

Stormwater Report

Prepared for Metford Medical

07/2023
Project Number N23056
Version 1

OPPORTUNITIES
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Document Control				
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1. Executive Summary

BG&E Pty Ltd (BG&E) has been engaged by Metford Medical to prepare a Stormwater Report for the proposed development of 395 Metford Road, Metford. The site is proposed to include two buildings with a one-way access road running from Metford Road to Turton Street. The site is also proposed to have 71 above ground parking spaces with adjacent footpaths. The lot is proposed to be subdivided into two individual lots, with one integrated stormwater solution to satisfy all requirements.

This report will outline the methodology adopted and associated results of:

- Requirement of a detention tank; and
- Water sensitive urban design.

It is understood that this report will be utilised in the Development Application submission and will also inform the basis of the next phases of design works to ensure continuity through the project. As outlined in this report, the following key items have been identified:

- Discharge Rate has been calculated using DRAINS in the 1% and 10% AEP storm events.
- OSD been designed in DRAINS using pre to post analysis in the 1% and 10% AEP storm events as per council requirements.
- WSUD infrastructure has been designed to achieve targets required by Council.

Relevant Documentation

The following documentation has been used as a reference in the preparation of this report and the stormwater concept plans:

- Architectural Plans provided by EJE dated July 2023
- Survey Plan provided by Rennie Golledge Pty Ltd Dated October 2022

2. Existing Conditions

2.1 Existing Site

The site is in Metford and involves the subdivision of the lot into 2 individual lots. Metford is a suburb of Maitland and located near the recently completed new Maitland Hospital. The suburb is located about 6kms away from Maitland and 26 kms from Newcastle. Currently the site is being used as a concrete batching plant by Hanson.

Figure 1: Site Location (Macone Maps July 2023)



The site has an area of 5177 m², as measured by the surveyor, and is mainly concrete hardstand site with some portion being naturally landscaped with wild grasses and some small shrubs. The site has a gentle grade of 3% fall from east to west. Figure 1 above shown the location of the site and its neighbouring properties and road frontages.

2.2 Existing Stormwater Infrastructure and Drainage

There is limited information available on the current site drainage. It is assumed, prior to the development the site currently drains to Turton Street via gravity over overland flow. As such, a kerb inlet pit is located along the property frontage of Turton Street with existing council pit and pipe network running under the road. There is also existing drainage along Metford Road. Refer to Appendix 1. Survey plan, for information on existing drainage. Based on the survey, there were no pits on the site. Any addition drainage information in unknown. Currently it is assumed that no water from the site is being collected by an underground piped system draining into the trunk drainage under Turton Street. Limited information is available regarding the inverts and pipe sizes of the council system. Currently is assumed the KIP on Turton Steet has minimum cover of 400mm and minimum pipe size of Ø375mm.

3. Proposed Development

The development plans for the site indicate demolition of all existing structures associated with the former concrete batching plant and the construction of two stand-alone buildings; one located along the frontage of Metford Road and the other located along the frontage of Turton Street. The buildings are separated into individual tenancies. The proposal also includes the construction of 71 above ground parking spaces on the hardstand. The proposal allows for some landscaped spaces, but the developed site will consist of impervious hardstand. The site has a one-way access driveway coming in from Metford Road down to Turton Street with parking spaces along at least one side of the driveway. Refer to Figure 2 below for the proposed site plan and Appendix 2 for all the architectural general arrangement plans.

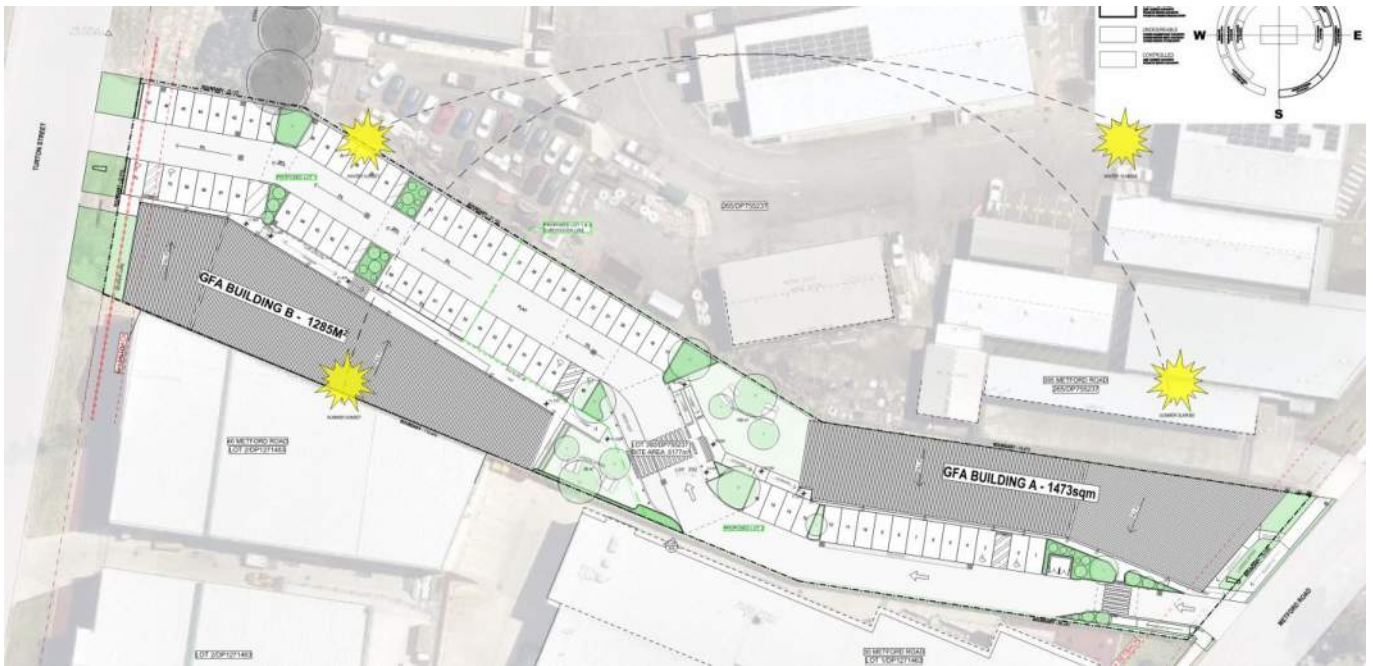


Figure 2: Proposed Site Plan

The site is also proposed to be split into 2 separate lots as a part of this development. The green line in the architectural plans show the proposed lot boundaries lines after the subdivision.

4. Design Criteria

An integrated stormwater management and water sensitive urban design concept has been prepared for the development. The strategy has been developed to meet the following objectives and comply with:

- Manual of Engineering Standards - 6. Stormwater Drainage
- Manual of Engineering Standards - Appendix C – Stormwater Drainage

4.1 Site Specific Requirements - Drainage

As per Manual of Engineering Standards - 6. Stormwater Drainage, the development is required to provide an On-Site Detention (OSD) tank to restrict the flow from site and provide additional storage to store excess water on site. The site requirements have been designed using the detailed method as outlined by council. Figure 3 below contains the OSD sizing information available from council as the guiding principles for Stormwater Management.

STORMWATER DRAINAGE

1. GENERAL

This chapter addresses stormwater design for the development of land (principally as greenfield subdivision sites), and does not assume coincidental influence from Hunter River flooding beyond normal flow levels, nor addresses drainage structures which may be affected by flooding of the Hunter River. Drainage structures inundated by such flooding are not prohibited by this Manual, although particular requirements may apply.

Stormwater drainage systems shall be designed to achieve the following goals:-

- An underground "minor system" of conduits that eliminates inconvenience to traffic and pedestrians.
- An overland "major system" that conveys stormwater flows within suitable velocity/depth limits, generally located within public land, or where approved or unavoidable, within private land covered by an easement.
- Detention of stormwater flows that mimics natural, pre-developed flows for all storm events up to and including the 100 year ARI event.

Figure 3: Excerpt Maitland City Council | Manual of Engineering Standards – Stormwater Section 8

4.2 Site Specific Requirements – WSUD

As per the Maitland City Council - Manual of Engineering Standards – Stormwater, the development is required to meet water treatment targets. Table 1 below outlines the targets to be met within the development.

POST CONSTRUCTION STORMWATER MANAGEMENT TARGETS

POLLUTANT	RETENTION CRITERIA
Suspended Solids	80% of average annual load
Total Phosphorus	45% of average annual load
Total Nitrogen	45% of average annual load
Gross Pollutants >5mm	70% of average annual load

Figure 4: WSUD Targets as per Maitland Council Standards

5. Proposed Design

Based on the requirements, discussed in Section 4, the development site has been designed to independently cater for all quality and quantity requirements. As required by council, an OSD tank has been designed to restrict flows from the post-developed condition to pre-development free flow conditions (100% pervious) in all storm events between 10% AEP and 1% AEP event. The proposed tank is a 100 m³ underground tank and has been installed with an orifice plate with a Ø300mm orifice to restrict flows. Due to site grades, a piped stormwater drainage line running along the middle of the site is proposed, falling along with the natural grades of the site i.e. east to west. The site has been graded to allow for all water to fall towards the middle access way and flow towards the OSD tank in the event of blockages of excessive rainfall. The pipe system has been sized for storm events up to the 1% AEP event.

A full set of the proposed civil/stormwater plans are attached in Appendix 3.

5.1 DRAINS Model and Results

The design was completed using DRAINS using a Horton/ILSAX model. The data was collected from the Bureau of Meteorology's Australian Rainfall and Runoff Hub. The ILSAX model has been modelling to assumes the soil type 3 which assumes soil that hinders downward movement of water.

The pre-developed node, as per council requirements, as been modelling to be a free-flowing greenfield site. Due to the length of the site the catchment has been manually modelled to account for the longer time of concentration of the undeveloped site. The pre and post development catchments nodes are shown in figures below.

Parameter	Paved	Supplementary	Grassed
Percentage of area	0	0	100
Additional time (mins)	0	0	2
Flow path length (m)			40
Flow path slope (%)			4
Retardance coefficient n*			0.11

Parameter	Paved	Supplementary	Grassed
Percentage of area	90	0	10
Time of concentration	6	2	6

Figure 6: Catchment Node Modelling - Pre and Post Development

The post development catchment has been modelling to assume 10% grassed, pervious landscaping. This number is accurate as the site has 532m² of pervious landscaping. The landscaping will have some impervious pavers and hence the exact percentage has not been used and a more conservative percentage has been used. Below is a snippet of the modelling sequence used is the drainage quantity calculation

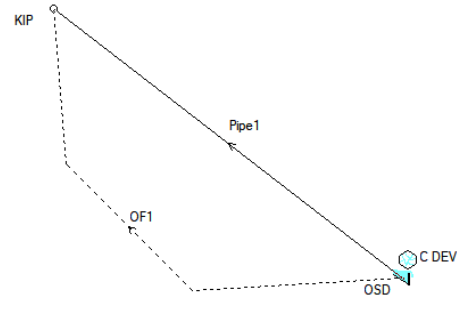


Figure 7: Drains Model

The model has been run to all storm durations up to and including the 24-hour storm event in the 10-year ARI (10% EP). The orifice is sized to limit all flow up to the 1% AEP and all the tank volume has been sized to store additional volume on the site. The result is displayed below:

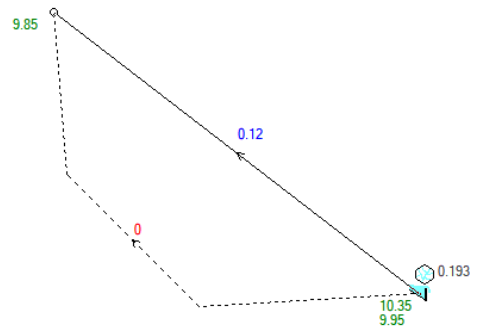


Figure 8: 10% AEP Storm Event Results

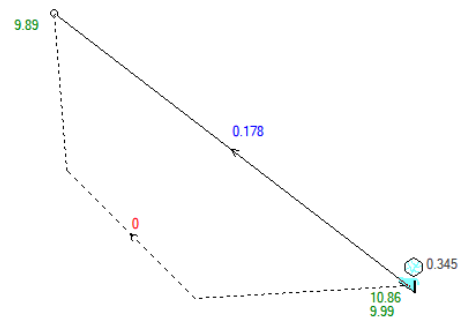


Figure 9: 1% AEP Storm Event Results

The results from the model have been tabulated in Table 2: MUSIC Modelling Summary to highlight the total flow from the predeveloped and post development site:

Pre-development vs Post-Development Site		
	1% AEP (100 Year) Storm Event	10% AEP (10 Year) Storm Event
Pre-developed Site	282 L/s	128 L/s
Post-development Site	178 L/s	120 L/s

The tank has been designed to have granted access pit on the top of the slab, to allow for any additional flows from larger storm events to safely discharge from the site out to the council pit and pipe network. The plan shown the exact location of the overflow. The grates have also been placed to allow ease of access and maintenance especially above the stormfilter chamber.

5.2 MUSIC Model and Results

A MUSIC analysis has been conducted to achieve targets as set out by council’s guidelines, as noted in Section 4.2 of this report. The figures below show the catchment plan, modelling schematic and a summary of results. The models show a 6m² chamber including water filter cartridges 690mm high, as prescribed by OceanProtect.

