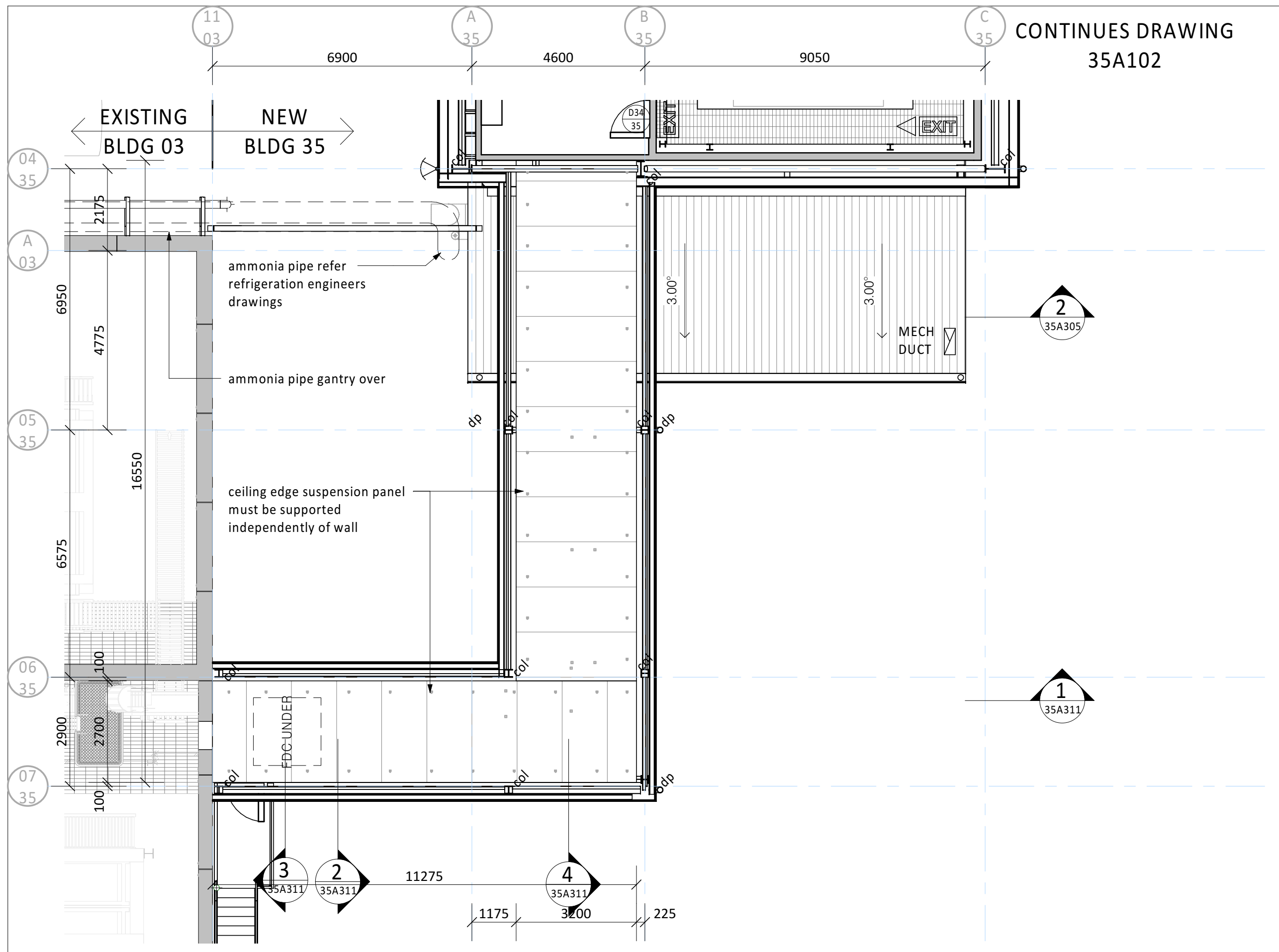
W25613	35
Drawing No.	Issue

35A103 - 5

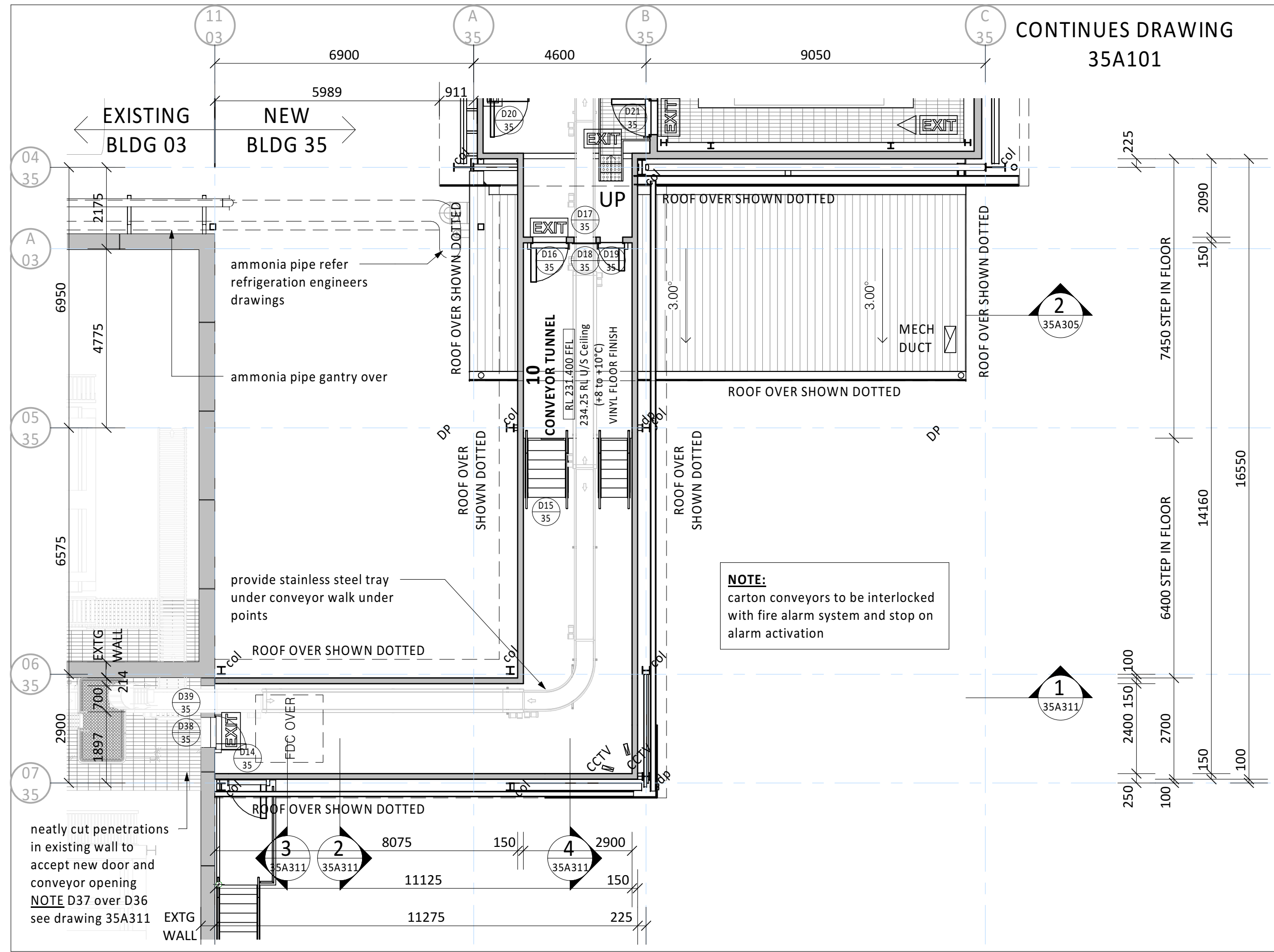
NOT FOR CONSTRUCTION



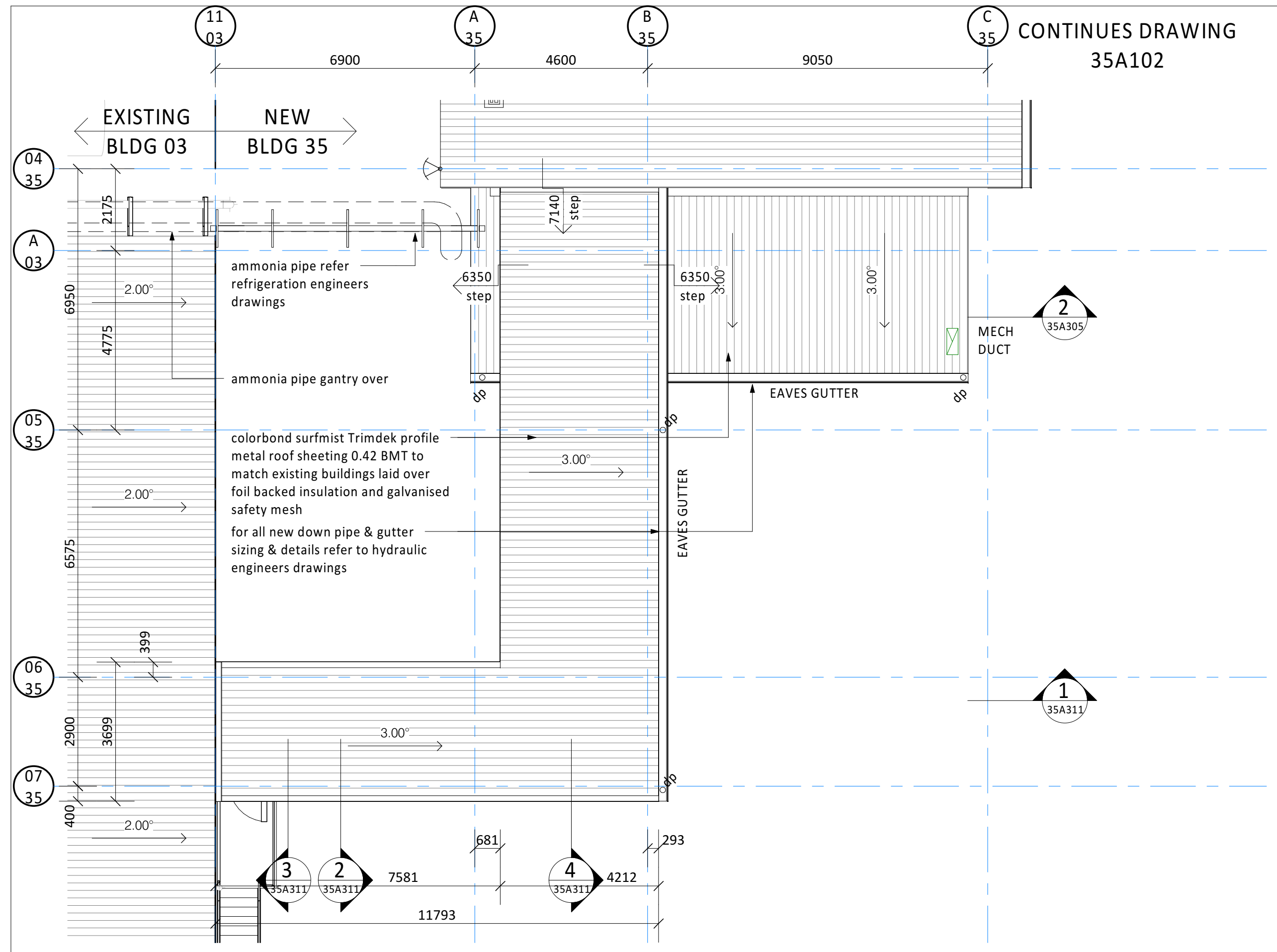
1 CONVEYOR TUNNEL GROUND FLOOR PLAN
A1 = 1 : 100



3 CONVEYOR TUNNEL CEILING SPACE PLAN
A1 = 1 : 100

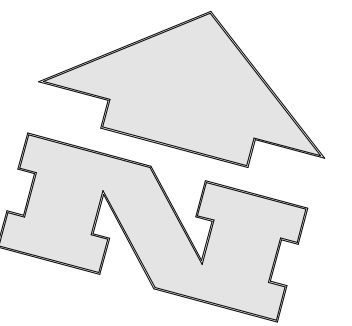
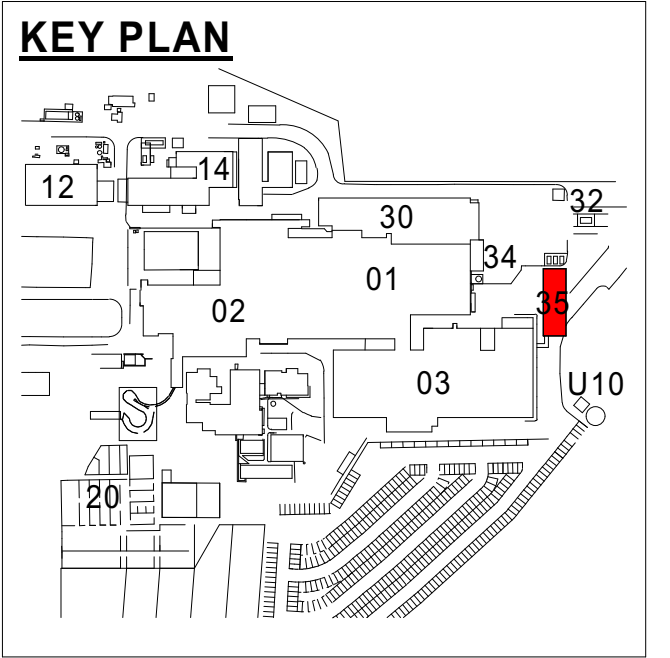


2 CONVEYOR TUNNEL FLOOR PLAN
A1 = 1 : 100



4 CONVEYOR TUNNEL ROOF PLAN
A1 = 1 : 100

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- NOTE:**
- provide zone rated fittings to ammonia vessels area
 - all conduits in plate freezer to be stainless steel
 - all conduits in non freezer areas to be PVC
 - all insulated panel joints must be core to core connection and or foam filled and sealed to prevent green mould forming on external joints
 - plate freezer and tunnel walls to be restrained with mushroom nut girt/ wind beam fixings for seismic compliance

05/11/21	9	NOTES ADDED/ REVISED	AJ
19/10/21	8	FOR CLIENT REVIEW	AJ
06/10/21	7	FOR CLIENT REVIEW	AJ
05/10/21	6	ISSUED TO MPN	AJ
24/09/21	5	ISSUE FOR REVIEW	AJ
11/06/21	4	VESSEL AREA REVISED	AJ
10/06/21	3	CONCEPT PHASE CLIENT SUBMISSION	AJ
31/05/21	2	AWNING OVER AMMONIA VESSELS ADDED, BLOCK WORK TO MCC & UNDER PLATE FREEZER STRUCTURAL SLAB SHOWN, GENERAL REVISION	AJ
12/05/21	1	INITIAL ISSUE	AJ
Date	Issue	Amendment	Init

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WAGGA WAGGA, NSW
Drawing Title
CONVEYOR TUNNEL PLAN
VIEWS

Scale A1 = 1:100 (A3 = 1:200) 0 1000 2000

Drawn AJ Date MAY 2021

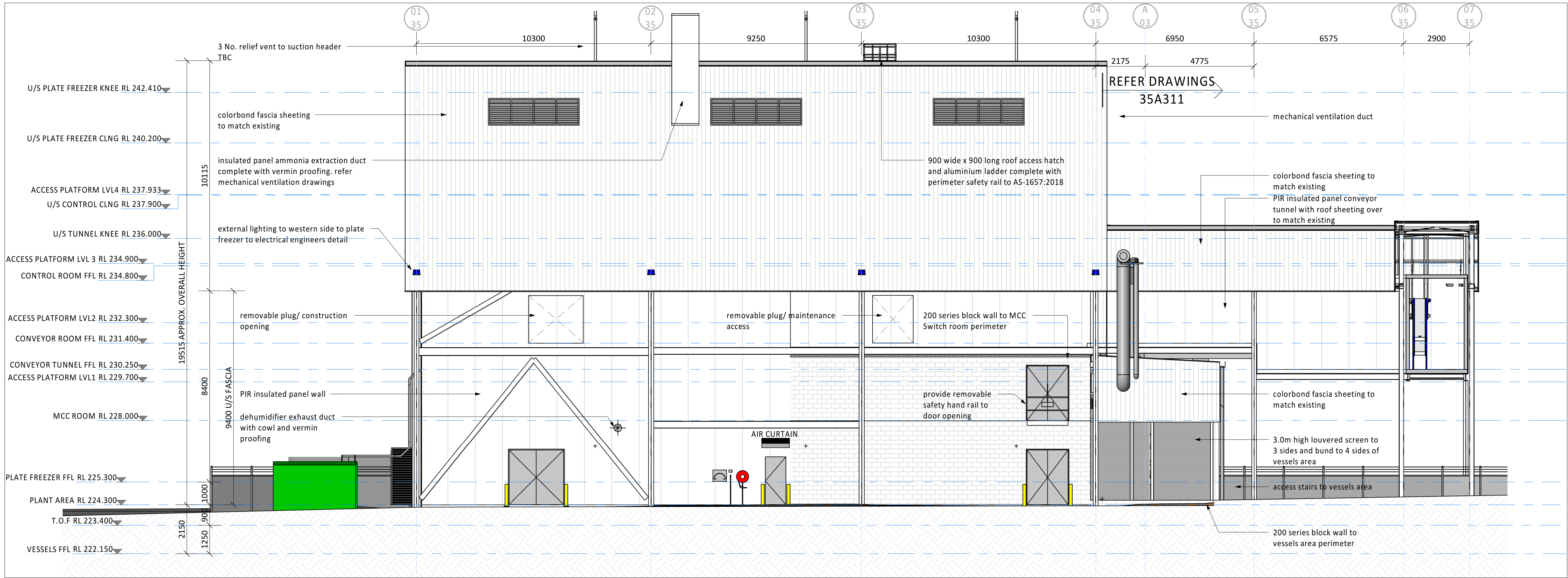
Project No. W25813 Bldg No. 35

Drawing No. Issue

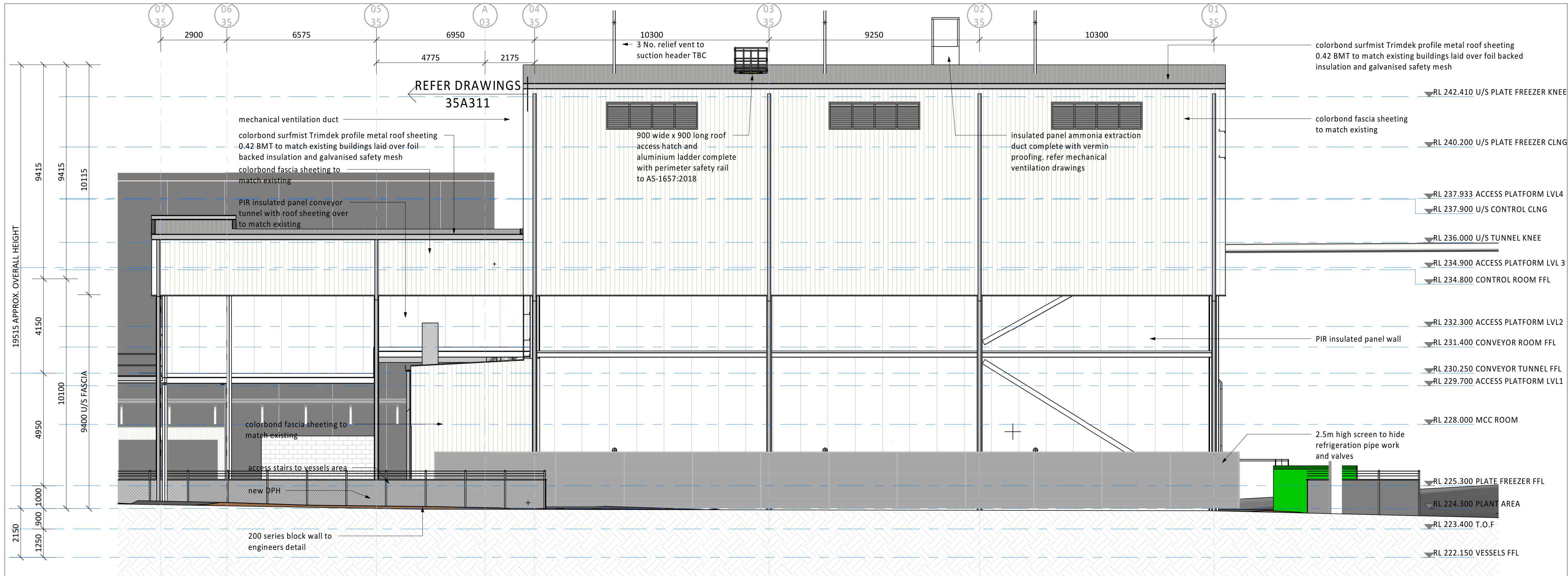
35A111 - 9

NOT FOR CONSTRUCTION

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1 WEST ELEVATION
A1 = 1 : 100



2 EAST ELEVATION
A1 = 1 : 100

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05/11/21	11	NOTES ADDED/ REVISED	AJ
19/10/21	10	FOR CLIENT REVIEW	AJ
06/10/21	9	FOR CLIENT REVIEW	AJ
05/10/21	8	ISSUED TO MPN	AJ
24/09/21	7	ISSUE FOR REVIEW	AJ
11/06/21	6	VESSEL AREA REVISED	AJ
10/06/21	5	CONCEPT PHASE CLIENT SUBMISSION	AJ
31/05/21	4	AWNING OVER AMMONIA VESSELS ADDED, BLOCK WORK TO MCC & UNDER PLATE FREEZER STRUCTURAL SLAB SHOWN, GENERAL REVISION	AJ

Date	Issue	Amendment	Init
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TEYS AUSTRALIA - PLATE FREEZER PROJECT
WAGGA WAGGA, NSW
Drawing Title
PLATE FREEZER ELEVATIONS - EAST & WEST

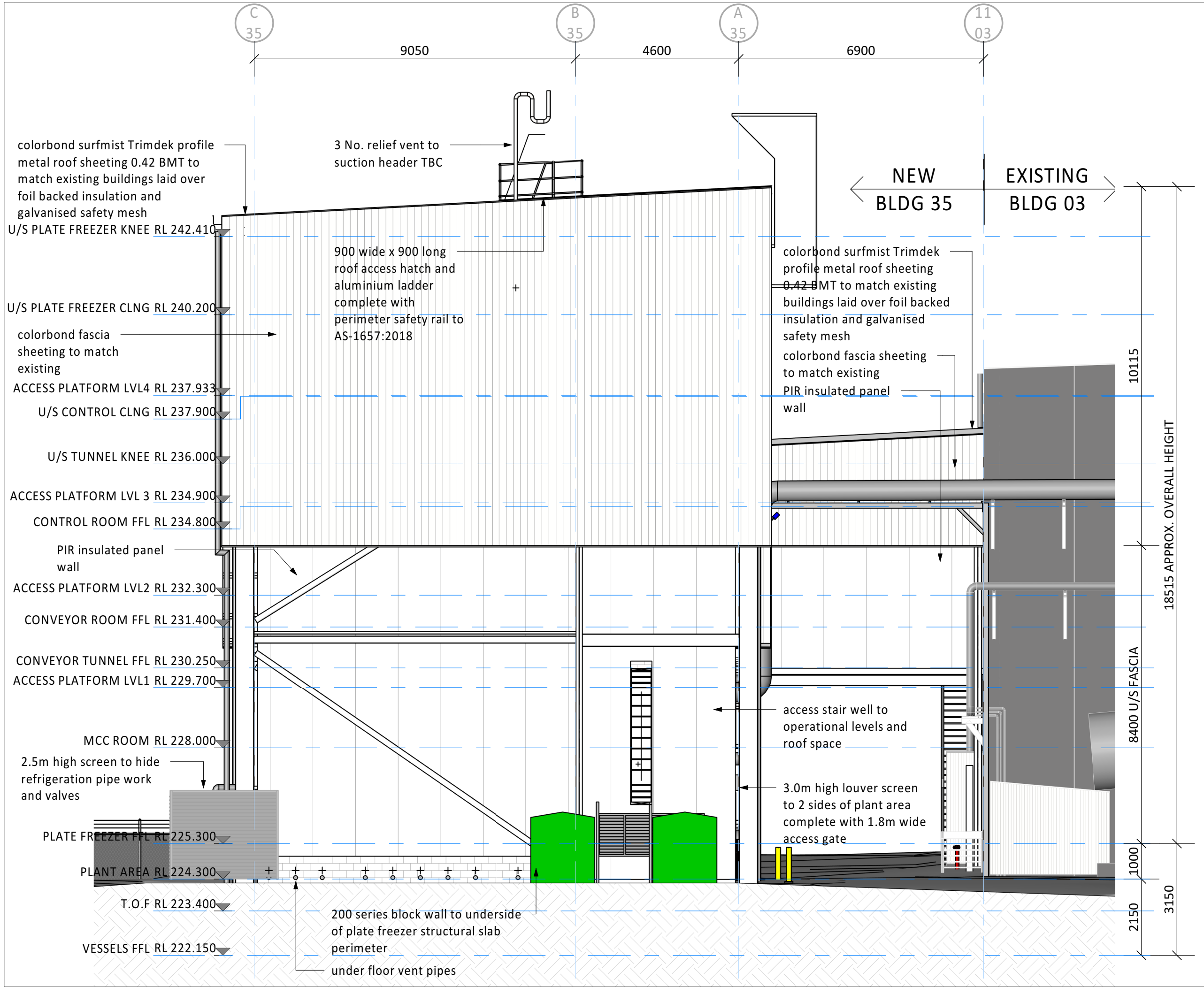
Scale	A1 = 1: 100 (A3 = 1: 200)	0 1000 2000  mm
Drawn	AJ	Date APR 2021
Project No. W25813		Bldg No. 35

35A201 - 11
NOT FOR CONSTRUCTION

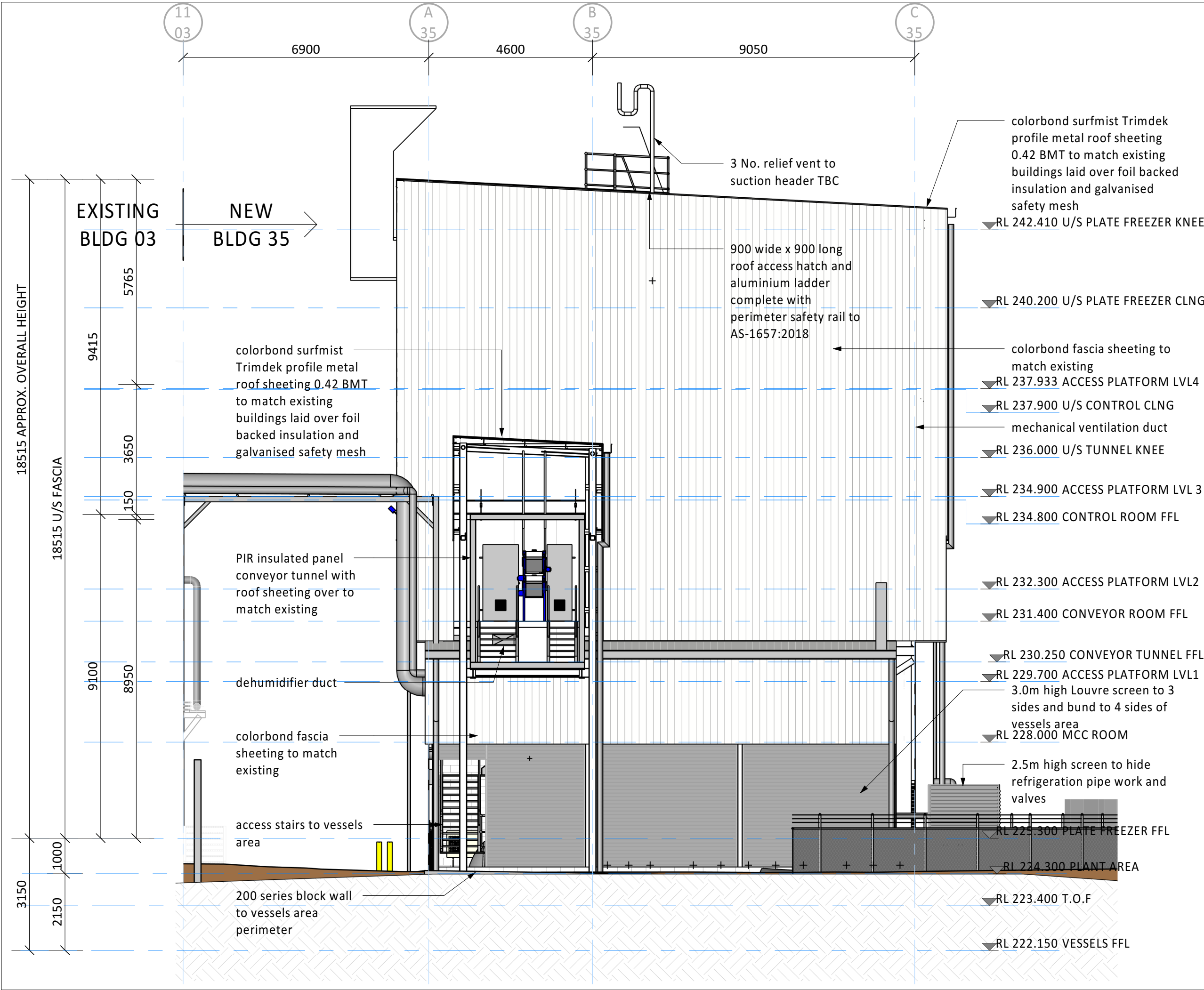
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1 NORTH ELEVATION
A1 = 1 : 100



2 SOUTH ELEVATION
A1 = 1 : 100

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05/11/21	11	NOTES ADDED/ REVISED	AJ
19/10/21	10	FOR CLIENT REVIEW	AJ
06/10/21	9	FOR CLIENT REVIEW	AJ
05/10/21	8	ISSUED TO MPN	AJ
24/09/21	7	ISSUE FOR REVIEW	AJ
11/06/21	6	VESSEL AREA REVISED	AJ
10/06/21	5	CONCEPT PHASE CLIENT SUBMISSION	AJ
31/05/21	4	AWNING OVER AMMONIA VESSELS ADDED, BLOCK WORK TO MCC & UNDER PLATE FREEZER STRUCTURAL SLAB SHOWN, GENERAL REVISION	AJ

Date	Issue	Amendment	Init
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WAGGA WAGGA, NSW
Drawing Title
PLATE FREEZER ELEVATIONS - NORTH & SOUTH

Scale A1 = 1:100 (A3 = 1: 200) 0 1000 2000

Drawn AJ Date APR 2021

Project No. W25813 Bldg No. 35

Drawing No. Issue

35A202 - 11

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ORIGINAL IN COLOUR

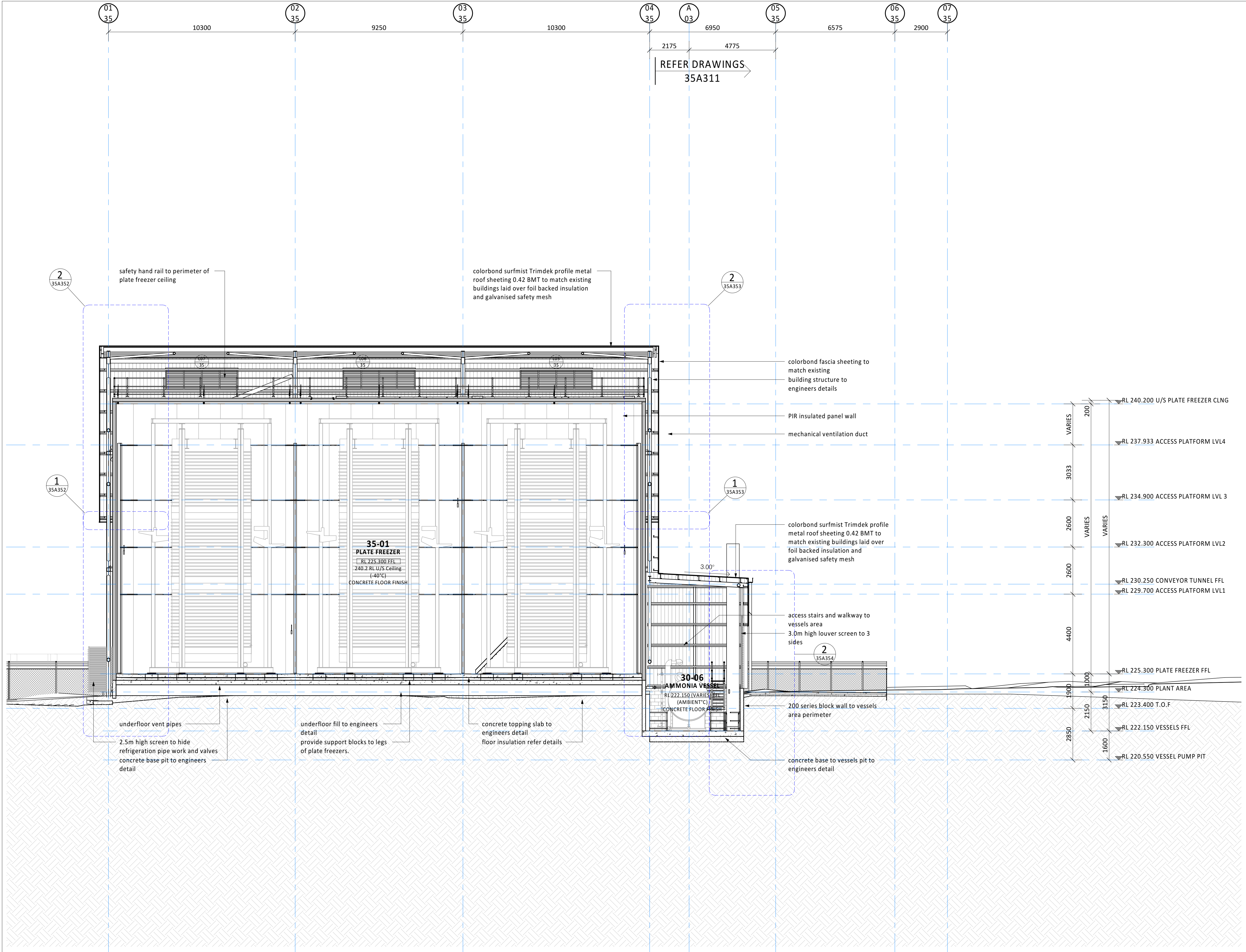
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1 SECTION
35A101
A1 = 1 : 100

Plot Date :5/11/2021 4:15:08 PM



1
35A101

SECTION
A1 = 1 : 100

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Date	Issue	Amendment	Init
05/11/21	5	NOTES ADDED/ REVISED	AJ
19/10/21	4	FOR CLIENT REVIEW	AJ
06/10/21	3	FOR CLIENT REVIEW	AJ
05/10/21	2	ISSUED TO MPN	AJ
24/09/21	1	ISSUE FOR REVIEW	AJ

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FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title
PLATE FREEZER SECTION

Scale A1= 1:100 (A3=1: 200) 0 1000 2000

Drawn AJ Date SEPT 2021

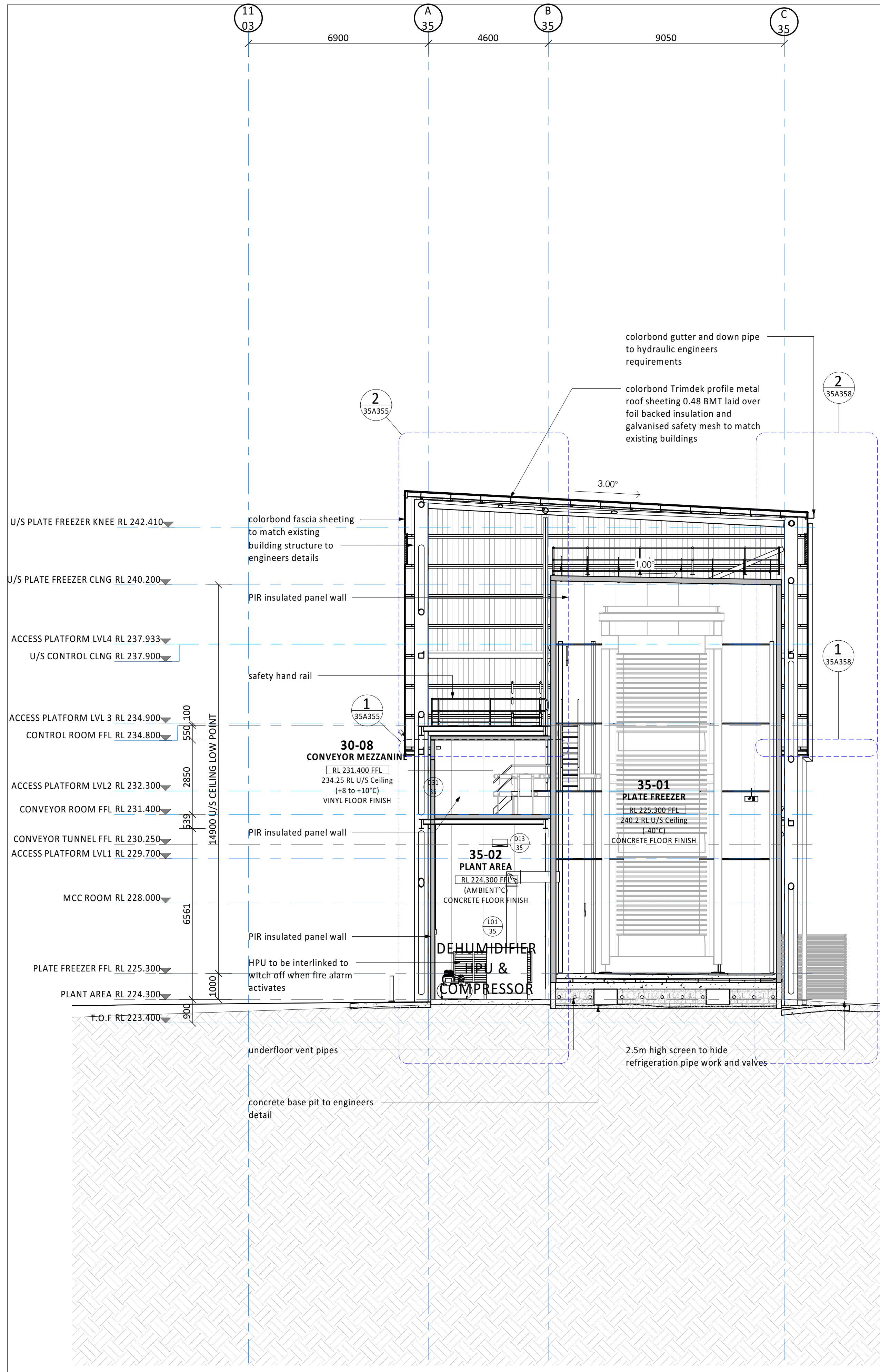
Project No. W25813 Bldg No. 35

Drawing No. Issue

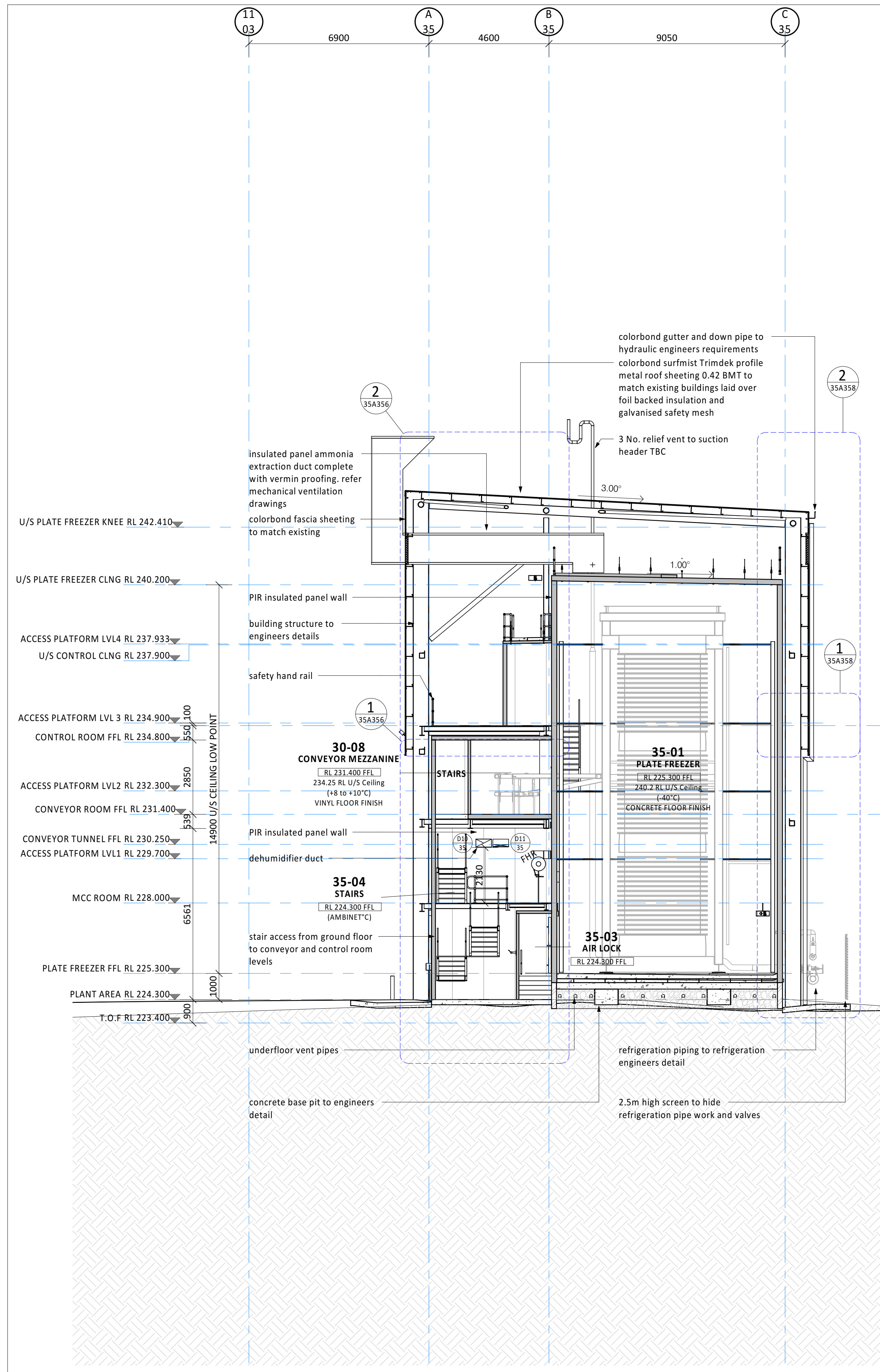
35A303 - 5

NOT FOR CONSTRUCTION

ADVICE ♦ DESIGN ♦ ENGINEERING ♦ CONSTRUCTION



1 SECTION
A1 = 1 : 100



2 SECTION
A1 = 1 : 100


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Date	Issue	Amendment	Init
05/11/21	5	NOTES ADDED/ REVISED	AJ
19/10/21	4	FOR CLIENT REVIEW	AJ
06/10/21	3	FOR CLIENT REVIEW	AJ
05/10/21	2	ISSUED TO MPN	AJ
24/09/21	1	ISSUE FOR REVIEW	AJ

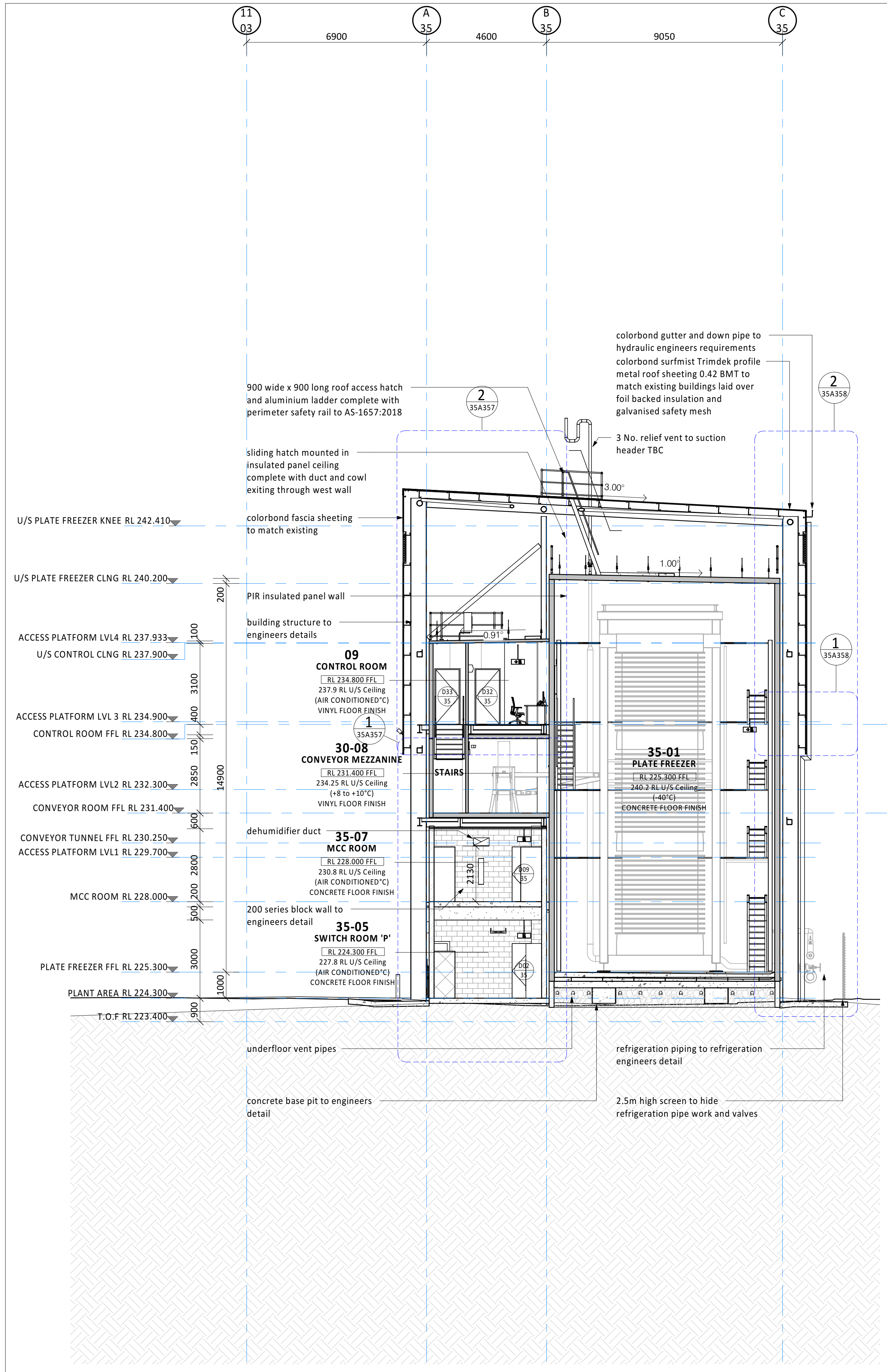
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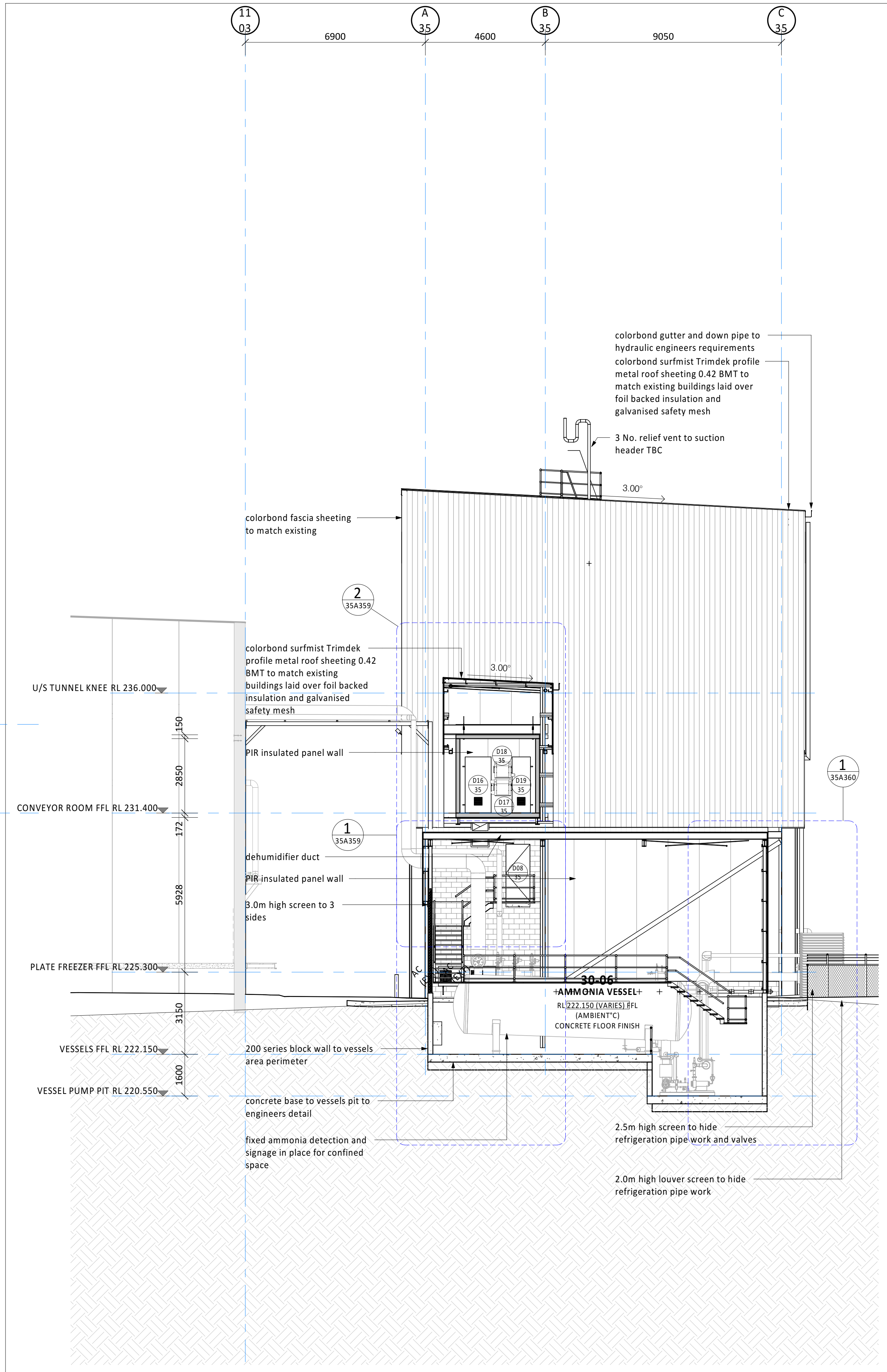
Project
TEYS
TEYS AUSTRALIA - PLATE
FREEZER PROJECT
WAGGA WAGGA, NSW
Drawing Title
PLATE FREEZER SECTION

Scale	A1 = 1: 100 (A3 = 1: 200)	0 1000 2000 
Drawn	AJ	Date SEPT 2021
Project No. W25813	Bldg No. 35	
Drawing No.	Issue	

35A304 - 5
NOT FOR CONSTRUCTION



1 SECTION
A1 = 1 : 100



2 SECTION
A1 = 1 : 100

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05/11/21	5	NOTES ADDED/ REVISED	AJ
19/10/21	4	FOR CLIENT REVIEW	AJ
06/10/21	3	FOR CLIENT REVIEW	AJ
05/10/21	2	ISSUED TO MPN	AJ
24/09/21	1	ISSUE FOR REVIEW	AJ

Date	Issue	Amendment	Init
05/11/21	5	NOTES ADDED/ REVISED	AJ
19/10/21	4	FOR CLIENT REVIEW	AJ
06/10/21	3	FOR CLIENT REVIEW	AJ
05/10/21	2	ISSUED TO MPN	AJ
24/09/21	1	ISSUE FOR REVIEW	AJ

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FREEZER PROJECT
WAGGA WAGGA, NSW
Drawing Title
PLATE FREEZER & VESSEL
SECTION

Scale A1= 1:100 (A3= 1: 200) 0 1000 2000

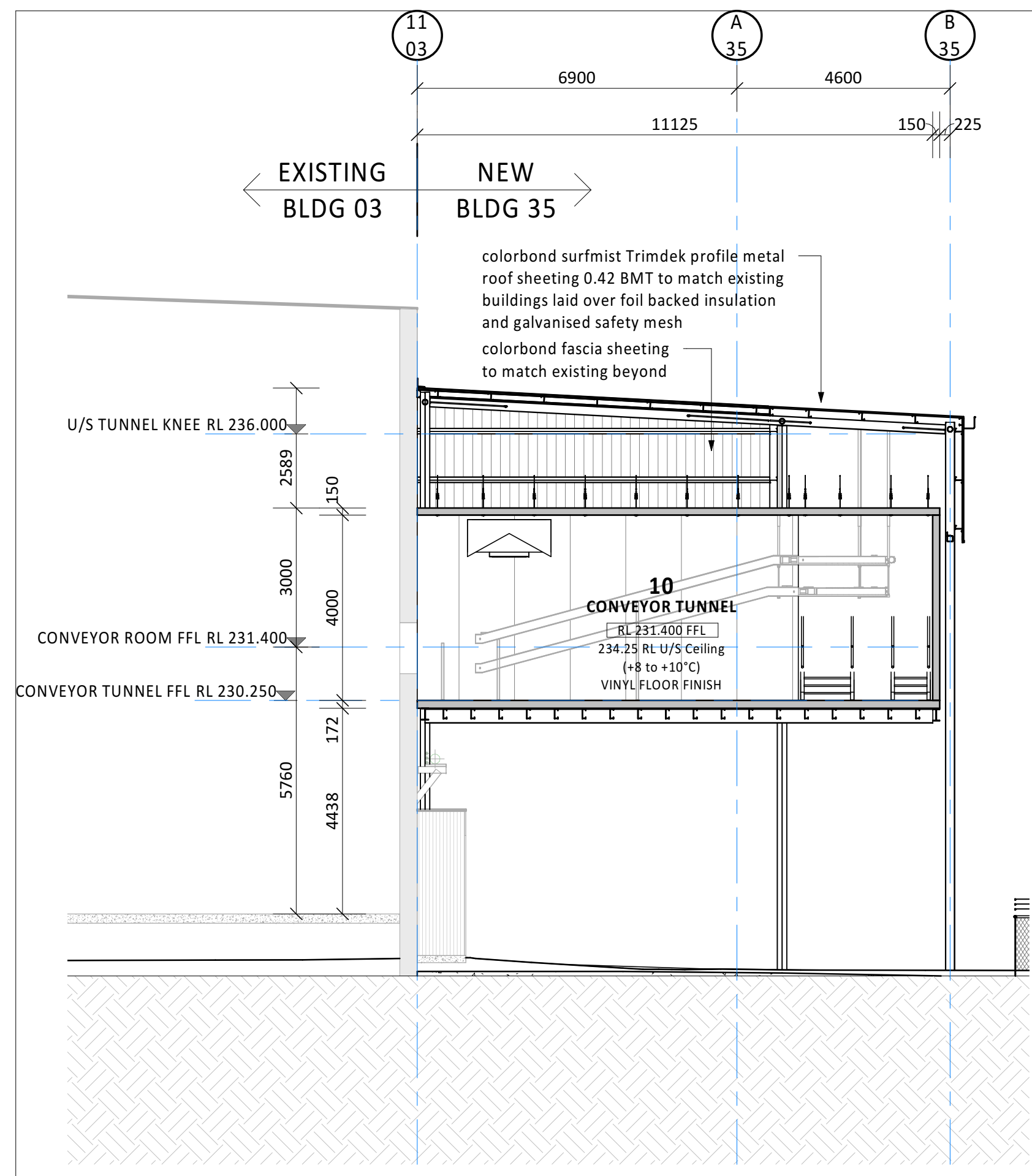
Drawn AJ Date SEPT 2021

Project No. W25813 Bldg No. 35

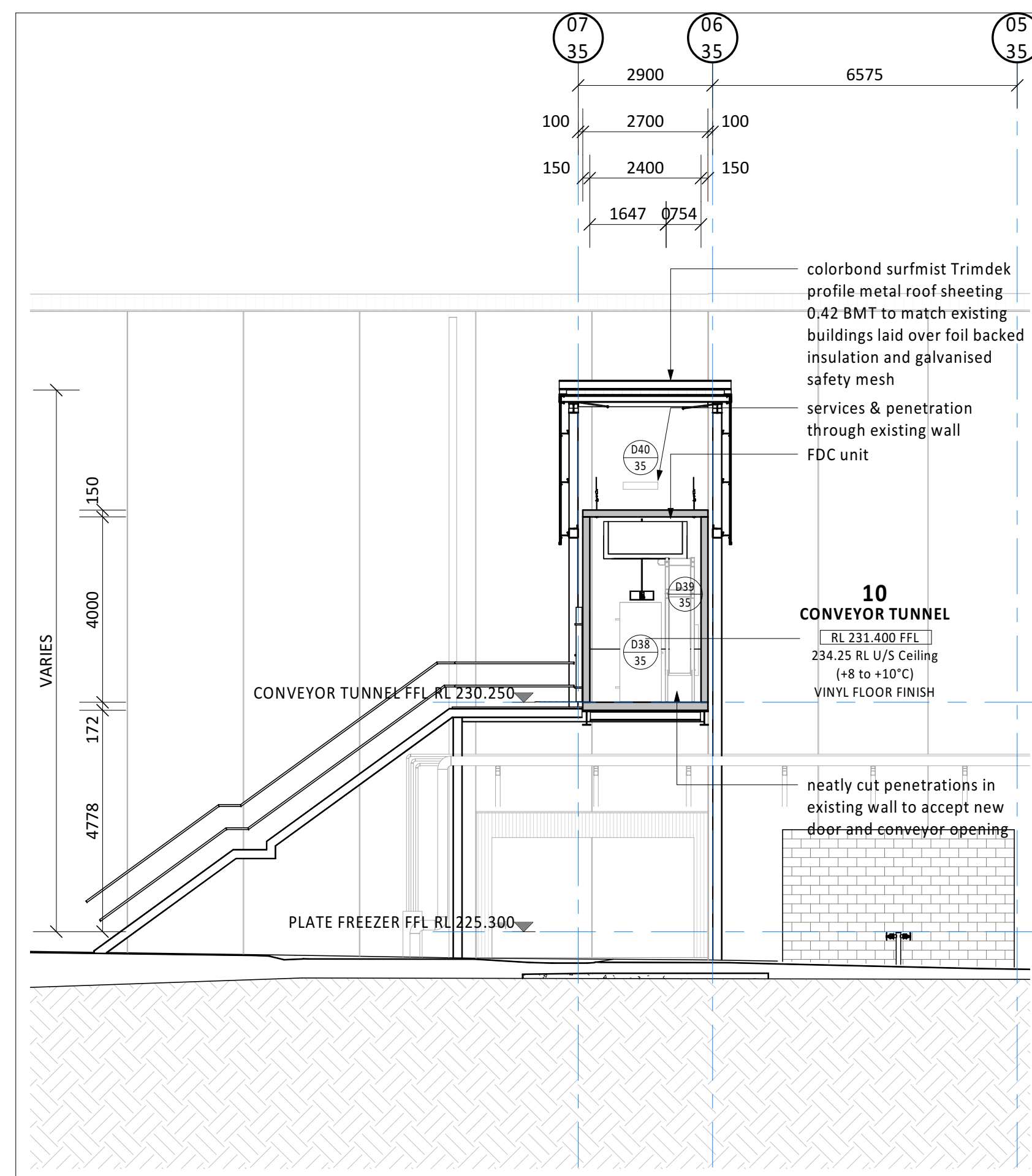
Drawing No. Issue

35A305 - 5

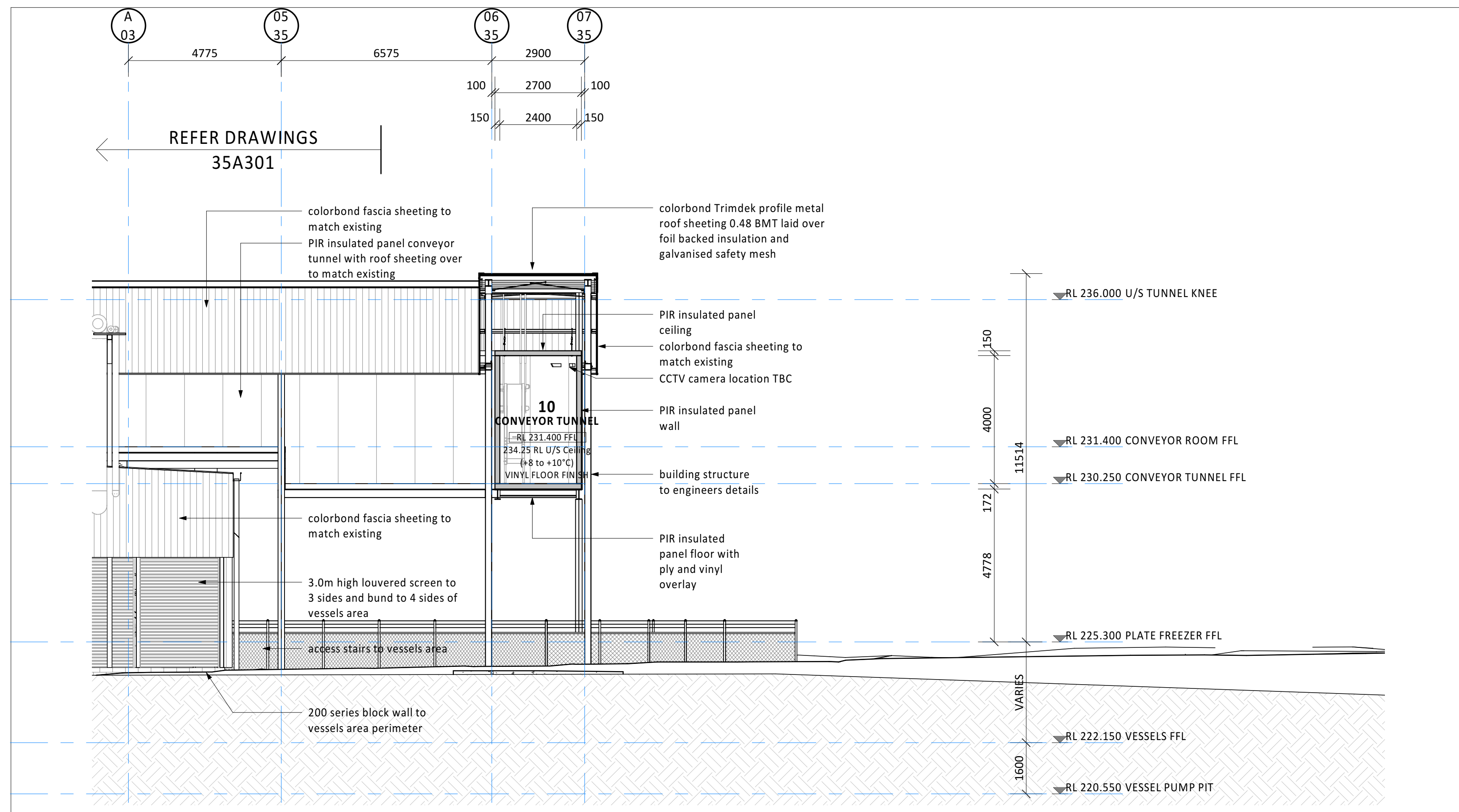
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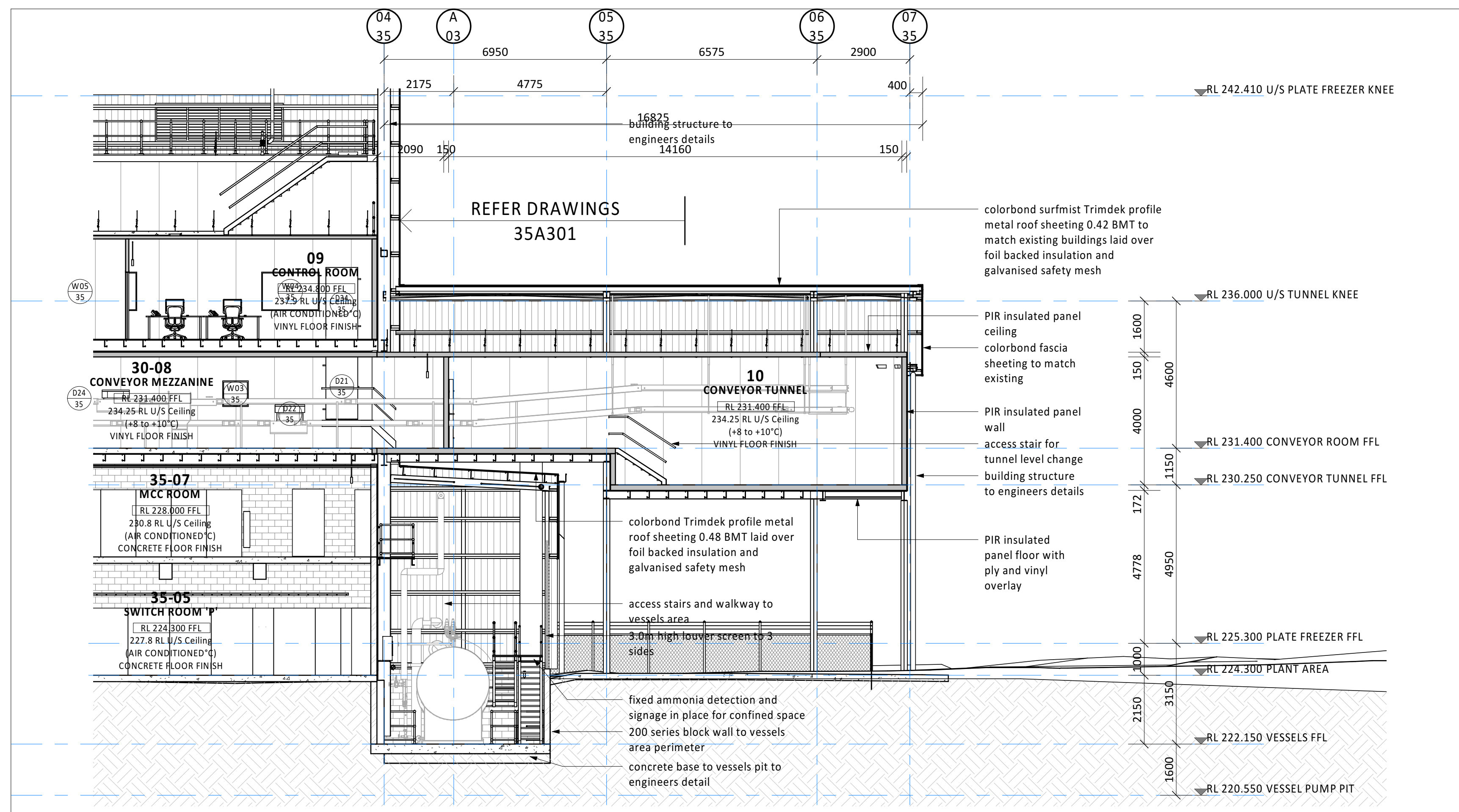
1 LONG SECTION
A1 = 1 : 100



3 SECTION AT GRID 11-03
35A111 A1 = 1 : 100



SECTION AT GRID A-35
A1 = 1 : 100



4 SECTION AT GRID B-35
A1 = 1 : 100

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05/11/21	10	NOTES ADDED/ REVISED	AJ
19/10/21	9	FOR CLIENT REVIEW	AJ
06/10/21	8	FOR CLIENT REVIEW	AJ
05/10/21	7	ISSUED TO MPN	AJ
24/09/21	6	ISSUE FOR REVIEW	AJ
21/06/21	5	CEILING SPACE ACCESS LADDERS NOW STAIRS	AJ
11/06/21	4	VESSEL AREA REVISED	AJ
10/06/21	3	CONCEPT PHASE CLIENT SUBMISSION	AJ

Date	Issue	Amendment	Init
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FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title
CONVEYOR TUNNEL
SECTIONS

Scale A1 = 1:100 (A3 = 1:200) 0 1000 2000

Drawn	AJ	Date	MAY 2021
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Project No. W25813	Bldg No. 35
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Drawing No.	Issue
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35A311 - 10

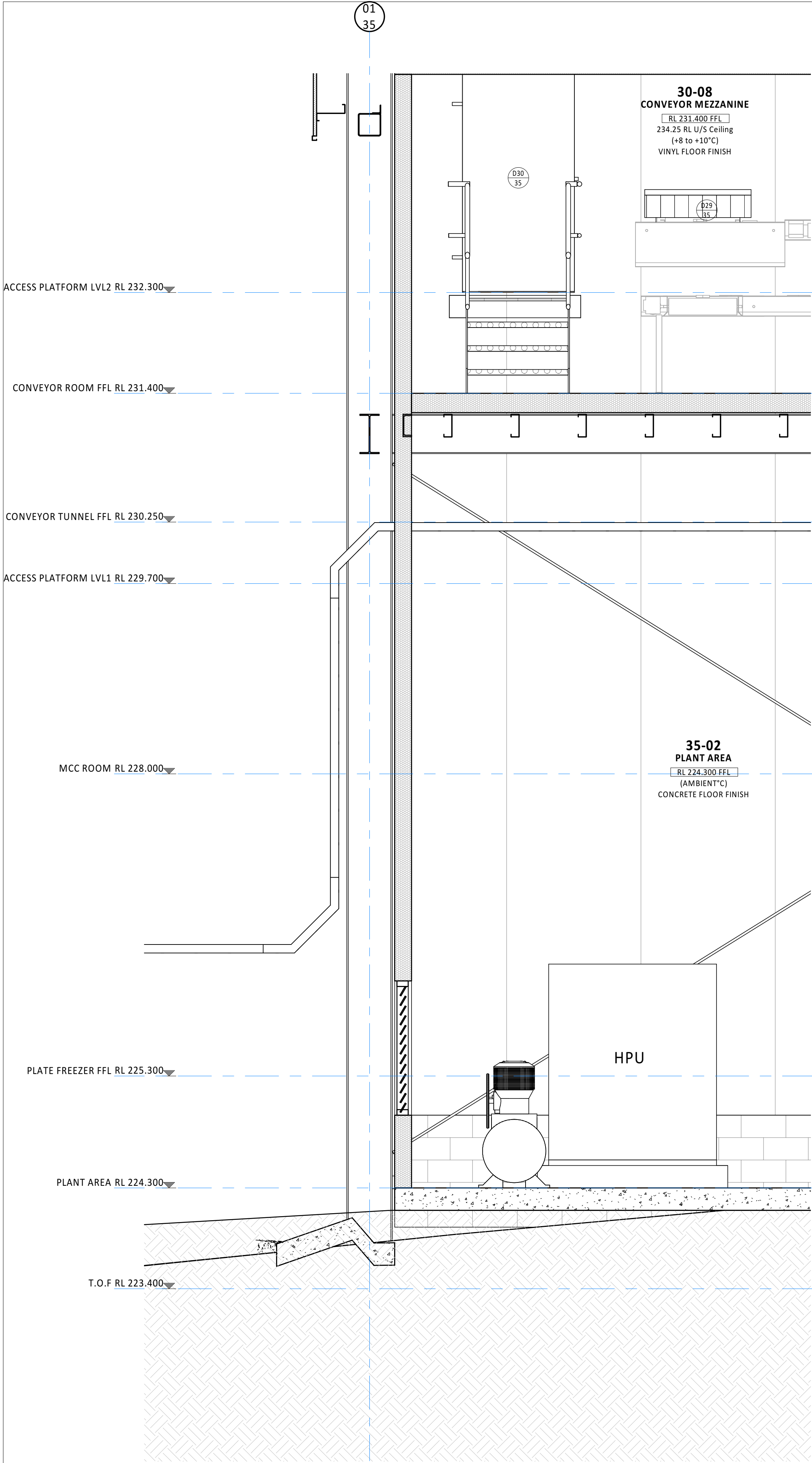
NOT FOR CONSTRUCTION

Plot Date : 5/11/2021 4:20:14 PM

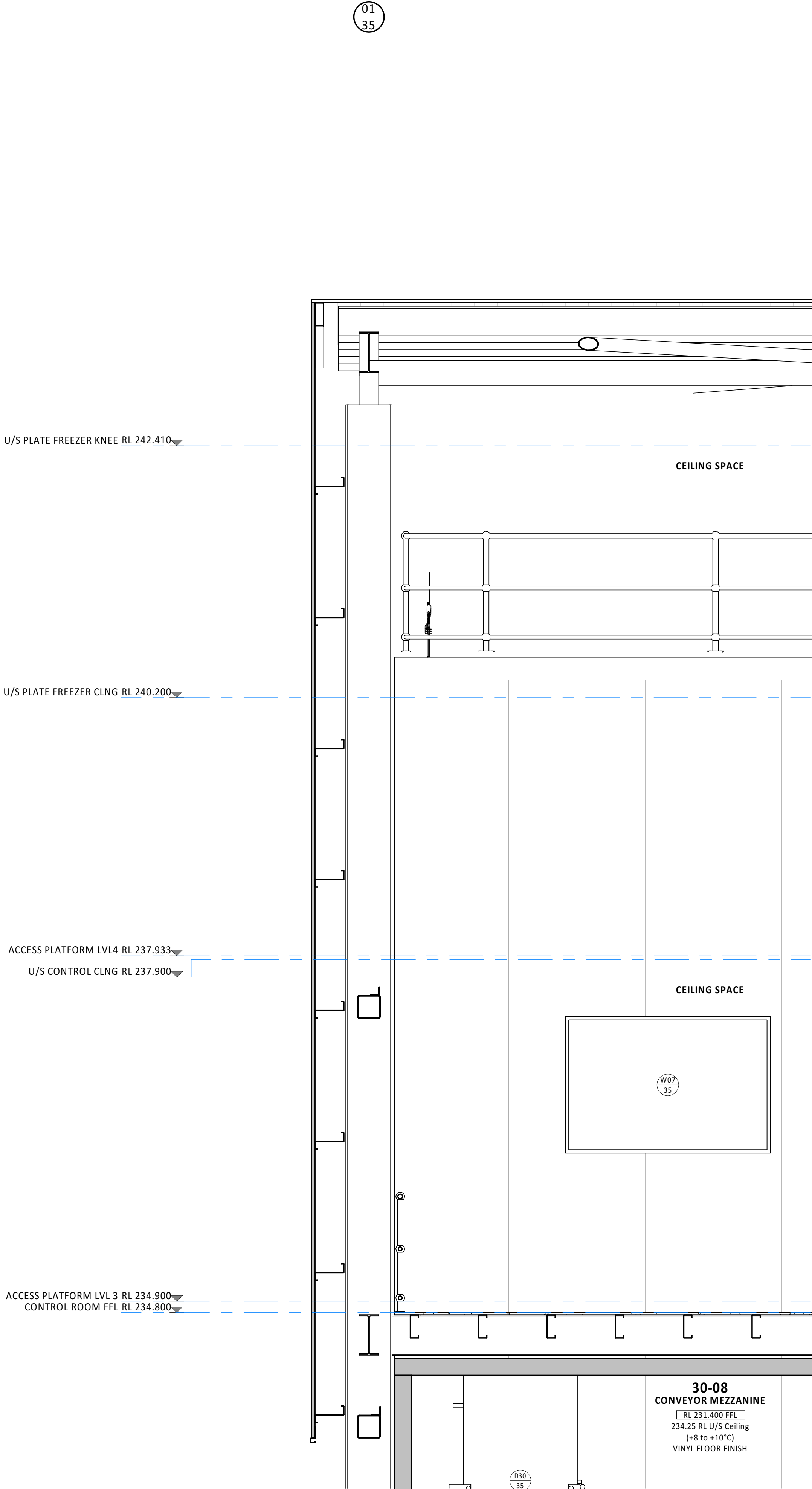
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ADVICE ♦ DESIGN ♦ ENGINEERING ♦ CONSTRUCTION