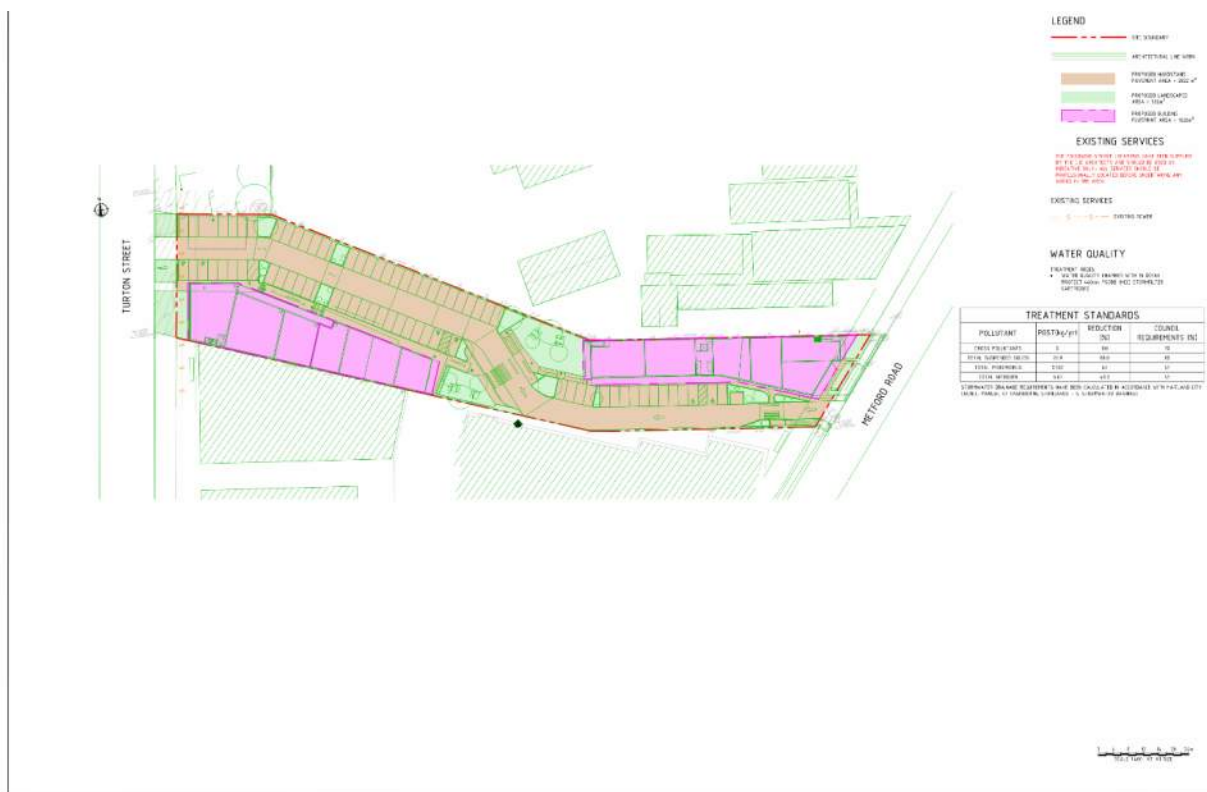


Figure 10: MUSIC Catchment Plan by BG&E

Table 1: Summary of Catchment Areas

AREA	m ²
Roof	1828
Hardstand Pavement	2822
Landscaping	532

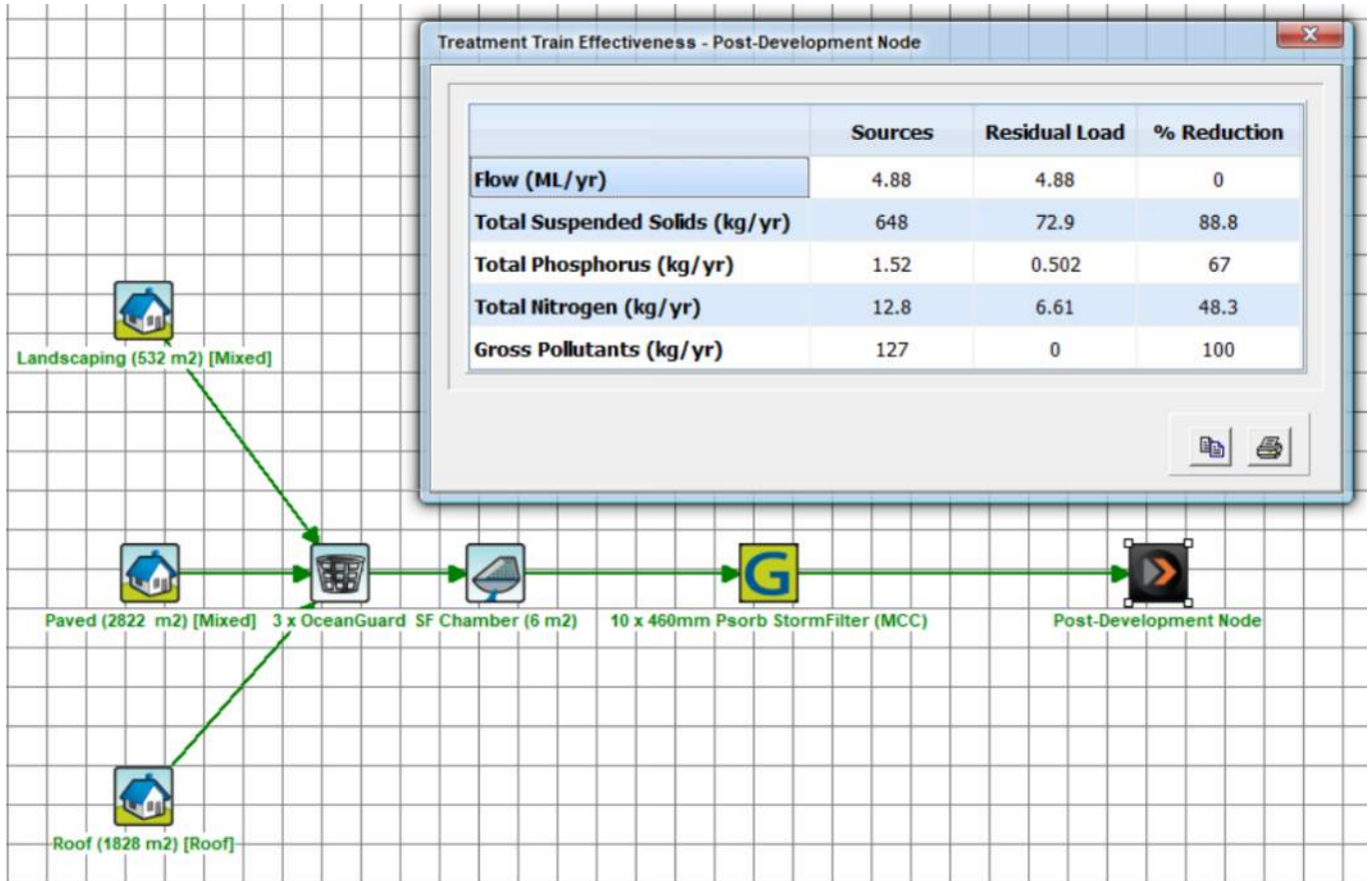


Figure 11: Music Model and Results

Results of the model addressing the areas and pollutants of concern are as in Table 2.

Table 2: MUSIC Modelling Summary

Pollutant	Prior Treatment (kg/yr.)	Post Treatment (kg/yr.)	Reduction Achieved (%)	Target Required (%)
Gross Pollutant	127	0	100	70
Total Suspended Solids (TSS)	648	72.9	88.8	85
Total Phosphorus (TP)	1.52	0.502	67	45
Total Nitrogen (TN)	12.8	6.61	48.3	45

The result of the analysis shows the treatment train would achieve the water quality targets set out in Council's DCP. Table 2 above displays the effectiveness of the treatment train for the primary and secondary treatment. To meet the requirements set out by Council, 10 x 460 Psorb (MCC) StormFilter, 3 OceanGuard from Ocean Protect were specified. As seen in the above modelling the water quality targets set out by council have been achieved.



6. Erosion Control Strategy

The contractor will be obliged to instigate erosion and sediment controls for the construction to minimise risk of sediment deposition in the downstream drainage corridors.

Erosion and Sediment Controls are documented on the DA plans, which includes sediment fencing downslope of disturbed areas, filter socks around kerb inlet pits during construction and controls around stockpile locations.

After the buildings are demolished, the residual ground levels around the site will be estimated to be 200mm lower than the footpath levels and hence a temporary depression will be created with the demolition. This temporary depression will be utilised as sedimentation control measure for the construction works.

There is no basement proposed with the development, so pump-out and dewatering is not a consideration for the site. The above-listed erosion controls should be sufficient to minimise sedimentation from the site.

Management of soil on site will be maintained through the use of sediment fencing constructed around the site boundary during the earthworks phase. Potential soil loss is likely to be minimal, given excavation is to levels below the adjacent street level and that the structure will contain site soils a very early stage of construction.

Other soil loss prevention measures are as documented on the erosion and sediment control plans.

7. Conclusion

BG&E Pty Ltd (BG&E) has been engaged by Metford Medical to prepare a Stormwater Report for the proposed development of 395 Metford Road, Metford. The site is proposed to contain 2 buildings with a 1-way access road running from Metford Road to Turton Street.

As outlined in this report, the following key items have been identified:

- The Site previously discharged naturally to Turton Street as uncontrolled overland flow
- A OSD tank is required to control discharge from site for storm events between 10% AEP and 1% AEP
- A detention tank is provided, with 100m³ of storage; and
- The site is expected to discharge approximately 178 L/s from the Site during 1% AEP storm event.
- Water Sensitive Urban Design is required as part of the development of the Site. This has been achieved using proprietary products. The Site requires 10 x 460 Psorb (MCC) StormFilter and 3 OceanGuard from Ocean Protect or equivalent product.

Appendices



Appendix A - Plan of Survey



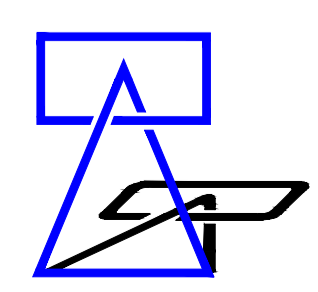
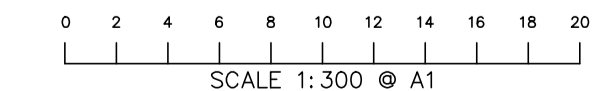
- LEGEND**
- (WMAIN) WATER MAIN
 - (EBOX) ELECTRICAL BOX
 - (PP) POWER POLE
 - (SV) STOP VALVE
 - (NSP) KERB INLET PIT
 - (TEL) TELSTRA PIT
 - (TEL) TOP OF BANK
 - TOE OF BANK
 - (SAC) SEWER ACCESS CHAMBER
 - KIP KERB INLET PIT
 - (PPP) PRIVATE POWER POLE
 - TAP TAP

- NOTES:**
1. SURVEY IS FOR CONTOUR PURPOSES ONLY
 2. BM IS (AHD) AS SHOWN, DATUM PM 18398 (R.L. 12.392)
 3. CONTOUR INTERVAL IS 0.2m
 4. SERVICES LOCATED BY FIELD SURVEY ONLY
 5. TREE SPREADS ARE DIAGRAMMATIC ONLY AND MAY NOT BE SYMMETRICAL



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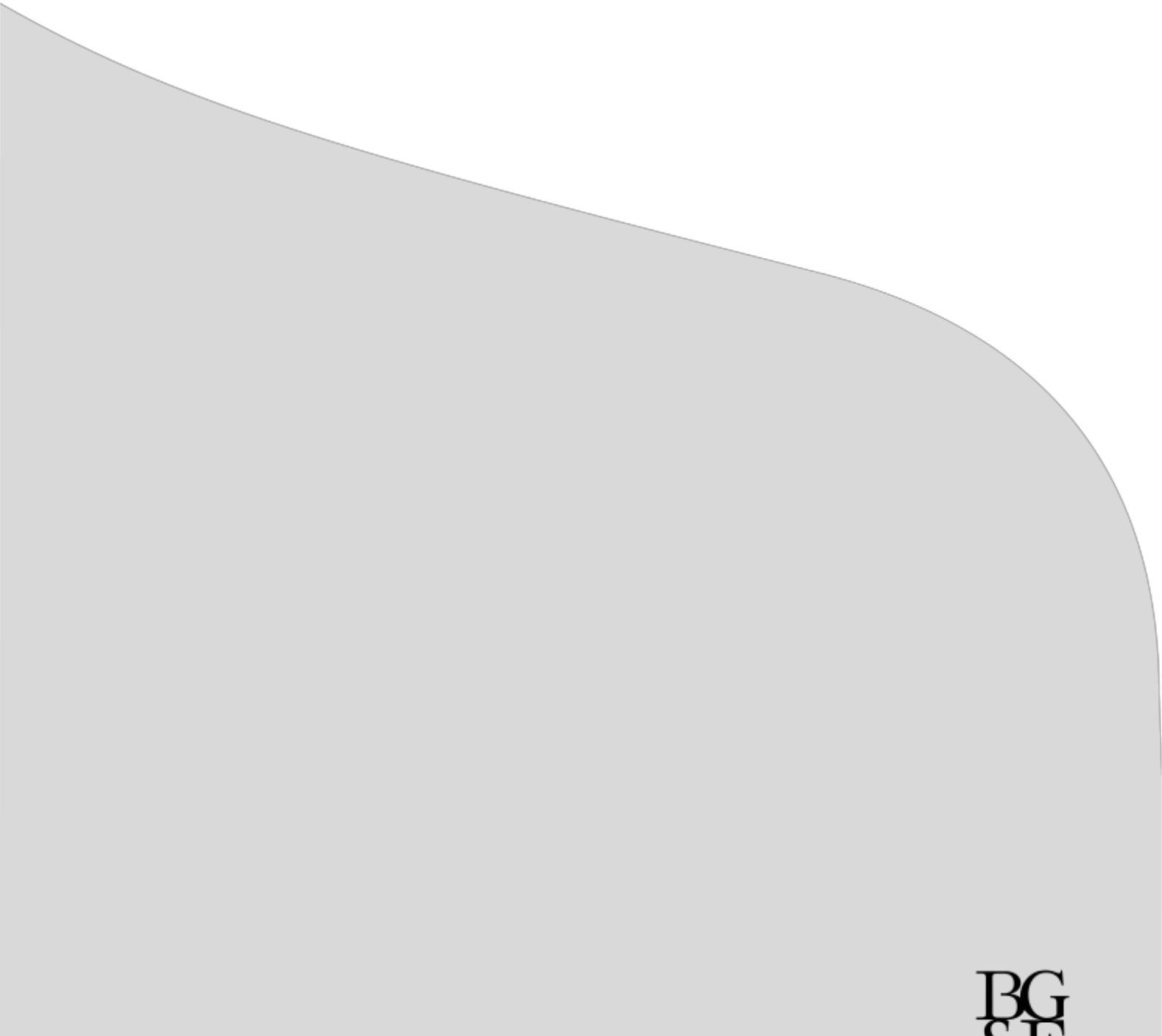
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METFORD

FILE NO. 338.22 RATIO 1:300 DATE 20/10/22 SURVEYED SH DATUM AHD

DRAWN JM SHEET 1 OF 1 SHEETS

Appendix B - Architectural Plans





METFORD MEDICAL

395 METFORD ROAD, METFORD, NSW, 2323

ISSUE FOR DA

ARCHITECTURAL DRAWING SCHEDULE

A00	COVER SHEET
A01	EXISTING SITE PLAN
A02	PROPOSED SITE PLAN & ANALYSIS
A03	STORMWATER MANAGEMENT PLAN
A04	OVERALL ELEVATIONS
A05	BUILDING A - GROUND LEVEL
A06	BUILDING A - LEVEL 1
A07	BUILDING A - ROOF PLAN
A08	BUILDING A - NORTH, SOUTH, EAST & WEST ELEVATI...
A09	BUILDING A - SECTION A-A, B-B, C-C, D-D
A10	BUILDING B - LOWER GROUND LEVEL
A11	BUILDING B - GROUND LEVEL
A12	BUILDING B - ROOF PLAN
A13	BUILDING B - NORTH, SOUTH, EAST & WEST ELEVATI...
A14	BUILDING B - SECTION A-A, B-B, C-C, D-D
A15	SHADOW DIAGRAMS
A16	GLAZING SCHEDULE 01 (WINDOW)
A17	GLAZING SCHEDULE 02 (WINDOW)
A18	GLAZING SCHEDULE 03 (WINDOW)
A19	GLAZING SCHEDULE 04 (DOOR)
A20	SCHEDULE OF MATERIALS
A21	3D PERSPECTIVE 01 - BUILDING A
A22	3D PERSPECTIVE 02 - BUILDING A
A23	3D PERSPECTIVE 03 - ISOMETRIC BUILDING A
A24	3D PERSPECTIVE 04 - BUILDING B
A25	3D PERSPECTIVE 05 - BUILDING B
A26	3D PERSPECTIVE 06 - ISOMETRIC BUILDING B
A27	NOTIFICATION SITE PLAN
A28	NOTIFICATION ELEVATIONS - BUILDING A
A29	NOTIFICATION ELEVATIONS - BUILDING B

EJE ARCHITECTURE

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ABBREVIATIONS

AC	AIR CONDITIONING - REFER TO MECHANICAL DOCUMENTATION
ACP	ALUMINIUM COMPOSITE PANEL
AS	SOLID SURFACE
ADJ	ADJUSTABLE SHELF
AHD	AUSTRALIAN HEIGHT DATUM
AL	ALUMINIUM LOUVER
ALB	ALUMINIUM BATTEN
ALS	VERTICAL ALUMINIUM SCREEN
AP	ACCESS PANEL
AR	ARCHITRAVE
AS	AUSTRALIAN STANDARD
BA	BARGE BOARD
BAL	BALUSTRADE
BC	BABY CHANGE TABLE
BCT	BENCHTOP
BF	BI-FOLD DOOR
BG	BOX GUTTER
BH	BULKHEAD
BN	GARAGE BIN
BRK	CONCRETE BRICKWORK
BRK	BRICKWORK
BOL	BOLLARD
BS	BENCH SEAT
BT	BOTTLE TRAP
BTH	BATHTUB
CAF	CAPPING
CB	PREFINISHED STEEL
CBG	COLOR-BACKED GLASS
CFC	COMPRESSED FIBRE CEMENT
CH	COAT HOOK
CP	CONSTRUCTION / CONTROL JOINT
CL	CENTRE LINE
CLD	CLADDING
CLS	CLOTHESLINE
COL	COLUMN - REFER TO STRUCTURAL DOCUMENTATION
CONC	CONCRETE
COS	CONCRETE ON SITE
CPC	COLORBOND PARAPET CAPPING
CPD	CUPBOARD
CR	CARPET
CR	CEMENT RENDER
CRN	CORNICE
CRT	CURTAIN
CRR	CURTAIN RAIL
CS	CLEANERS SINK
CVC	COVERED SHIRTING
CW	COLD WATER
DP	DOWNSPIPE - REFER TO HYDRAULIC DOCUMENTATION
DR	DOOR
DS	DOOR STOP
EDB	ELECTRICAL DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
EF	EXHAUST FAN
EG	EAVES GUTTER - REFER TO HYDRAULIC DOCUMENTATION
EJ	EXPANSION JOINT
ELP	ELECTRICAL PLATE
ENS	ENSUITE
EP	EPOXY FLOORING
EPS	EXPANDED POLYSTYRENE CLADDING SYSTEM
EQ	EQUAL SPACING
FB	FACE BRICK
FC	FIBRE CEMENT SHEETING
FE	FIRE EXTINGUISHER
FFL	FINISHED FLOOR LEVEL
FG	FIXED GLASS
FH	FIRE HYDRANT - REFER TO HYDRAULIC DOCUMENTATION
FHR	FIRE HOSE REEL - REFER TO HYDRAULIC DOCUMENTATION
FI	FIRE INDICATOR PANEL TO CONSULTANTS REQUIREMENTS
FL	FLASHING
FLM	FLY MESH
FR	FIRE RESISTANCE
FRP	FIREPLACE
FS	FIXED SHELF
FT	FLOOR TILES
FW	FLOOR WASTE
G	GLASS
GA	GREASE ARRESTOR
GC	GARAGE CHUTE
GD	GRADED DRAIN
GL	GLASS LOUVER
GR	GRASS
GRV	GRAVEL
GP	GRAVED PIT - REFER TO HYDRAULIC DOCUMENTATION
GT	GUTTER TRANSOM
GW	GLASS WINDOW
HA	HOME AUTOMATION CUPBOARD
HB	HAND BASIN
HD	HINGED DOOR
HDR	HAND DRYER
HP	HIGH POINT
HR	HANDRAIL
HRS	HANGING RAIL
HT	HOSE TAP
HR	HEATER
HWS	HOT WATER SYSTEM
HYD	HYDRAULIC
J	JOINT
KK	KNOCK
LD	LINING BOARDS
LB	ACCESS LADDER
LDL	DOWNLIGHT
LDY	LAUNDRY
LK	LOCKER SYSTEM
LP	LIGHT FITTING POCKET IN CONCRETE SLAB SOFFIT
LPN	PENDANT LIGHT
LPL	LIGHT POLE - REFER TO ELECTRICAL DOCUMENTATION
LST	LED STRIP LIGHT
LTB	LETTERBOX
LVR	LOUVER
LWL	WALL LIGHT
MC	METAL CLADDING
MC	MAIN DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
MIB	MELBURN
MECH	MECHANICAL
MEL	MELBURN
MI	MIRROR
MRS	METAL ROOF SHEETING
MW	MATWELL

REFER TO CIVIL ENGINEER DRAWINGS FOR DETAILED SEDIIMENT/EROSION ANALYSIS



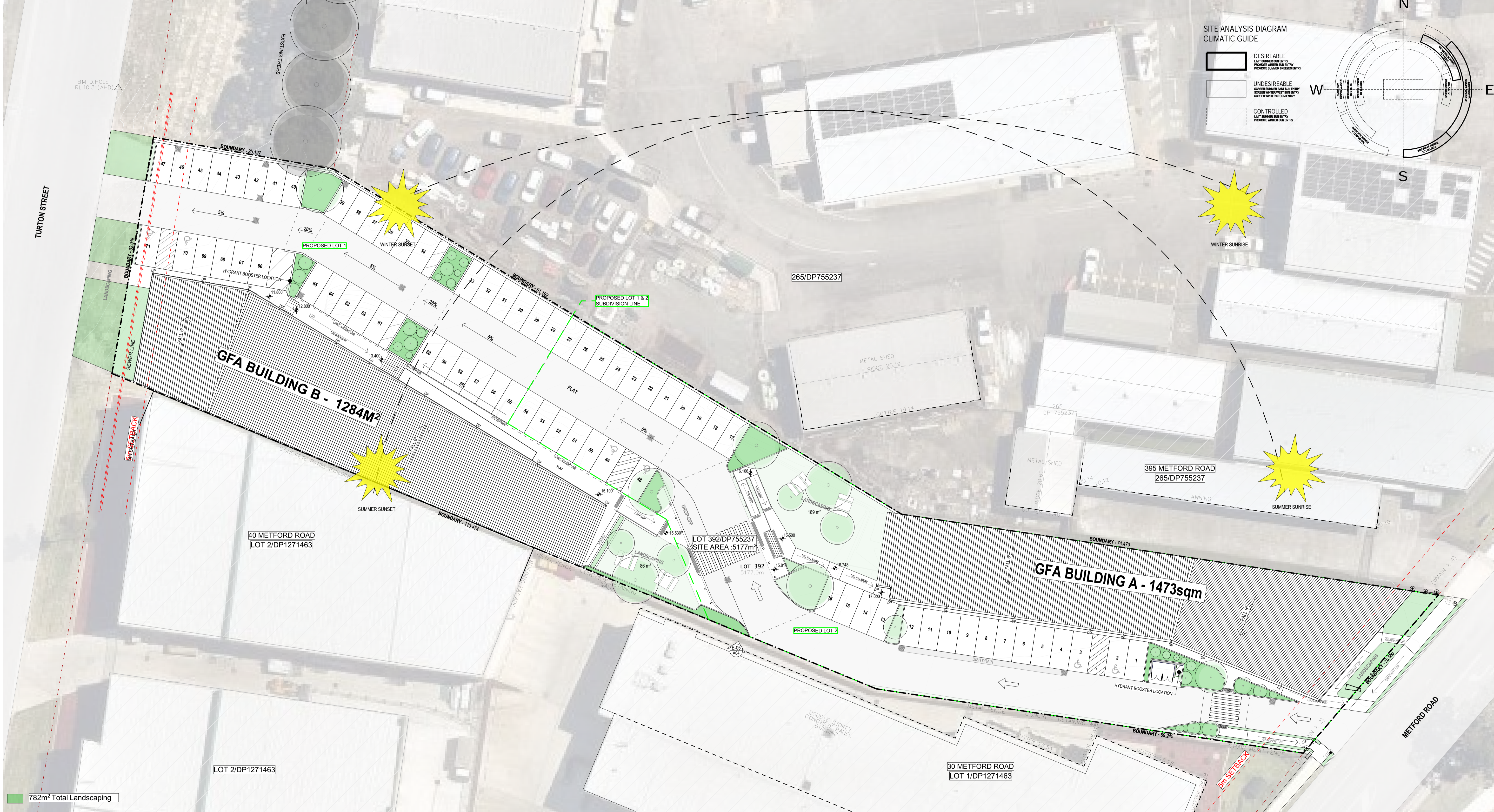
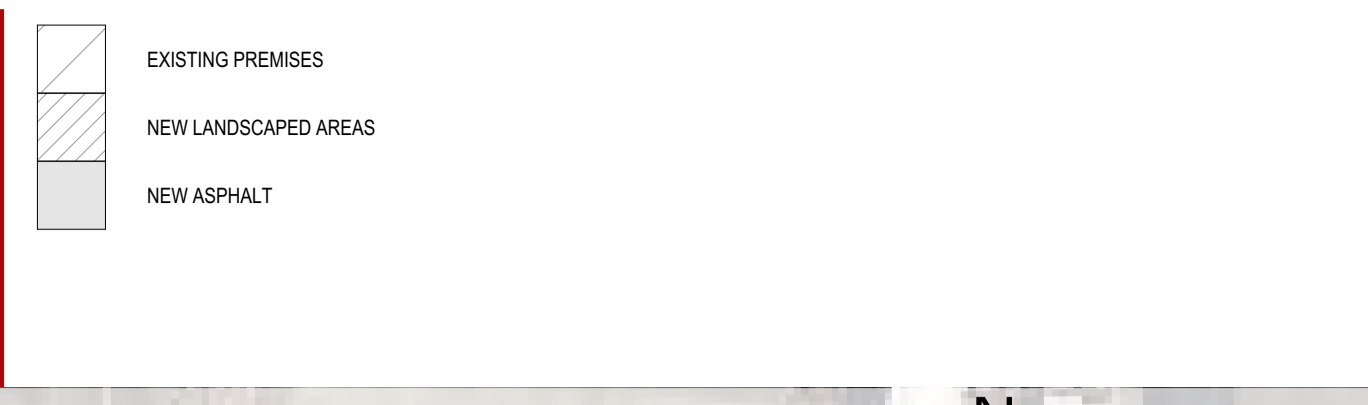
1 EXISTING SITE SURVEY/PLAN & IMAGES

<p>EJE ARCHITECTURE ACN 002 912 843 ABN 82 644 649 849 National Architects - Bernard Collins NSW Architects Registration No. 4438 4 412 KING STREET NEWCASTLE NSW 2300 AUSTRALIA P 412 4029 2353 F 412 4029 2300 E mail@eje.com.au W www.eje.com.au</p> <p>COMPLETION OF THE QUALITY ASSURANCE CHECKS IS VERIFICATION THAT THE DOCUMENT CONFORMS WITH THE REQUIREMENTS OF THE QUALITY PROJECT PLAN, WHERE THE QUALITY ASSURANCE CHECK IS COMPLETED THIS DOCUMENT IS PRELIMINARY FOR INFORMATION PURPOSES ONLY, OR SUCH PURPOSES AS STATED IN THE REVISION COLUMN.</p> <p>THE IDEAS, INFORMATION AND CONCEPTS CONTAINED IN THIS DOCUMENT ARE THE PROPERTY OF EJE ARCHITECTURE. PHOTOCOPIING OR REPRODUCING THIS DOCUMENT AND PASSING IT ON TO OTHERS WITHOUT THE EXPRESS PERMISSION OF EJE ARCHITECTURE IS AN INFRINGEMENT OF COPYRIGHT. ©</p>	<table border="1"> <thead> <tr><th>REV</th><th>DATE</th><th>COMMENTS</th></tr> </thead> <tbody> <tr><td>A</td><td>30/03/2023</td><td>ISSUE FOR CLIENT REVIEW</td></tr> <tr><td>B</td><td>2/05/2023</td><td>ISSUE FOR CONSULTANTS</td></tr> <tr><td>C</td><td>26/06/2023</td><td>PRELIMINARY ISSUE FOR DA</td></tr> <tr><td>D</td><td>5/07/2023</td><td>ISSUE FOR DA</td></tr> <tr><td>E</td><td>18/07/2023</td><td>ISSUE FOR DA</td></tr> </tbody> </table>	REV	DATE	COMMENTS	A	30/03/2023	ISSUE FOR CLIENT REVIEW	B	2/05/2023	ISSUE FOR CONSULTANTS	C	26/06/2023	PRELIMINARY ISSUE FOR DA	D	5/07/2023	ISSUE FOR DA	E	18/07/2023	ISSUE FOR DA	<table border="1"> <thead> <tr><th>DRN</th><th>CHKD</th><th>VRFD</th></tr> </thead> <tbody> <tr><td>GVC</td><td>LJJ</td><td>BJC</td></tr> <tr><td>LJJ</td><td>BJC</td><td>BJC</td></tr> <tr><td>LJJ</td><td>BJC</td><td>BJC</td></tr> <tr><td>LJJ</td><td>BJC</td><td>BJC</td></tr> <tr><td>LJJ</td><td>BJC</td><td>BJC</td></tr> </tbody> </table>	DRN	CHKD	VRFD	GVC	LJJ	BJC	LJJ	BJC	BJC	LJJ	BJC	BJC	LJJ	BJC	BJC	LJJ	BJC	BJC	<p>PROJECT: METFORD MEDICAL</p> <p>SITE: 412 KING STREET, NEWCASTLE, NSW 2300</p> <p>CLIENT: METFORD MEDICAL 395 Metford Road, METFORD NSW, 2323</p>	<p>WORK IN FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS.</p> <p>FILENAME: 1451-DA-MetfordMedical-220719.ppt</p> <p>DRAWN: LJJ DATE: 19/07/2023 SCALES @A1: 1:250</p> <p>PROJECT No: 14541 DA PHASE: A01 DRAWING No: A01 REV: E</p>	
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ABBREVIATIONS