Plot Date :5/11/2021 4:20:52 PM



1 PLANT AREA GRID 1 BOTTOM
A1 = 1 : 25



2 PLANT AREA GRID 1 TOP
A1 = 1 : 25

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05/11/21	4	WINDOW SHOWN	AJ
06/10/21	3	FOR CLIENT REVIEW	AJ
05/10/21	2	ISSUED TO MPN	AJ
24/09/21	1	ISSUE FOR REVIEW	AJ
Date	Issue	Amendment	Init

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TEYS AUSTRALIA - PLATE
FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title
**PLANT AREA GRID 1
THROUGH WALL
SECTIONS**

Scale A1= 1:25 (A3=1: 50) 0 250 500

Drawn A.J. Date SEPT 2021

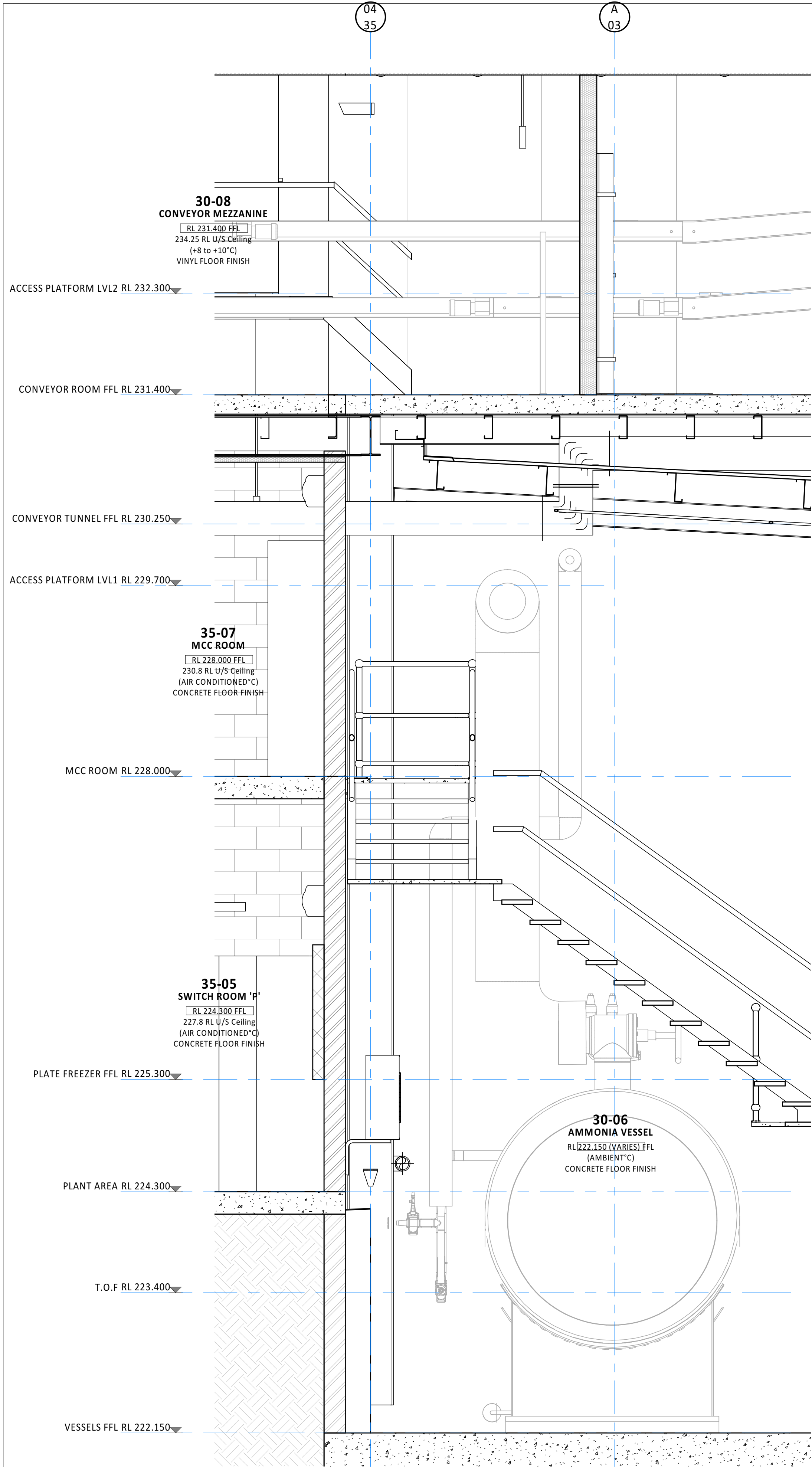
Project No. W25813 Bldg No. 35

Drawing No. Issue

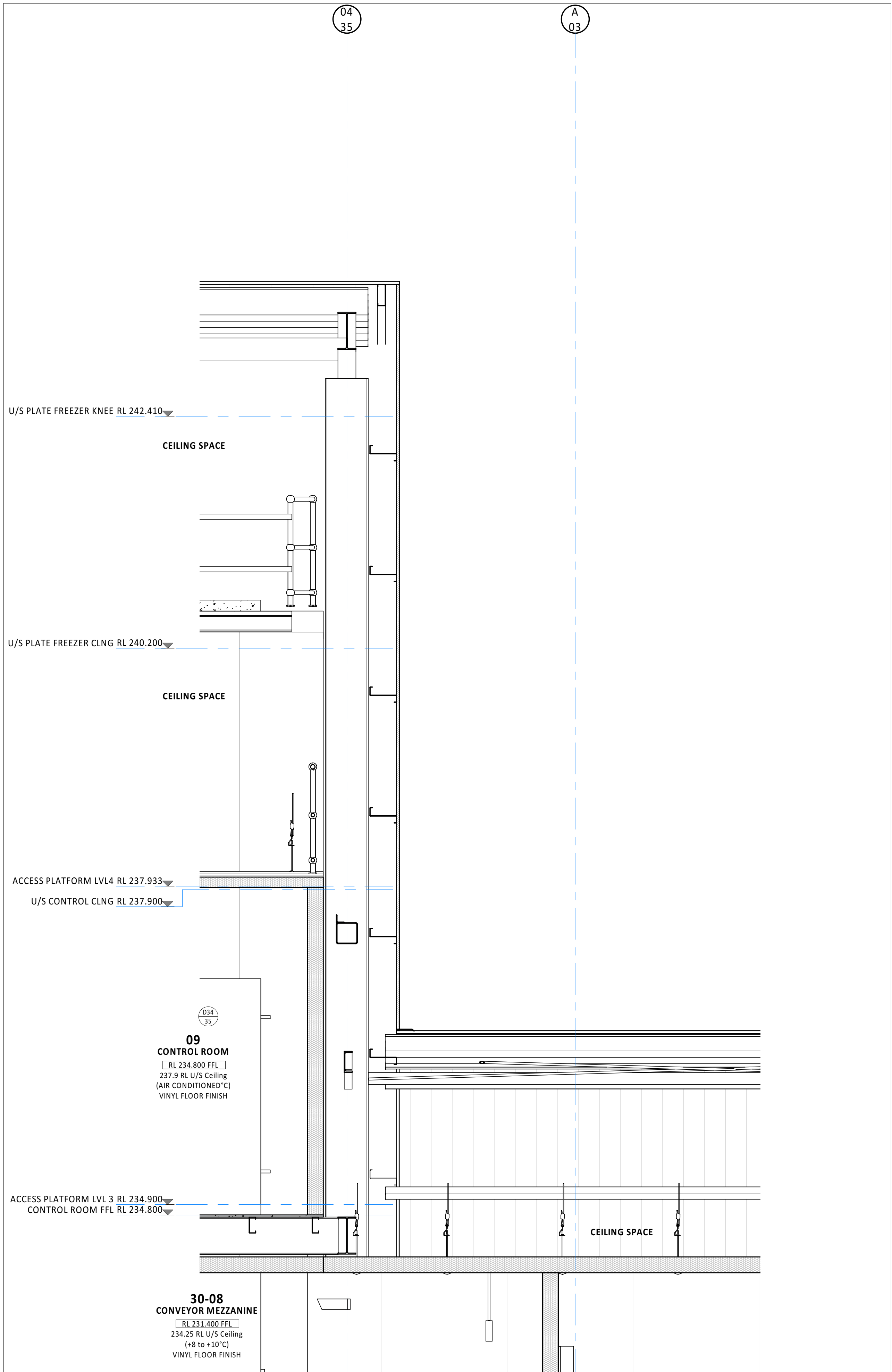
35A350 - 4

NOT FOR CONSTRUCTION

Plot Date :5/11/2021 4:21:27 PM



1 MCC SWITCH ROOM & VESSEL GRID 4 BOTTOM
A1 = 1 : 25



2 MCC SWITCH ROOM & VESSEL GRID 4 TOP
A1 = 1 : 25

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05/11/21	4	VESSEL & WALKWAY REVISED	AJ
06/10/21	3	FOR CLIENT REVIEW	AJ
05/10/21	2	ISSUED TO MPN	AJ
24/09/21	1	ISSUE FOR REVIEW	AJ
Date	Issue	Amendment	Init

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FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title
MCC SWITCH ROOM &
VESSEL GRID 4 THROUGH
WALL SECTIONS

Scale A1= 1:25 (A3= 1: 50) 0 250 500

Drawn AJ Date SEPT 2021

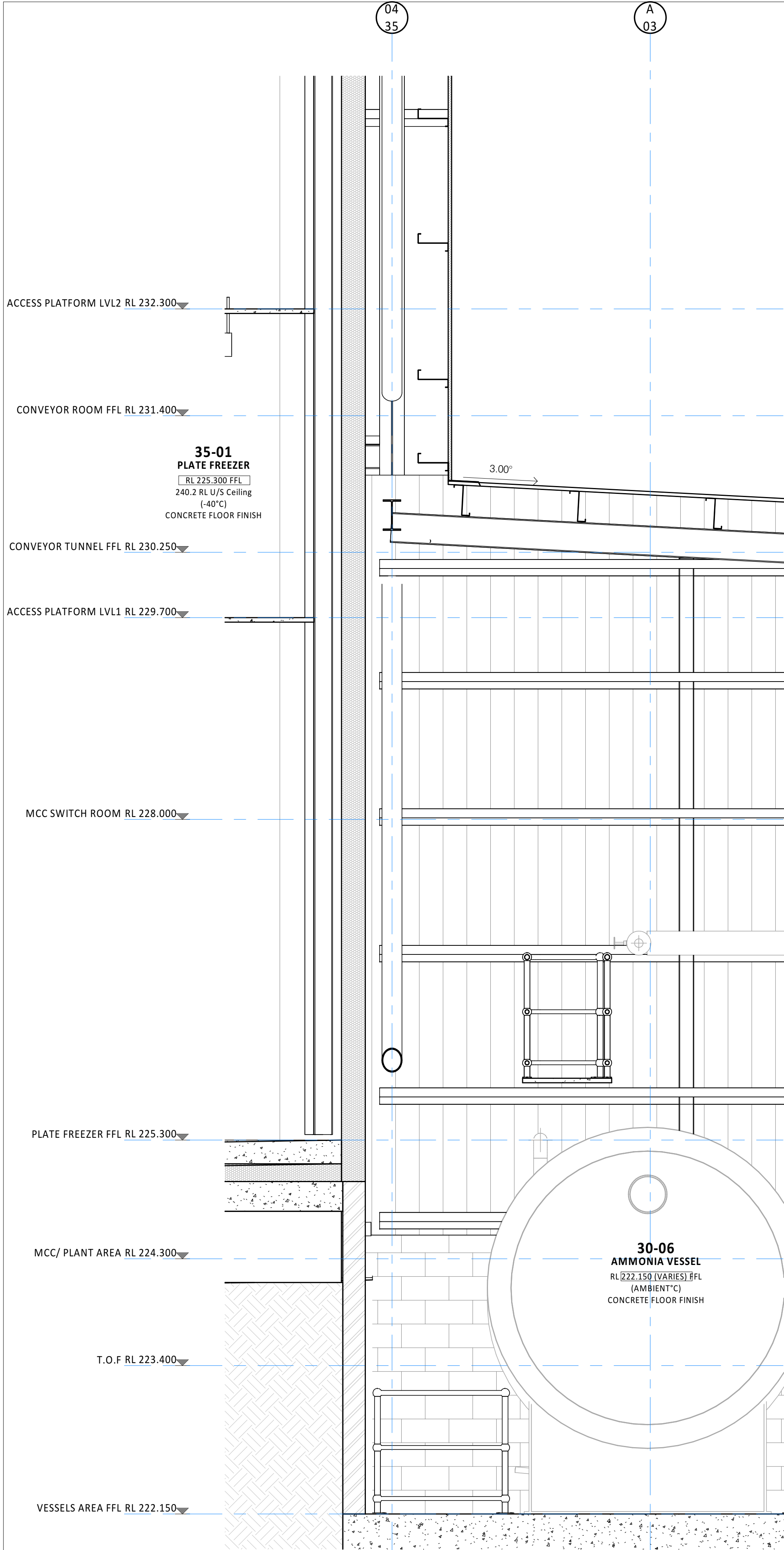
Project No. W25813 Bldg No. 35

Drawing No. Issue

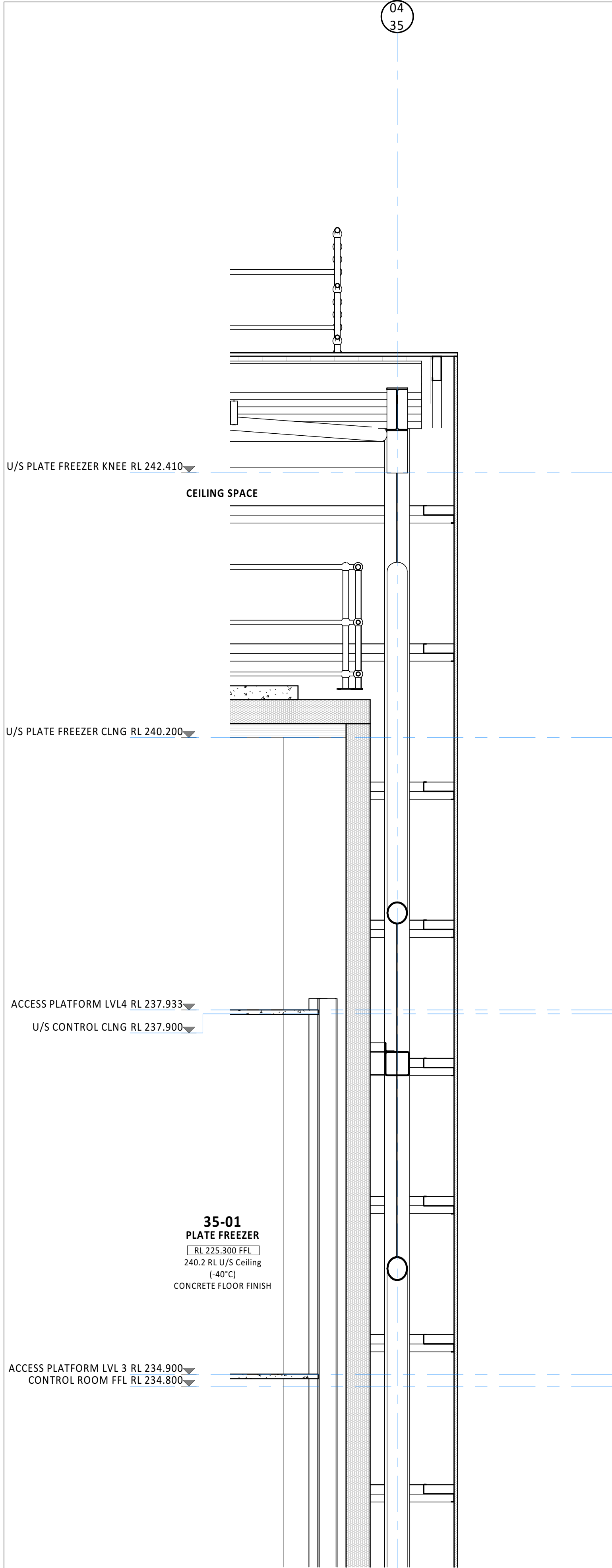
35A351 - 4

NOT FOR CONSTRUCTION

Plot Date :6/10/2021 4:18:17 PM



1 PLATE FREEZER & VESSEL GRID 4 BOTTOM
A1 = 1 : 25



2 PLATE FREEZER GRID 4 TOP
A1 = 1 : 25

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06/10/21	3	FOR CLIENT REVIEW	AJ
05/10/21	2	ISSUED TO MPN	AJ
24/09/21	1	ISSUE FOR REVIEW	AJ
Date	Issue	Amendment	Init

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TEYS AUSTRALIA - PLATE
FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title
**PLATE FREEZER & VESSEL
GRID 4 THROUGH WALL
SECTIONS**

Scale A1= 1:25 (A3=1: 50) 0 250 500 mm

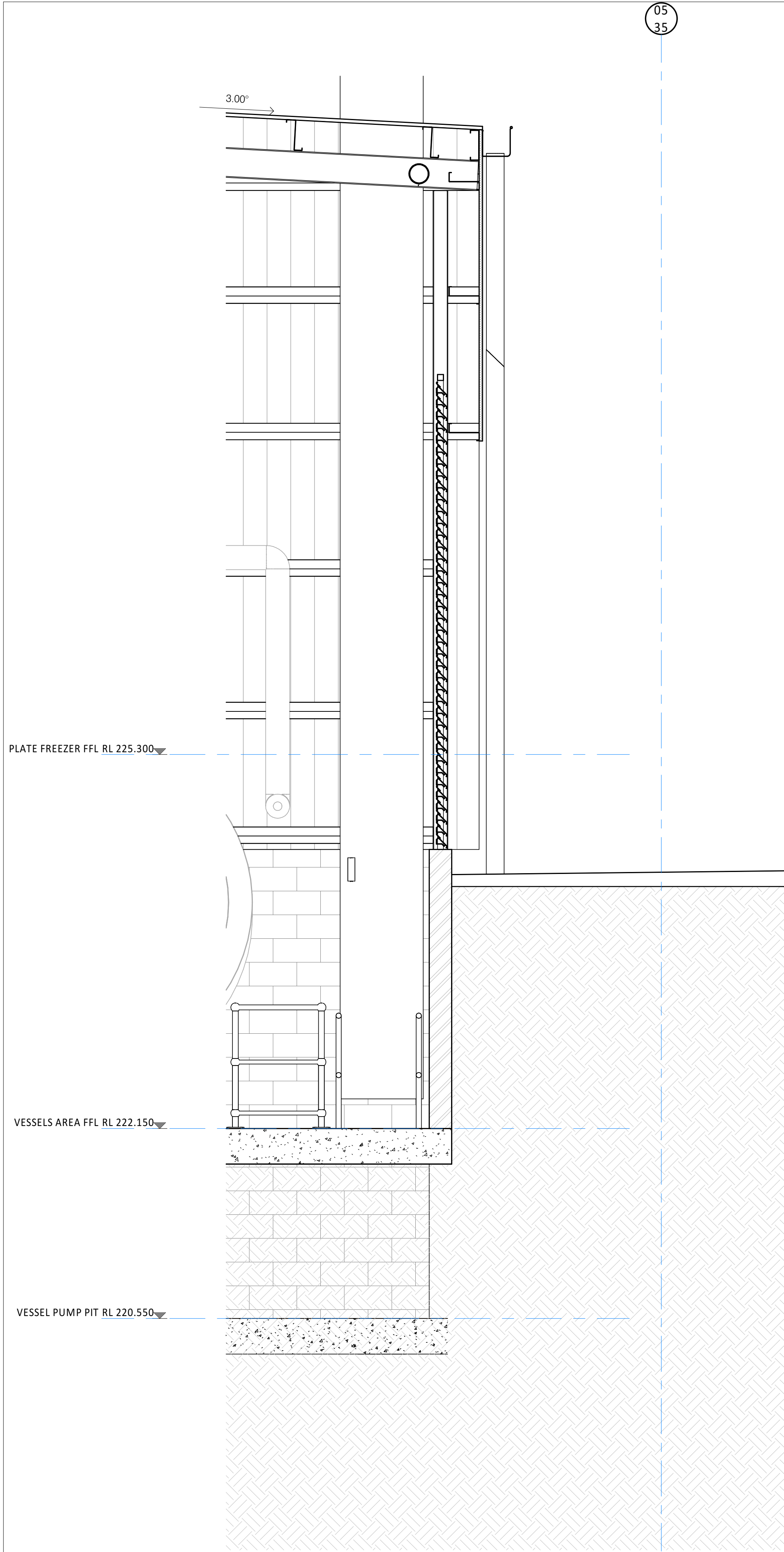
Drawn AJ Date SEPT 2021

Project No. W25813 Bldg No. 35

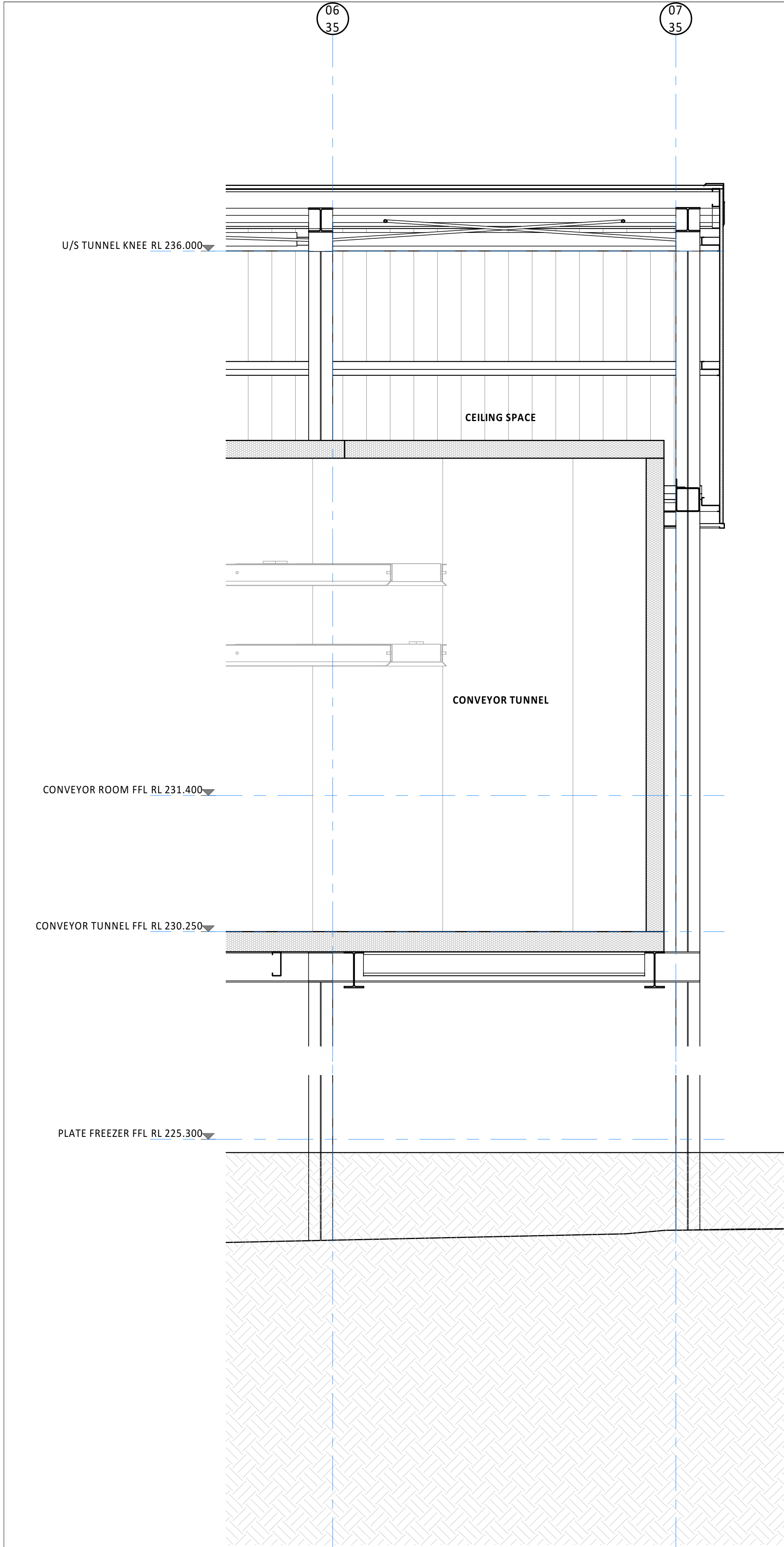
Drawing No. 35A353 - 3 Issue

35A353 - 3
NOT FOR CONSTRUCTION

Plot Date :6/10/2021 4:18:53 PM



2 PLATE FREEZER & VESSEL GRID 5 BOTTOM
A1 = 1 : 25



1 EAST WEST TUNNEL SECTION
A1 = 1 : 25

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06/10/21	3	FOR CLIENT REVIEW	AJ
05/10/21	2	ISSUED TO MPN	AJ
24/09/21	1	ISSUE FOR REVIEW	AJ
Date	Issue	Amendment	Init

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TEYS AUSTRALIA - PLATE
FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title
**PLATE FREEZER & VESSEL
CONVEYOR TUNNEL GRID
5 THROUGH WALL
SECTIONS**

Scale A1= 1: 25 (A3= 1: 50) 0 250 500 mm

Drawn AJ Date SEPT 2021

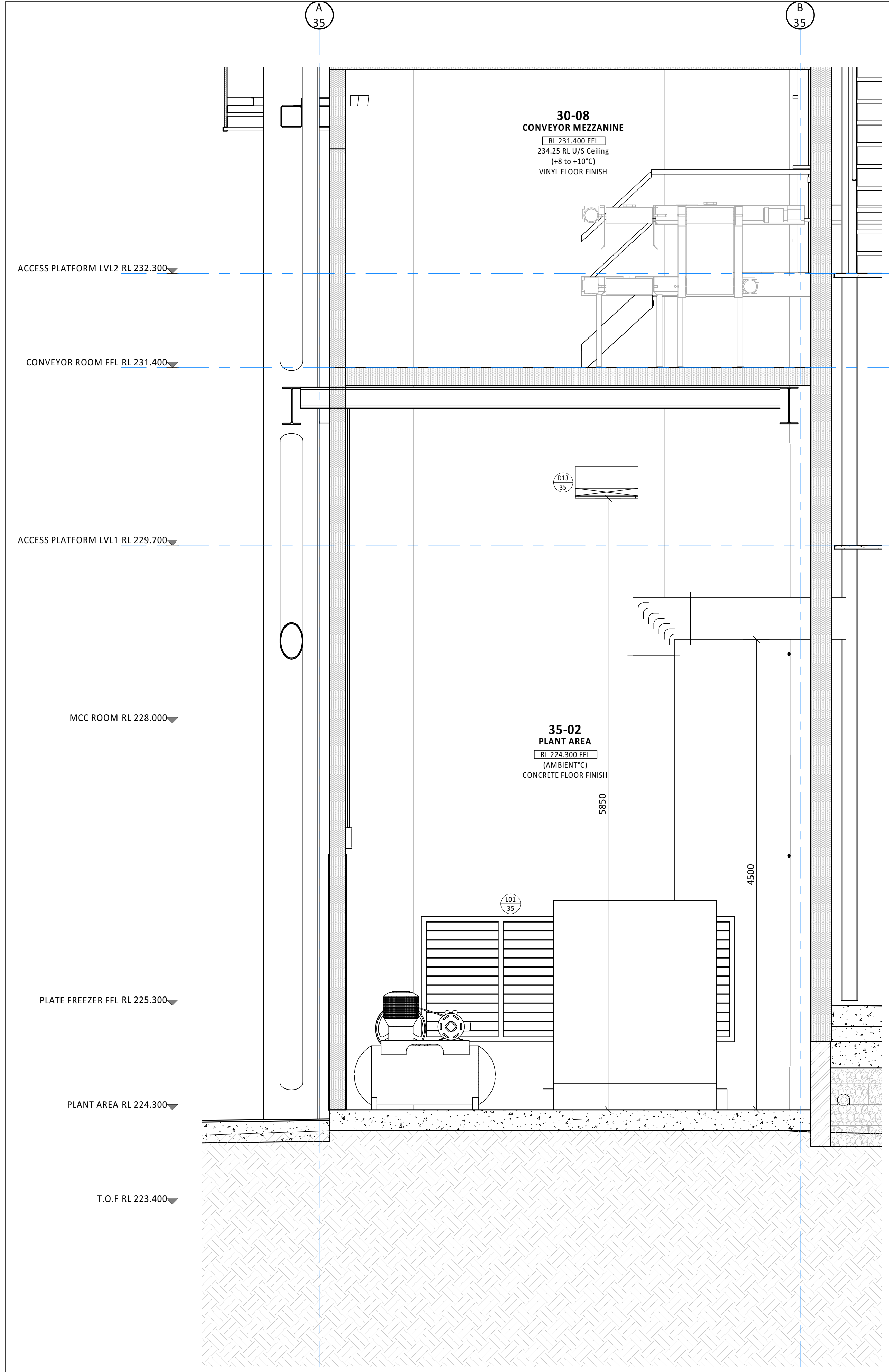
Project No. W25813 Bldg No. 35

Drawing No. Issue

35A354 - 3

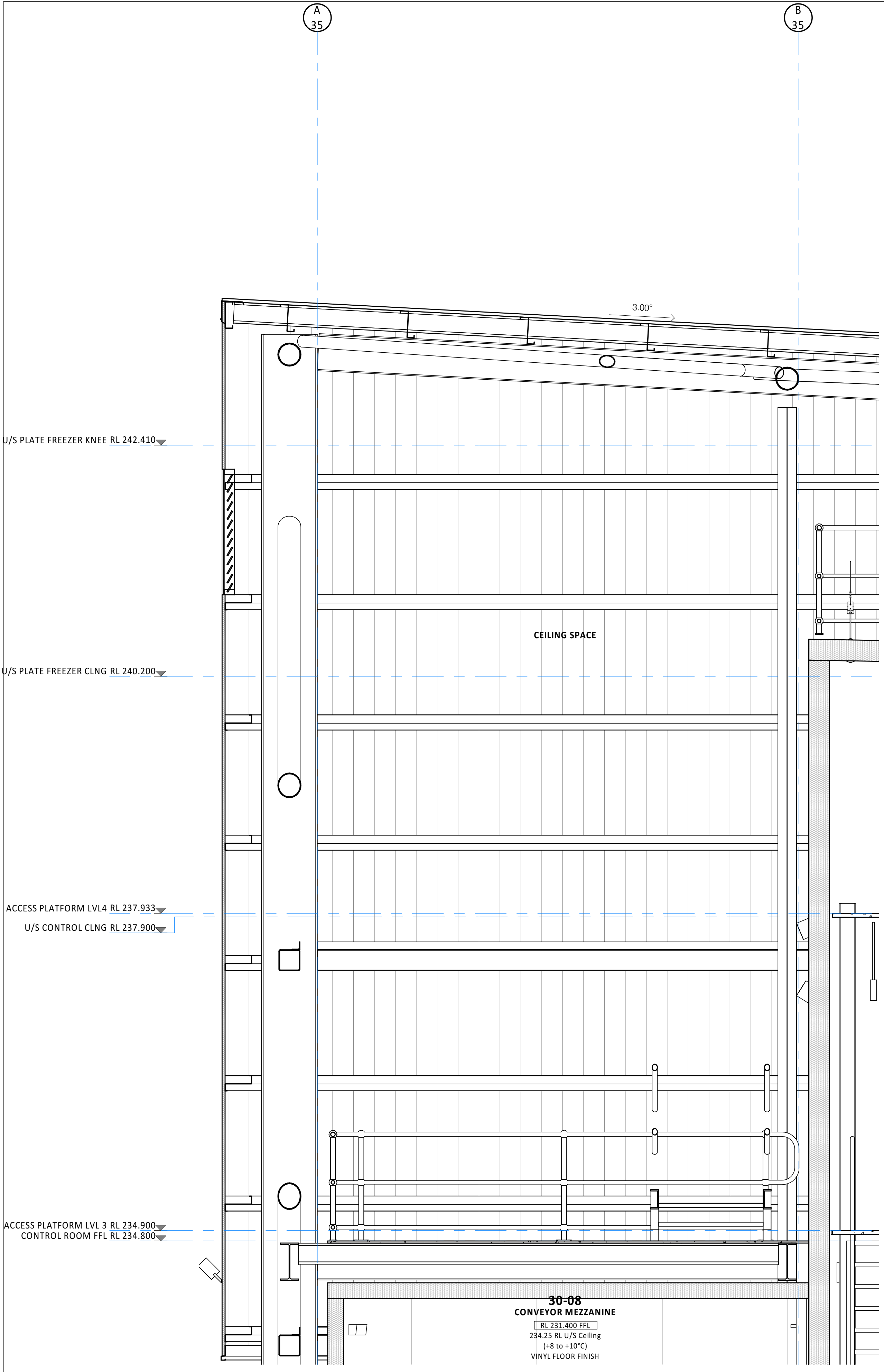
NOT FOR CONSTRUCTION

Plot Date :5/11/2021 4:23:05 PM



1
35A304

PLANT AREA GRID 'A' BOTTOM
A1 = 1 : 25



2
35A304

PLANT AREA GRID 'A' TOP
A1 = 1 : 25

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05/10/21	2	ISSUED TO MPN	AJ
24/09/21	1	ISSUE FOR REVIEW	AJ
Date	Issue	Amendment	Init

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FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title