AC	AIR CONDITIONING - REFER TO MECHANICAL DOCUMENTATION	BH	BULKHEAD	COL	COLUMN - REFER TO STRUCTURAL DOCUMENTATION	EF	EXHAUST FAN	GT	GUTTER TRANSOM	LDL	DOWNLIGHT
ACP	ALUMINIUM COMPOSITE PANEL	BN	GARAGE BIN	CONC	CONCRETE	EG	EAVES GUTTER - REFER TO HYDRAULIC DOCUMENTATION	GW	GLASS WINDOW	LDY	LAUNDRY
AS	SOLID SURFACE	BRK	CONCRETE BLOCKWORK	COS	CONTRAIL ON SITE	EJ	EXPANSION JOINT	HA	HOME AUTOMATION CLIPBOARD	LK	LOCKER SYSTEM
ADJ	ADJUSTABLE SHELF	BRX	BRICKWORK	CPC	COLORBOND PARAPET CAPPING	ELP	ELECTRICAL PLATE	HS	HAND BASIN	LP	LIGHT FITTING POCKET IN CONCRETE SLAB SOFFIT
AHD	AUSTRALIAN HEIGHT DATUM	BOL	BOLLARD	CPD	CUPBOARD	ENS	ENSUITE	HD	HINGED DOOR	LPN	PENDANT LIGHT
AL	ALUMINIUM LOUVER	BS	BENCH SEAT	CPY	CARPET	EP	EPOXY FLOORING	HDR	HAND DRIVER	LPL	LIGHT POLE - REFER TO ELECTRICAL DOCUMENTATION
ALB	ALUMINIUM BATTEN	BT	BOTTLE TRAP	CR	CEMENT RENDER	EPS	EXPANDED POLYSTYRENE CLADDING SYSTEM	FT	FLOOR TILES	LST	LED STRIP LIGHT
ALS	VERTICAL ALUMINIUM SCREEN	BTH	BATHTUB	CRN	CORNICE	ED	EQUAL SPACING	FW	FLOOR WASTE	LTB	LETTERBOX
AP	ACCESS PANEL	CAF	CAPPING	CRT	CURTAIN	EQ	EQUAL SPACING	G	GLASS	LVR	LOUVER
AR	ARCHITRAVE	CB	PREFINISHED STEEL	CRU	CURTAIN RAIL	FAN	FAN	GA	GREASE ARRESTOR	LWL	WALL LIGHT
AS	AUSTRALIAN STANDARD	CBG	COLOR-BACKED GLASS	CS	CLEANERS SINK	FB	FACE BRICK	GC	GARAGE CHUTE	MC	METAL CLADDING
BA	BARGE BOARD	CFC	COMPRESSED FIBRE CEMENT	CIS	COVERED SHIRTING	FC	FIBRE CEMENT SHEETING	GR	GARAGE GRATE	MD	MAIN DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
BAL	BALUSTRADE	CH	COAT HOOK	CW	COLD WATER	FE	FIRE EXTINGUISHER	GR	GRASS RAIL	MECH	MECHANICAL
BC	BEYOND	CL	CONSTRUCTION / CONTROL JOINT	DP	DOWNSPIPE - REFER TO HYDRAULIC DOCUMENTATION	FFL	FINISHED FLOOR LEVEL	GR	GRASS RAIL	MEL	MELAMINE
BCT	BENCHTOP	CL	CENTRE LINE	DR	DOOR	FG	FIXED GLASS	GRD	GARAGE DOOR	MI	MIRROR
BF	BI-FOLD DOOR	CLD	CLADDING	DS	DOOR STOP	FH	FIRE HYDRANT - REFER TO HYDRAULIC DOCUMENTATION	GRV	GRAVEL	MRS	METAL ROOF SHEETING
BG	BOX GUTTER	CLS	CLOTHESLINE	EDB	ELECTRICAL DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION	FHR	FIRE HOSE REEL - REFER TO HYDRAULIC DOCUMENTATION	GP	GRAVED PIT - REFER TO HYDRAULIC DOCUMENTATION	MV	MATWELL

LEGEND



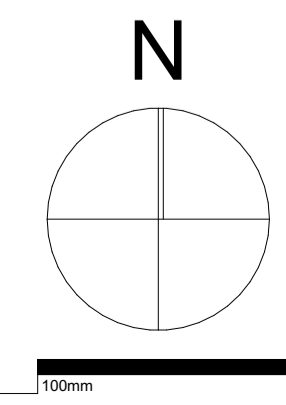
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SITE PLAN

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PROJECT: METFORD MEDICAL
 CLIENT: Metford Medical
 395 Metford Road, METFORD NSW, 2323

SITE: 412 KING STREET, NEWCASTLE, NSW 2300
 DRAWING: PROPOSED SITE PLAN & ANALYSIS

WORK IN FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS.

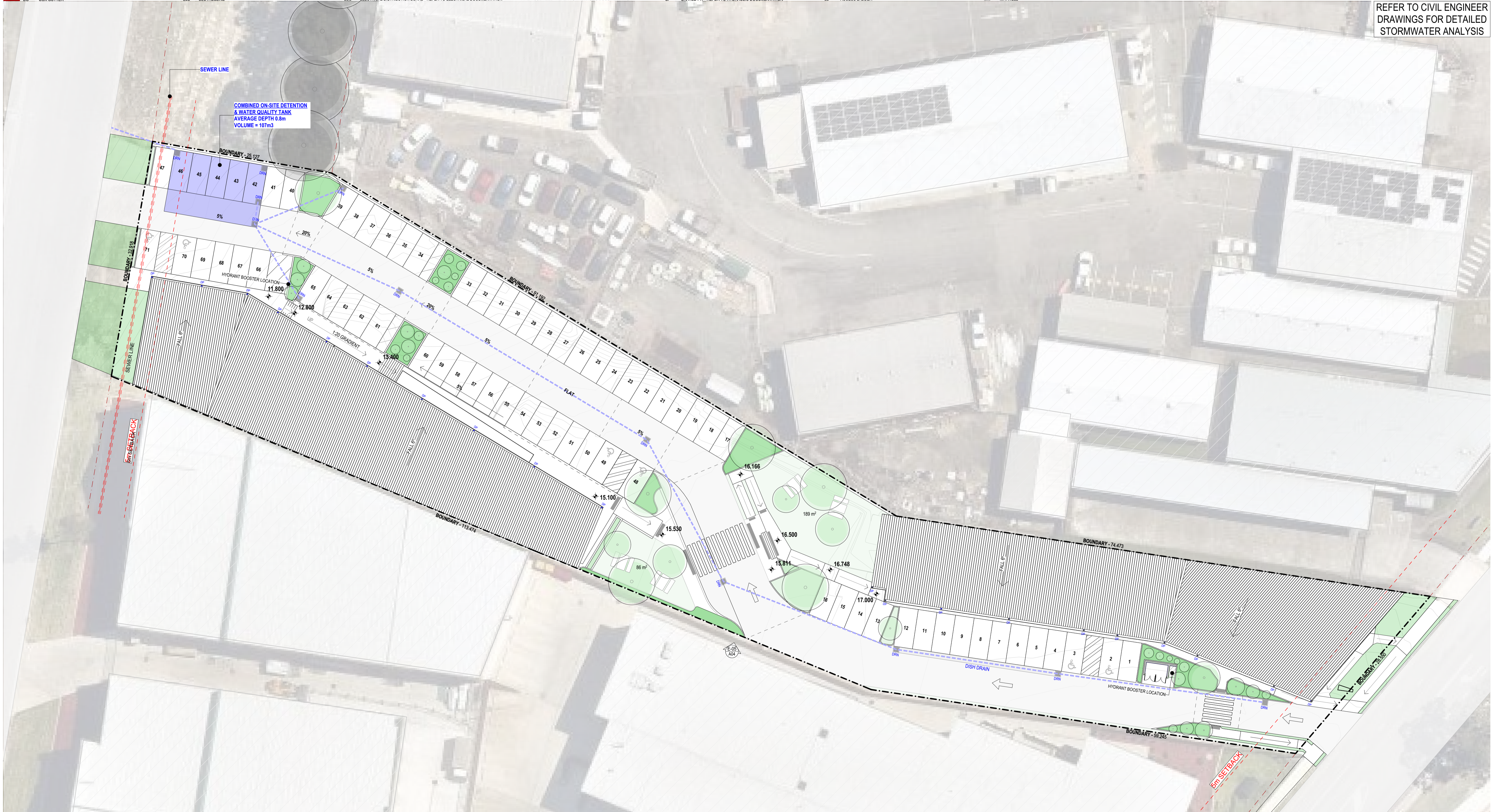
FILENAME: 14541-DA-MetfordMedical-220719.ppt
 DRAWN: LJJ DATE: 19/07/2023 SCALES @A1: 1:250
 PROJECT No: 14541 DA PHASE: A02 DRAWING No: A02 REV: E

EJE architecture

ABBREVIATIONS

AC AIR CONDITIONING - REFER TO MECHANICAL DOCUMENTATION	BH BULKHEAD	COL COLUMN - REFER TO STRUCTURAL DOCUMENTATION	EF EXHAUST FAN	FP FIRE INDICATOR PANEL TO CONSULTANTS REQUIREMENTS	GT GUTTER TRANSOM	LDL DOWNLIGHT
ACP ALUMINIUM COMPOSITE PANEL	BIN GARBAGE BIN	CONC CONCRETE	EG EAVES GUTTER - REFER TO HYDRAULIC DOCUMENTATION	FL FLASHING	GW GLASS WINDOW	LDY LAUNDRY
ASD SOLID SURFACE	BRK CONCRETE BLOCKWORK	CONC CONCRETE	EJ EXPANSION JOINT	FLM VINYL FILM	HA HOME AUTOMATION CLIPBOARD	LK LOCKER SYSTEM
ADJ ADJUSTABLE SHELF	BRK BRICKWORK	COS CONFIRM ON SITE	ELP ELECTRICAL PLATE	FR FIRE RESISTANCE	HB HAND BASIN	LP LIGHT FITTING POCKET IN CONCRETE SLAB SOFFIT
AHJ AUSTRALIAN HEIGHT DATUM	BOL BOLLARD	CPC COLORBOND PARAPET CAPPING	ENS ENSUITE	FRP FIREPLACE	HD HINGED DOOR	LPN PENDANT LIGHT
AL ALUMINIUM LOUVER	BS BENCH SEAT	CPD CUPBOARD	EP EPOXY FLOORING	FS FIXED SHELF	HDR HAND DRYER	LPL LIGHT POLE - REFER TO ELECTRICAL DOCUMENTATION
ALB ALUMINIUM BATTEN	BT BOTTLE TRAP	CR CEMENT RENDER	EPS EXPANDED POLYSTYRENE CLADDING SYSTEM	FT FLOOR TILES	FW FLOOR WASTE	LST LED STRIP LIGHT
AS VERTICAL ALUMINIUM SCREEN	BTH BATHTUB	CRN CORNICE	ED EQUAL SPACING	G GLASS	G GREASE ARRESTOR	LTB LETTERBOX
AP ACCESS PANEL	CAF CAPPING	CRT CURTAIN	EQ EQUAL SPACING	G GLASS	GC GARBAGE CHUTE	LVR LOUVER
AR ARCHITRAVE	CB PREFINISHED STEEL	CRR CURTAIN RAIL	FAN CEILING FAN	GA GREASE ARRESTOR	GD GARBAGE CHUTE	LWL WALL LIGHT
AS AUSTRALIAN STANDARD	CBG COLOUR-BACKED GLASS	CS CLEANERS SINK	FB FACE BRICK	GC GARBAGE CHUTE	GO GRATED DRAIN	MC METAL CLADDING
BA BARGE BOARD	CFC COMPRESSED FIBRE CEMENT	CW COVERED SHIRTING	FC FIBRE CEMENT SHEETING	GR GRASS RAIL	GL GLASS LOUVRES	MDB MAIN DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
BAL BALUSTRADE	CH COAT HOOK	DP DOWNPIPE - REFER TO HYDRAULIC DOCUMENTATION	FE FIRE EXTINGUISHER	GR GRASS RAIL	GRD GRAVE DOOR	MECH MECHANICAL
BC BABY CHANGE TABLE	CL CENTRE LINE	DR DOOR	FFL FINISHED FLOOR LEVEL	GRD GRAVE DOOR	GRV GRAVEL	MEL MELAMINE
BCT BENCHTOP	CLD CLADDING	DS DOOR STOP	FG FIXED GLASS	GRV GRAVEL	GP GRAVED PIT - REFER TO HYDRAULIC DOCUMENTATION	MI MIRROR
BF BI-FOLD DOOR	CLS CLOTHESLINE	EDB ELECTRICAL DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION	FHR FIRE HOSE REEL - REFER TO HYDRAULIC DOCUMENTATION	LD ACCESS LADDER		MRS METAL ROOF SHEETING
BG BOX GUTTER						MV MATWELL

REFER TO CIVIL ENGINEER DRAWINGS FOR DETAILED STORMWATER ANALYSIS

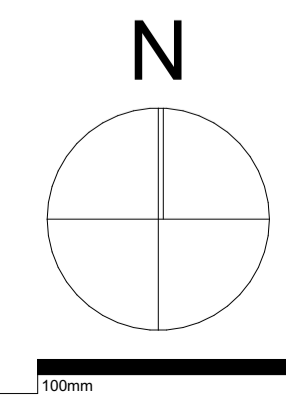


1 STORMWATER MANAGEMENT PLAN

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PROJECT: METFORD MEDICAL
 CLIENT: Metford Medical
 395 Metford Road, METFORD NSW, 2323

SITE: 412 KING STREET, NEWCASTLE, NSW 2300
 DRAWING: STORMWATER MANAGEMENT PLAN

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 PROJECT No: 14541 DA PHASE: A03 DRAWING No: A03 REV: C

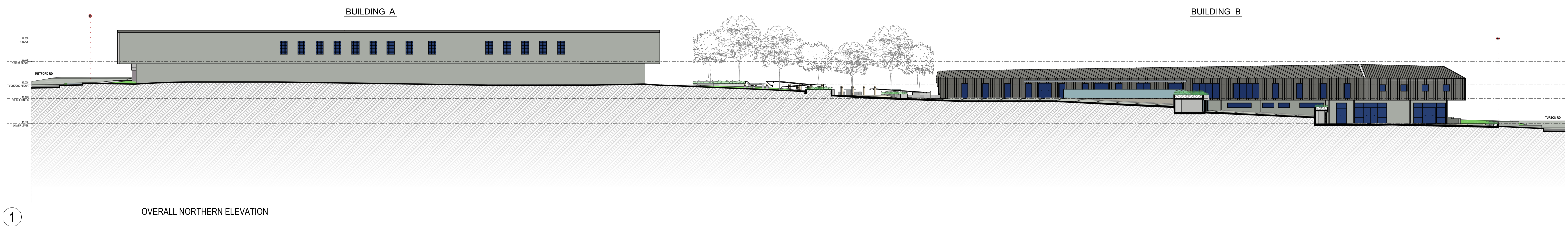


ABBREVIATIONS

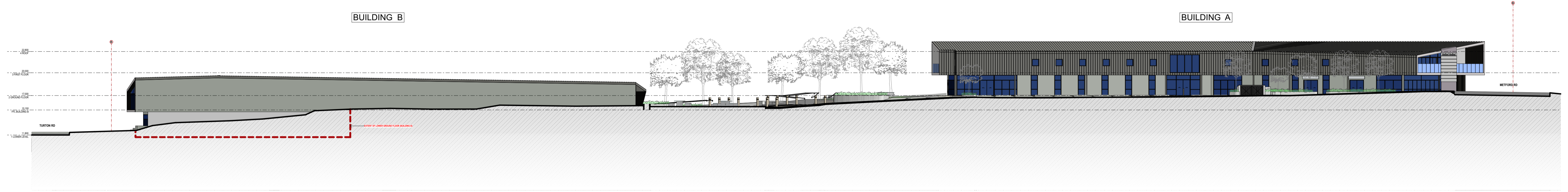
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LEGEND

W1.05 WINDOW MARKER	eg WINDOW / LEVEL 1 / WINDOW N° 05
D1.05 DOOR MARKER	eg DOOR / LEVEL 1 / DOOR N° 05



1 OVERALL NORTHERN ELEVATION



1 OVERALL SOUTHERN ELEVATION

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PROJECT: METFORD MEDICAL
 SITE: 412 KING STREET, NEWCASTLE, NSW 2300
 CLIENT: Metford Medical
 395 Metford Road, METFORD NSW, 2323
 DRAWING: OVERALL ELEVATIONS

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PROJECT No: 14541 DA PHASE: A04 DRAWING No: A04 REV: E

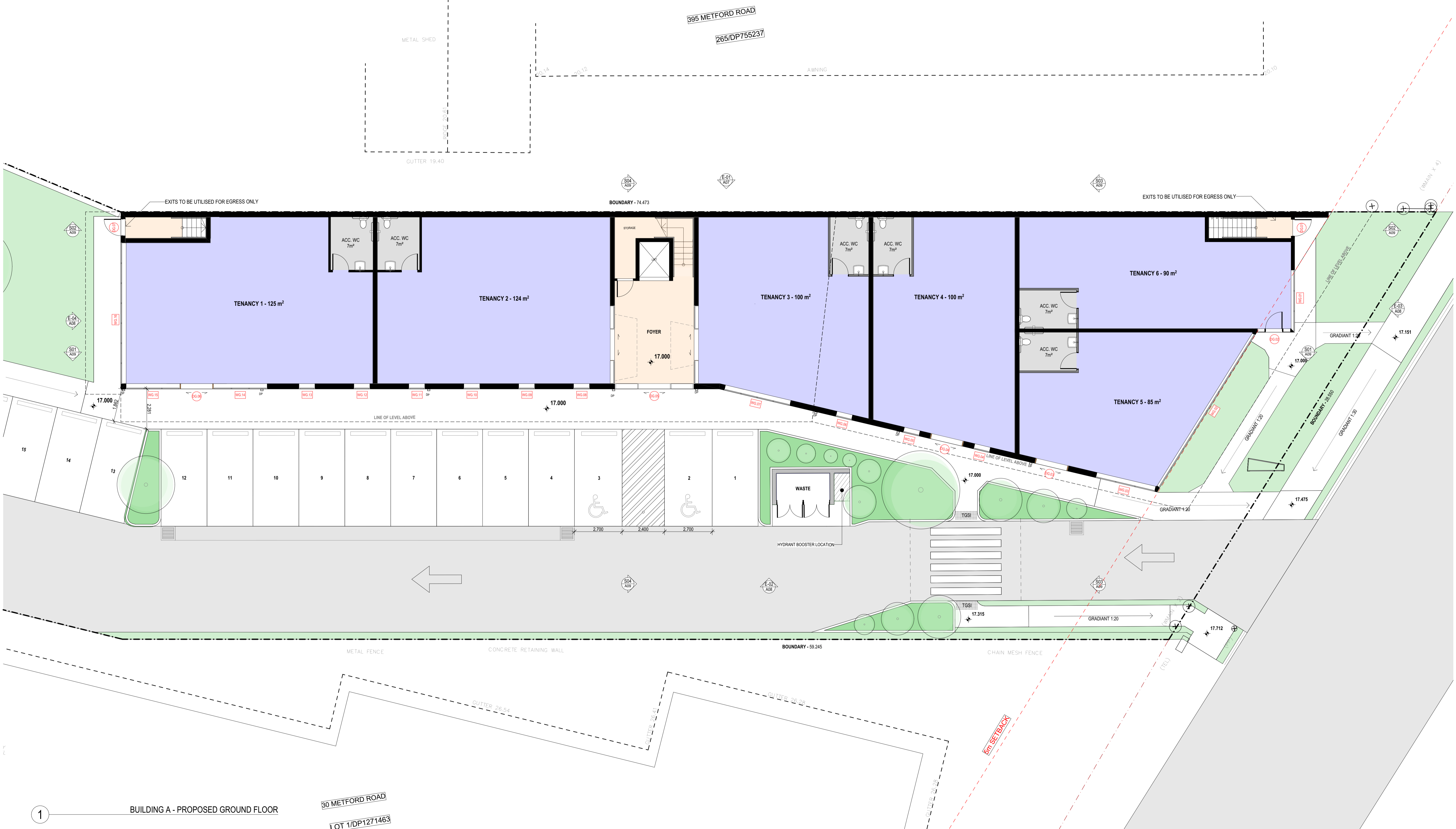
EJE architecture

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LEGEND

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LT.05 LOUVER MARKER eg. LOUVER / LEVEL 1 / LOUVER N° 05	0.00 PROPOSED RL
DT.05 DOOR MARKER eg. DOOR / LEVEL 1 / DOOR N° 05	
LINE MARKING	



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1 BUILDING A - PROPOSED GROUND FLOOR

30 METFORD ROAD
 LOT 1/DP1271463

REV	DATE	COMMENTS	DRN	CHKD	VRFD
A	30/03/2023	ISSUE FOR CLIENT REVIEW	GVC	LJJ	BJC
B	2/05/2023	ISSUE FOR CONSULTANTS	LJJ	BJC	BJC
C	26/06/2023	PRELIMINARY ISSUE FOR DA	LJJ	BJC	BJC
D	5/07/2023	ISSUE FOR DA	LJJ	BJC	BJC
E	18/07/2023	ISSUE FOR DA	LJJ	BJC	BJC

PROJECT: METFORD MEDICAL

SITE: 412 KING STREET, NEWCASTLE, NSW 2300

CLIENT: Metford Medical
 395 Metford Road, METFORD NSW, 2323

DRAWING: BUILDING A - GROUND LEVEL

WORK IN FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS.

FILENAME: 14541-DA-MetfordMedical-22019.rvt
 DRAWN: LJJ DATE: 19/07/2023 SCALES @A1: 1:100

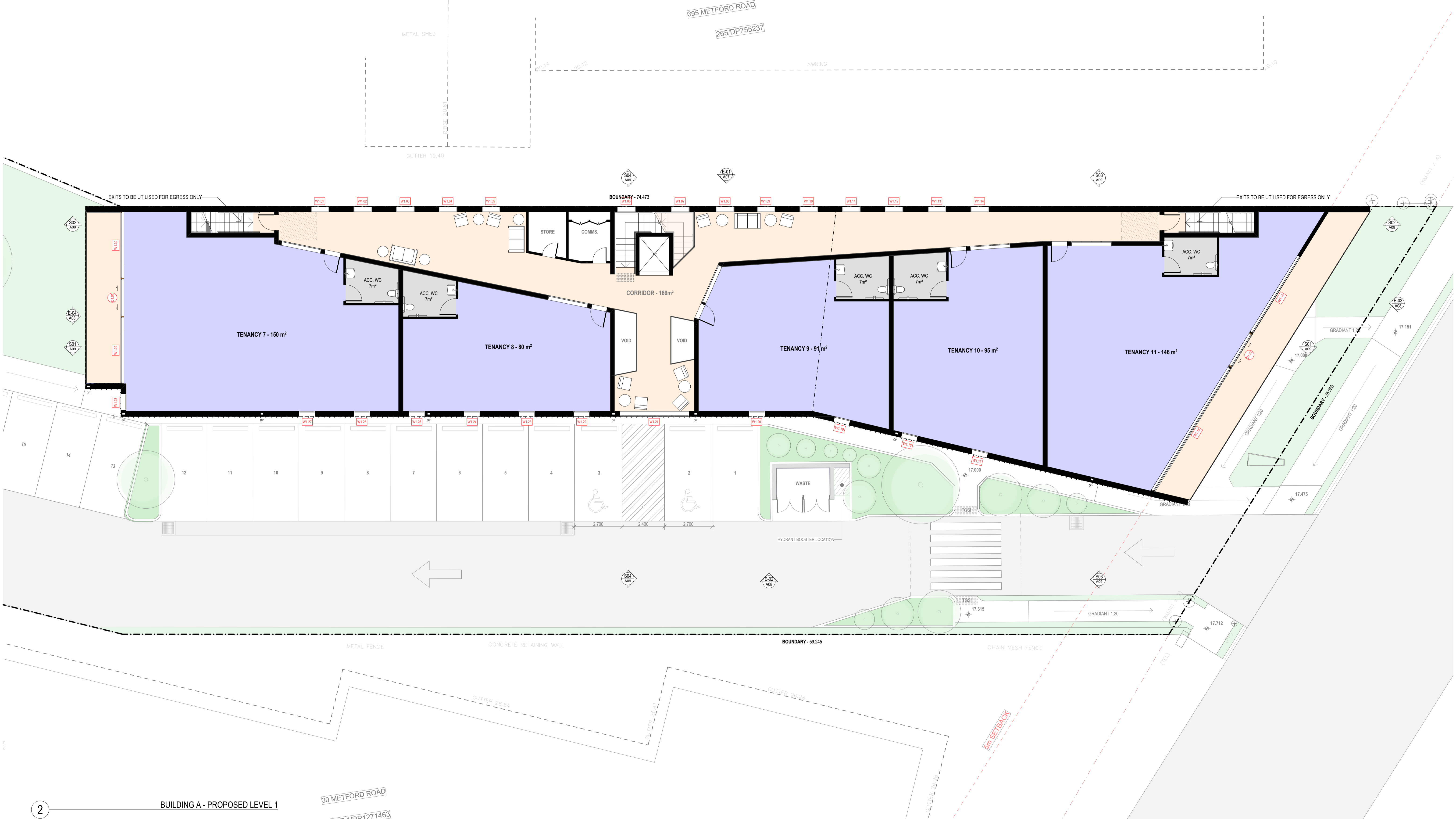
PROJECT No: 14541 DA PHASE: A05 DRAWING No: A05 REV: E

EJE architecture

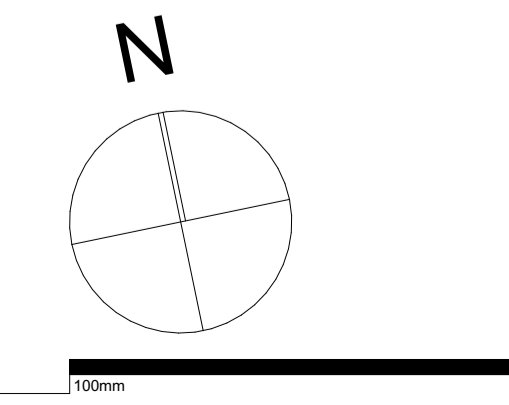
ABBREVIATIONS

- AC AIR CONDITIONING - REFER TO MECHANICAL DOCUMENTATION
- ADP ALUMINIUM COMPOSITE PANEL
- AS SOLID SURFACE
- ADJ ADJUSTABLE SHELF
- AHD AUSTRALIAN HEIGHT DATUM
- AL ALUMINIUM LOUVER
- ALB ALUMINIUM BATTEN
- AS VERTICAL ALUMINIUM SCREEN
- AP ACCESS PANEL
- AR ARCHITRAVE
- AS AUSTRALIAN STANDARD
- BA BARGE BOARD
- BAL BALUSTRADE
- BC BABY CHANGE TABLE
- BCT BENCHTOP
- BF BI-FOLD DOOR
- BG BOX GUTTER
- BH BULKHEAD
- BN CONCRETE BLOCKWORK
- BRK BRICKWORK
- BS BOLLARD
- BS BENCH SEAT
- BT BOTTLE TRAP
- BTH BATHTUB
- CAF CAPPING
- CB PREFINISHED STEEL
- CBC COLOURBACKED GLASS
- CFC COMPRESSED FIBRE CEMENT
- CH COAT HOOK
- CJ CONSTRUCTION / CONTROL JOINT
- CL CENTRE LINE
- CLD CLADDING
- CLS CLOTHESLINE
- COL COLUMN - REFER TO STRUCTURAL DOCUMENTATION
- CONC CONCRETE
- COS CONFORM ON SITE
- CPC COLORBOND PARAPET CAPPING
- CPD CUPBOARD
- OPT CARPET
- CR CEMENT RENDER
- CRN CURTAIN
- CRT CURTAIN RAIL
- CS CLEANERS SINK
- CVS COVERED SHIRTING
- CW COLD WATER
- DP DOWNPIPE - REFER TO HYDRAULIC DOCUMENTATION
- DR DOOR
- DS DOOR STOP
- EDB ELECTRICAL DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
- EF EXHAUST FAN
- EG EAVES GUTTER - REFER TO HYDRAULIC DOCUMENTATION
- EJ EXPANSION JOINT
- ELP ELECTRICAL PLATE
- ENS ENSULITE
- EP EPOXY FLOORING
- EPS EXPANDED POLYSTYRENE CLADDING SYSTEM
- EQ EQUAL SPACING
- ED EQUAL DOOR
- FAB FABRIC / UPHOLSTERY
- FAN CEILING FAN
- FB FACE BRICK
- FC FIBRE CEMENT SHEETING
- FE FIRE EXTINGUISHER
- FRL FINISHED FLOOR LEVEL
- FG FIXED GLASS
- FH FIRE HYDRANT - REFER TO HYDRAULIC DOCUMENTATION
- FHR FIRE HOSE REEL - REFER TO HYDRAULIC DOCUMENTATION
- FIP FIRE INDICATOR PANEL TO CONSULTANTS REQUIREMENTS
- FL FLASHING
- FLM VINYL FILM
- FR FIRE RESISTANCE
- FRP FIREPLACE
- FS FIXED SHELF
- FT FLOOR TILES
- FW FLOOR WASTE
- G GLASS
- GA GREASE ARRESTOR
- GC GARAGE CHUTE
- GD GRATED DRAIN
- GL GLASS LOUVRES
- GR GRAB RAIL
- GRD GARAGE DOOR
- GRV GRAVEL
- GP GRATED PIT - REFER TO HYDRAULIC DOCUMENTATION
- GT GUTTER TRANSOM
- GW GLASS WINDOW
- HA HOME AUTOMATION CLIPBOARD
- HB HAND BASIN
- HD HINGED DOOR
- HDR HAND DRYER
- HP HIGH POINT
- HR HANDRAIL
- HRR HANGING RAIL
- HT HOSE TAP
- HTR HEATER
- HWS HOT WATER SYSTEM
- HYD HYDRAULIC
- J JOINERY
- KK KNOCK
- LB LINING BOARDS
- LD ACCESS LADDER
- LDL DOWNLIGHT
- LDY LAUNDRY
- LK LOCKER SYSTEM
- LPN LIGHT FITTING POCKET IN CONCRETE SLAB SOFFIT
- LPL PENDANT LIGHT
- LPL LIGHT POLE - REFER TO ELECTRICAL DOCUMENTATION
- LST LED STRIP LIGHT
- LTB LETTERBOX
- LVS LOUVRE
- LWL WALL LIGHT
- MC METAL CLADDING
- MDB MAIN DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
- MECH MECHANICAL
- MEL MELAMINE
- MI MIRROR
- MRS METAL ROOF SHEETING
- MW MATWELL

- LEGEND**
- W1.05 WINDOW MARKER
eg. WINDOW / LEVEL 1 / WINDOW N° 05
 - L1.05 LOUVRE MARKER
eg. LOUVRE / LEVEL 1 / LOUVRE N° 05
 - D1.05 DOOR MARKER
eg. DOOR / LEVEL 1 / DOOR N° 05
 - LINE MARKING
 - 0.00 EXISTING RL
 - 0.00 PROPOSED RL



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30 METFORD ROAD
 LOT 1/DP1271463

REV	DATE	COMMENTS
A	26/06/2023	PRELIMINARY ISSUE FOR DA
B	5/07/2023	ISSUE FOR DA
C	18/07/2023	ISSUE FOR DA

DRN	CHKD	VRFD
LJJ	BJC	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC

PROJECT: METFORD MEDICAL
 CLIENT: Metford Medical
 395 Metford Road, METFORD
 NSW, 2323