PLANT AREA GRID 'A'
THROUGH WALL
SECTIONS

Scale A1= 1:25 (A3=1: 50) 0 250 500

Drawn AJ Date SEPT 2021

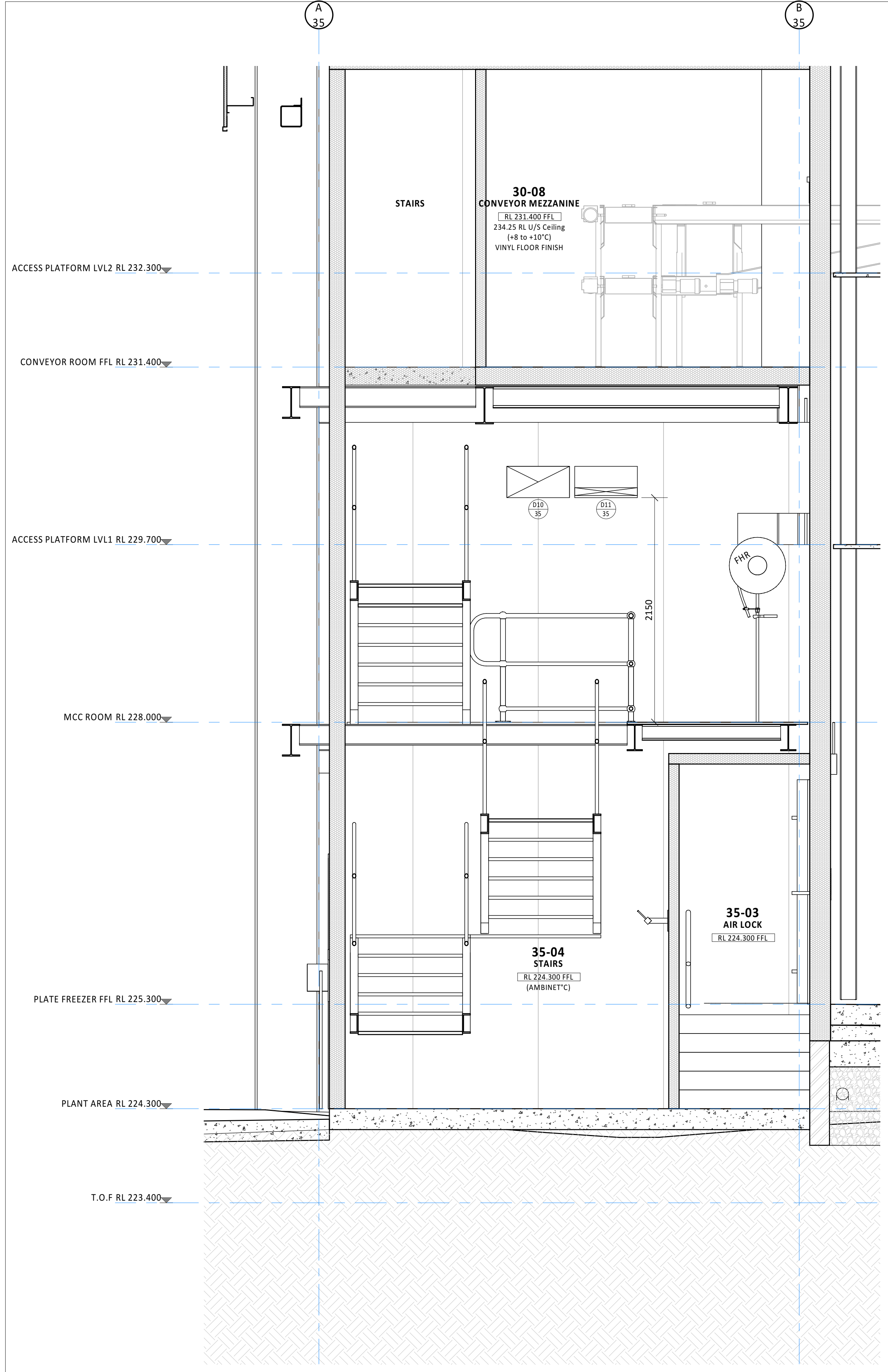
Project No. W25813 Bldg No. 35

Drawing No. Issue

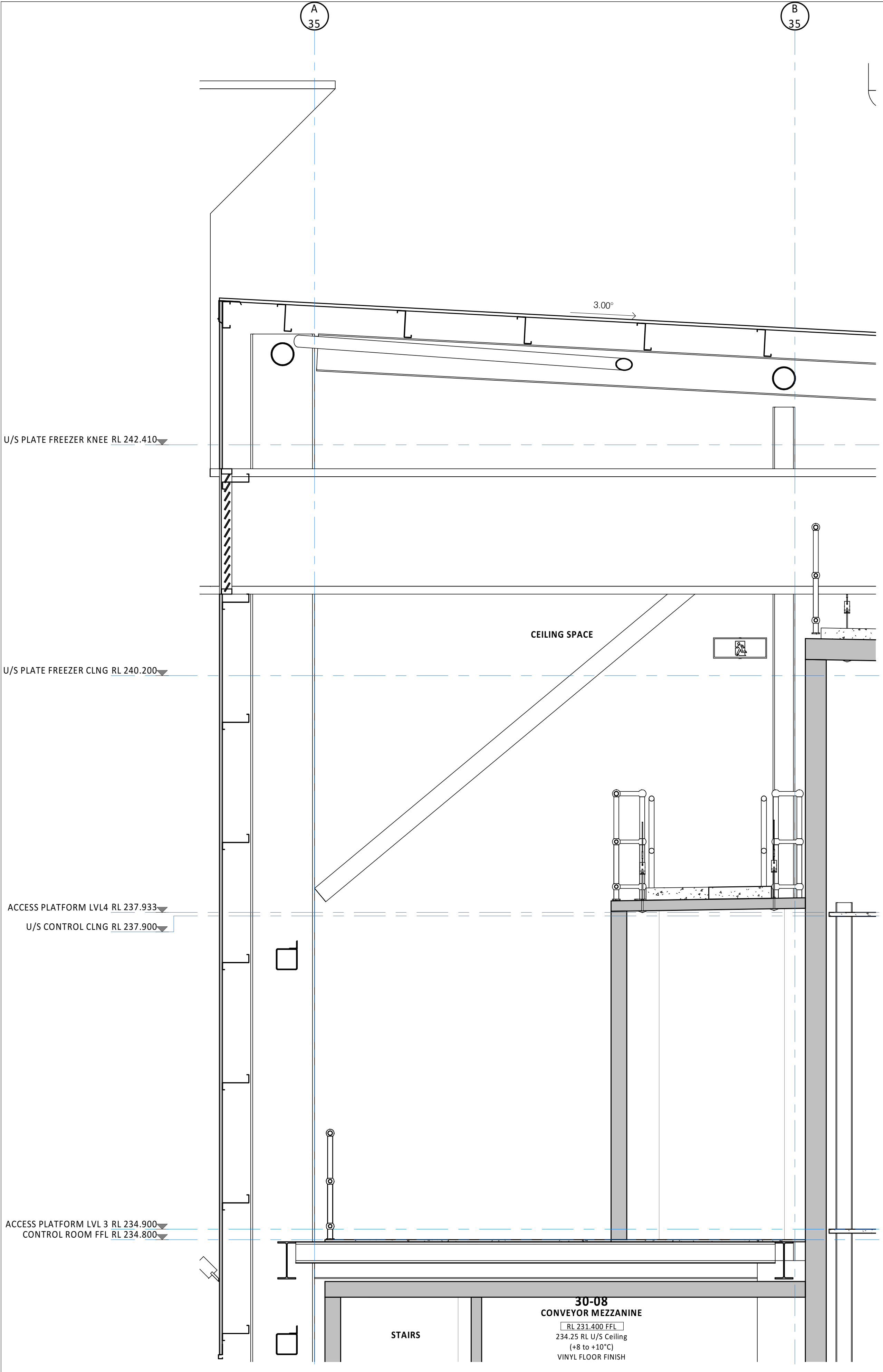
35A355 - 4

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Plot Date :5/11/2021 4:23:41 PM



1 STAIRS GRID 'A' BOTTOM
A1 = 1 : 25



2 STAIRS GRID 'A' TOP
A1 = 1 : 25

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Date	Issue	Amendment	Init

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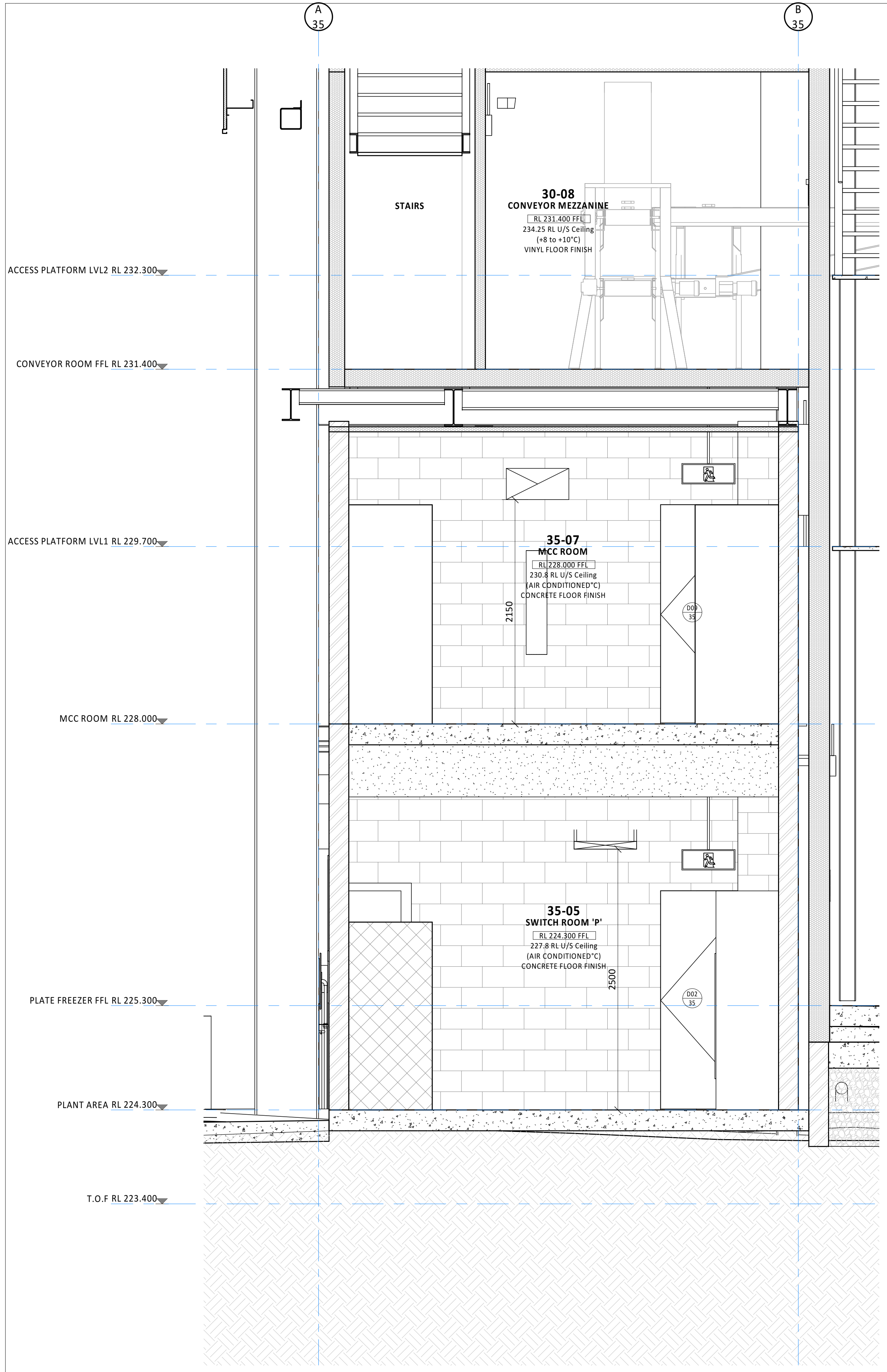
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TEYS AUSTRALIA - PLATE
FREEZER PROJECT
WAGGA WAGGA, NSW
Drawing Title
**STAIR AREA GRID 'A'
THROUGH WALL
SECTIONS**

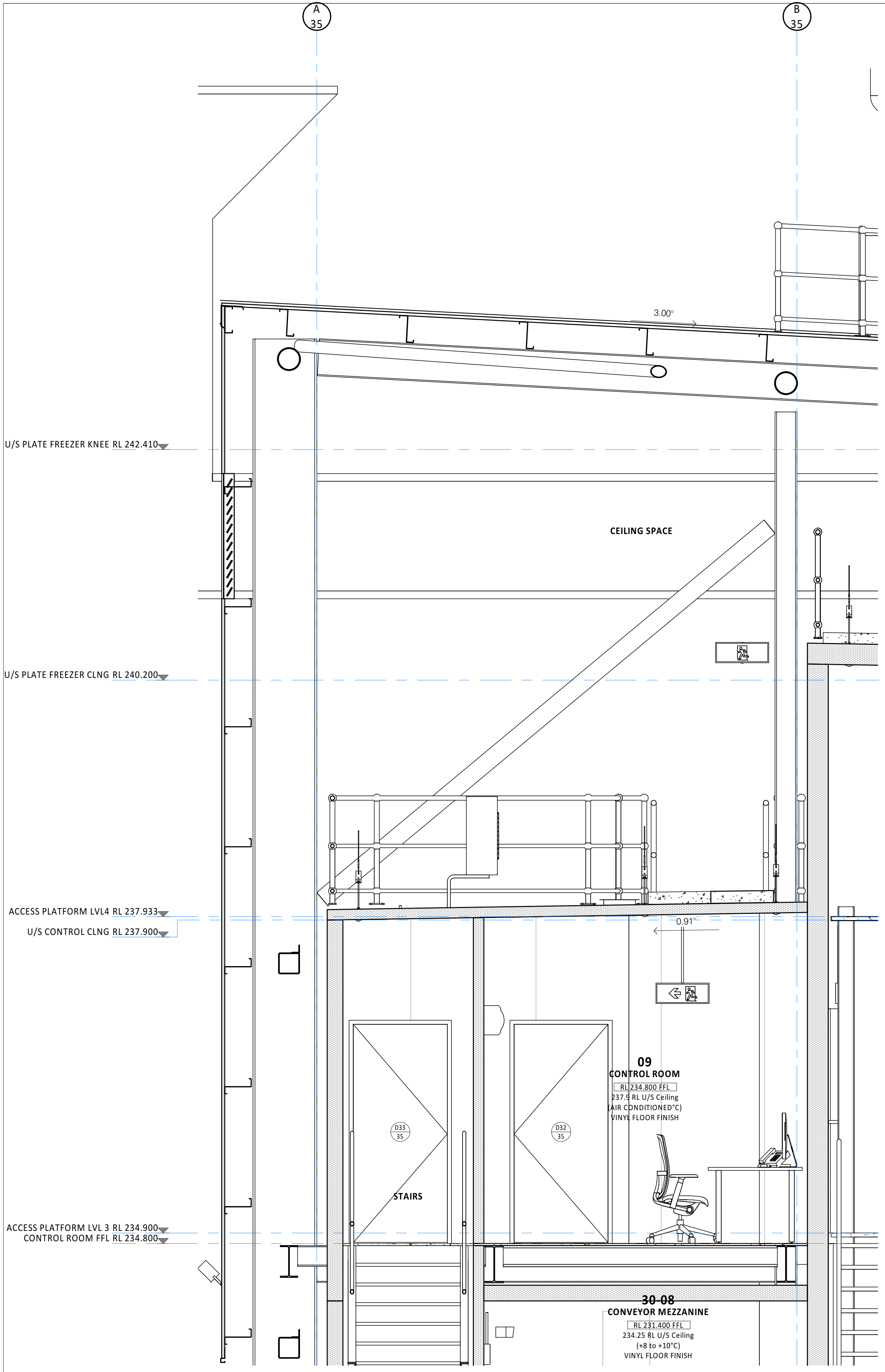
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Drawn	AJ	Date SEPT 2021
Project No.	W25813	Bldg No. 35
Drawing No.		Issue

35A356 - 4
NOT FOR CONSTRUCTION

Plot Date :5/11/2021 4:27:31 PM



1 MCC ROOMS GRID 'A' BOTTOM
A1 = 1 : 25



2 MCC ROOMS GRID 'A' TOP
A1 = 1 : 25

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TEYS AUSTRALIA - PLATE
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Drawing Title
MCC ROOMS & CONTROL
ROOM GRID 'A' THROUGH
WALL SECTIONS

Scale A1=1:25 (A3=1:50) 0 250 500

Drawn AJ Date SEPT 2021

Project No. W25813 Bldg No. 35

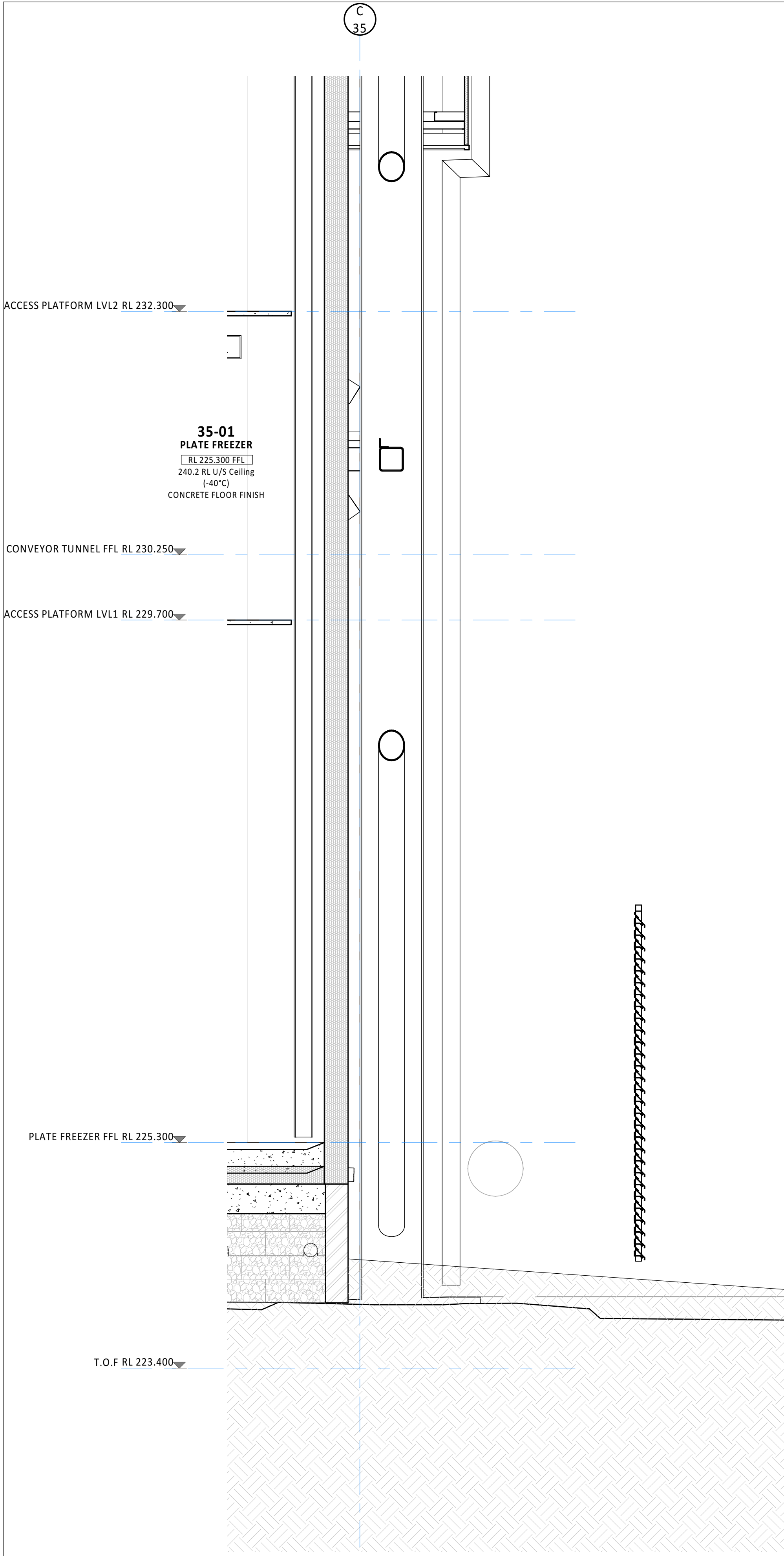
Drawing No. Issue

35A357 - 4

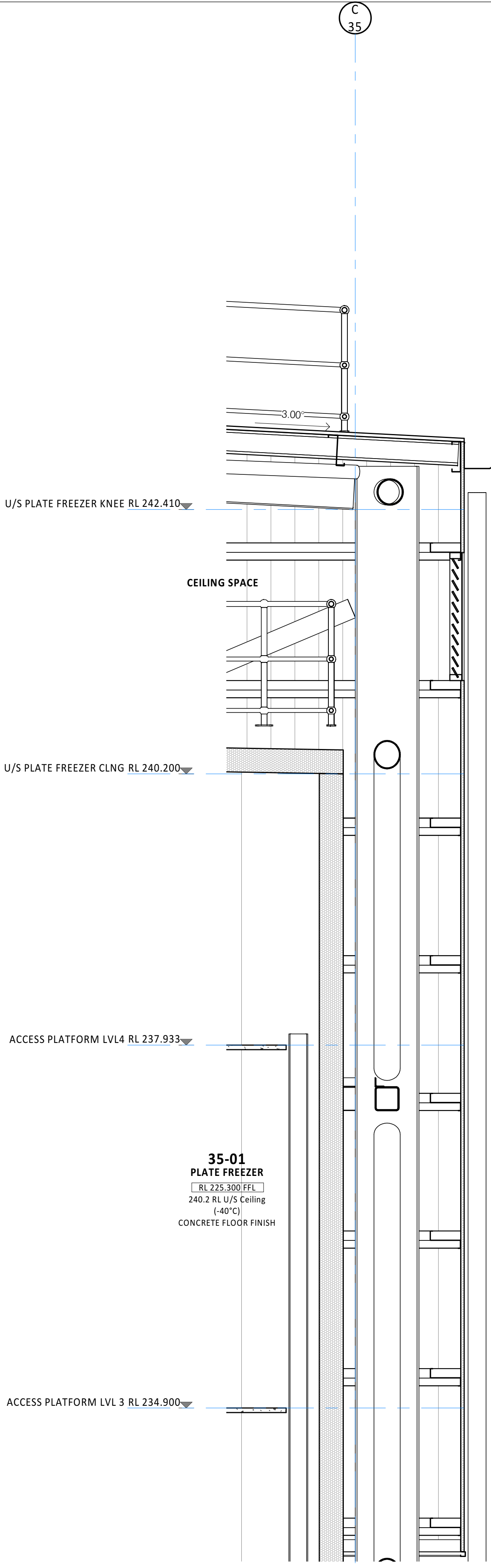
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Plot Date :6/10/2021 4:21:22 PM



1 PLATE FREEZER GRID 'C' BOTTOM
A1 = 1 : 25



2 PLATE FREEZER GRID 'C' TOP
A1 = 1 : 25

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WAGGA WAGGA, NSW

Drawing Title

PLATE FREEZER GRID 'C'
THROUGH WALL
SECTIONS

Scale A1 = 1:25 (A3 = 1: 50) 0 250 500 mm

Drawn AJ Date SEPT 2021

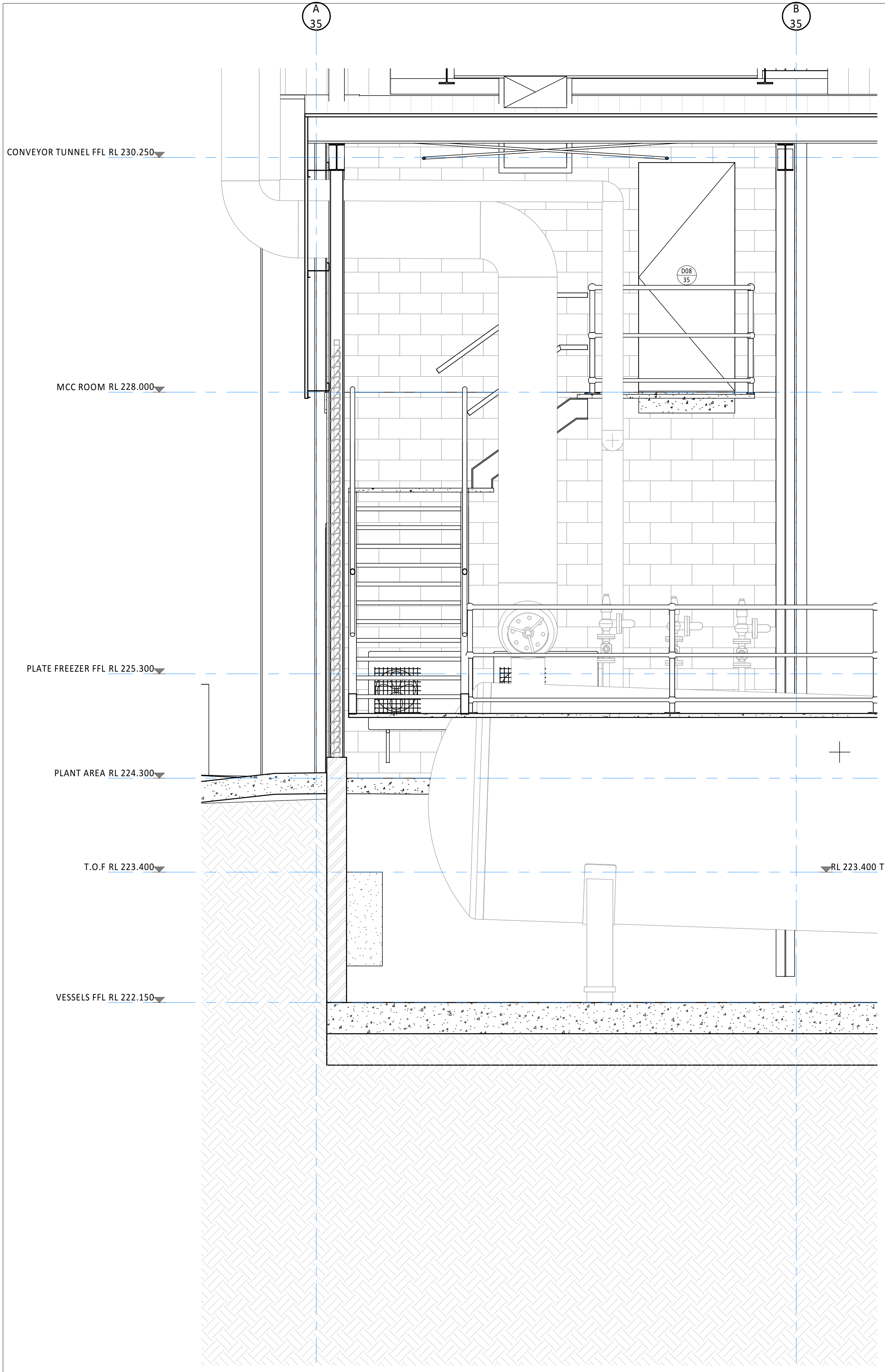
Project No. W25813 Bldg No. 35

Drawing No. Issue

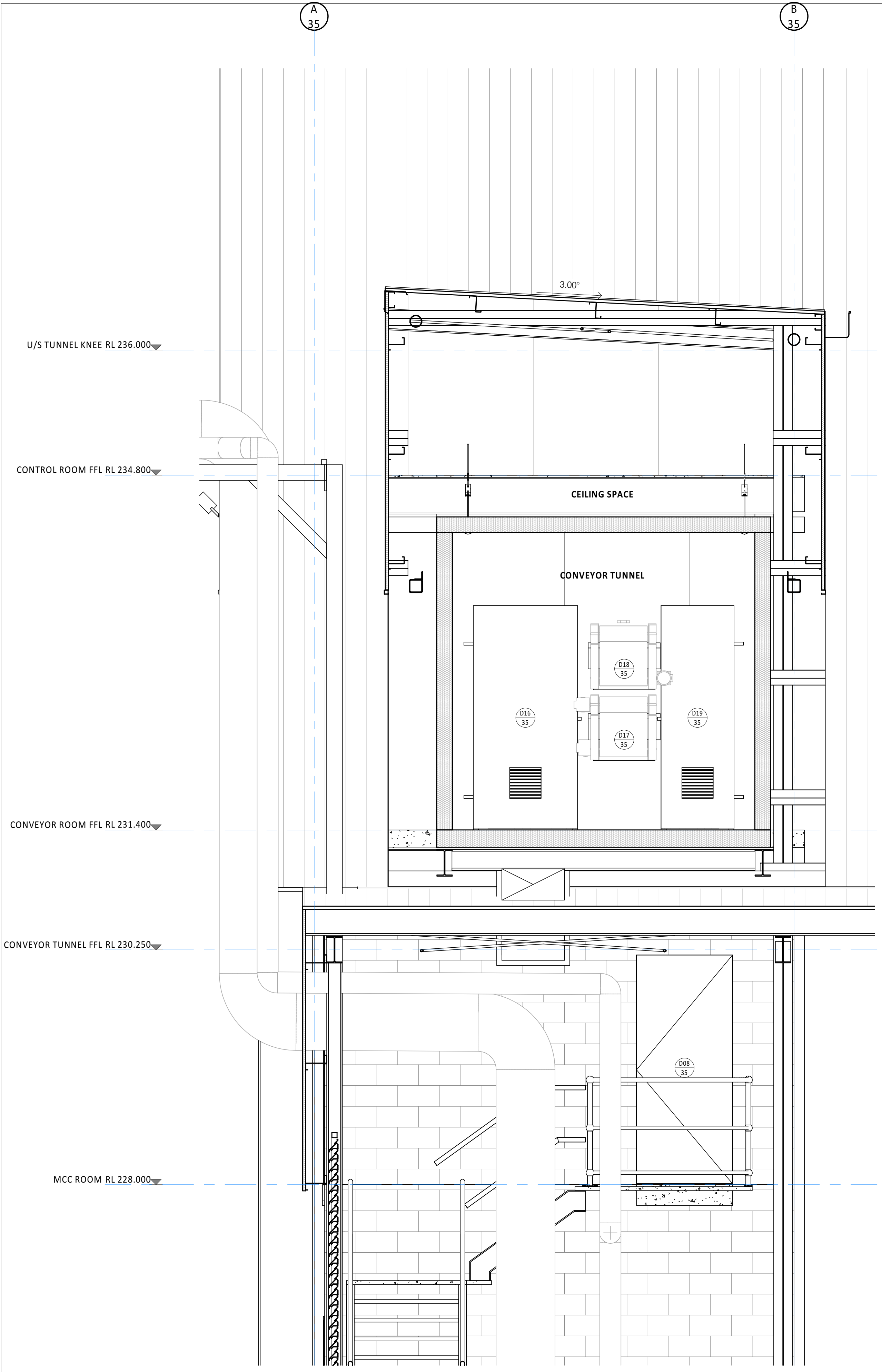
35A358 - 3

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Plot Date :5/11/2021 4:28:27 PM



1 VESSEL & CONVEYOR TUNNEL GRID 'A' BOTTOM
A1 = 1 : 25



2 VESSEL & CONVEYOR TUNNEL GRID 'A' TOP
A0 = 1 : 25

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06/10/21	3	FOR CLIENT REVIEW	AJ
05/10/21	2	ISSUED TO MPN	AJ
24/09/21	1	ISSUE FOR REVIEW	AJ

Date	Issue	Amendment	Init
05/11/21	4	VESSEL & WALKWAY REVISED	AJ

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WAGGA WAGGA, NSW

Drawing Title
**VESSEL & CONVEYOR
TUNNEL GRID 'A'
THROUGH WALL
SECTIONS**

Scale A1 = 1:25 (A3 = 1:50) 0 250 500 mm

Drawn AJ Date SEPT 2021

Project No. W25813 Bldg No. 35

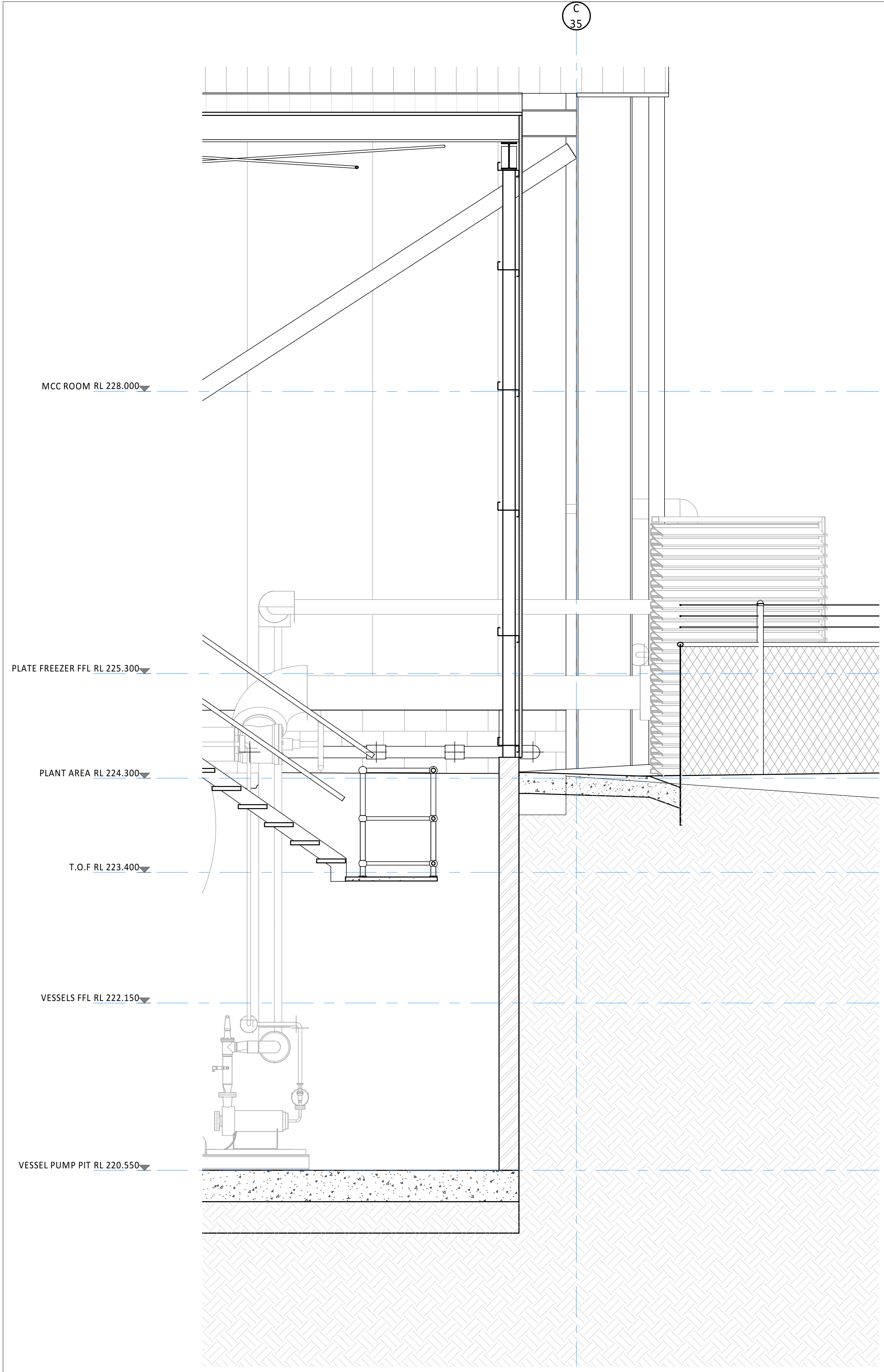
Drawing No. Issue

35A359 - 4

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Plot Date :5/11/2021 4:29:06 PM



1 VESSEL AREA GRID 'C' BOTTOM
35A305
A1 = 1 : 25

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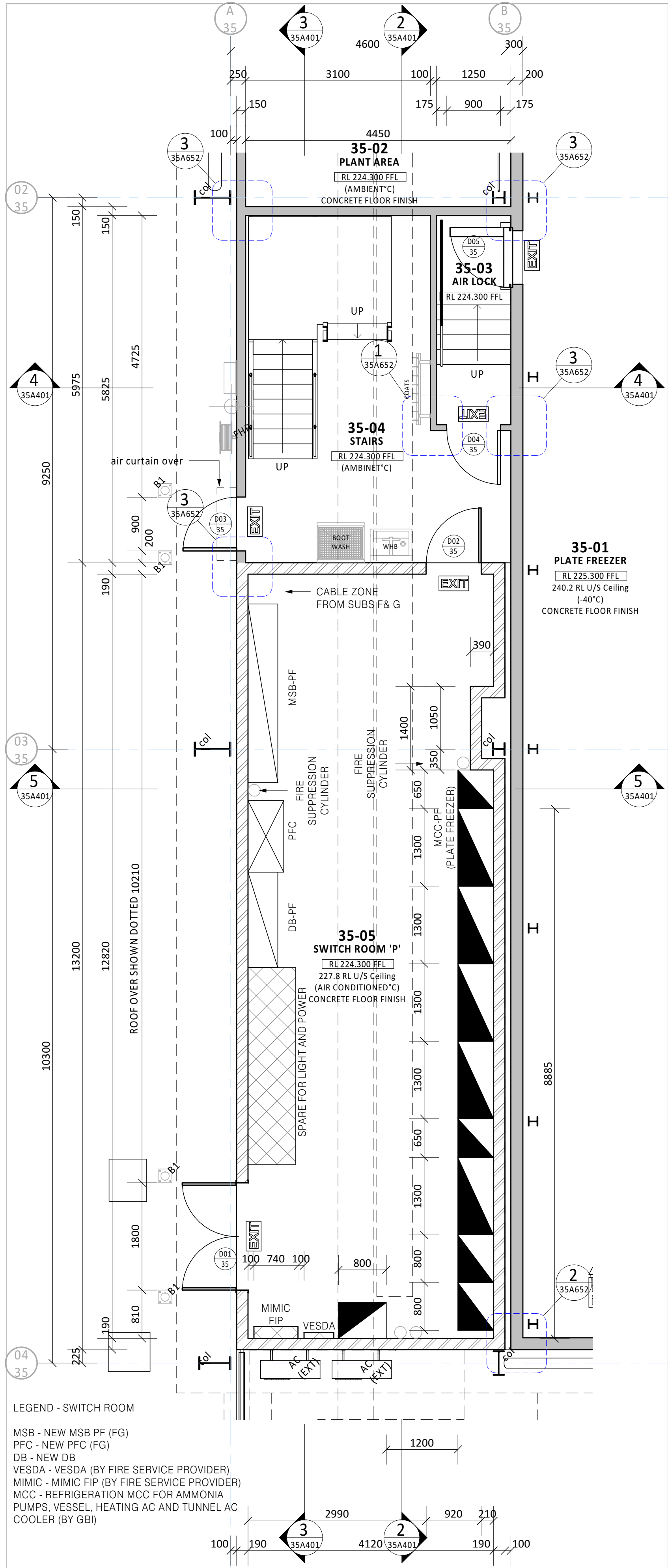
TEYS AUSTRALIA - PLATE FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title
VESSEL AREA THROUGH WALL SECTIONS

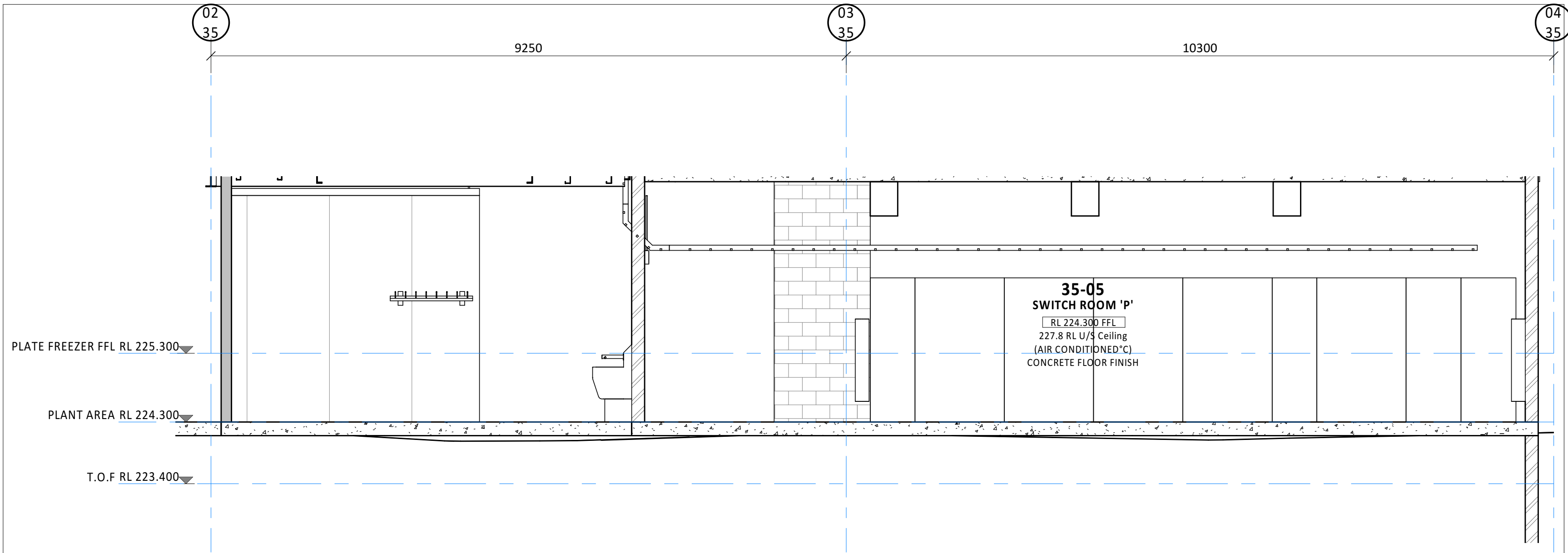
Scale	A1 = 1:25 (A3 = 1: 50)	0 250 500 mm
Drawn	AJ	Date SEPT 2021
Project No.	W25813	Bldg No. 35
Drawing No.	35A360 - 4	Issue