SITE: 412 KING STREET, NEWCASTLE,
 NSW 2300
 DRAWING: BUILDING A - LEVEL 1

WORK IN FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS.
 FILENAME: 14541-DA-MetfordMedical-220719.rvt
 DRAWN: LJJ DATE: 19/07/2023 SCALES @A1: 1:100
 PROJECT No: 14541 DA PHASE: A06 DRAWING No: A06 REV: C



ABBREVIATIONS

AC	AIR CONDITIONING - REFER TO MECHANICAL DOCUMENTATION
ACP	ALUMINIUM COMPOSITE PANEL
ACS	SOLID SURFACE
ADJ	ADJUSTABLE SHELF
AHD	AUSTRALIAN HEIGHT DATUM
AL	ALUMINIUM LOUVRE
ALB	ALUMINIUM BATTEN
ALS	VERTICAL ALUMINIUM SCREEN
AP	ACCESS PANEL
AR	ARCHITRAVE
AS	AUSTRALIAN STANDARD
BA	BARBE BOARD
BAL	BALUSTRADE
BC	BABY CHANGE TABLE
BCT	BENCHTOP
BF	BI-FOLD DOOR
BG	BOX GUTTER

BH	BULKHEAD
BN	BENCH
BRK	BRICKWORK
BRX	BRICKWORK
BOL	BOLLARD
BS	BENCH SEAT
BT	BOTTLE TRAP
BTH	BATHTUB
CP	CAPPING
CB	PREFINISHED STEEL
CBG	COLOR-BACKED GLASS
CFC	COMPRESSED FIRE CEMENT
CH	COAT HOOK
CJ	CONSTRUCTION / CONTROL JOINT
CL	CENTRE LINE
CLD	CLADDING
CLS	CLOTHESLINE

COL	COLUMN - REFER TO STRUCTURAL DOCUMENTATION
CONC	CONCRETE
COS	CONFORM ON SITE
CPC	COLORBOND PARAPET CAPPING
CPD	CUPBOARD
CRP	CARPET
CR	CEMENT RENDER
CRN	CORNICE
CRT	CURTAIN
CRR	CURTAIN RAIL
CS	CLEANERS SINK
CVS	COVERED SHIRTING
CW	COLD WATER
DP	DOWNSPIPE - REFER TO HYDRAULIC DOCUMENTATION
DR	DOOR
DS	DOOR STOP
EDB	ELECTRICAL DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION

EF	EXHAUST FAN
EG	EAVES GUTTER - REFER TO HYDRAULIC DOCUMENTATION
EJ	EXPANSION JOINT
ELP	ELECTRICAL PLATE
ENS	ENSUITE
EP	EPOXY FLOORING
EPS	EXPANDED POLYSTYRENE CLADDING SYSTEM
EQ	EQUAL SPACING
FB	FACE BRICK
FC	FIBRE CEMENT SHEETING
FE	FIRE EXTINGUISHER
FFL	FINISHED FLOOR LEVEL
FG	FIXED GLASS
FH	FIRE HYDRANT - REFER TO HYDRAULIC DOCUMENTATION
FHR	FIRE HOSE REEL - REFER TO HYDRAULIC DOCUMENTATION

FIP	FIRE INDICATOR PANEL TO CONSULTANTS REQUIREMENTS
FL	FLASHING
FLM	FLAME FILM
FR	FIRE RESISTANCE
FRP	FIREPLACE
FS	FIXED SHELF
FT	FLOOR TILES
FW	FLOOR WASTE
G	GLASS
GA	GREASE ARRESTOR
GC	GARAGE CHUTE
GD	GRADED DRAIN
GL	GLASS LOUVRES
GR	GRAB RAIL
GRD	GARAGE DOOR
GRV	GRAVEL
GP	GRAVED PIT - REFER TO HYDRAULIC DOCUMENTATION

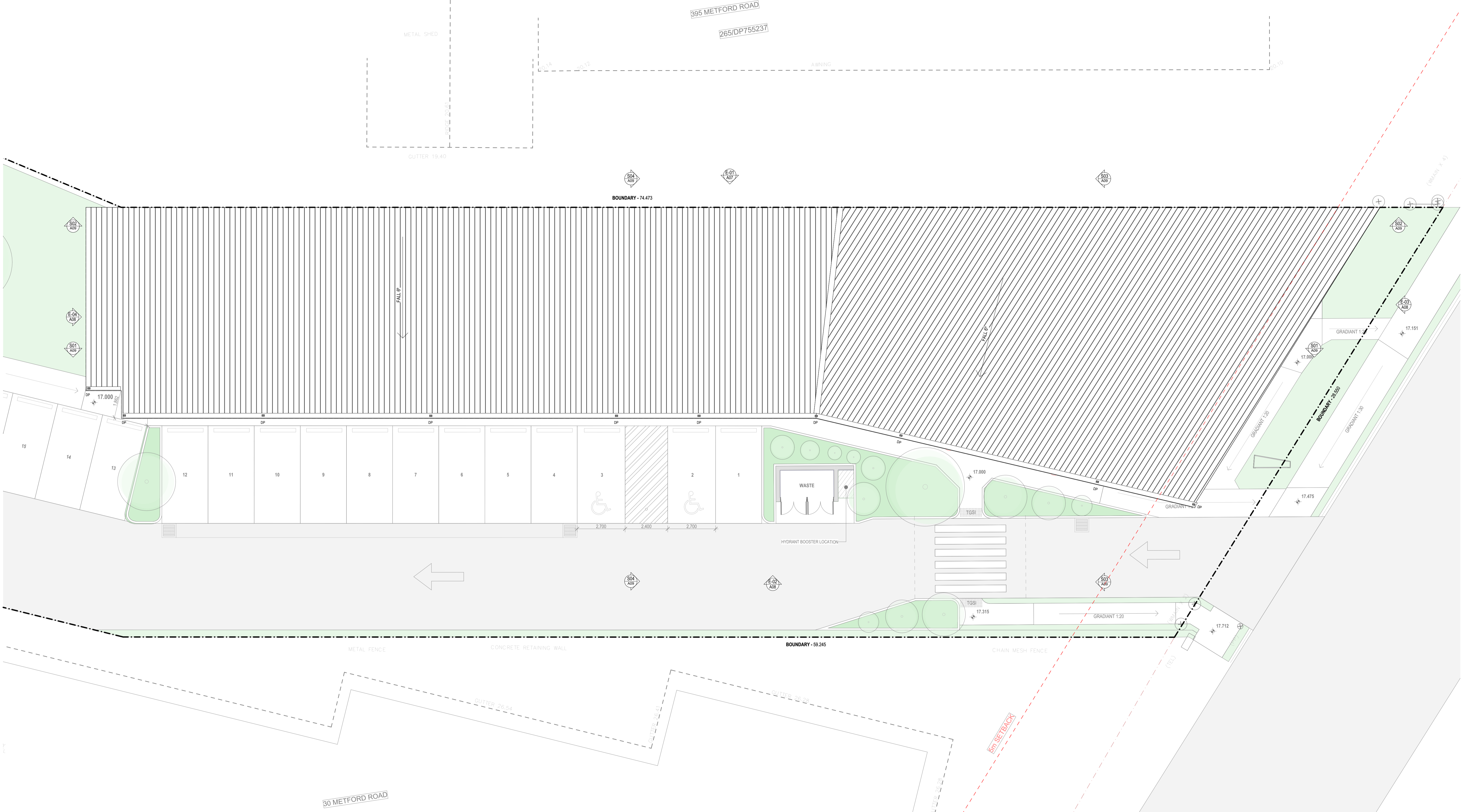
GT	GUTTER TRANSOM
GW	GLASS WINDOW
HA	HOME AUTOMATION CLIPBOARD
HB	HAND BASIN
HD	HINGED DOOR
HDR	HAND DRYER
HP	HIGH POINT
HR	HANDRAIL
HRL	HANGING RAIL
HT	HOSE TAP
HTR	HEATER
HWS	HOT WATER SYSTEM
HYD	HYDRAULIC
J	JOINERY
KK	KNOCK
LB	LINING BOARDS
LD	ACCESS LADDER

LDL	DOWNLIGHT
LDY	LAUNDRY
LK	LOCKER SYSTEM
LP	LIGHT FITTING POCKET IN CONCRETE SLAB SOFFIT
LPN	PENDANT LIGHT
LPL	LIGHT POLE - REFER TO ELECTRICAL DOCUMENTATION
LST	LED STRIP LIGHT
LTB	LETTERBOX
LTV	LOUVRE
LWL	WALL LIGHT
MC	METAL CLADDING
MDB	MAIN DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
MECH	MECHANICAL
MEL	MELAMINE
MI	MIRROR
MRS	METAL ROOF SHEETING
MW	MATWELL

LEGEND

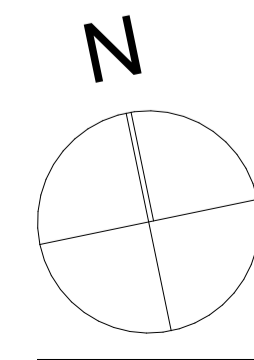
WT.05	WINDOW MARKER eg. WINDOW / LEVEL 1 / WINDOW N° 05
LT.05	LOUVRE MARKER eg. LOUVRE / LEVEL 1 / LOUVRE N° 05
DT.05	DOOR MARKER eg. DOOR / LEVEL 1 / DOOR N° 05
□	LINE MARKING

0.00	EXISTING RL
0.00	PROPOSED RL



3 BUILDING A - ROOF PLAN

EJE ARCHITECTURE
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REV	DATE	COMMENTS
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E	18/07/2023	ISSUE FOR DA

DRN	CHKD	VRFD
GVC	LJJ	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC

PROJECT: METFORD MEDICAL
 CLIENT: Metford Medical
 395 Metford Road, METFORD
 NSW, 2323

SITE: 412 KING STREET, NEWCASTLE,
 NSW 2300
 DRAWING: BUILDING A - ROOF PLAN

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 FILENAME : 14541-DA-MetfordMedical-220719.ppt
 DRAWN: LJJ DATE: 19/07/2023 SCALES @A1: 1:100
 PROJECT No: 14541 DA PHASE: A07 DRAWING No: A07 REV: E

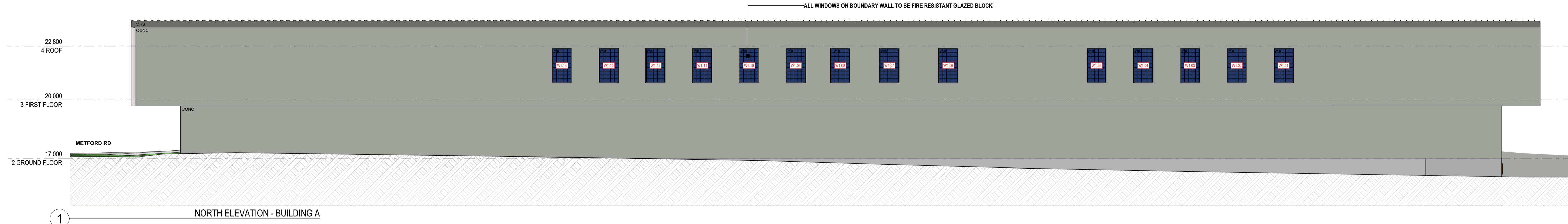


ABBREVIATIONS

AC AIR CONDITIONING - REFER TO MECHANICAL DOCUMENTATION	BH BULKHEAD	COL COLUMN - REFER TO STRUCTURAL DOCUMENTATION	EF EXHAUST FAN	FP FIRE INDICATOR PANEL TO CONSULTANTS REQUIREMENTS	GT GUTTER TRANSOM	LDL DOWNLIGHT
ACP ALUMINIUM COMPOSITE PANEL	BIN GARBAGE BIN	CONC CONCRETE	EJ EXPANSION JOINT	FL FLASHING	GW GLASS WINDOW	LDY LAUNDRY
AS SOLID SURFACE	BRK BRICKWORK	COS CONCRETE ON SITE	ELP ELECTRICAL PLATE	FLM VINYL FILM	HA HOME AUTOMATION CLIPBOARD	LK LOCKER SYSTEM
ADJ ADJUSTABLE SHELF	BS BOLLARD	CPC COLORBOND PARAPET CAPPING	ENS ENSUITE	FR FIRE RESISTANCE	HS HAND BASIN	LP LIGHT FITTING POCKET IN CONCRETE SLAB SOFFIT
AHD AUSTRALIAN HEIGHT DATUM	BS BENCH SEAT	CPD CUPBOARD	EP EPOXY FLOORING	FRP FIREPLACE	HD HINGED DOOR	LPN PENDANT LIGHT
AL ALUMINIUM LOUVER	BT BOTTLE TRAP	OPT OPTIC	EPS EXPANDED POLYSTYRENE CLADDING SYSTEM	FS FIXED SHELF	HD HAND DRIVER	LPL LIGHT POLE - REFER TO ELECTRICAL DOCUMENTATION
ALB ALUMINIUM BATTEN	BTH BATH TUB	CR CEMENT RENDER	ED EQUAL SPACING	FT FLOOR TILES	HT HOSE TAP	LST LED STRIP LIGHT
ALS VERTICAL ALUMINIUM SCREEN	BTH BATH TUB	CRN CURTAIN	ED EQUAL SPACING	FW FLOOR WASTE	HR HANDRAIL	LTB LETTERBOX
AP ACCESS PANEL	CBP CARPETING	CRT CURTAIN RAIL	ED EQUAL SPACING	G GLASS	HRL HANDING RAIL	LVR LOUVER
AR ARCHITRAVE	CB PREFINISHED STEEL	CS CLEANERS SINK	FAN FACE BRICK	GA GREASE ARRESTOR	HT HOSE TAP	LWL WALL LIGHT
AS AUSTRALIAN STANDARD	CBG COLOUR-BACKED GLASS	CS CLEANERS SINK	FB FACE BRICK	GC GARBAGE CHUTE	HTR HEATER	MC METAL CLADDING
BA BARGE BOARD	CFC COMPRESSED FIBRE CEMENT	CW COVERED SHIRTING	FC FIBRE CEMENT SHEETING	GD GRATED DRAIN	HWS HOT WATER SYSTEM	MDB MAIN DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
BAL BALUSTRADE	CH COAT HOOK	DR DOWNPIPE - REFER TO HYDRAULIC DOCUMENTATION	FE FIRE EXTINGUISHER	GL GLASS LOUVRES	J JOINERY	MECH MECHANICAL
BC BABY CHANGE TABLE	CJ CONSTRUCTION / CONTROL JOINT	DR DOOR	FFL FINISHED FLOOR LEVEL	GR GRASS RAIL	KK KNOCK	MEL MELAMINE
BD BENCHTOP	CL CENTRE LINE	DS DOOR STOP	FG FIXED GLASS	GR GARAGE DOOR	LB LINING BOARDS	MI MIRROR
BF BI-FOLD DOOR	CLD CLADDING	EDB ELECTRICAL DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION	FH FIRE HYDRANT - REFER TO HYDRAULIC DOCUMENTATION	GRV GRAVEL	LD LINING BOARDS	MRS METAL ROOF SHEETING
BG BOX GUTTER	CLS CLOTHESLINE		FHR FIRE HOSE REEL - REFER TO HYDRAULIC DOCUMENTATION	GP GRATED PIT - REFER TO HYDRAULIC DOCUMENTATION	LD ACCESS LADDER	MW MATWELL