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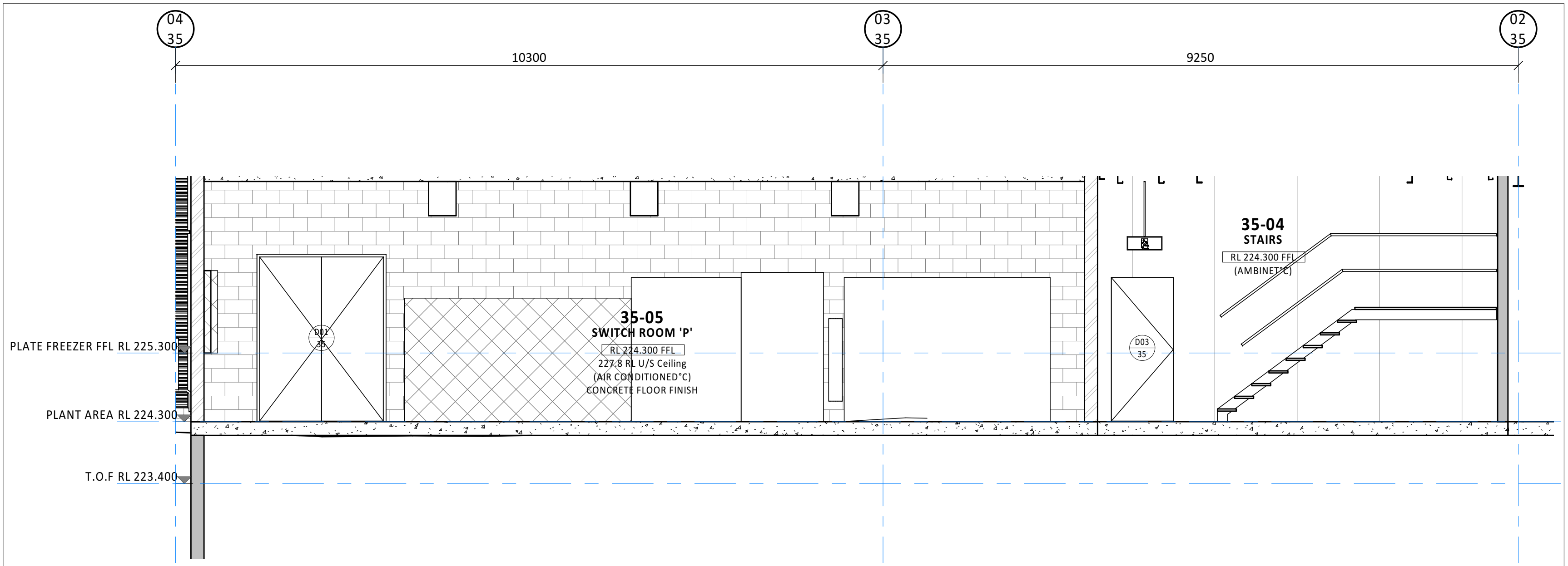
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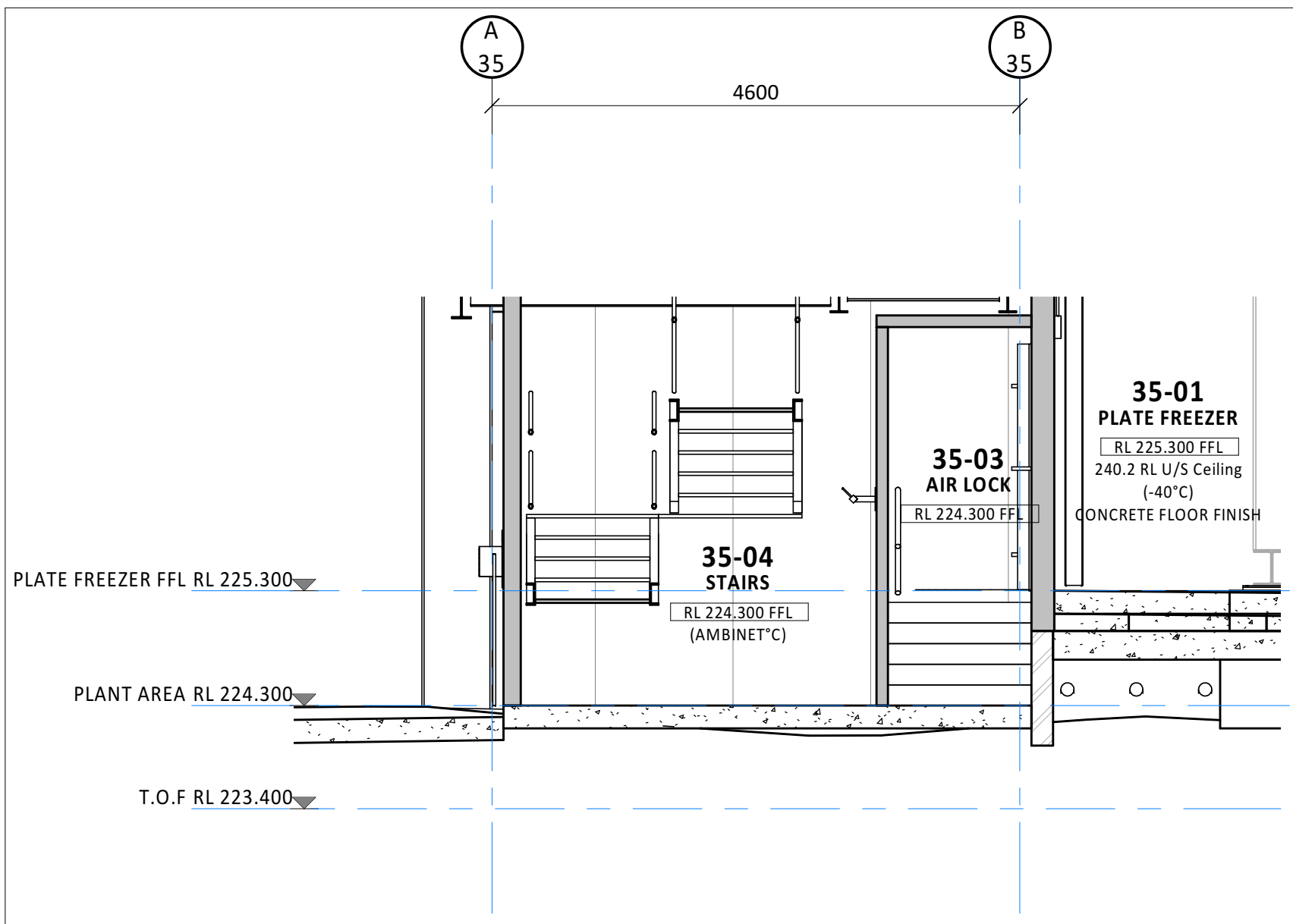
1 SWITCH ROOM PLAN
A1 = 1 : 50



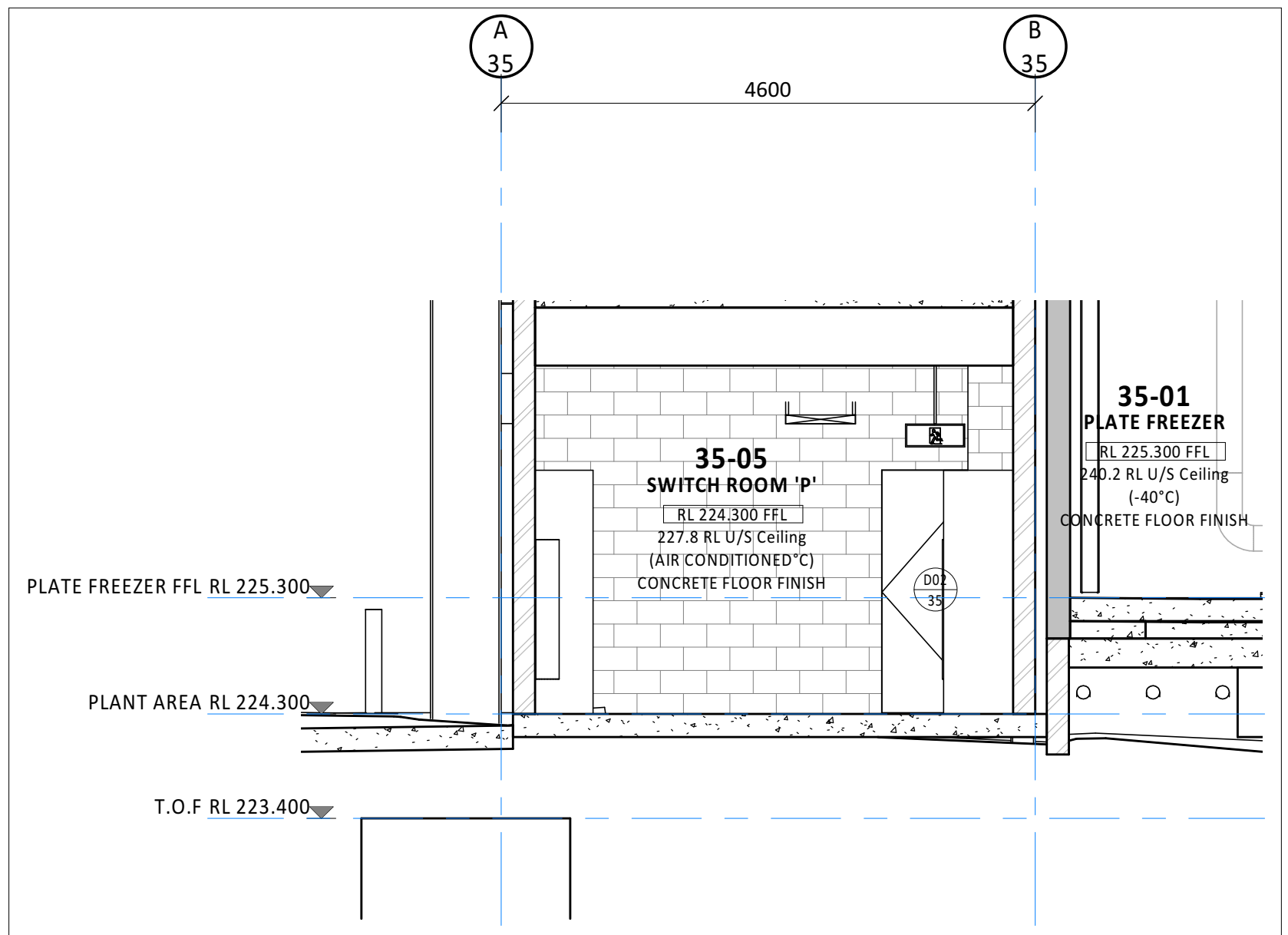
2 LONG SECTION 01
A1 = 1 : 50



3 LONG SECTION 02
A1 = 1 : 50

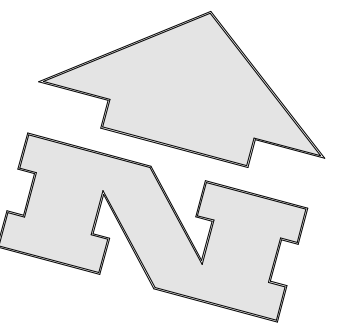
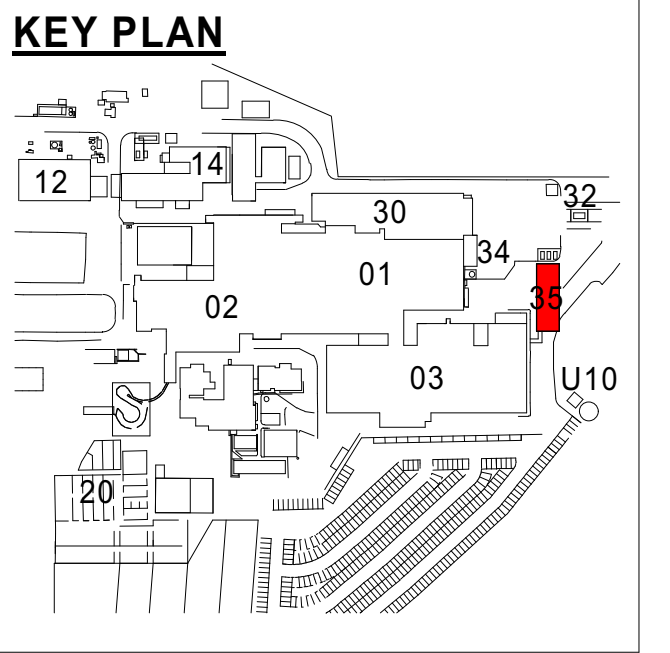


4 SHORT SECTION 01
A1 = 1 : 50



5 SHORT SECTION 02
A1 = 1 : 50

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06/10/21	3	FOR CLIENT REVIEW	AJ
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Drawing Title
SWITCH ROOM PLAN & SECTIONS

Scale A1=1:50 (A3=1:100) 0 500 1000

Drawn A.J. Date SEPT 2021

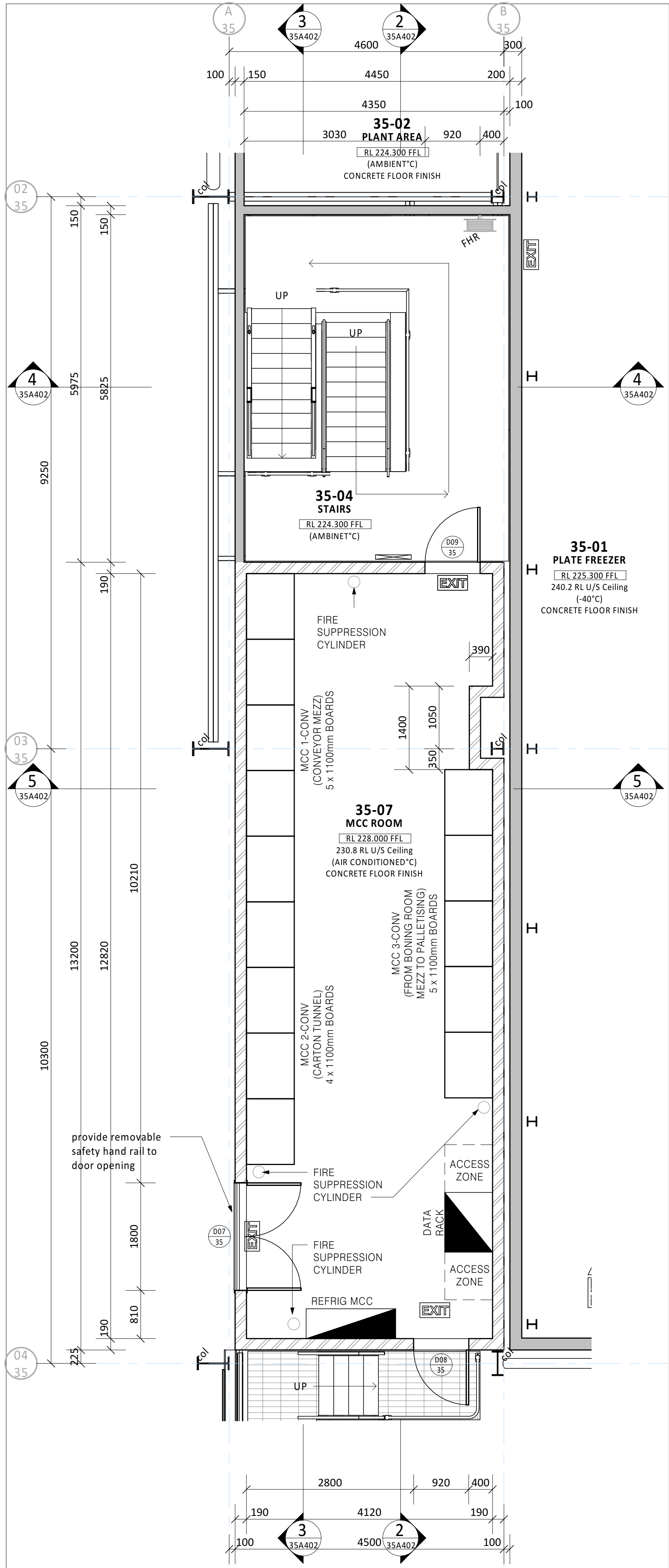
Project No. W25813 Bldg No. 35

Drawing No. Issue

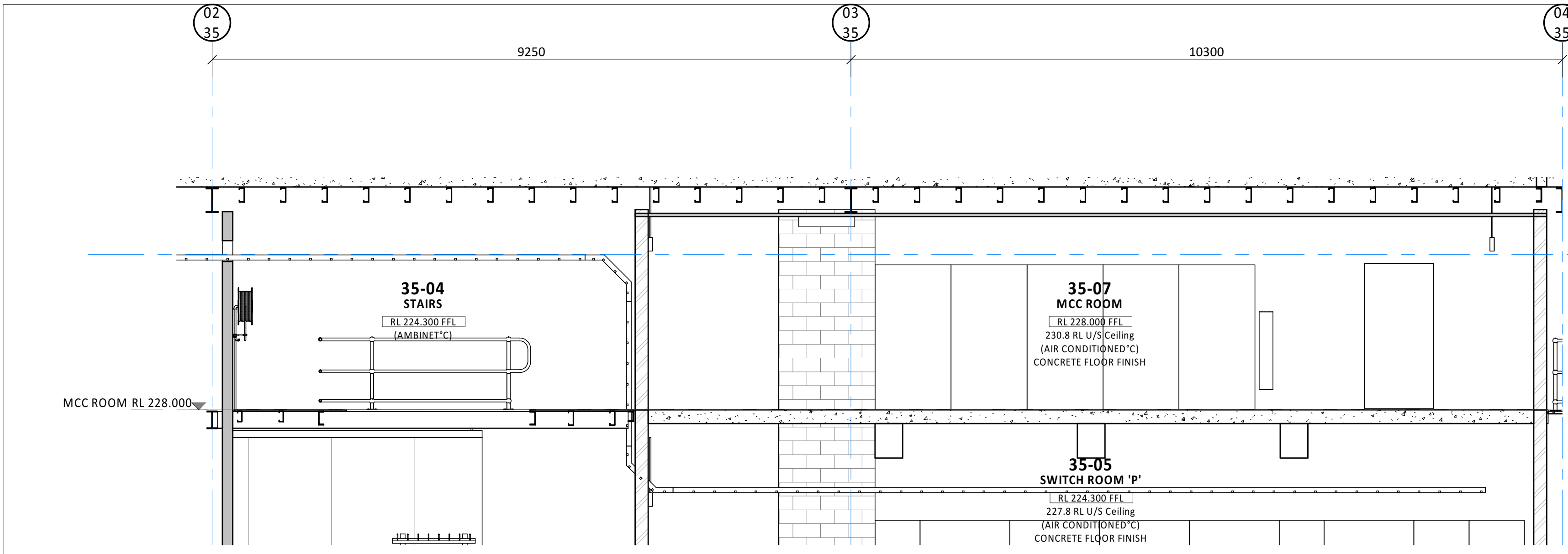
35A401 - 5

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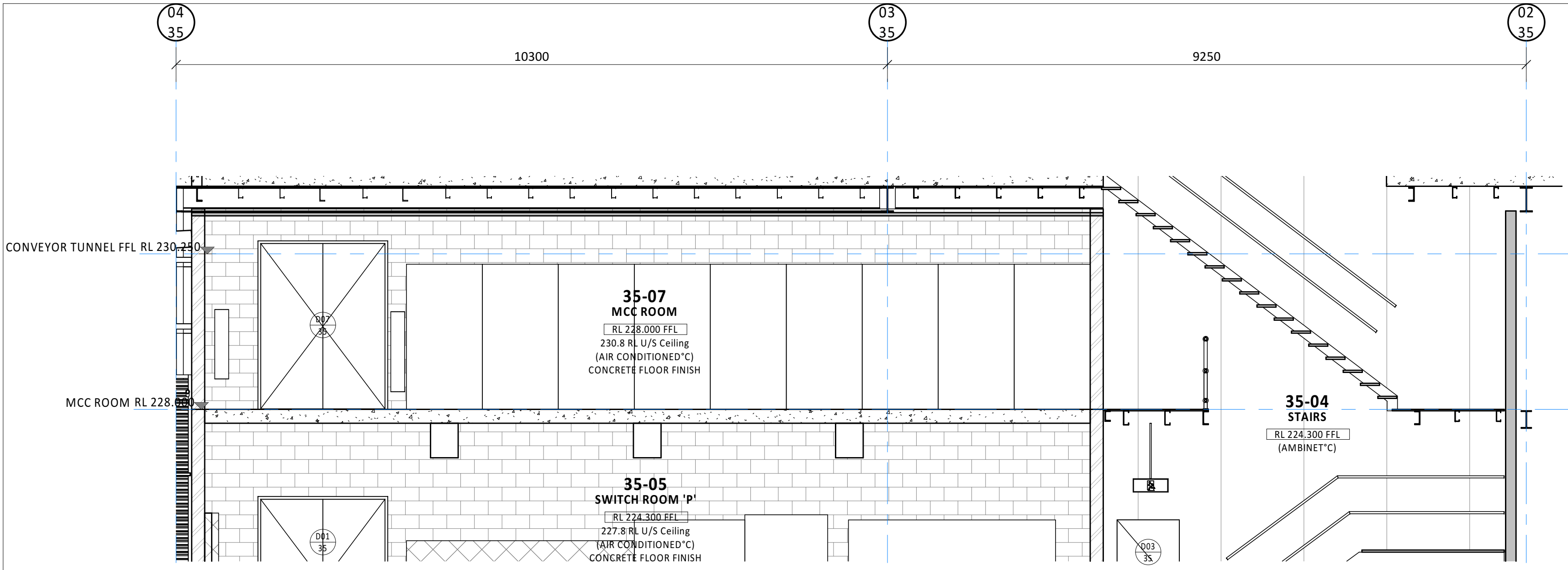
Plot Date :5/11/2021 4:31:21 PM



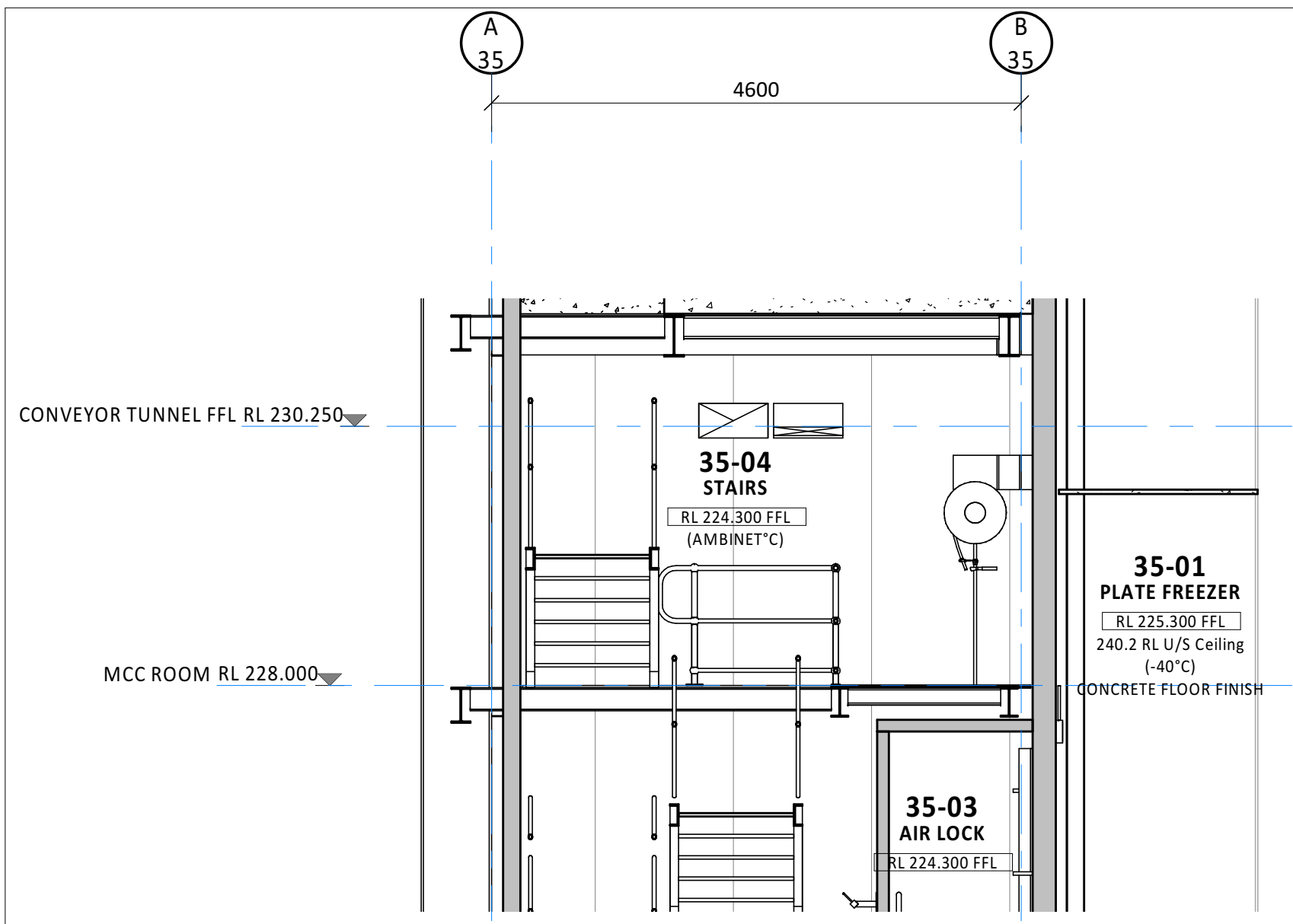
1 MCC ROOM PLAN
A1 = 1 : 50



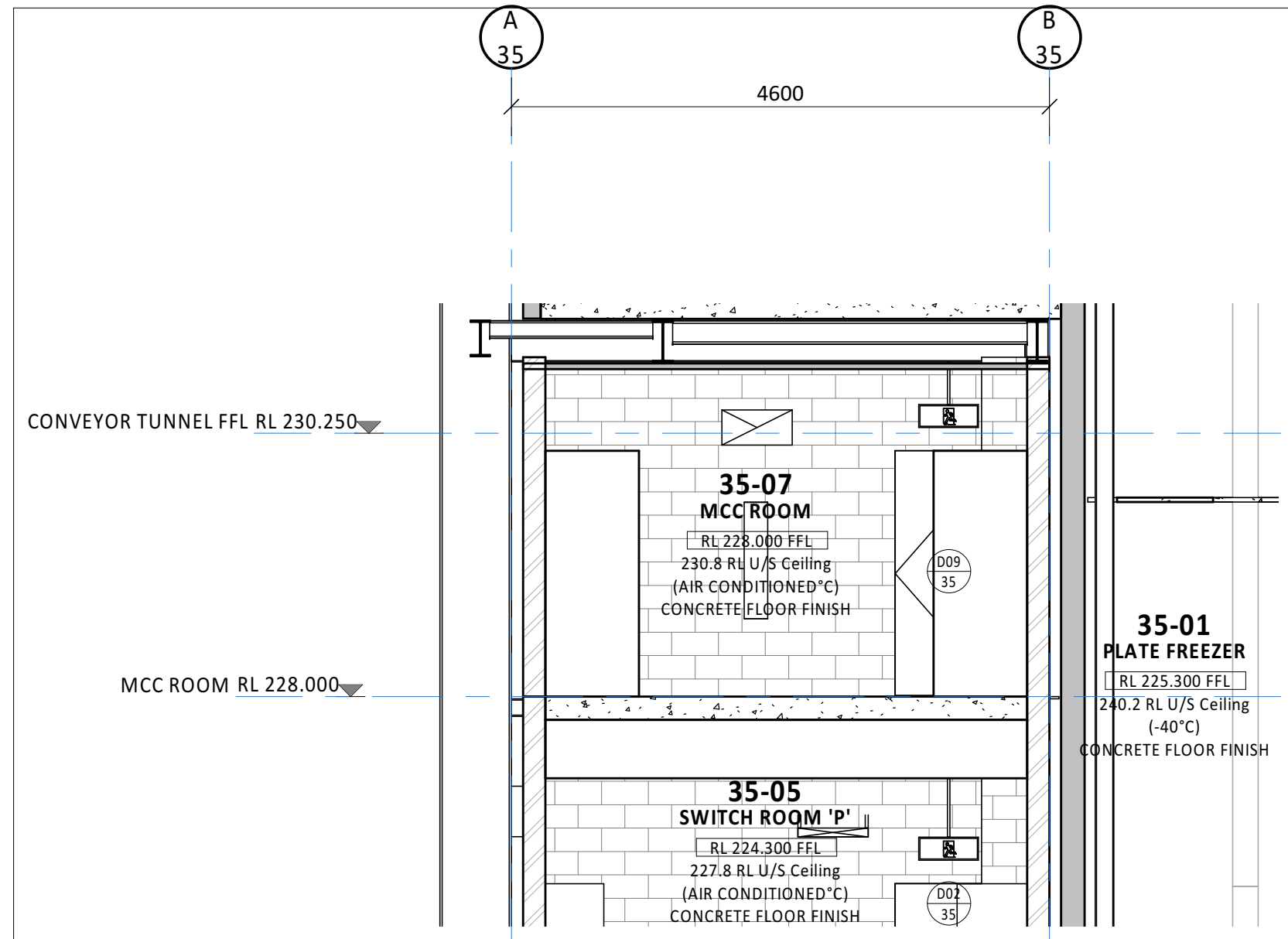
2 LONG SECTION 01
A1 = 1 : 50



3 LONG SECTION 02
A1 = 1 : 50

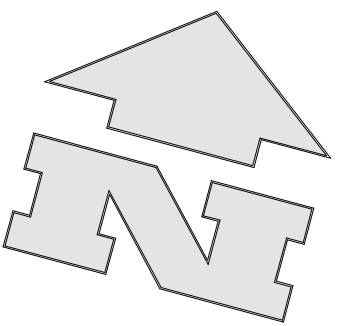
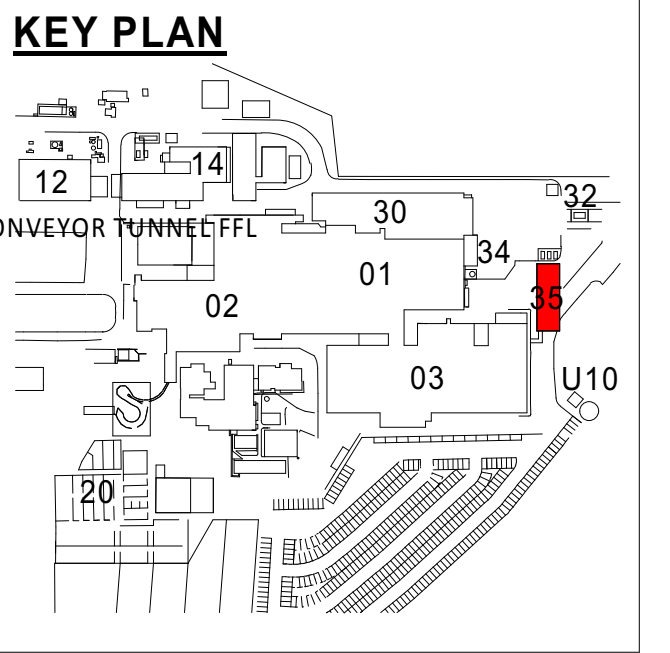


4 SHORT SECTION 01
A1 = 1 : 50



5 SHORT SECTION 02
A1 = 1 : 50

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WAGGA WAGGA, NSW
Drawing Title
MCC ROOM PLAN

Scale A1=1:50 (A3=1:100) 0 500 1000

Drawn A.J. Date SEPT 2021

Project No. W25813 Bldg No. 35

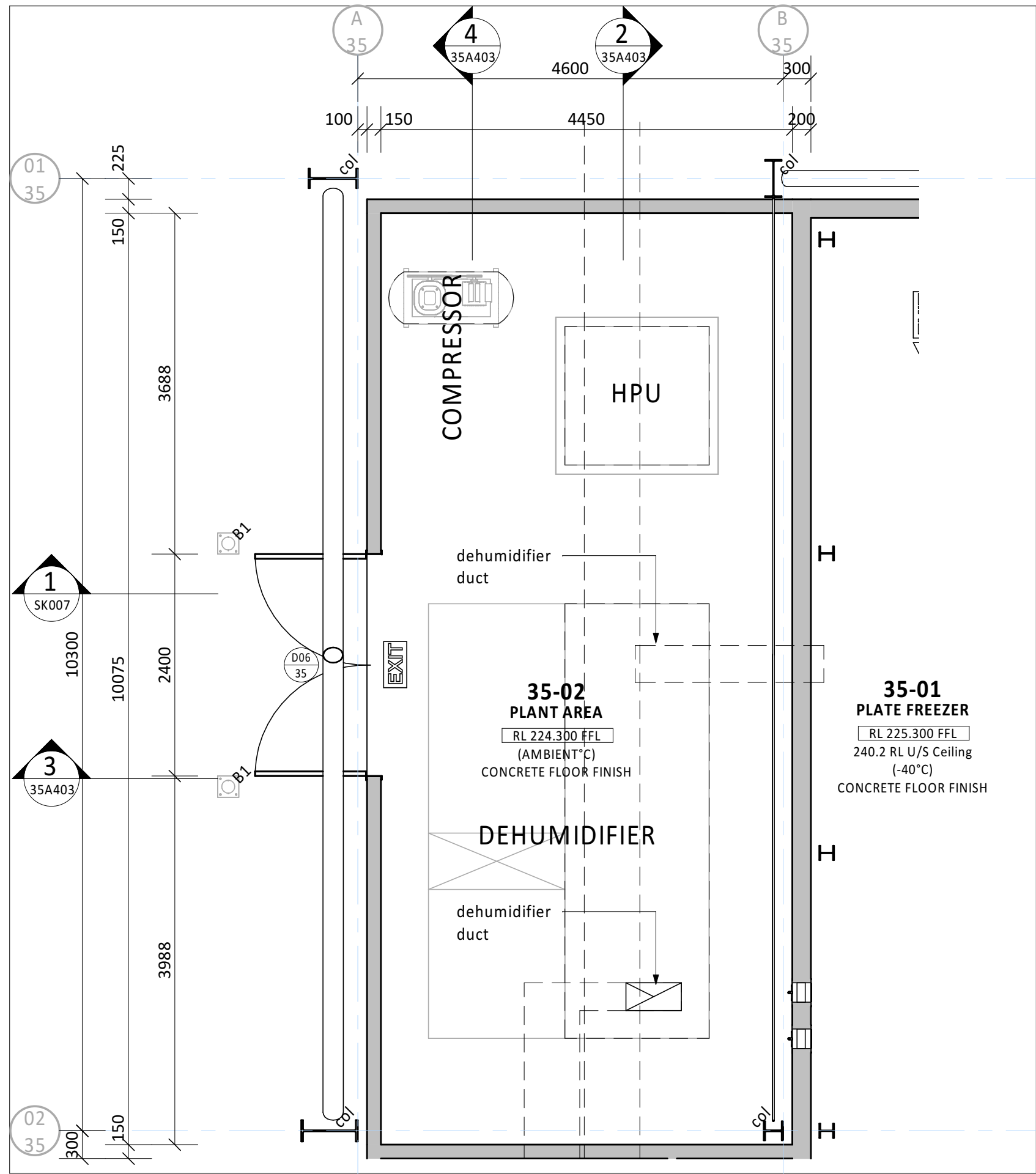
Drawing No. Issue

35A402 - 5

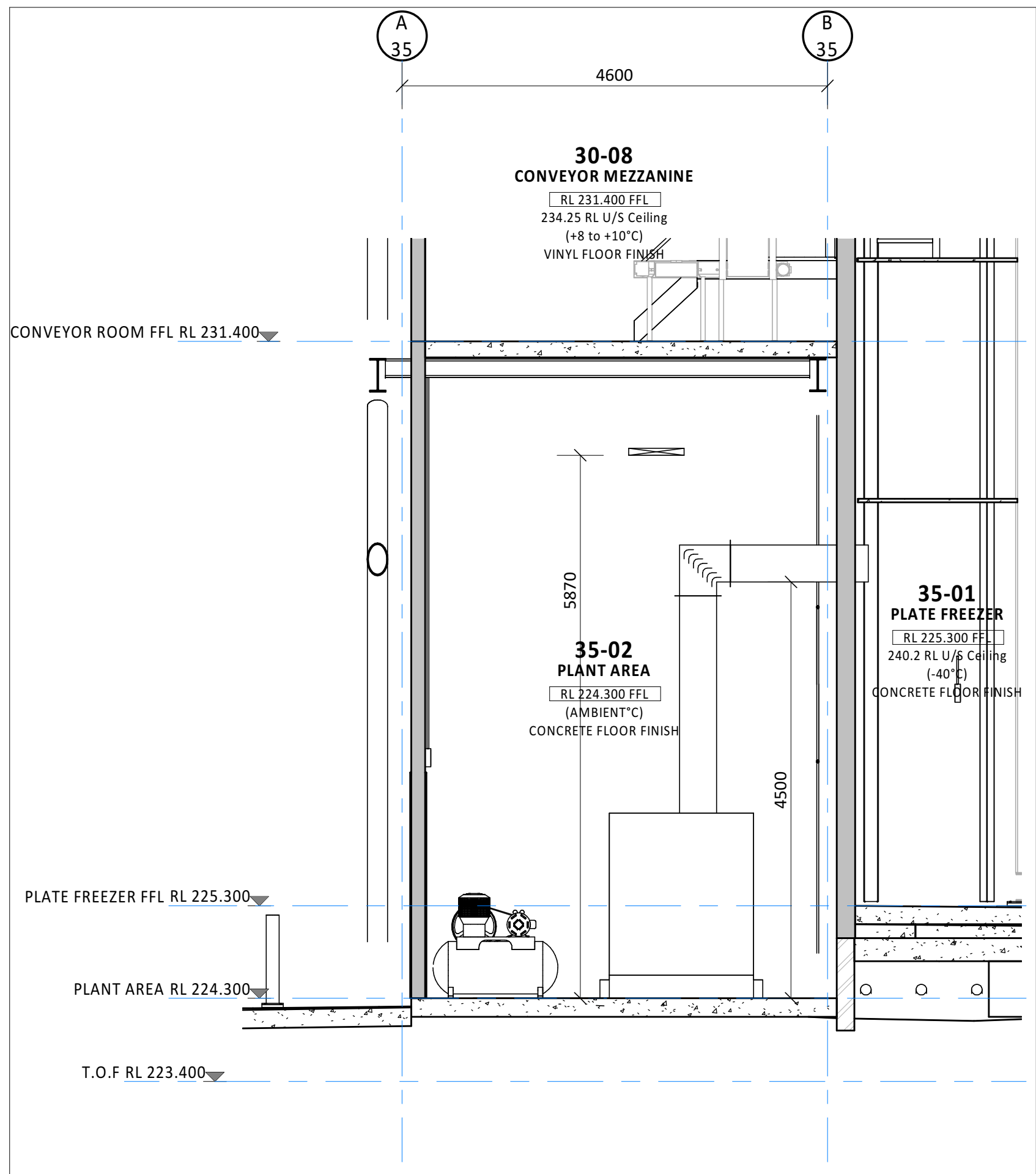
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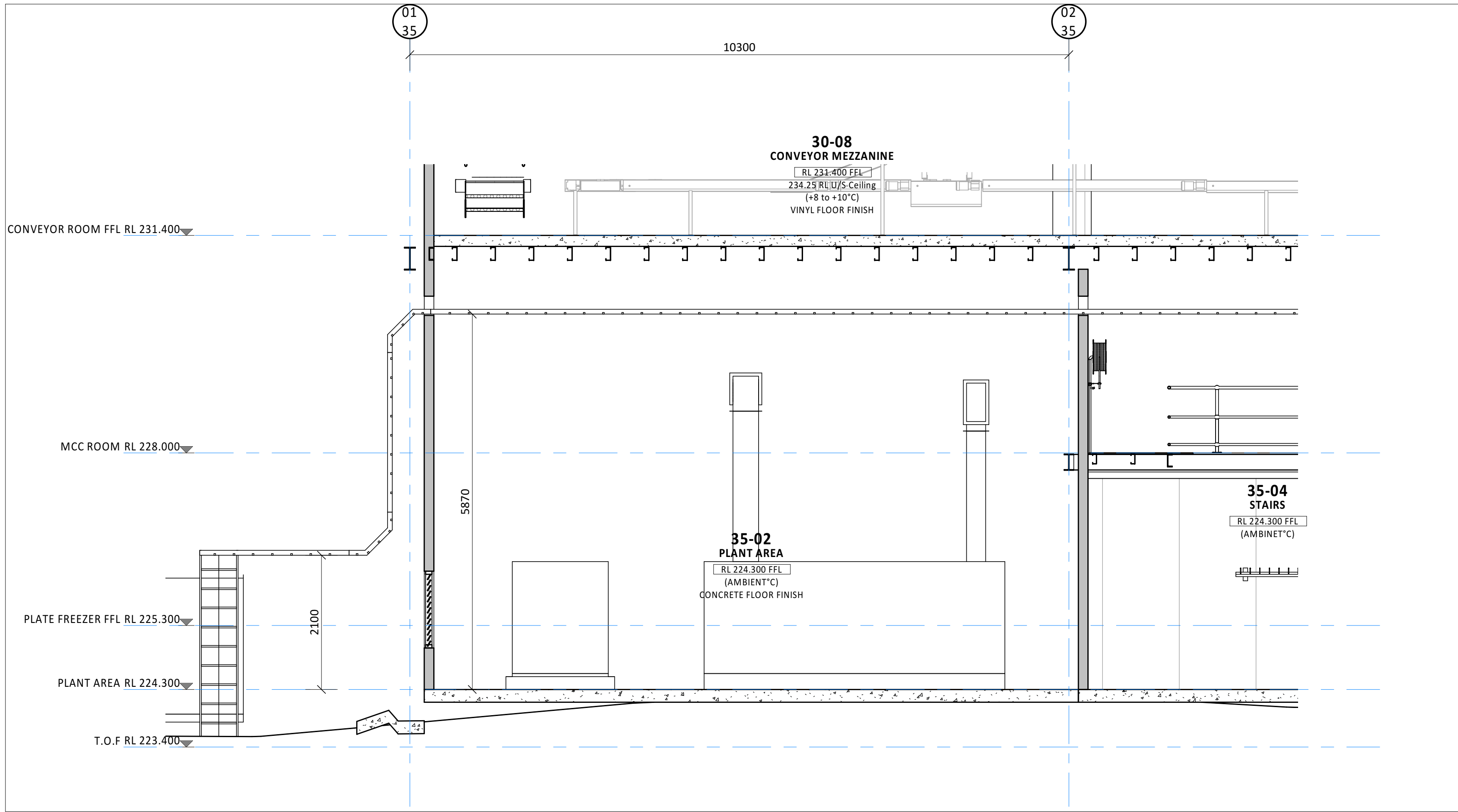
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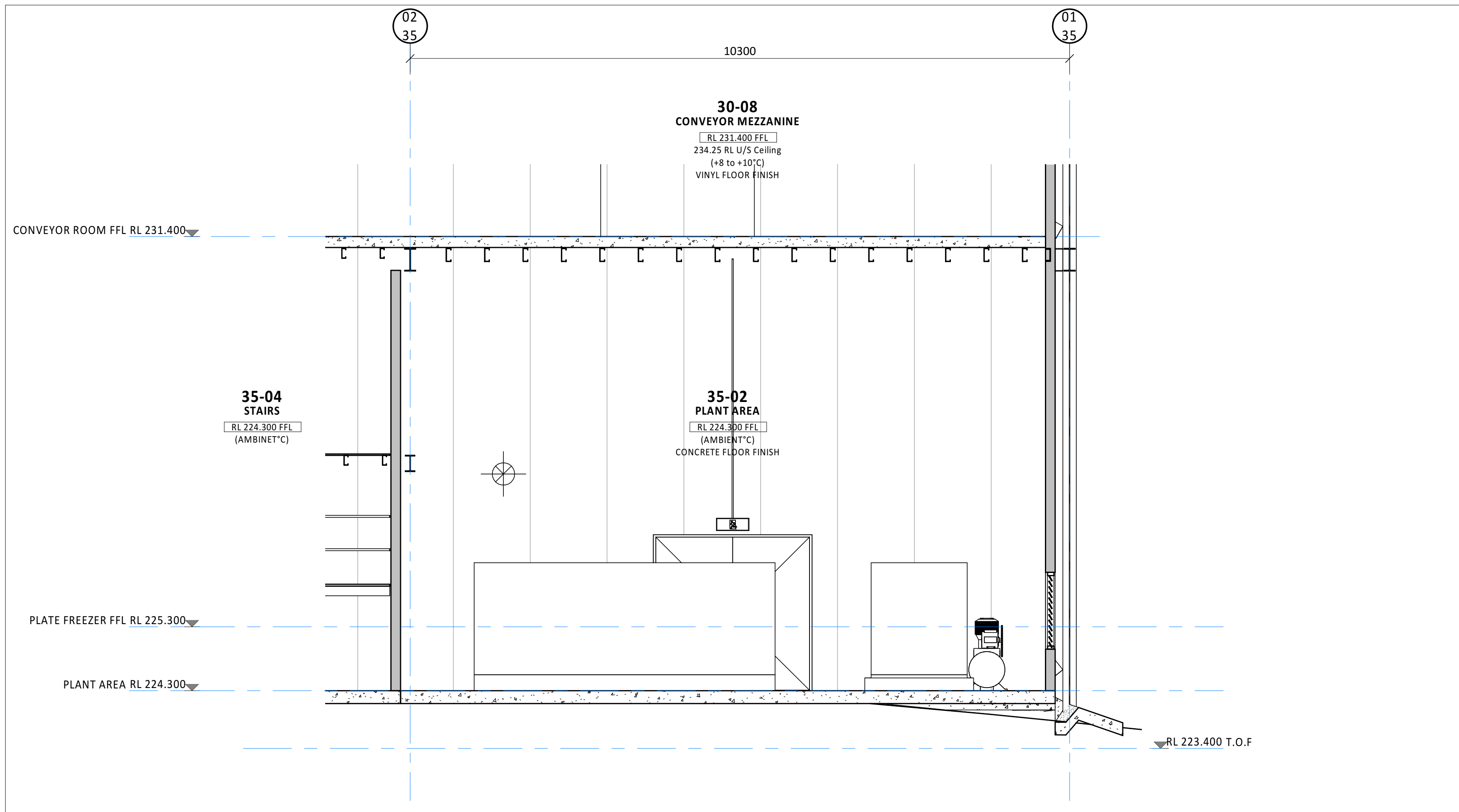
1 PLANT AREA PLAN
A1 = 1 : 50



3 SHORT SECTION 01
A1 = 1 : 50

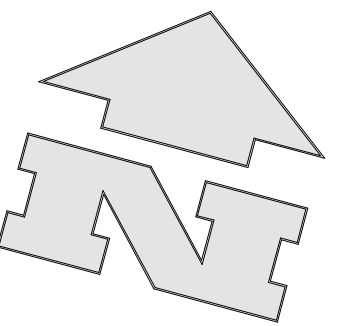
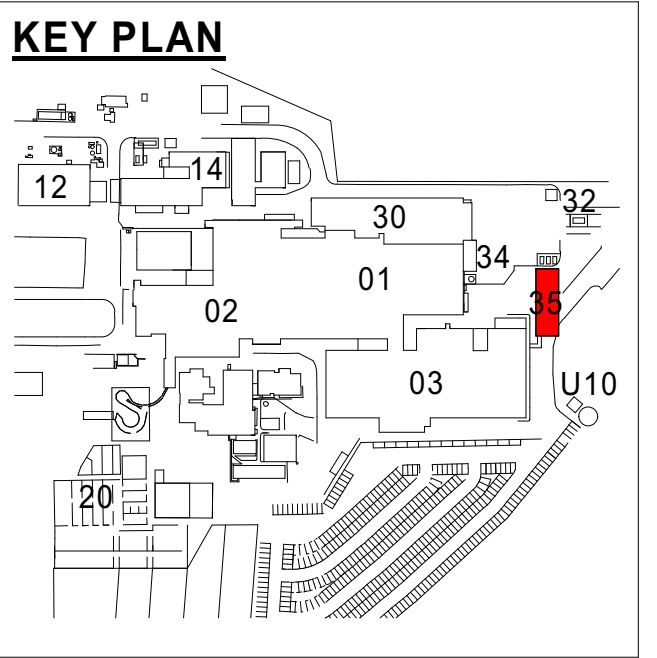


2 LONG SECTION 01
A1 = 1 : 50



4 LONG SECTION 02
A1 = 1 : 50

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WAGGA WAGGA, NSW
Drawing Title
PLANT AREA PLAN &
SECTIONS

Scale A1=1:50 (A3=1:100) 0 500 1000

Drawn A.J. Date SEPT 2021

Project No. W25813 Bldg No. 35

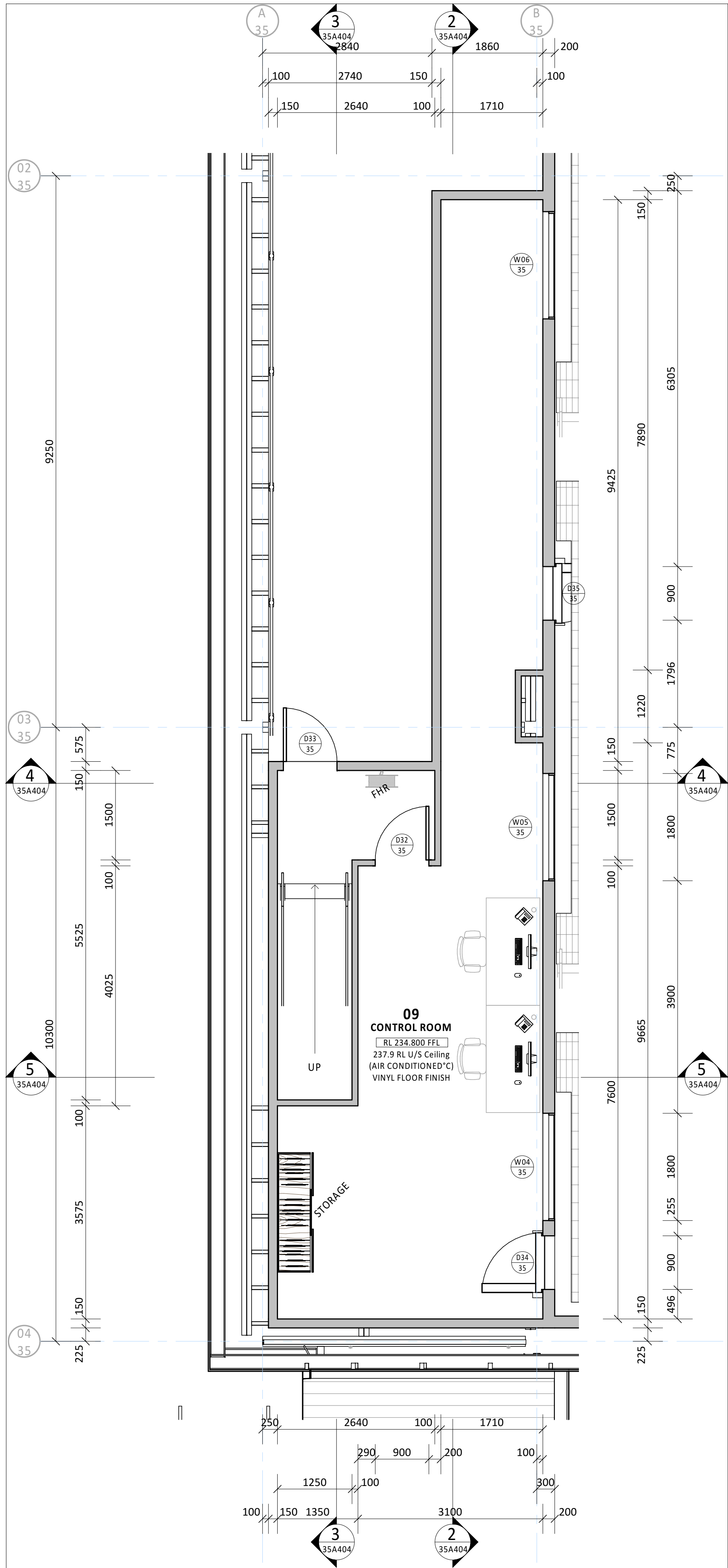
Drawing No. Issue

35A403 - 5

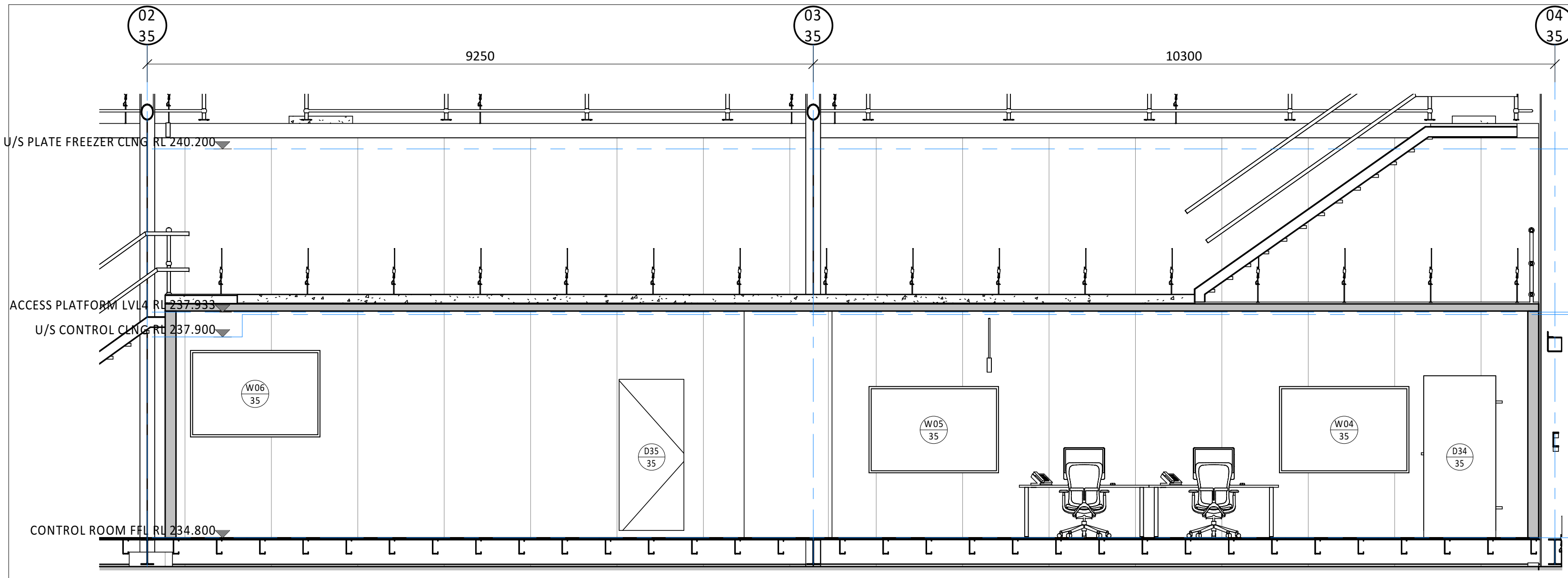
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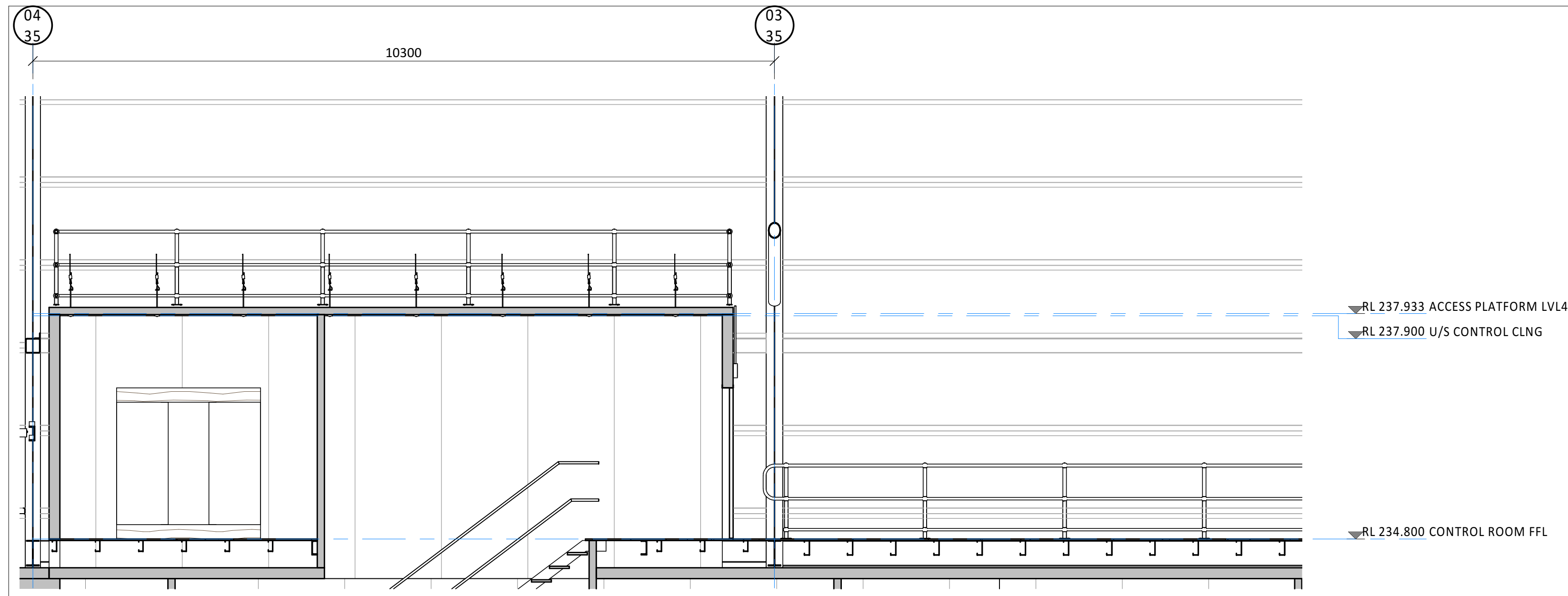
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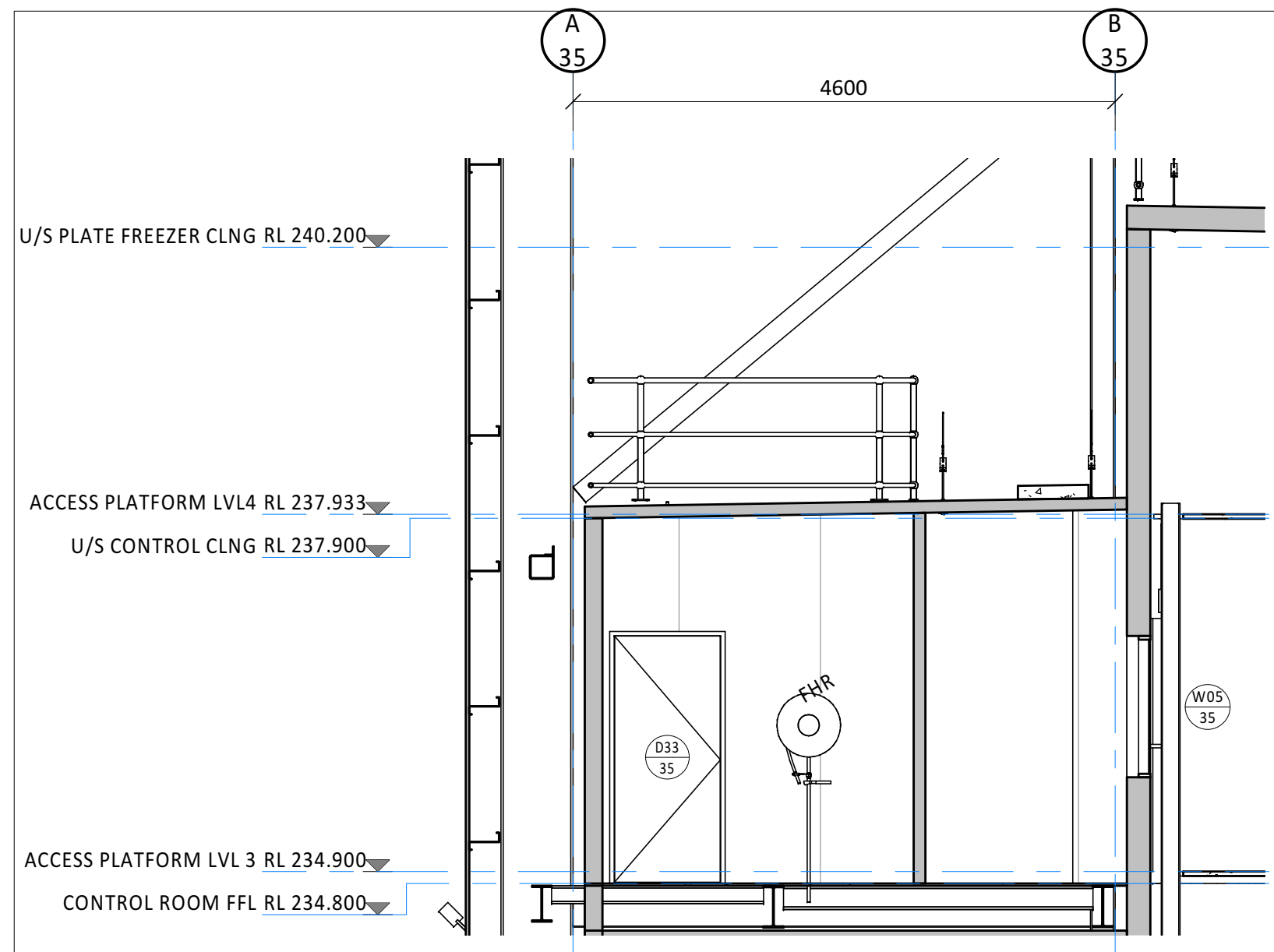
1 CONTROL ROOM PLAN
A1 = 1 : 50



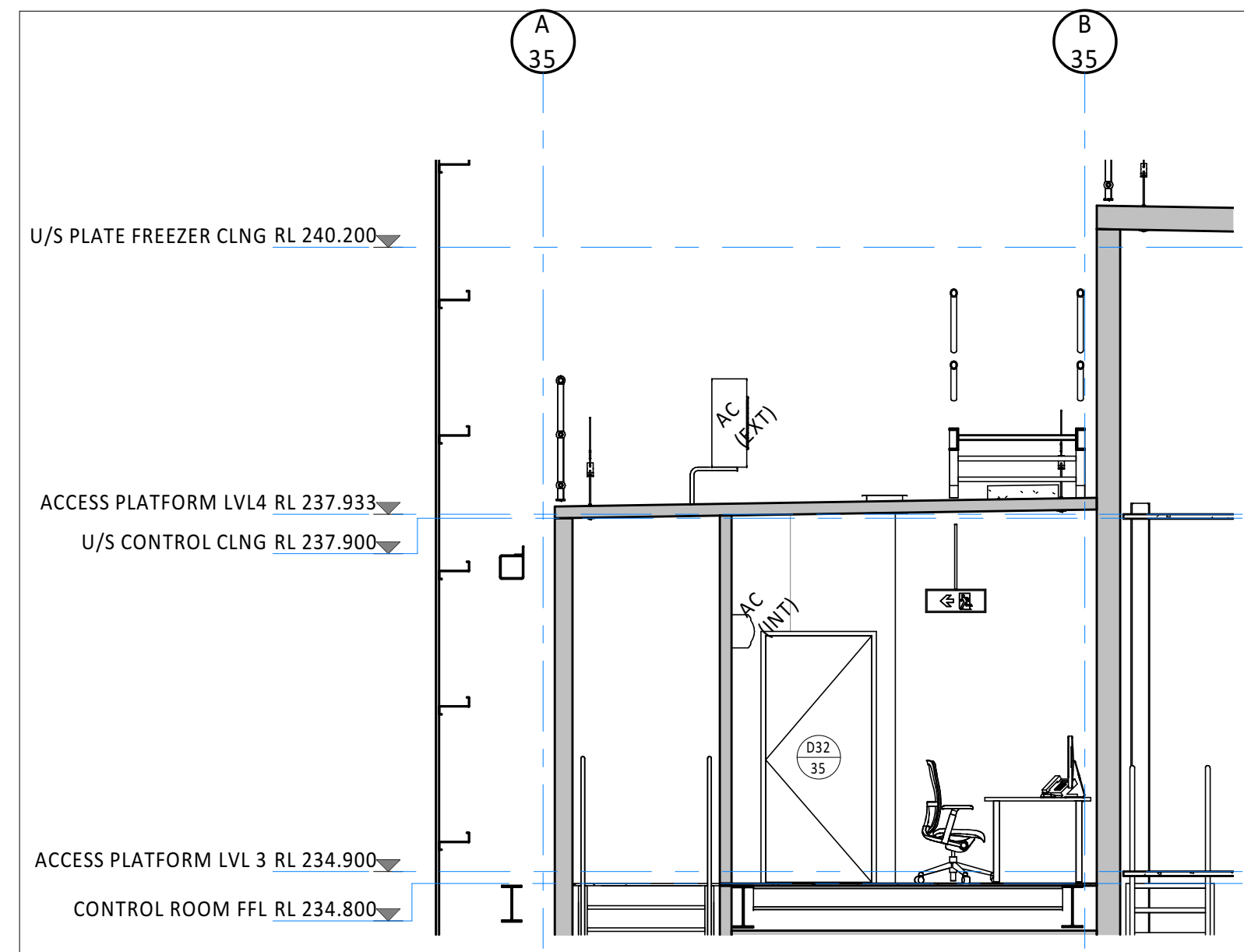
2 LONG SECTION 01
A1 = 1 : 50



3 LONG SECTION 02
A1 = 1 : 50

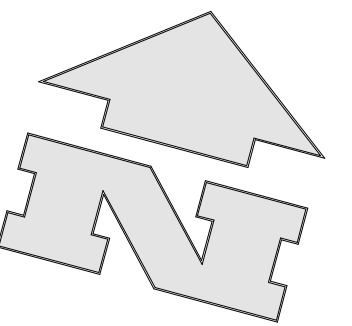
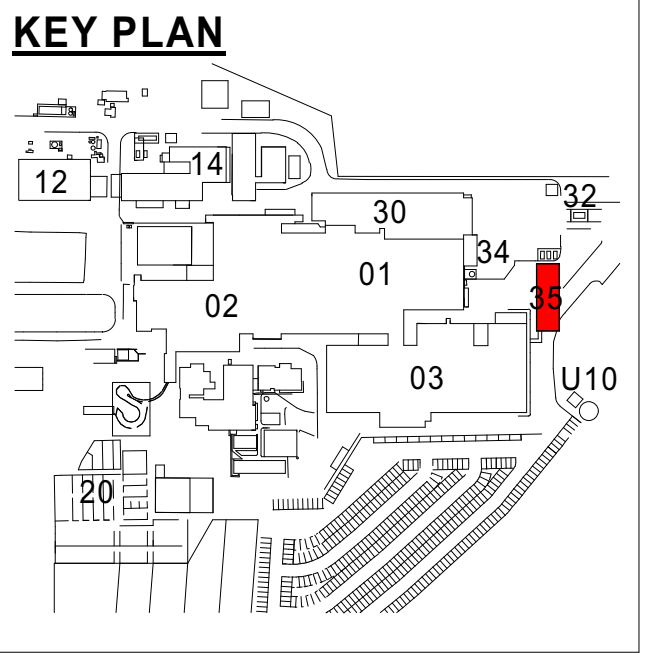


4 SHORT SECTION 01
A1 = 1 : 50



5 SHORT SECTION 02
A1 = 1 : 50

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05/11/21	2	CONTROL ROOM LAYOUT REVISED	AJ
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FREEZER PROJECT
WAGGA WAGGA, NSW
Drawing Title
CONTROL ROOM PLAN &
SECTIONS

Scale A1=1:50 (A3=1:100) 0 500 1000

Drawn A.J. Date OCT 2021

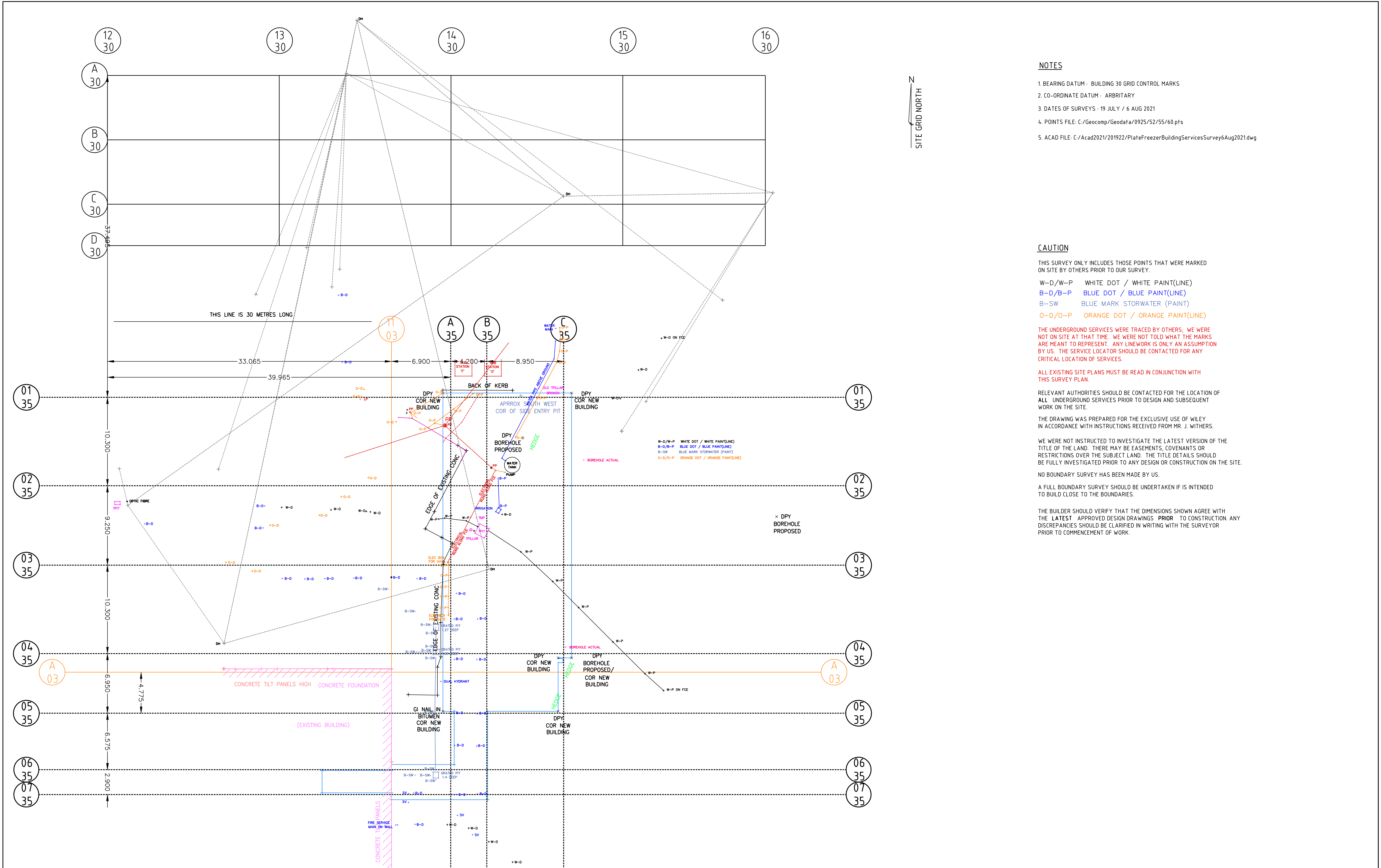
Project No. W25813 Bldg No. 35

Drawing No. Issue

35A404 - 2

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NOTES

1. BEARING DATUM : BUILDING 30 GRID CONTROL MARKS
2. CO-ORDINATE DATUM : ARBITRARY
3. DATES OF SURVEYS : 19 JULY / 6 AUG 2021
4. POINTS FILE: C:/Geocomp/Geodata/0925/52/55/60.pts
5. ACAD FILE: C:/Acad2021/201922/PlateFreezerBuildingServicesSurvey6Aug2021.dwg

CAUTION

THIS SURVEY ONLY INCLUDES THOSE POINTS THAT WERE MARKED ON SITE BY OTHERS PRIOR TO OUR SURVEY.

- W-D/W-P WHITE DOT / WHITE PAINT(LINE)
B-D/B-P BLUE DOT / BLUE PAINT(LINE)
B-SW BLUE MARK STORWATER (PAINT)
O-D/O-P ORANGE DOT / ORANGE PAINT(LINE)

THE UNDERGROUND SERVICES WERE TRACED BY OTHERS; WE WERE NOT ON SITE AT THAT TIME. WE WERE NOT TOLD WHAT THE MARKS ARE MEANT TO REPRESENT. ANY LINEWORK IS ONLY AN ASSUMPTION BY US. THE SERVICE LOCATOR SHOULD BE CONTACTED FOR ANY CRITICAL LOCATION OF SERVICES.

ALL EXISTING SITE PLANS MUST BE READ IN CONJUNCTION WITH THIS SURVEY PLAN.

RELEVANT AUTHORITIES SHOULD BE CONTACTED FOR THE LOCATION OF ALL UNDERGROUND SERVICES PRIOR TO DESIGN AND SUBSEQUENT WORK ON THE SITE.

THE DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF WILEY IN ACCORDANCE WITH INSTRUCTIONS RECEIVED FROM MR. J. WITHERS.

WE WERE NOT INSTRUCTED TO INVESTIGATE THE LATEST VERSION OF THE TITLE OF THE LAND. THERE MAY BE EASEMENTS, COVENANTS OR RESTRICTIONS OVER THE SUBJECT LAND. THE TITLE DETAILS SHOULD BE FULLY INVESTIGATED PRIOR TO ANY DESIGN OR CONSTRUCTION ON THE SITE.

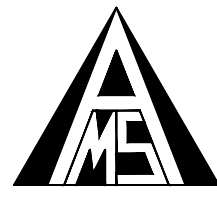
NO BOUNDARY SURVEY HAS BEEN MADE BY US.

A FULL BOUNDARY SURVEY SHOULD BE UNDERTAKEN IF IS INTENDED TO BUILD CLOSE TO THE BOUNDARIES.