LEGEND

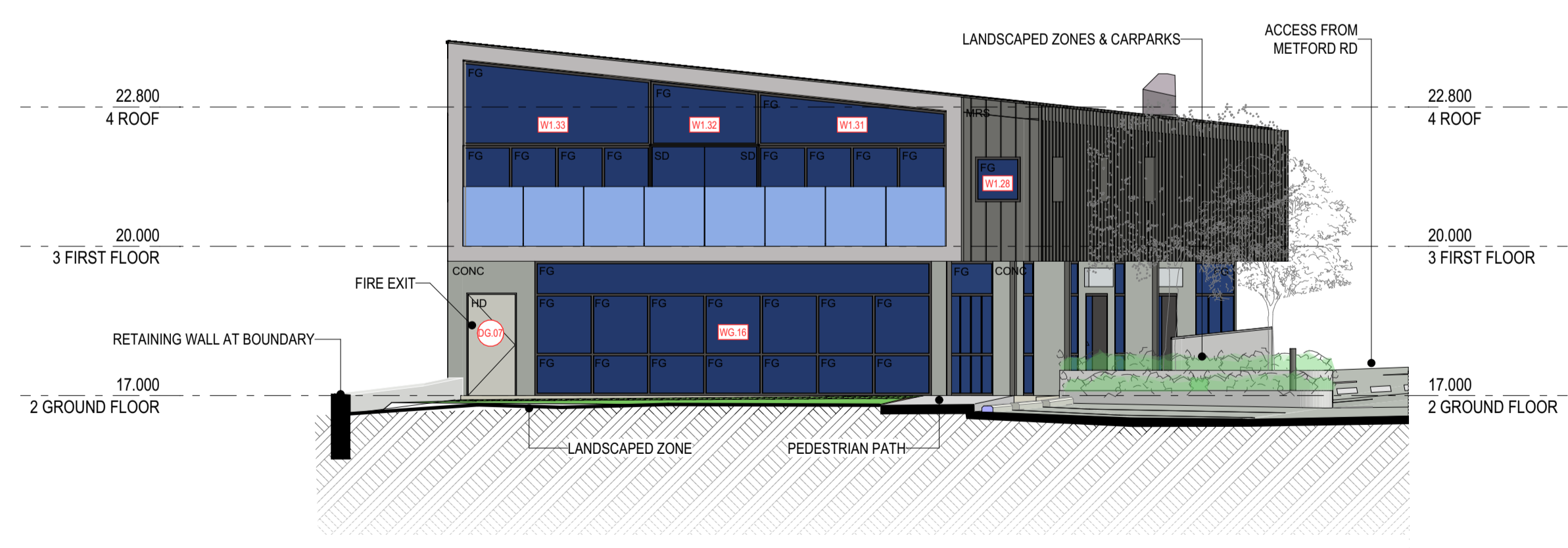
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D1.05 DOOR MARKER eg DOOR / LEVEL 1 / DOOR N° 05



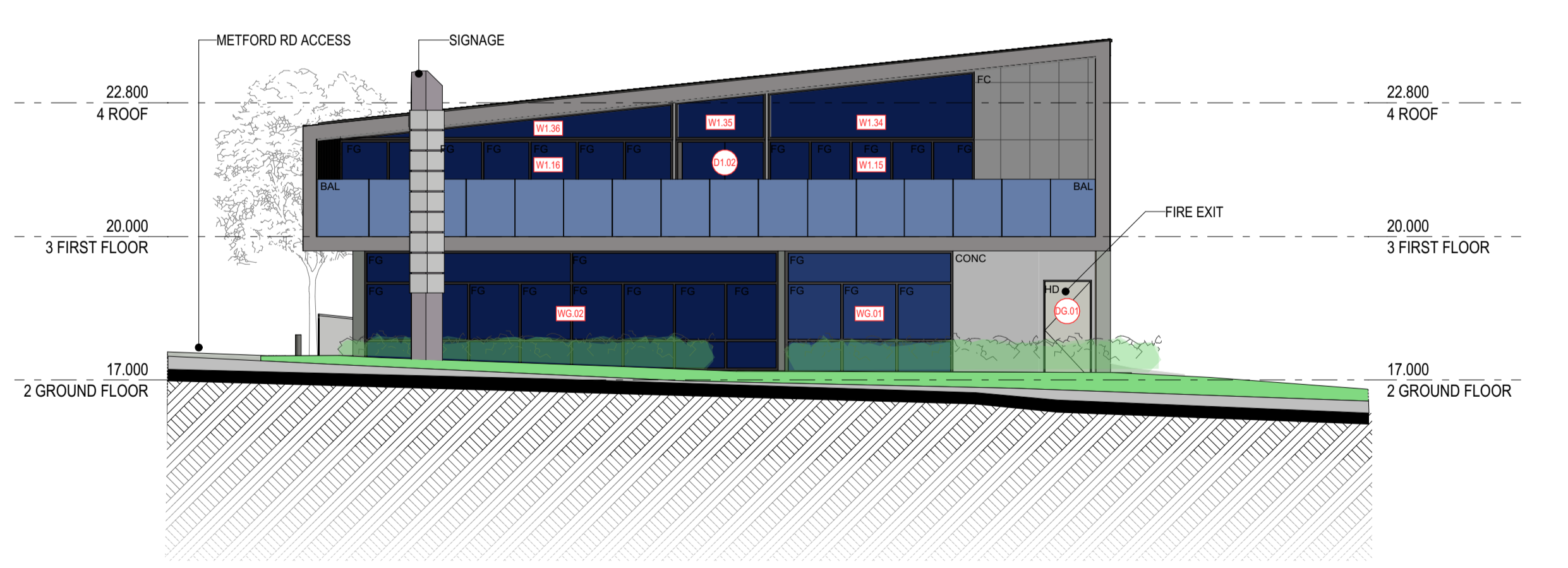
1 NORTH ELEVATION - BUILDING A



2 SOUTH ELEVATION - BUILDING A



3 WEST ELEVATION - BUILDING A



4 EAST ELEVATION - BUILDING A - METFORD ROAD

EJE ARCHITECTURE
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 Nominated Architect - Bernard Collins
 NSW Architects Registration No. 4438
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E	18/07/2023	ISSUE FOR DA

DRN	CHKD	VRFD
GVC	LJJ	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC

PROJECT: **METFORD MEDICAL**

CLIENT: **Metford Medical**
 395 Metford Road, METFORD NSW, 2323

SITE: **412 KING STREET, NEWCASTLE, NSW 2300**

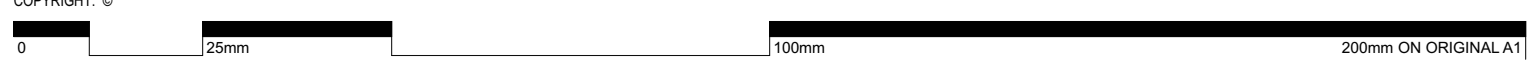
DRAWING: **BUILDING A - NORTH, SOUTH, EAST & WEST ELEVATIONS**

WORK IN FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS.

FILENAME: 14541-DA-MetfordMedical-220719.rvt

DRAWN: **LJJ** DATE: **19/07/2023** SCALES @A1: **1:100**

PROJECT No: **14541 DA** PHASE: **A08** DRAWING No: **A08** REV: **E**

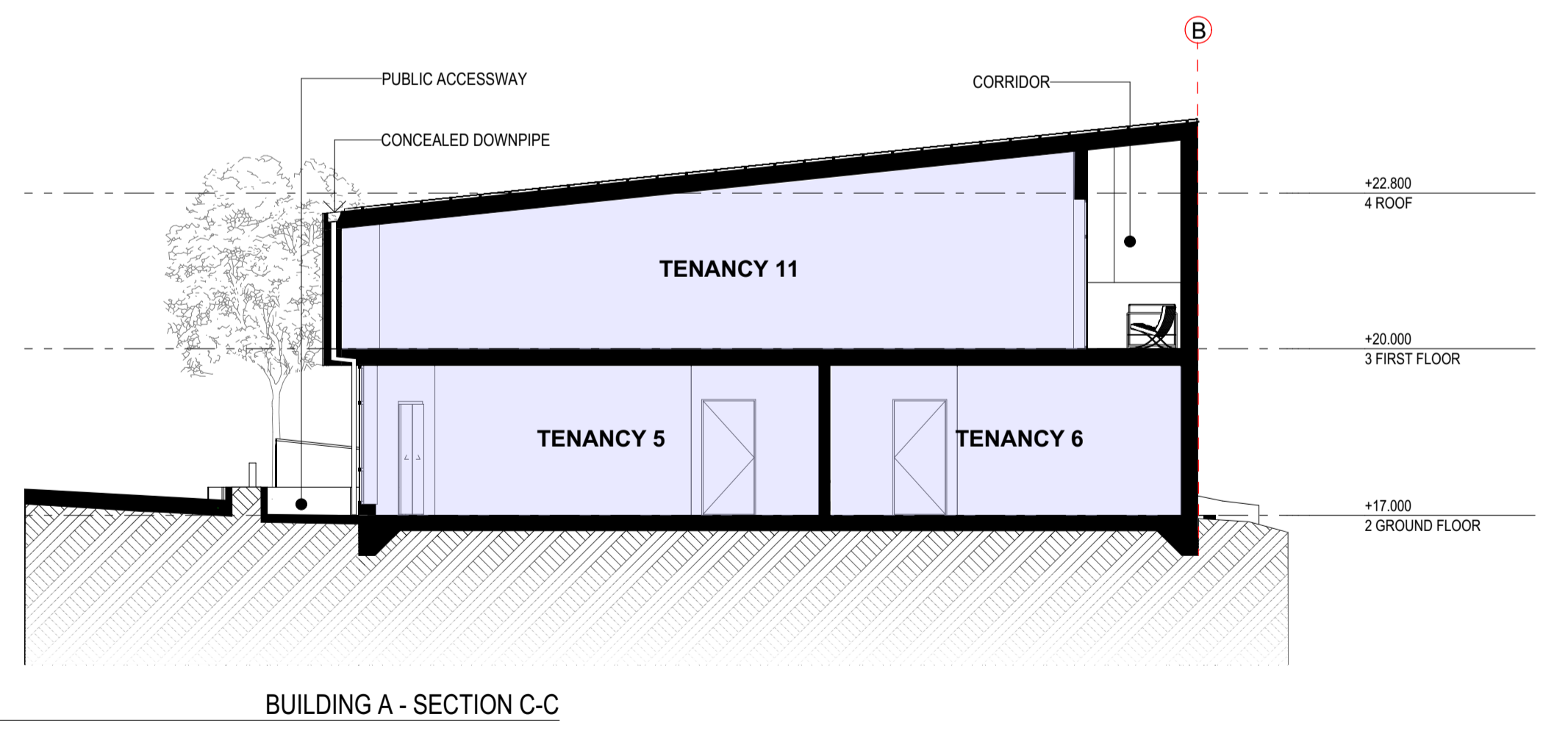
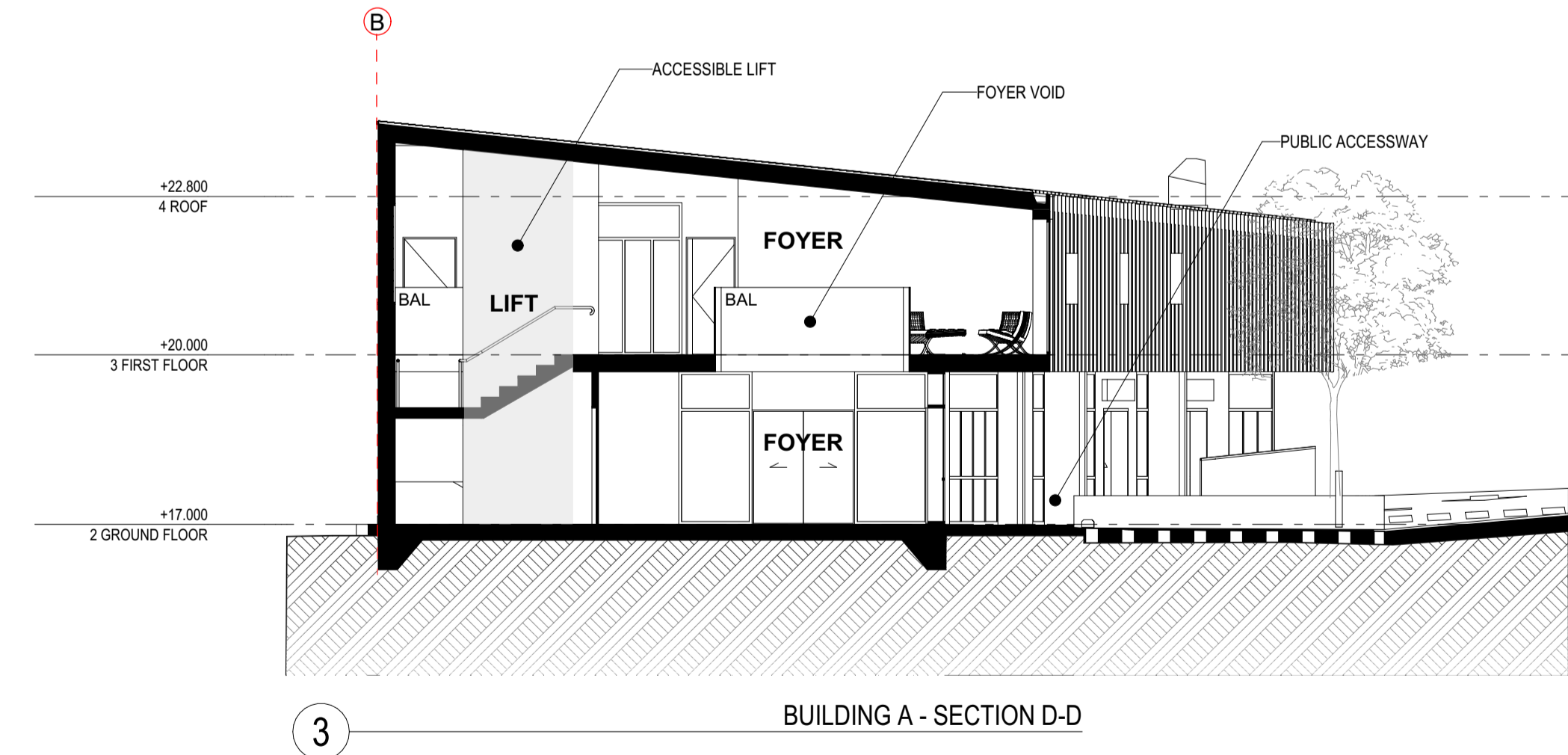
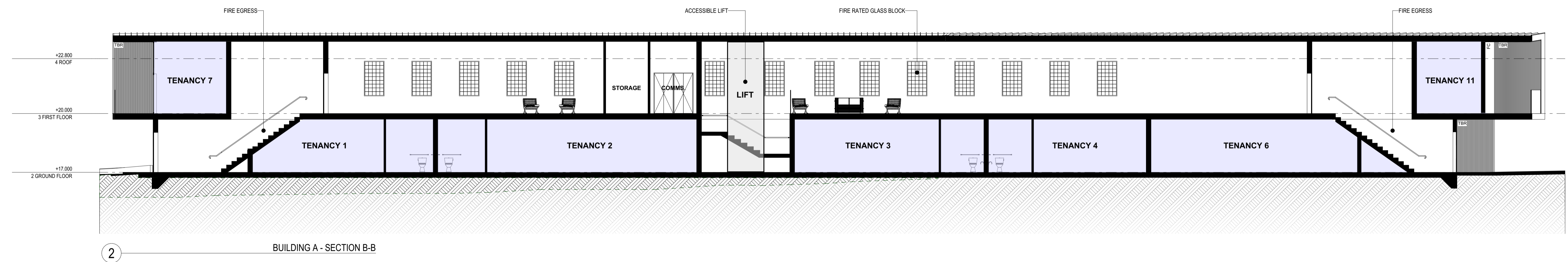
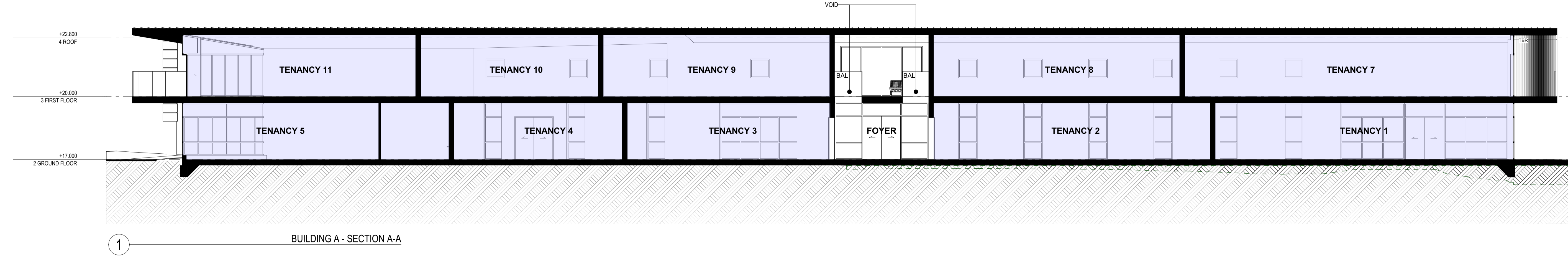