THE BUILDER SHOULD VERIFY THAT THE DIMENSIONS SHOWN AGREE WITH THE LATEST APPROVED DESIGN DRAWINGS. PRIOR TO CONSTRUCTION, ANY DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH THE SURVEYOR PRIOR TO COMMENCEMENT OF WORK.

Michael Slinger & Associates Pty. Ltd.
Consulting Surveyors

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SUBDIVISION SURVEYS

URBAN & RURAL
COMMUNITY & STRATA TITLES
DEVELOPMENT APPLICATIONS
TITLE SEARCHES

ENGINEERING SURVEYS

ROADS & PIPELINES
VOLUME CALCULATIONS
DEVELOPMENT SET OUTS
WORK-AS-EXECUTED

MAPPING SURVEYS

GPS SURVEYS
SITE MAPPING
TERRAIN MODELLING
DRAFTING SERVICES

DATE
16 AUG 2021

DRAWN
AMC

DESIGNED

CHECKED
MS

0mm 10mm 20mm 30mm 40mm

TITLE
SERVICES SURVEY ON 6 AUG 2021

CLIENT
WILEY

PROJECT
PROPOSED NEW PLATE FREEZER BUILDING 35
TEYS, DAMPIER STREET
WAGGA WAGGA NSW 2650

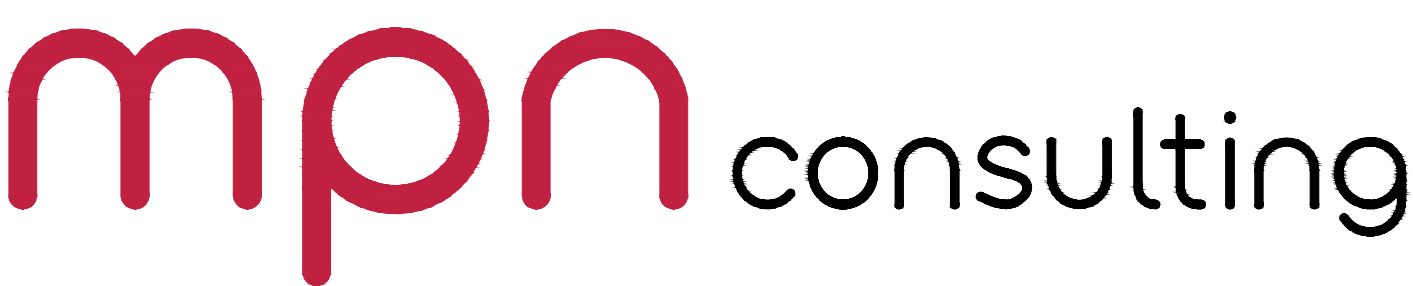
PROJECT NO.
201922

DWG. NO.
1 OF 1

SCALE
1 : 200 A1

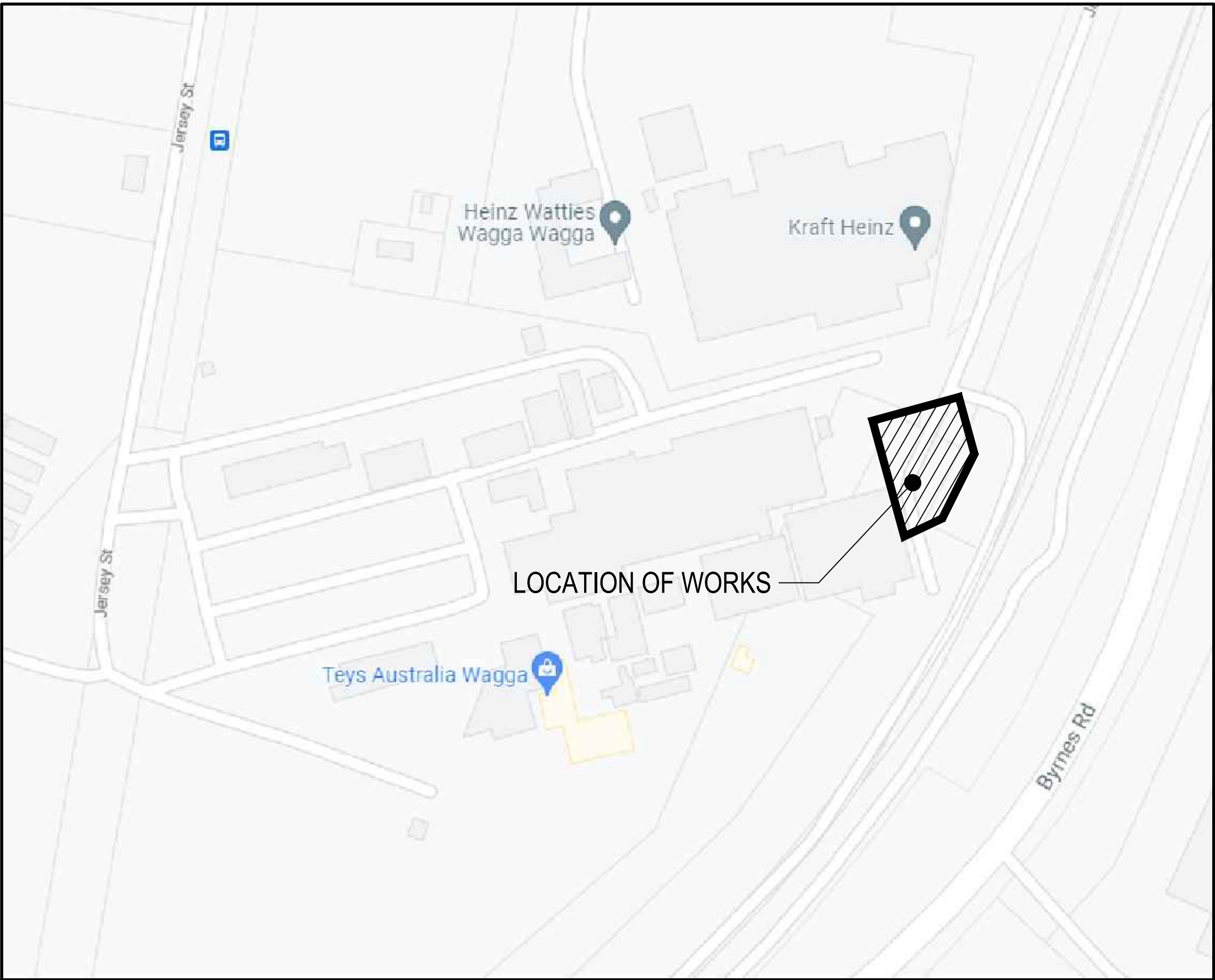
**Appendix 3
MPN Plans**

**TEYS AUSTRALIA
ABATTOIR PLATE FREEZER
DAMPIER ST, WAGGA WAGGA, NSW
CIVIL ENGINEERING DRAWINGS
DESIGNED BY:**



DRAWING REGISTER

DWG. No.	DRAWING TITLE
CN.0.01	COVER SHEET
CN.0.02	CONSTRUCTION NOTES
BE.1.01	BULK EARTHWORKS PLAN
BE.2.01	BULK EARTHWORKS SECTIONS AND DETAILS
ER.1.01	ROADWORKS AND DRAINAGE PLAN
ER.2.01	ROADWORKS AND DRAINAGE DETAILS
PV.1.01	PAVEMENT TYPES PLAN
PM.1.01	SIGNS AND PAVEMENT MARKING PLAN



LOCALITY PLAN
NTS

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Project No.	Drawing No.	Rev No.
8962	CN.0.01	C

22.11.21	C	FOR COORDINATION	KC	MH
18.11.21	B	FOR COORDINATION	KC	MH
15.11.21	A	PRELIMINARY ISSUE	KC	MH

Date	Issue	Amendment	Init
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**TEYS AUSTRALIA - PLATE
FREEZER PROJECT
WAGGA WAGGA, NSW**

Drawing Title
COVER SHEET

Scale AS SHOWN

Drawn VL Date OCTOBER 2021

Project No.	Bldg No.
W25813	35

Drawing No. CN.0.01 Issue - C

FOR CO ORDINATION

THIS DRAWING IS NOT FOR CONSTRUCTION

GENERAL NOTES

PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR IS TO IDENTIFY AND BE SATISFIED OF THE CORRECT LOCATION OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONTRACTOR'S EXPENSE.

ANY WORK ON EXISTING SERVICES THAT REQUIRE RELOCATION BY AUTHORITIES SHALL BE CARRIED OUT BY THE RELEVANT AUTHORITY BUT WITHIN TERMS OF THE CONTRACT AND SHALL BE CO-ORDINATED BY THE CONTRACTOR.

PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR WILL PROVIDE SCOUR AND EROSION PROTECTION INCLUDING PROVISION OF SEDIMENT TRAPS AND FENCES TO MINIMISE DEPOSITION OF MATERIAL ONTO DOWNSTREAM OF THE PROPERTY AS INDICATED ON THE DRAWINGS.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER WORKING DRAWINGS, SPECIFICATIONS AND REPORTS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES AND VARIATIONS SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL LEVELS ARE TO BE TO A.H.D LEVEL DATUM.
FOR P.S.M. SURVEY ORIGIN CONTACT MICHAEL SLINGER & ASSOCIATES PTY. LTD. CONSULTING SURVEYORS ON Ph.(02)69264000 FOR MORE INFORMATION.

A SOILS INVESTIGATION HAS BEEN CARRIED OUT BY AITKEN ROWE GEOTECHNICAL ENGINEER, REFERENCE No. S21-294. DATED SEPTEMBER 2021.
THIS REPORT MUST BE READ IN ITS ENTIRETY PRIOR TO CONSTRUCTION BEING UNDERTAKEN.

ALL WORK TO CONFORM TO WAGGA WAGGA CITY COUNCIL STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY THE SUPERINTENDENT.

SETOUT OF CARPARK BAYS AND AISLES BY ARCHITECTS U.N.O.

ALL 'WORKS AS CONSTRUCTED' INFORMATION SHALL BE SUPPLIED IN BOTH HARD COPY AND ELECTRONIC DATA FORMAT TO THE RELEVANT AUTHORITIES REQUIREMENTS.

DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.

'U.N.O.' STANDS FOR UNLESS NOTED OTHERWISE.

IN CASE OF DOUBT, ASK!

IMPORTANT SAFETY NOTICE

MPN CONSULTING PTY LTD RECOGNISES THE IMPORTANCE OF OCCUPATIONAL HEALTH AND SAFETY. HOWEVER, MPN CONSULTING PTY LTD HAS NOT BEEN ENGAGED TO DEVELOP, CHECK, SUPERVISE OR CONTROL WORKERS OR METHODS OF WORK.

MPN CONSULTING PTY LTD DOES NOT HAVE THE CAPACITY OR AUTHORITY TO CONTROL WORKERS OR METHODS OF WORK.

NOTHING IN THESE DESIGNS SHOULD BE INTERPRETED AS GOING BEYOND THE STRUCTURAL INTEGRITY OF THE SUBJECT MATTER OF THE DESIGNS AND THEY SHOULD NOT BE USED AS AN INDICATOR OF THE APPROPRIATE METHODS OF WORK ON, IN OR AROUND THE SUBJECT MATTER.

CONCERNS ABOUT THE CONDUCT OF WORKERS OR METHODS OF WORK SHOULD BE RAISED WITH THE APPROPRIATE SAFETY OFFICIAL ON SITE.

PEDESTRIAN SURFACES

ALL SURFACES SUBJECT TO PEDESTRIAN TRAFFIC SHALL MEET THE MINIMUM PENDULUM OR RAMP RECOMMENDATIONS CONTAINED IN TABLE 3 OF AUSTRALIAN STANDARD HANDBOOK HB197:1999 - AN INTRODUCTORY GUIDE TO THE SLIP RESISTANCE OF PEDESTRIAN SURFACE MATERIALS. COMPLIANCE WITH THE RECOMMENDATIONS SHALL BE VERIFIED BY TESTING TO EITHER:- AS/NZS 4586:2004 - SLIP RESISTANCE CLASSIFICATIONS OF NEW PEDESTRIAN SURFACE MATERIALS. OR AS/NZS 4663:2004 - SLIP RESISTANCE MEASUREMENT OF EXISTING PEDESTRIAN SURFACES AS APPROPRIATE IN BOTH INSTANCES COMPLIANCE SHALL BE DEMONSTRATED BY APPLYING CLAUSE 5.3 - MEANS OF DEMONSTRATING COMPLIANCE OF AS/NZS 4586:2004 - SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.

IN GENERAL, THE CLASSIFICATION OF A SURFACING MATERIAL OR FINISH SHALL BE MADE ON A WORST CASE BASIS AS DETERMINED BY PENDULUM TESTING USING BOTH THE FOUR S AND TRL RUBBER SLIDER. WHERE ADDITIONAL TEST RESULTS ARE AVAILABLE (OIL -WET RAMP, WET/ BAREFOOT RAMP) THESE MAY BE TAKEN INTO CONSIDERATION.

ENVIRONMENTAL CONDITIONS

VEGETATION PROTECTION

TREES LOCATED ALONG THE FOOTPATH SHOULD BE, WHERE POSSIBLE TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.

WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHOULD BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.

WHERE POSSIBLE, TREE ROOTS SHOULD BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHOULD BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT COUNCIL ARBORIST FOR FURTHER ADVICE.

ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY COUNCIL'S RECOMMENDED TREE SERVICES.

SOIL

TOPSOIL AND SUBSOIL SHOULD BE STOCKPILED SEPARATELY. CARE SHOULD BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

REHABILITATION

PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS ARE TO BE REINSTATED.

PRE-DISTURBANCE VEGETATION PATTERNS SHOULD BE RESTORED. FOR FURTHER INFORMATION CONTACT COUNCIL ECOLOGICAL ASSESSMENT OFFICER.

NOTE: ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

EROSION AND SEDIMENTATION CONTROL NOTES

ALL WORK TO BE IN ACCORDANCE WITH MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION AND THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.

IF DIRECTED BY THE ENGINEER, TOPSOIL STOCKPILES ARE TO BE SOWN WITH A COVER CROP AS SOON AS PRACTICAL AFTER STOCKPILING.

NO DISTURBANCE TO VEGETATION IS TO TAKE PLACE BEYOND THE BOUNDARIES OF THE CURRENT STAGE OF DEVELOPMENT.

SEDIMENT IS TO BE PREVENTED FROM ENTERING STORMWATER GULLY PITS BY PLACING A PORTABLE SEDIMENT BARRIER.

DURING CONSTRUCTION, TEMPORARY DIVERSION DRAINS, SEDIMENT FENCES AND, OR SEDIMENT TRAPS ARE TO BE CONSTRUCTED AT REGULAR INTERVALS DOWN SLOPE PRIOR TO ANY BREAKS IN CONSTRUCTION (SUCH AS A WEEKEND) OR IF RAIN IS IMMINENT.

INSTALL SEDIMENT FENCES TO CONTROL SHEET FLOW OR SEDIMENT TRAPS TO CONTROL CONCENTRATED FLOW.

SERVICE TRENCHES ARE TO BE REVEGETATED WITH GRASS SODS AND TOPSOIL SAVED DURING EXCAVATION OF THE TRENCHES (AS APPROPRIATE). CUT AND FILL BATTERS ARE TO BE STABILISED WITH TOP SOIL AND SEEDED AS SOON AS PRACTICAL.

EROSION AND SEDIMENT CONTROL PROGRAM

GENERAL

- PRIOR TO COMMENCING WORK ON SITE THE CONTRACTOR SHALL ERECT AND/OR CONSTRUCT ALL ENVIRONMENTAL CONTROLS (SEDIMENT FENCES, DIVERSION DRAINS AND SEDIMENT BASINS) AS SHOWN ON MPN DRAWING 8962-BE.1.01. RECEIVING WATERS ARE TO BE TESTED FOR pH, TURBIDITY AND TSS AND LOGGED IN THE ENVIRONMENTAL LOG.
- ALL RUNOFF FROM THE SITE IS TO BE DIRECTED TO THE RELEVANT ENVIRONMENTAL CONTROL DEVICE PRIOR TO DISCHARGING FROM THE SITE.
- DURING THE CONSTRUCTION PROGRAM THE CONTRACTOR SHALL INSPECT ALL ENVIRONMENTAL CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT (IE. RAINFALL EXCEEDING 25mm IN 24 HOURS). ANY RECTIFICATION OF DAMAGE TO THE ENVIRONMENTAL CONTROL DEVICES OR CLEANING OUT OF THE DEVICES IS TO BE CARRIED OUT BY THE CONTRACTOR AS REQUIRED.

MAINTENANCE NOTES - DEFECTS LIABILITY

SUCH MAINTENANCE SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROVISIONS OF THE GENERAL CONDITIONS OF CONTRACT WITH RESPECT TO MAKING GOOD DEFECTS AND OTHER FAULTS DUE TO FAULTY REPAIR AND/OR WORKMANSHIP AND SHALL INCLUDE CLEANING UP AND REPAIR DUE TO STORM DAMAGE.

THE DEFECTS LIABILITY PERIOD SHALL BE FOR TWELVE MONTHS FROM THE DATE OF PRACTICAL COMPLETION.

SEDIMENT BASIN

1. WITHIN 36 TO 48 HOURS AFTER EACH STORM EVENT THE WATER IN THE SEDIMENT BASINS IS TO BE TESTED FOR TURBIDITY. SHOULD THE SUSPENDED SOLIDS OF THE WATER EXCEED 50MG/LITRE THEN THE WATER IS TO BE TREATED WITH GYPSUM AT THE RATE OF 32kg / 100m3 TO SETTLE OUT THE SUSPENDED SOLIDS. WATER IS TO BE RETESTED PRIOR TO RELEASE.

THE pH OF WATER IS TO BE TESTED. IF THE pH IS OUTSIDE OF THE RANGE 6.5 pH TO 8.5 pH UNITS IT SHALL BE TREATED TO BRING IT WITHIN THIS RANGE.

WHEN THE SUSPENDED SOLIDS LEVEL IS ACCEPTABLE THE WATER IS TO BE RELEASED OR PUMPED OUT ENSURING CAREFUL ATTENTION NOT TO DISTURB THE SETTLED SEDIMENT.

2. WHEN THE DEPTH OF SEDIMENT IN THE BASE OF ANY SEDIMENT BASIN EXCEEDS 300mm, THE BASIN OR DAM SHALL BE DRAINED AND THE SEDIMENT EXCAVATED AND REMOVED FROM SITE BY THE CONTRACTOR.

ENVIRONMENTAL LOG

1.THE CONTRACTOR SHALL MAINTAIN A DEDICATED ON SITE ENVIRONMENTAL LOG WHICH NOTES ALL WATER QUALITY SAMPLING AND MONITORING DATES, RESULTS AND MAINTENANCE RECORDS.

IT SHALL INCLUDE ALL RELEVANT INFORMATION PERTAINING TO INSPECTION AND MAINTENANCE OF DEVICES, DATES OF RAINFALL WATER QUALITY TESTING, BASIN DEWATERING

(DEWATERING OF BASINS AND DAMS MUST INCLUDE A SPACE FOR SIGN OFF BY THE CONTRACTOR THAT WATER QUALITY RESULTS ARE WITHIN APPROVED LIMITS.)

THE ENVIRONMENTAL LOG SHALL BE KEPT ON SITE AND IS TO BE MADE AVAILABLE FOR INSPECTION BY COUNCIL OFFICERS AT ALL TIMES.

BULK EARTHWORKS NOTES

1. GENERAL

EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROCEDURES SET DOWN IN AS 3798 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.

A LAYER OF 100mm THICK ROADBASE MATERIAL MINIMUM CBR 15 IS TO BE PLACED AND COMPACTED ON BUILDING AREAS IMMEDIATELY ON COMPLETION OF BULK EARTHWORKS.

FILL BATTERS ARE TO BE OVER FILLED AND COMPACTED TO 1.0m BEYOND FINAL BATTER FACE THEN CUT BACK TO FINAL BATTER.

SOFT SPOTS IN CLAY ARE TO BE DRAINED BY RUBBLE OR AGRICULTURAL DRAINS TO PREVENT 'SUMPS' FORMING.

AT COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT A 'WORKS AS CONSTRUCTED' SURVEY AND SUBMIT THE DETAILS SHOWN ON A PLAN TO THE SUPERINTENDENT.

2. SOILS REPORT

A SOILS INVESTIGATION HAS BEEN CARRIED OUT BY AITKEN ROWE GEOTECHNICAL ENGINEER , REFERENCE No. S21-294. DATED SEPTEMBER 2021.
THIS REPORT MUST BE READ IN ITS ENTIRETY PRIOR TO CONSTRUCTION BEING UNDERTAKEN.

3. SITE PREPARATION

CLEAR THE SITE OF ALL DEBRIS INCLUDING EXISTING BUILDING RUBBLE AND CONCRETE SLABS, TREES EXCEPTING THOSE TO BE RETAINED. GRASS AND TOP SOIL TO A DEPTH OF 200mm AND ORGANIC MATERIAL SUCH AS TREE ROOTS WHERE REQUIRED. STRIPPED TOP SOIL TO BE STOCKPILED ON SITE FOR REUSE IF REQUIRED OR REMOVED FROM SITE.

PRIOR TO THE PLACEMENT OF ANY FILLING PROOF ROLL THE SITE USING SIX PASSES OF A 10 TONNE MINIMUM STATIC WEIGHT VIBRATORY PAD TYPE ROLLER. SUBGRADE TO BE COMPACTED TO 100% MAXIMUM DRY DENSITY STANDARD COMPACTION TO E1.1 AS 1289. MOISTURE CONTENT OF THE SUBGRADE IS TO BE WITHIN THE RANGE OF 2% WET TO 0% DRY OF STANDARD OPTIMUM MOISTURE CONTENT.

SOFT SPOTS AND / OR LOOSE AREAS WHICH DO NOT IMPROVE WITH COMPACTION ARE TO BE EXCAVATED TO A MINIMUM DEPTH OF 500mm AND REPLACED. THESE AREAS ARE TO BE INSPECTED BY A GEOTECHNICAL ENGINEER TO ASSESS WHETHER FURTHER EXCAVATION IS REQUIRED OR IF OTHER MEASURES (SUCH AS CONSTRUCTION OF A BRIDGING LAYER) CAN BE ADOPTED. SELECT REPLACEMENT MATERIAL TO BE (MINIMUM CBR15) PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS, COMPACTED TO THE COMPACTION REQUIREMENTS.

4. FILL MATERIAL

IMPORTED FILL MATERIAL SHALL BE APPROVED GRANULAR MATERIAL FREE OF VEGETABLE MATTER AND CONFORMING TO THE FOLLOWING:-

AS SIEVE	% PASSING
75mm	100
4.75mm	30 - 100
0.075mm	3 - 30
LIQUID LIMIT	35% MAX.
PLASTICITY INDEX	15% MAX.
CBR	5% MIN.
LINEAR SHRINKAGE	8% MAX.

TEST CERTIFICATES ON THE TEST FILL MATERIAL SHALL BE SUPPLIED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO THE USE OF THE FILL MATERIAL.

ALL FILL MATERIAL INCLUDING ROAD PAVEMENT U.N.O. IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS AND COMPACTED TO THE FOLLOWING DENSITIES:

BUILDING AREA	100%	MAXIMUM DRY DENSITY STANDARD COMPACTION
UNDER ROADS A) >500mm BELOW SUBGRADE	98%	MAXIMUM DRY DENSITY STANDARD COMPACTION
B) <500MM BELOW SUBGRADE	100%	MAXIMUM DRY DENSITY STANDARD COMPACTION

REFER TO GEOTECHNICAL REPORT AND SPECIFIC CASE
FILL SHALL BE COMPACTED AND MAINTAINED AT MOISTURE CONTENTS AT PLACEMENT WITHIN THE RANGE OF 2% WET TO 0% DRY OF STANDARD OPTIMUM MOISTURE CONTENT U.N.O. (REFER GEOTECHNICAL REPORT AND SPECIFIC CASE.)

5. GEOTECHNICAL INSPECTIONS AND TEST CERTIFICATES

COMPACTION TESTS. TO BE CARRIED OUT IN ACCORDANCE WITH AS 3798 (REFER TO GEOTECHNICAL REPORT AND SPECIFIC CASE).

'LEVEL 1' GEOTECHNICAL SUPERVISION AS DEFINED IN SECTION 8 OF AS 3798 GUIDELINES OF EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS, SHALL BE PROVIDED UNDER ALL BUILDING AREAS AND ROADS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ORGANISING THE COMPACTION TESTS AND APPOINTING THE GEOTECHNICAL SUPERVISION UTILISING THE ENGINEER WHO COMPLETED THE SITE INVESTIGATION IN ACCORDANCE WITH AS 3798

6. SERVICES

PRIOR TO THE COMMENCEMENT OF WORKS THE CONTRACTOR IS TO IDENTIFY AND BE SATISFIED OF THE CORRECT LOCATIONS OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONTRACTOR'S EXPENSE.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SET OUT OF ALL SERVICES & AUXILIARY ITEMS WITHIN THEIR CORRECT ALLOCATION AREA.

ROADWORKS NOTES

FILL AND SUB GRADE SHALL BE COMPACTED AS DETAILED IN EARTHWORKS NOTES.

THE CONTRACTOR IS TO INITIALLY EXCAVATE THE PAVEMENT TO LEVEL THEN ARRANGE 4 DAY SOAKED CBR TESTS ON THE SUBGRADE AND NOTIFY THE SUPERINTENDENT WHO WILL DETERMINE FINAL PAVEMENT THICKNESS AND ARRANGE PAVEMENT APPROVAL FROM THE RELEVANT AUTHORITY.

ALL SUB GRADE AREA SHALL BE PROOF ROLLED AND COMPACTED TO MAXIMUM DRY DENSITY RATIO OF 100% STANDARD COMPACTION (AS 1289) WITH MOISTURE CONTENT WITHIN THE RANGE OF 2% WET TO 0% DRY OF STANDARD OPTIMUM MOISTURE CONTENT. ANY SOFT SPOTS ENCOUNTERED ARE TO BE EXCAVATED AND REPLACED WITH SELECT MATERIAL (MINIMUM CBR 15) AS DEFINED IN EARTHWORKS NOTES.

ALL FILL MATERIAL EXCLUDING ROAD PAVEMENT IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS AND COMPACTED TO DENSITIES OUTLINED IN THE EARTHWORKS NOTES.

ALL ROAD PAVEMENT MATERIAL IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS AND COMPACTED TO 95% MODIFIED MAXIMUM DRY DENSITY.

COMPACTION TEST RESULTS AND TEST LOCATIONS FOR BASE COURSE TESTING SHALL BE SUBMITTED TO AND APPROVED BY THE SUPERINTENDENT PRIOR TO PLACING SURFACE. SHOULD ANY TEST FAIL, THE CONTRACTOR SHALL REWORK THE AREA AS REQUIRED OR AS DIRECTED TO OBTAIN THE SPECIFIED COMPACTION. BASE COURSE MATERIAL SHALL NOT BE PLACED UNTIL THE KERBS HAVE ACHIEVED 20MPa STRENGTH.
ALL PAVEMENT GRAVELS & TRENCHES SHALL BE BACK FILLED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS TO NOT LESS THAN:

LOCATION	DENSITY	FREQUENCY
UNDER ROADS A) >500mm BELOW SUBGRADE	98% SMDD	1 TEST PER 2 LAYERS PER 40m WITH AT LEAST 1 TEST IN 5 BEING ADJACENT TO A MANHOLE OR GULLY
B) <500MM BELOW SUBGRADE	100% SMDD	
C) PAVEMENT	95% MMDD	
ELSEWHERE	98% SMDD	1 TEST PER LAYER PER 200m

SMDD - STANDARD MAXIMUM DRY DENSITY

MMDD - MODIFIED MAXIMUM DRY DENSITY

(AS PER AS. 1289)

PAVEMENT MATERIALS SHALL BE COMPACTED AND MAINTAINED AT MOISTURE CONTENTS AT PLACEMENT WITHIN THE RANGE OF 2% WET TO 2% DRY OF STANDARD OPTIMUM MOISTURE CONTENT U.N.O

TRENCH BACKFILL TESTING SHALL BE CARRIED OUT ON EACH ALTERNATE COMPACTED LAYER AT MAXIMUM 50m CENTRES AND NO MORE THAN 3m FROM MANHOLE STRUCTURE.

PAVEMENT MATERIAL CERTIFICATES AND GRADINGS ARE TO BE PROVIDED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO CONSTRUCTION.

PAVEMENT MATERIAL SHALL EXTEND 150mm BEHIND KERB AND KERB AND CHANNEL.

WHERE NEW PAVEMENT JOINS EXISTING PAVEMENT THE EXISTING PAVEMENT IS TO BE SAW CUT AS INDICATED TO PROVIDE A NEAT STRAIGHT LINE.

ALL FINISHED SURFACE LEVELS ARE SHOWN AT THE LIP OF THE KERB AND CHANNEL OR THE NOMINAL FACE OF THE KERB UNLESS NOTED OTHER WISE.

KERB AND KERB AND GUTTER TO BE 150mm HIGH INTEGRAL BARRIER KERB & GUTTER IN ACCORDANCE WITH WAGGA WAGGA CITY COUNCIL STANDARD DWG NO. EDS 02.03.

KERB RAMPS ARE TO BE IN ACCORDANCE WITH WAGGA WAGGA CITY COUNCIL STANDARD DWG NO. EDS02.16A.

WHERE COUNCIL STANDARD DOES NOT NOMINATE CONSTRUCTION METHODS OF CONCRETE KERB SECTIONS TOOLED GROOVE JOINTS ARE TO BE PLACED AT 3m MAXIMUM CENTRES. PLACE ADDITIONAL JOINTS TO KERBS, MEDIANS, INVERTS IN THE SAME LOCATION AS THE JOINTS IN THE CONCRETE PAVEMENTS WHERE APPLICABLE.

SUBSOIL DRAINS SHALL BE MIN 1000 CORRUGATED POLYETHYLENE PIPE TO AS 2439 AND CONSTRUCTED IN ACCORDANCE WITH WAGGA WAGGA CITY COUNCIL STANDARD DWG. EDS 02.11.

SUBSOIL DRAINS ARE TO BE USED IN ALL AREAS, EXCEPT WHERE SUBSOIL DRAINS ARE SHOWN BENEATH TRAFFICABLE AREAS THE PIPES ARE TO BE WATER TIGHT UPVC CLASS PN12 OR RCP CLASS 2.

SUBSOIL DRAIN CLEAN OUTS ARE TO BE PLACED AT 50m MAXIMUM CENTRES.

ALL SAFETY SIGNS AND BARRICADES SHALL BE ERECTED TO COMPLY WITH RMS STANDARDS AND AS 1742.

WHERE LANDSCAPING IS REMOVED IN NEW PAVEMENT AREAS EXCAVATE 500mm MINIMUM BELOW UNDERSIDE OF NEW PAVEMENT TO REMOVE ALL ROOT AND ORGANIC MATERIAL FROM PAVEMENT AREA. COMPACT AREA TO A MAXIMUM DRY DENSITY OF 100% STANDARD COMPACTION. FOLLOWING COMPACTION PLACE SELECT FILL MATERIAL (MINIMUM CBR 15) IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS TO THE UNDER SIDE OF NEW PAVEMENT MATERIAL TO M.D.D. RATIO OF 100% STANDARD COMPACTION. (AS 1289).

WHERE NEW LANDSCAPING IS TO BE ESTABLISHED IN EXISTING PAVEMENT AREA, REMOVE A.C. SURFACE. CONCRETE KERBS AND ROAD BASE TO A MINIMUM DEPTH OF 300mm. INSTALL SUBSOIL DRAINAGE TO THE PERIMETER OF THE NEW LANDSCAPE AREA AT A DEPTH OF 300mm BELOW SUBGRADE LEVEL. FILL WITH TOP SOIL TO A DEPTH OF 100mm BELOW TOP OF KERB. REFER TO ARCHITECTS AND / OR LANDSCAPE CONSULTANTS DETAILS FOR FINAL PLANTING.

THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT 'WORKS AS CONSTRUCTED' SURVEY AND SUBMIT DETAILS SHOWN ON A PLAN TO THE SUPERINTENDENT AT COMPLETION OF CONSTRUCTION. 'WORKS AS CONSTRUCTED' SURVEY IS TO SHOW BUT NOT BE LIMITED TO LEVEL AND LOCATION OF NEW KERB, KERB AND CHANNEL, CONCRETE INVERT AND KERB RAMP AND ANY DETAILS RELATED TO FINAL ROAD WORKS.

PAVEMENT AND SIGNAGE NOTES

ALL PAVEMENT MARKING AND SIGNAGE TO BE IN ACCORDANCE WITH RMS SUPPLEMENTS TO AS 1742, 1743 & 2890 AND AS 1742 MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS TO BE SIZE A.

FOR SIGNAGE AND ASSEMBLY DETAILS REFER RMS SUPPLEMENTS TO AS 1742: MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

FOR ROADWORK DELINEATOR DETAILS REFER RMS SUPPLEMENTS TO AS 1742: MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

EXISTING PAVEMENT MARKING ARE TO BE REMOVED BY GRINDING.

LINE MARKING SHALL BE DULUX ROADMASTER WATER BASED PAVEMENT MARKING OR APPROVED EQUIVALENT.

STORMWATER DRAINAGE NOTES

ALL STORMWATER DRAINAGE PIPES 2250 OR SMALLER SHALL BE CLASS 2' RCP OR CLASS DWV uPVC.

ALL STORM WATER PIPES 3000 OR GREATER SHALL BE CLASS 2' RCP UNLESS NOTED OTHERWISE.

FRC PIPES SHALL NOT BE USED.

ALL STORMWATER PIPES 6750 OR GREATER SHALL BE FLUSH JOINTED.

ALL STORMWATER PIPES 6000 OR SMALLER SHALL BE RUBBER RING JOINTED.

ALL STORMWATER BEDDING SHALL BE TYPE 'H2' U.N.O.

1m SUBSOIL LEAD IN TO PITS AND MANHOLES IS REQUIRED IN ALL STORMWATER TRENCHES.

FILL BETWEEN MULTI CELL BOX CULVERTS TO BE DRY LEAN MIX.

BITUTHENE TAPE TO BE USED ON BOX CULVERT JOINTS.

ALL DOWN PIPE CONNECTIONS SHALL BE PVC PIPE, RUBBER RING JOINTED CLASS DWV

DE-WATERING WHERE REQUIRED TO BE AT THE CONTRACTORS COST.

ALL CONNECTIONS FROM DOWN PIPES TO MAIN DRAIN LINES SHALL BE MADE WITH MANUFACTURED FITTINGS UNLESS NOTED OTHERWISE.

INVERT LEVELS SHOWN ON PLAN ARE AT PIPE / STRUCTURE JUNCTION.

PIPE LENGTHS SHOWN ON PLAN / LONG SECTION ARE TO CENTRE OF STRUCTURE.

MINIMUM COVER TO STORMWATER PIPES TO BE AS FOLLOWS:
PIPES IN ROADWAYS - 600mm COVER
PIPES IN LANDSCAPE AREAS - 450mm COVER U.N.O.

ALL STORMWATER JUNCTION PIT SHALL BE IN ACCORDANCE WITH WAGGA WAGGA CITY COUNCIL STANDARD DWG NO. EDS 03.06.

ALL STORMWATER TO HAVE A HEAVY DUTY TRAFFICABLE LID U.N.O.

ALL SIDE ENTRY PITS SHALL BE IN ACCORDANCE WITH WAGGA WAGGA CITY COUNCIL STANDARD DWG NO. EDS 03.04.

KERB ADAPTERS SHALL BE PROVIDED IN KERB AND CHANNEL IN ACCORDANCE WITH WAGGA WAGGA CITY COUNCIL REQUIREMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING GULLY PITS IN RELATION TO THE NOMINAL FACE OF KERB AND KERB AND CHANNEL.

MINIMUM COVER TO ROOF WATER PIPES TO BE 450mm EXCEPT WHERE LESS COVER IS NECESSARY TO DISCHARGE TO STREET KERB AND CHANNEL.

THE CONTRACTOR SHALL VERIFY THE INVERT LEVEL AT THE CONNECTION WITH EXISTING STORMWATER PIPES PRIOR TO LAYING PIPES.

ALL TRENCHES SHALL BE BACK FILLED UNDER THE ROAD IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS NOT LESS THAN 100% MAXIMUM DRY DENSITY STANDARD COMPACTION TEST (AS 1289).

TRENCH BACKFILL TESTING SHALL BE CARRIED OUT ON EACH ALTERNATE COMPACTED LAYER AT A MAXIMUM 50m CENTRES AND NO MORE THAN 3m FROM MANHOLE STRUCTURE.

THE CONTRACTOR IS TO ENSURE THE METHOD OF COMPACTION OF THE BACKFILL IS SUITABLE FOR THE CLASS OF PIPE INDICATED ON THE DRAWINGS.

IF NECESSARY THE CONTRACTOR IS TO ADJUST HIS COMPACTION METHODS TO SUIT THE PIPE CLASS.

WHERE THE TRENCH IS EXCAVATED IN WATERLOGGED GROUND OR WHERE THE FOUNDATION IS CONSIDERED UNSUITABLE IN THE OPINION OF THE SUPERINTENDENT, A LAYER OF CRUSHED ROCK, 40mm TO 20mm SIZE OR OTHER MATERIALS APPROVED BY THE INSPECTING ENGINEER SHALL BE LAID IN A 500mm THICK LAYER BELOW THE CULVERT BASE OR PIPE. THESE AREAS ARE TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER TO ASSESS WHETHER FURTHER EXCAVATION IS REQUIRED OR OTHER MEASURES CAN BE ADOPTED.

THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT A 'WORKS AS CONSTRUCTED' SURVEY TO SUBMIT DETAILS SHOWN ON PLAN TO THE SUPERINTENDENT AT COMPLETION OF CONSTRUCTION. 'WORKS AS CONSTRUCTED' SURVEY IS TO SHOW BUT NOT BE LIMITED TO LEVEL AND LOCATION OF ALL DRAINAGE STRUCTURES, PIPES SIZES AND INVERT LEVELS.

PRIOR TO WORKS GOING ON MAINTENANCE OR A WORKS COMPLETION CERTIFICATE IS PROVIDED, THE CONTRACTOR SHALL ARRANGE FOR A CCTV TO BE CARRIED OUT.

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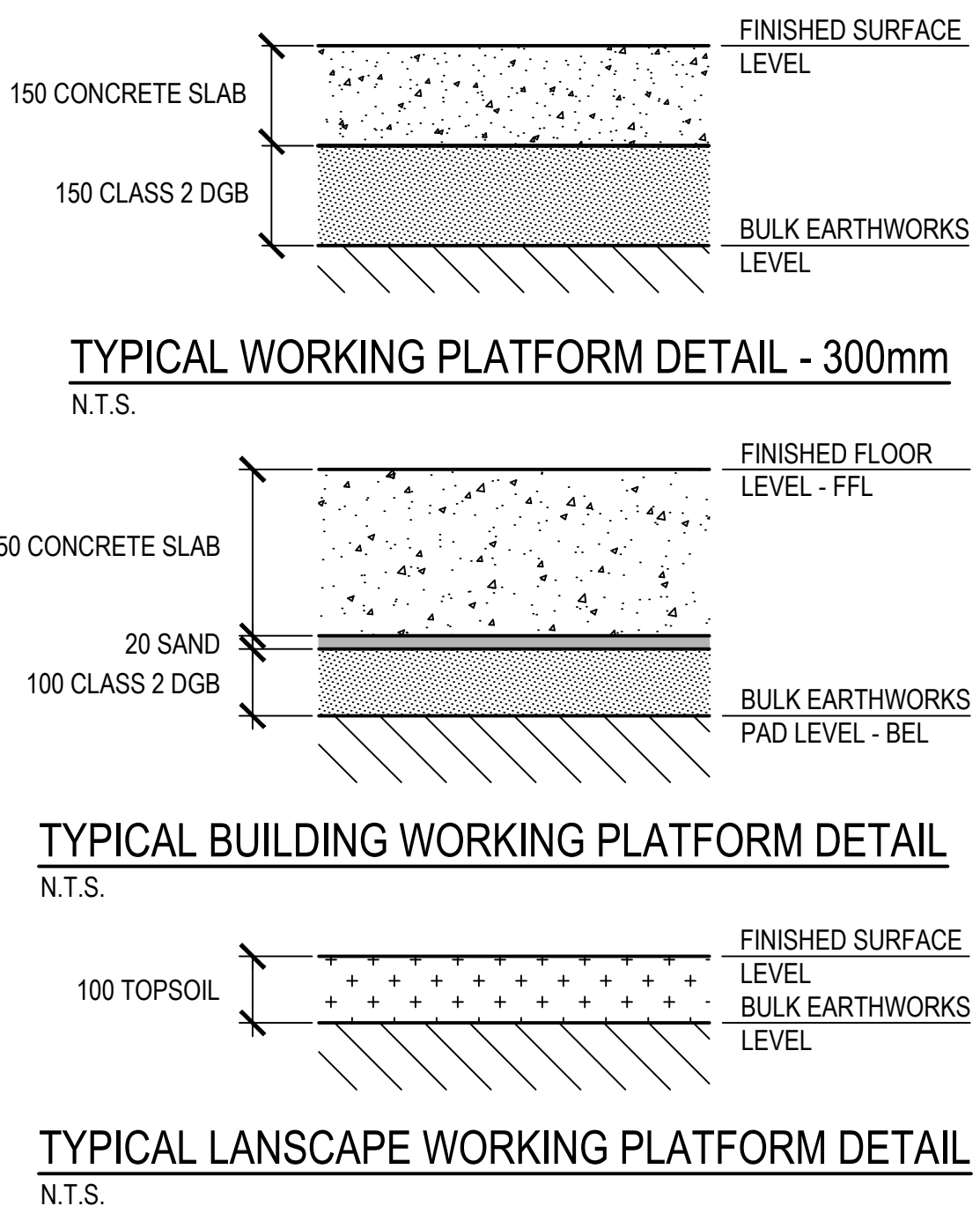
Project No.	Drawing No.	Rev No.
8962	CN.0.02	B

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EARTHWORKS TABLE				
SITE	STRIP (m³) (200 DEEP)	CUT (m³)	FILL (m³)	SHORT (m³)
SITE EARTHWORKS	600	350	485	135

EXISTING	LEGEND	PROPOSED
	PROPERTY BOUNDARY	
	CONTOUR	
	BUILDING	
	CONCRETE	
	EDGE OF BITUMEN	
	KERB	
	KERB AND CHANNEL	
	KERB RAMP	
	GUARD RAIL	
	STORM WATER MAIN	
	WATER MAIN	
	SEWER MAIN	
	TELECOMMUNICATIONS	
	U/G ELECTRICITY	
	O/H ELECTRICITY	
	FENCE	
	RETAINING WALL	
	SHORING WALL	
	TOP OF BATTER	
	FACE OF BATTER	
	TOE OF BATTER	
	SWALE DRAIN	
	BULK EARTHWORKS LEVEL	
	TREE	
	BOREHOLE	
	TEST PIT	
	CUT AREA	
	FILL AREA	
	CONSTRUCTION ENTRY / EXIT	
	SEDIMENT FENCE	
	CHECK DAM	
	INLET SEDIMENT TRAP	

[illegible]

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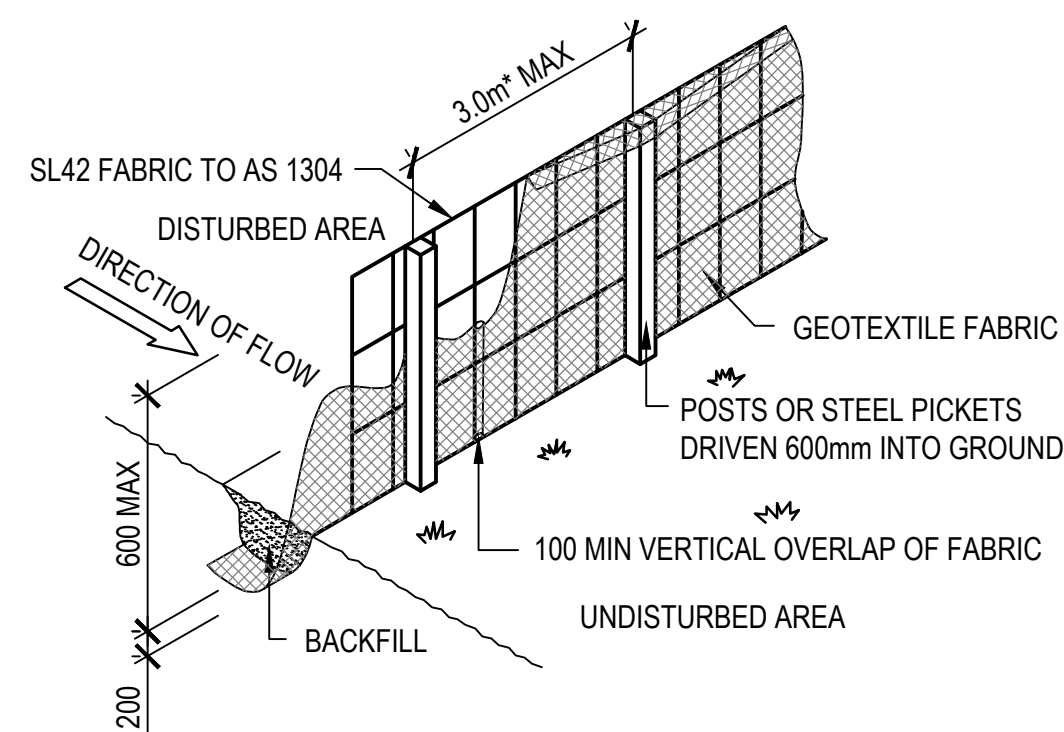
TEYS AUSTRALIA - PLATE
FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title

BULK EARTHWORKS PLAN

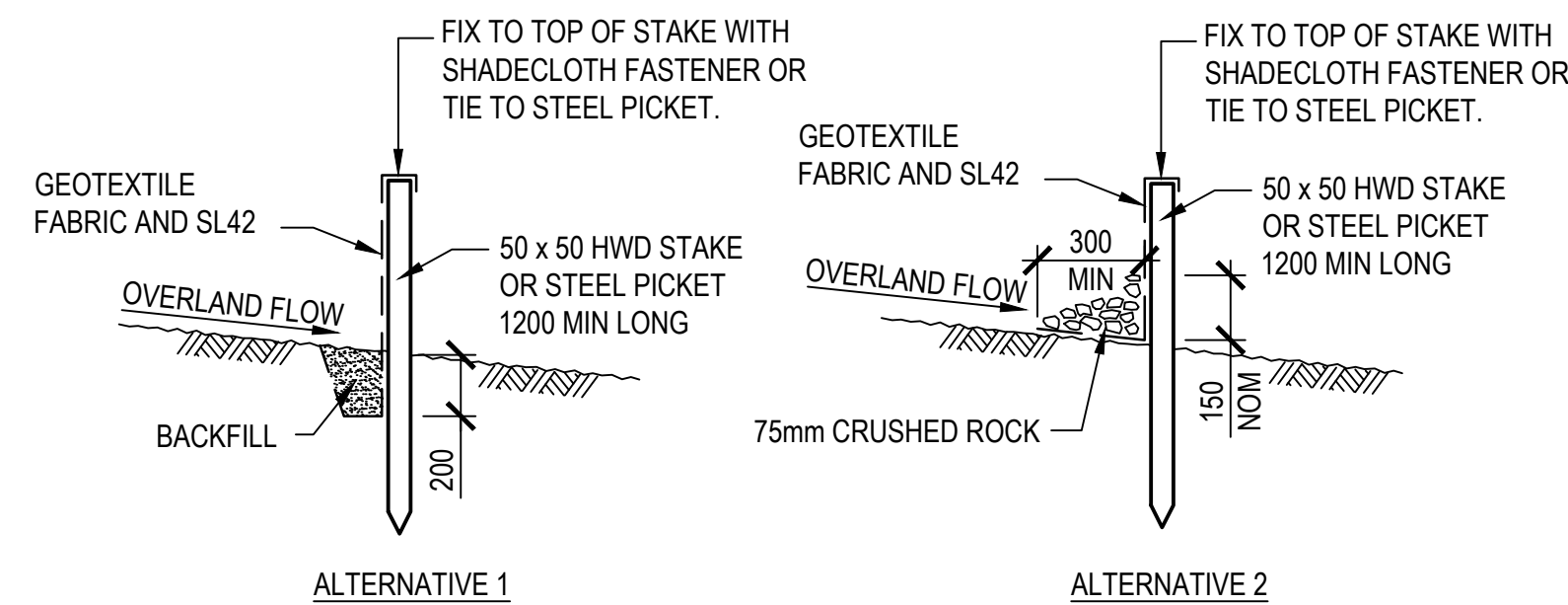
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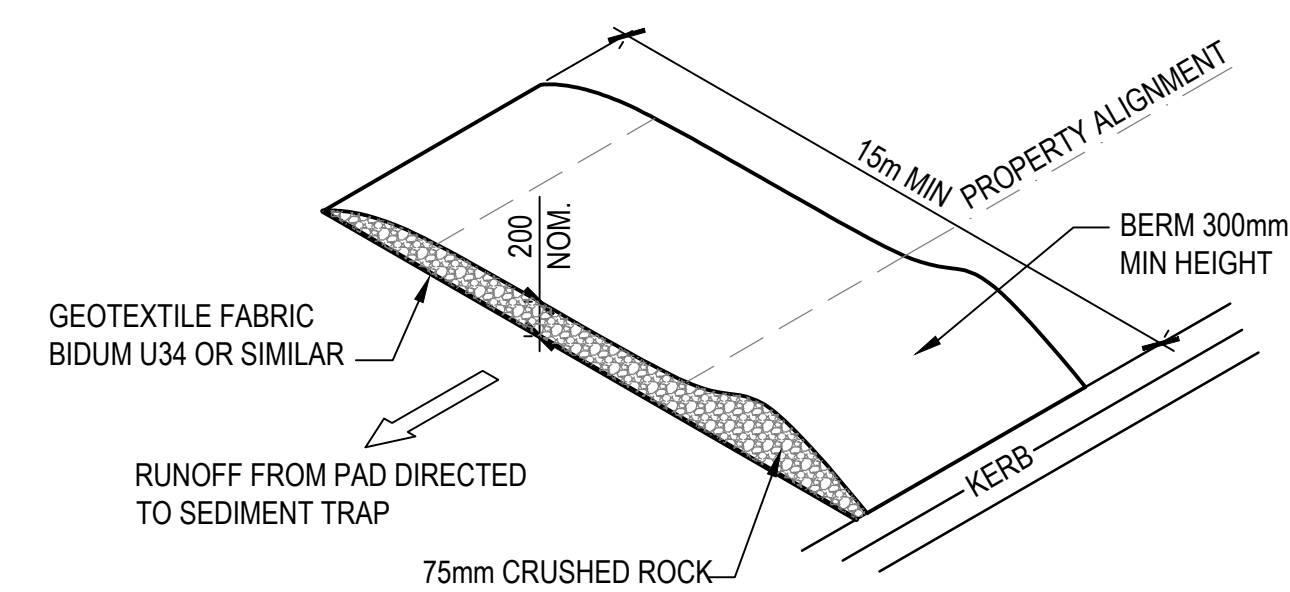
TYPICAL SEDIMENT FENCE ELEVATION

* 2000 MAX WITH OUT SL42 MESH
N.T.S.



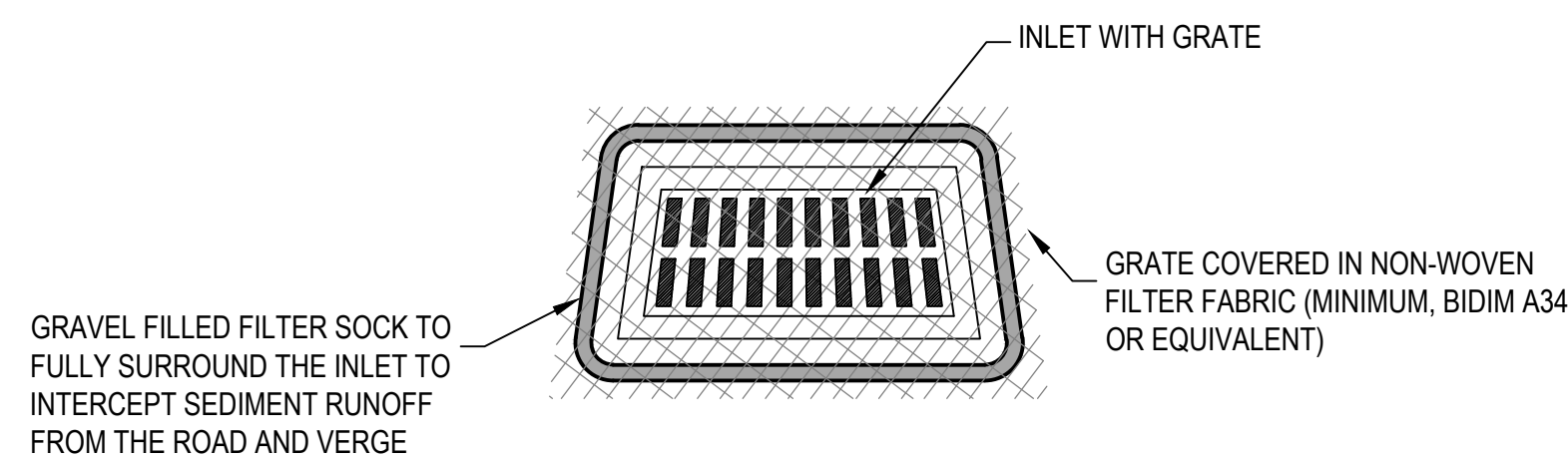
TYPICAL SEDIMENT FENCE SECTIONS

N.T.S.



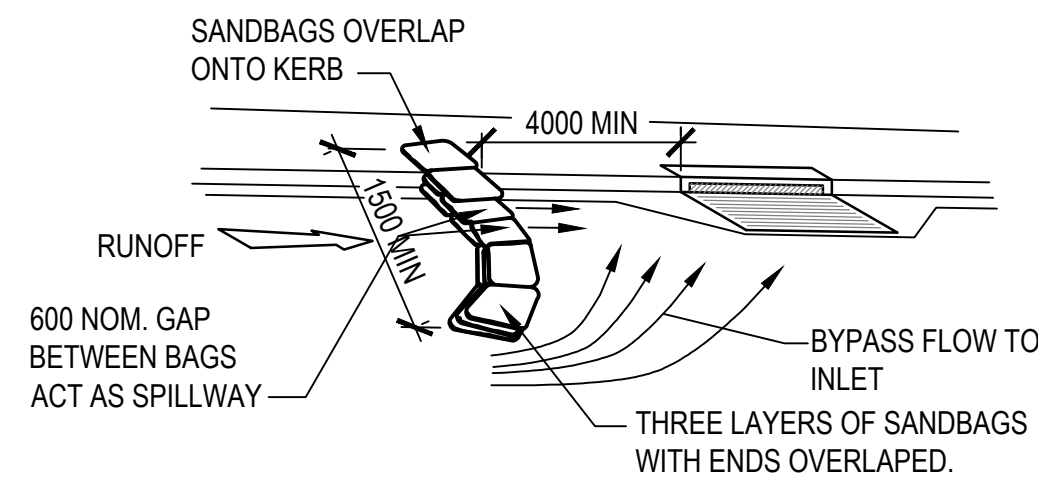
TYPICAL TEMPORARY CONSTRUCTION ENTRY / EXIT DETAIL

N.T.S.



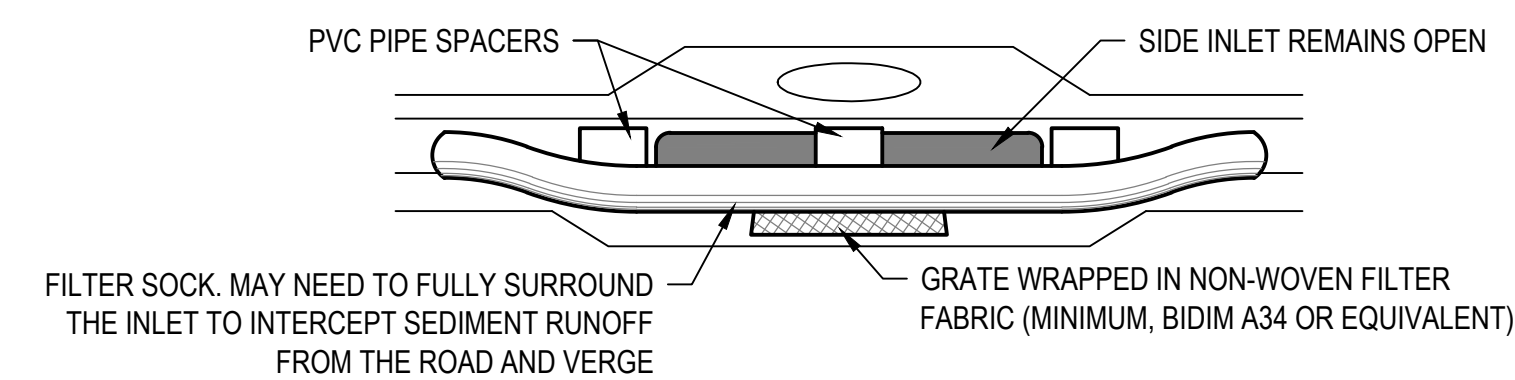
TYPICAL FIELD INLET SEDIMENT TRAP.

N.T.S.



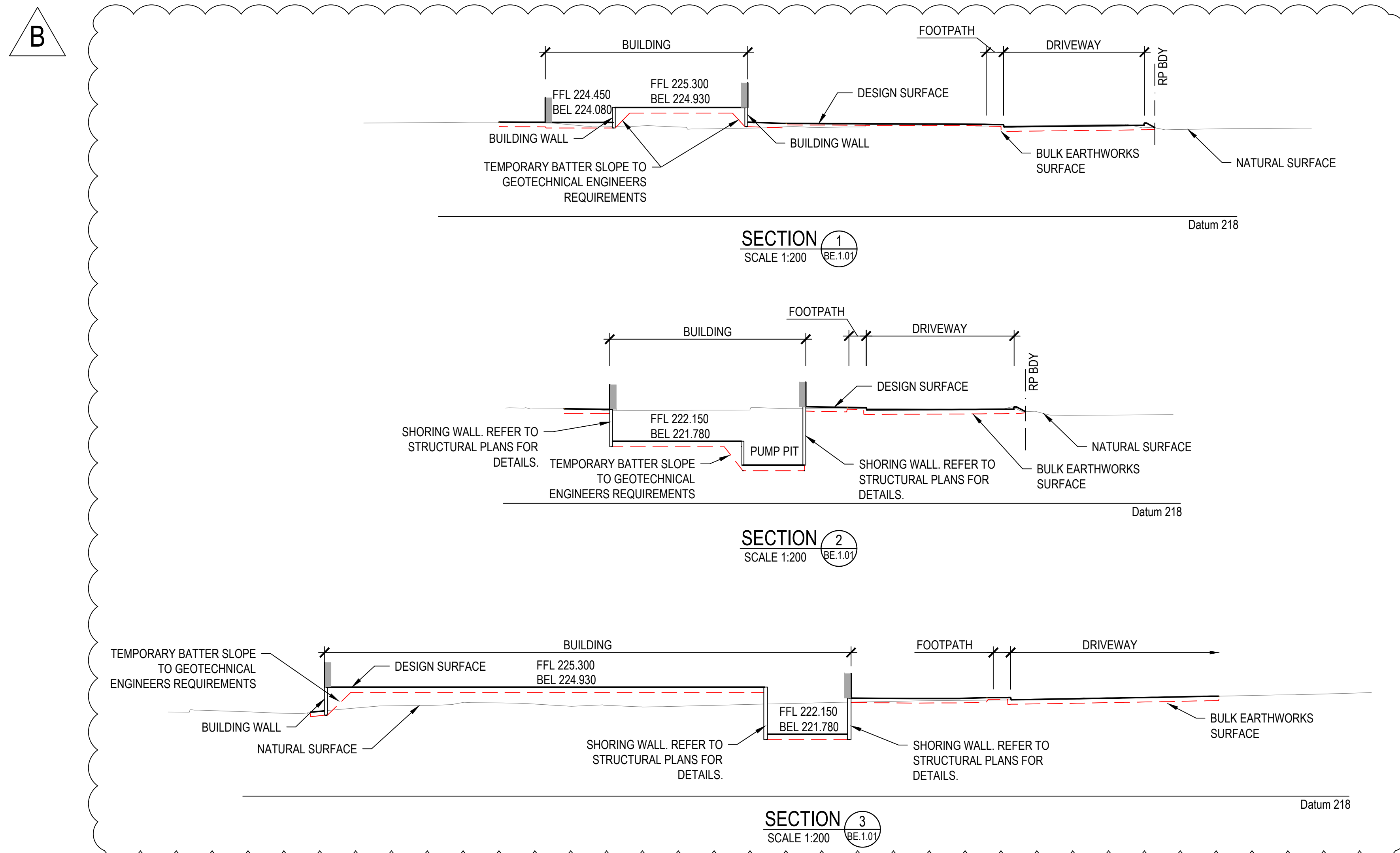
TYPICAL ON GRADE KERB INLET SEDIMENT TRAP.

N.T.S.

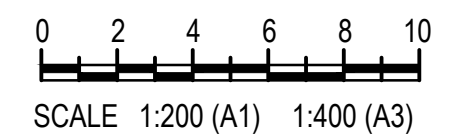


TYPICAL SAG INLET SEDIMENT TRAP.

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TEYS AUSTRALIA - PLATE
FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title
**BULK EARTHWORKS
SECTIONS AND DETAILS**

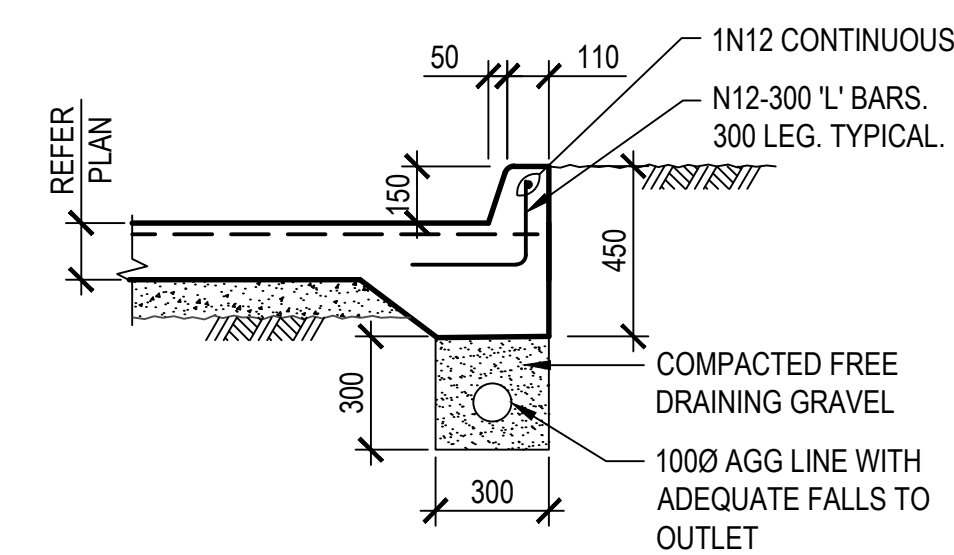
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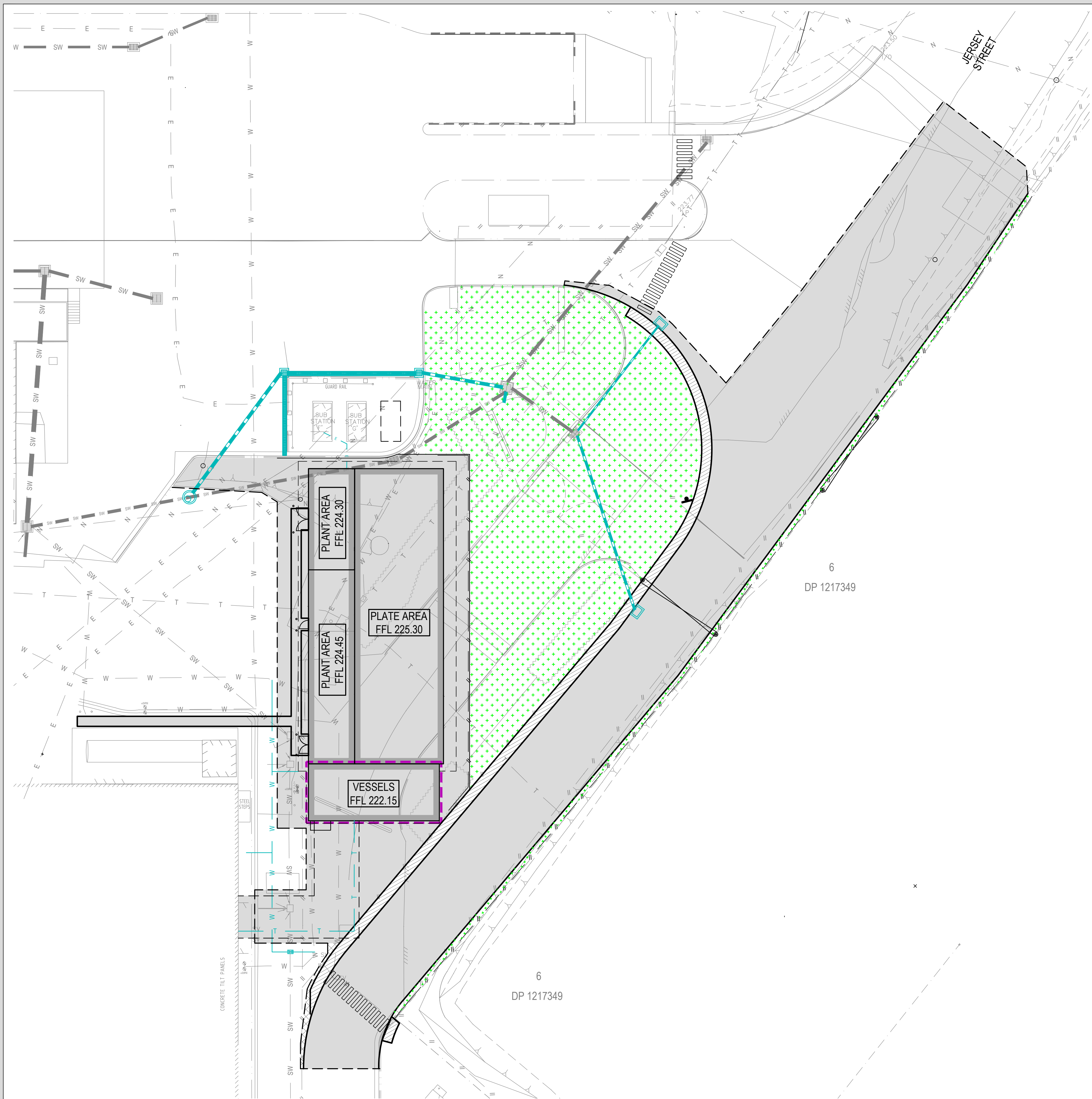


TYPICAL MANHOLE SETOUT
SCALE 1:50

DENOTES SETOUT POINT

Diagram illustrating the cross-section detail of a trench grate assembly. The assembly consists of an existing slab, a heavy duty gatic type trench grate, and a concrete base. The concrete base is reinforced with N12-300 and 7N12. The dimensions shown are 125, 300, 200, 300, and 250. The diagram also includes labels for 'EXISTING SLAB', 'HEAVY DUTY GATIC TYPE TRENCH GRATE TYPE', and 'REFER TO STRUCTURAL PLANS FOR JOINT DETAILS'.

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EXISTING

PROPOSED

PROPERTY BOUNDARY

BUILDING

CONCRETE

EDGE OF BITUMEN

KERB

KERB AND CHANNEL

FLUSH KERB

KERB RAMP

RETAINING WALL

SHORING WALL

SWALE DRAIN

LINE OF SAW CUT

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PAVEMENT LEGEND

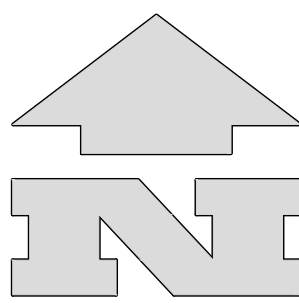
ASSUME SUBGRADE 3%
SUBJECT TO GEOTECHNICAL TESTS / PAVEMENT
DESIGN & AUTHORITY APPROVALS (DEPTHS OF
GRAVEL PAVEMENT ARE PROVISIONAL)

FOOTPATH
125mm N32 CONCRETE WITH SL72 MESH,
30mm TOP COVER
REFER IPWEA STD DWG RS-065 FOR
DETAILS.

LANDSCAPE
REFER LANDSCAPE ARCHITECTS
DRAWINGS FOR DETAILS

REFER STRUCTURAL DRAWINGS
REFERSTRUCTURAL DRAWINGS
FOR DETAILS

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0 2 4 6 8 10
SCALE 1:200 (A1) 1:400 (A3)

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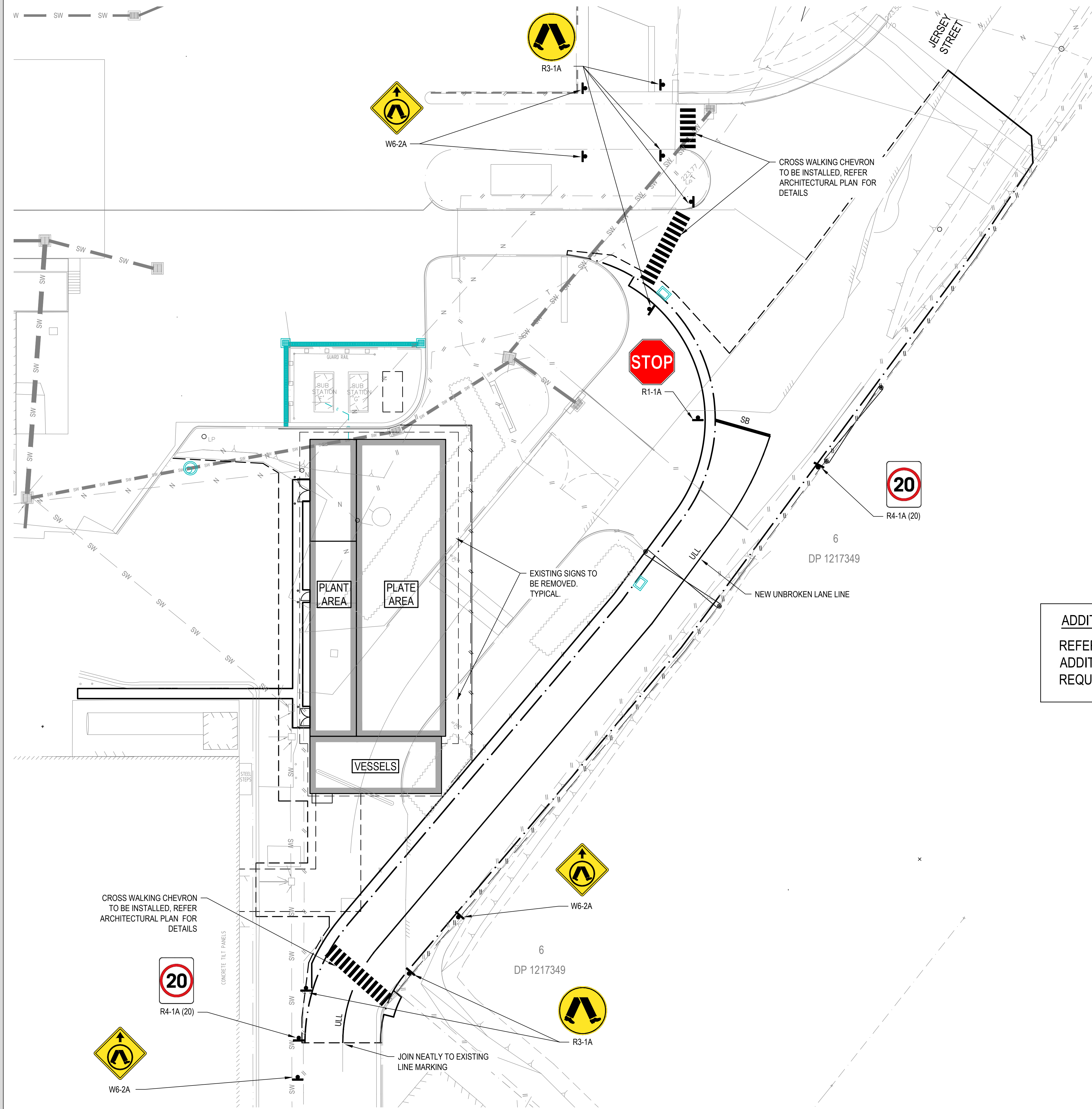
TEYS AUSTRALIA - PLATE
FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title
PAVEMENT TYPES PLAN
PLAN

Scale		AS SHOWN	
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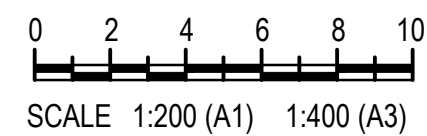
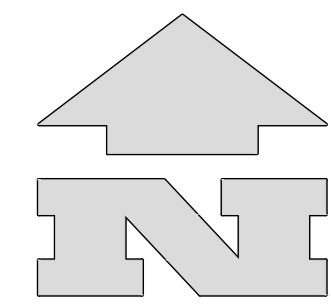


LEGEND	
EXISTING	PROPOSED
	PROPERTY BOUNDARY
	BUILDING
	CONCRETE
	EDGE OF BITUMEN
	KERB
	KERB AND CHANNEL
	FLUSH KERB
	KERB RAMP
	SIGN
	SIGN TO BE REMOVED

LANE LINE LEGEND AND DIMENSIONS	
LL	BROKEN LANE LINE
ULL	UNBROKEN LANE LINE
CL	CONTINUITY LINE
SB	STOP BAR
TL	TURN LINE
GWL	GIVE WAY LINE
PCW	CROSSWALK
NSL	NO STOPPING LINE
EL	EDGE LINE
LINEMARKING TO BE REMOVED	
PAVEMENT AND SIGNAGE NOTES	
<ul style="list-style-type: none">ALL PAVEMENT MARKING TO BE IN ACCORDANCE WITH AS 1742 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.EXISTING PAVEMENT MARKINGS ARE TO BE REMOVED BY SCABBLING.LINE MARKING SHALL BE THERMOPLASTIC OR APPROVED EQUIVALENT IN ACCORDANCE WITH MAIN ROADS TECHNICAL SPECIFICATION MRTS45 FOR ROAD SURFACE DELINEATION.ALL PARKING BAYS TO BE PAINTED WITH A 80mm WIDE UNBROKEN LINE.FOR SIGNAGE ASSEMBLY DETAILS REFER RMS MUTCD .FOR ROADWORKS DELINEATOR DETAILS REFER RMS MUTCD.	

ADDITIONAL PAVEMENT MARKING & SIGNAGE
REFER ARCHITECTURAL DRAWINGS FOR ANY
ADDITIONAL PAVEMENT MARKING AND SIGNAGE
REQUIREMENTS NOT SHOWN ON THESE DRAWINGS

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FREEZER PROJECT
WAGGA WAGGA, NSW

Drawing Title
SIGNS AND PAVEMENT
MARKING PLAN

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Drawing No.	PM.1.01	Issue	A

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