ABBREVIATIONS

AC AIR CONDITIONING - REFER TO MECHANICAL DOCUMENTATION	BH BULKHEAD	COL COLUMN - REFER TO STRUCTURAL DOCUMENTATION	EF EXHAUST FAN	FP FIRE INDICATOR PANEL TO CONSULTANTS REQUIREMENTS	GT GUTTER TRANSOM	LDL DOWNLIGHT
ACP ALUMINIUM COMPOSITE PANEL	BIN GARBAGE BIN	CONC CONCRETE	EG EAVES GUTTER - REFER TO HYDRAULIC DOCUMENTATION	FL FLASHING	GW GLASS WINDOW	LDY LAUNDRY
AS SOLID SURFACE	BRK CONCRETE BLOCKWORK	COS CONCRETE ON SITE	EJ EXPANSION JOINT	FLM FIRE RESISTANCE	HA HOME AUTOMATION CLIPBOARD	LK LOCKER SYSTEM
ADJ ADJUSTABLE SHELF	BRX BRICKWORK	CPC COLORBOND PARAPET CAPPING	ELP ELECTRICAL PLATE	FR FIRE RESISTANCE	HB HAND BASIN	LP LIGHT FITTING POCKET IN CONCRETE SLAB SOFFIT
AHD AUSTRALIAN HEIGHT DATUM	BOL BOLLARD	CPD CUPBOARD	ENS ENSUITE	FRP FIREPLACE	HD HINGED DOOR	LPN PENDANT LIGHT
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ALB ALUMINIUM BATTEN	BT BOTTLE TRAP	CR CEMENT RENDER	EPS EXPANDED POLYSTYRENE CLADDING SYSTEM	FT FLOOR TILES	HP HIGH POINT	LST LED STRIP LIGHT
ALS VERTICAL ALUMINIUM SCREEN	BTH BATHTUB	CRN CORNICE	ED EQUAL SPACING	FW FLOOR WASTE	HR HANDRAIL	LTB LETTERBOX
AP ACCESS PANEL	CAF CAPPING	CRT CURTAIN	EQ EQUAL SPACING	G GLASS	HRL HANGING RAIL	LVR LOUVER
AR ARCHITRAVE	CB PREFINISHED STEEL	CRR CURTAIN RAIL	FAN CEILING FAN	GA GREASE ARRESTOR	HT HOSE TAP	LWL WALL LIGHT
AS AUSTRALIAN STANDARD	CBG COLOUR-BACKED GLASS	CS CLEANERS SINK	FB FACE BRICK	GC GARBAGE CHUTE	HTR HEATER	MC METAL CLADDING
BA BARGE BOARD	CFC COMPRESSED FIBRE CEMENT	CVS COVERED SHIRTING	FC FIBRE CEMENT SHEETING	GD GRATED DRAIN	HWS HOT WATER SYSTEM	MDG MAIN DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
BAL BALUSTRADE	CH COAT HOOK	CW COLD WATER	FE FIRE EXTINGUISHER	GL GLASS LOUVRES	J JOINERY	MECH MECHANICAL
BC BABY CHANGE TABLE	CJ CONSTRUCTION / CONTROL JOINT	DP DOWNPIPE - REFER TO HYDRAULIC DOCUMENTATION	FFL FINISHED FLOOR LEVEL	GR GRASS RAIL	K KNOCK	MEL MELAMINE
BT BENCHTOP	CL CENTRE LINE	DR DOOR	FG FIXED GLASS	GRD GARAGE DOOR	KB KNOCK	MI MIRROR
BF BI-FOLD DOOR	CLD CLADDING	DS DOOR STOP	FH FIRE HYDRANT - REFER TO HYDRAULIC DOCUMENTATION	GRV GRAVEL	LB LINING BOARDS	MRS METAL ROOF SHEETING
BG BOX GUTTER	CLS CLOTHESLINE	EDB ELECTRICAL DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION	FHR FIRE HOSE REEL - REFER TO HYDRAULIC DOCUMENTATION	GP GRAVED PIT - REFER TO HYDRAULIC DOCUMENTATION	LD ACCESS LADDER	MW MATWELL

LEGEND

W1.05 WINDOW MARKER eg WINDOW / LEVEL 1 / WINDOW N° 05
D1.05 DOOR MARKER eg DOOR / LEVEL 1 / DOOR N° 05



EJE ARCHITECTURE
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 NSW Architects Registration No. 4438
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REV	DATE	COMMENTS
A	30/03/2023	ISSUE FOR CLIENT REVIEW
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E	18/07/2023	ISSUE FOR DA

DRN	CHKD	VRFD
GVC	LJJ	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC

PROJECT: **METFORD MEDICAL**

SITE: **412 KING STREET, NEWCASTLE, NSW 2300**

CLIENT: **Metford Medical
395 Metford Road, METFORD NSW, 2323**

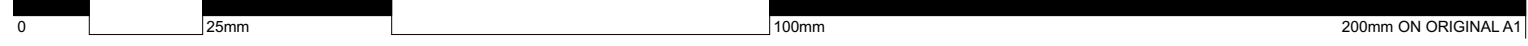
DRAWING: **BUILDING A - SECTION A-A, B-B, C-C, D-D**

WORK IN FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS.

FILENAME: 14541-DA-MetfordMedical-220719.ph

DRAWN: **LJJ** DATE: **19/07/2023** SCALES @A1: **1:100**

PROJECT No: **14541 DA** PHASE: **A09** DRAWING No: **A09** REV: **E**



ABBREVIATIONS

AC AIR CONDITIONING - REFER TO MECHANICAL DOCUMENTATION
 ACP ALUMINIUM COMPOSITE PANEL
 ADS SOLID SURFACE
 ADJ ADJUSTABLE SHELF
 AHD AUSTRALIAN HEIGHT DATUM
 AL ALUMINIUM LOUVRE
 ALB ALUMINIUM BATTEN
 ALS VERTICAL ALUMINIUM SCREEN
 AP ACCESS PANEL
 AR ARCHITRAVE
 AS AUSTRALIAN STANDARD
 BA BARGE BOARD
 BAL BALUSTRADE
 BC BABY CHANGE TABLE
 BOT BENCHTOP
 BF BI-FOLD DOOR
 BG BOX GUTTER

BH BULKHEAD
 BIN GARBAGE BIN
 BK CONCRETE BLOCKWORK
 BRK BRICKWORK
 BS BOLLARDS
 BS BENCH SEAT
 BT BOTTLE TRAP
 BTH BATHTUB
 CAP CARPETING
 CB PREFINISHED STEEL
 CBC COLOUR-BACKED GLASS
 CFC COMPRESSED FIBRE CEMENT
 CH COAT HOOK
 CJ CONSTRUCTION / CONTROL JOINT
 CL CENTRE LINE
 CLD CLADDING
 CLS CLOTHESLINE

COL COLUMN - REFER TO STRUCTURAL DOCUMENTATION
 CONC CONCRETE
 COS CONFORM ON SITE
 CPC COLORBOND PARAPET CAPPING
 CPD CUPBOARD
 CRT CARPET
 CR CEMENT RENDER
 CRN CORNICE
 CRT CURTAIN
 CRR CURTAIN RAIL
 CS CLEANERS SINK
 CWS COVERED SHIRTING
 CW COLD WATER
 DP DOWNPIPE - REFER TO HYDRAULIC DOCUMENTATION
 DR DOOR
 DS DOOR STOP
 EDB ELECTRICAL DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION

EF EXHAUST FAN
 EGV EAVES GUTTER - REFER TO HYDRAULIC DOCUMENTATION
 ELP ELECTRICAL PLATE
 ENS ENSUITE
 EP EPOXY FLOORING
 EPS EXPANDED POLYSTYRENE CLADDING SYSTEM
 ED EQUAL SPACING
 FB FACE BRICK
 FC FIBRE CEMENT SHEETING
 FE FIRE EXTINGUISHER
 FFL FINISHED FLOOR LEVEL
 FG FIXED GLASS
 FH FIRE HYDRANT - REFER TO HYDRAULIC DOCUMENTATION
 FHR FIRE HOSE REEL - REFER TO HYDRAULIC DOCUMENTATION

FIP FIRE INDICATOR PANEL TO CONSULTANTS REQUIREMENTS
 FL FLASHING
 FLX VINYL FILM
 FR FIRE RESISTANCE
 FRP FIREPLACE
 FS FIXED SHELF
 FT FLOOR TILES
 FW FLOOR WASTE
 G GLASS
 GA GREASE ARRESTOR
 GC GARBAGE CHUTE
 GD GRATED DRAIN
 GL GLASS LOUVRES
 GR GARAGE RAIL
 GRD GARAGE DOOR
 GRV GRAVEL
 GP GRATED PIT - REFER TO HYDRAULIC DOCUMENTATION

GT GUTTER TRANSOM
 GW GLASS WINDOW
 HA HOME AUTOMATION CONTROL BOARD
 HB HAND BASIN
 HD HINGED DOOR
 HOR HAND DRYER
 HP HIGH POINT
 HR HANDRAIL
 HRL HANGING RAIL
 HT HOSE TAP
 HTR HEATER
 HWS HOT WATER SYSTEM
 HYD HYDRAULIC
 J JOINERY
 KK KICK
 LB LINING BOARDS
 LD ACCESS LADDER

LDL DOWNLIGHT
 LDY LAUNDRY
 LK LOCKER SYSTEM
 LP LIGHT FITTING POCKET IN CONCRETE SLAB SOFFIT
 LPN PENDANT LIGHT
 LPL LIGHT POLE - REFER TO ELECTRICAL DOCUMENTATION
 LST LED STRIP LIGHT
 LTB LETTERBOX
 LTR LETTERBOX
 LVL WALL LIGHT
 MC METAL CLADDING
 MCB MAIN DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
 MECH MECHANICAL
 MEL MELAMINE
 MI MIRROR
 MRS METAL ROOF SHEETING
 MW MATWELL

LEGEND

WT.05 WINDOW MARKER
 eg. WINDOW / LEVEL 1 / WINDOW N° 05

LT.05 LOUVRE MARKER
 eg. LOUVRE / LEVEL 1 / LOUVRE N° 05

DT.05 DOOR MARKER
 eg. DOOR / LEVEL 1 / DOOR N° 05

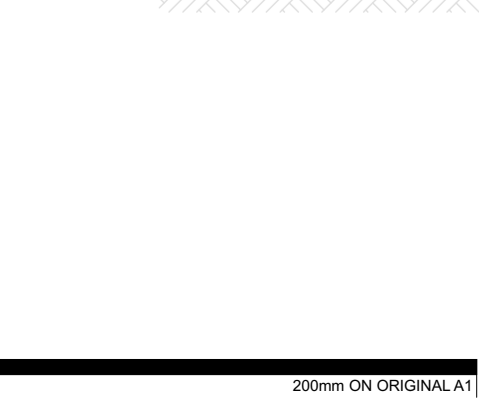
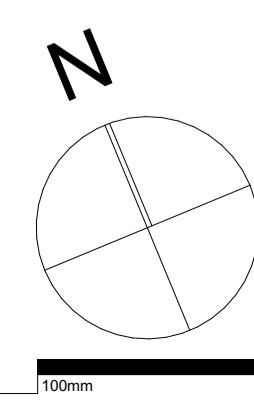
LINE MARKING

0.00 EXISTING RL
 0.00 PROPOSED RL



4 BUILDING B - PROPOSED LOWER GROUND

EJE ARCHITECTURE
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PROJECT: **METFORD MEDICAL**

SITE: **412 KING STREET, NEWCASTLE, NSW 2300**

CLIENT: **Metford Medical**
 395 Metford Road, METFORD NSW, 2323

DRAWN: **LJJ** DATE: **19/07/2023** SCALES @A1: **1:100**

DRAWING: **BUILDING B - LOWER GROUND LEVEL**

PROJECT No: **14541 DA** PHASE: **A10** DRAWING No: **A10** REV: **E**

WORK IN FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS.

FILENAME: 14541-DA-MetfordMedical-220719.dwg



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- AC AIR CONDITIONING - REFER TO MECHANICAL DOCUMENTATION
- ACP ALUMINIUM COMPOSITE PANEL
- ACS SOLID SURFACE
- ADJ ADJUSTABLE SHELF
- AHD AUSTRALIAN HEIGHT DATUM
- AL ALUMINIUM LOUVRE
- ALB ALUMINIUM BATTEN
- ALS VERTICAL ALUMINIUM SCREEN
- AP ACCESS PANEL
- AR ARCHITRAVE
- AS AUSTRALIAN STANDARD
- BA BARGE BOARD
- BAL BALUSTRADE
- BC BABY CHANGE TABLE
- BOT BENCHTOP
- BF BI-FOLD DOOR
- BG BOX GUTTER

- BH BULKHEAD
- BN ALUMINIUM CONCRETE BLOCKWORK
- BRK BRICKWORK
- BOL BOLLARD
- BS BENCH SEAT
- BT BOTTLE TRAP
- BTH BATHTUB
- CA ACCESS PANEL
- CB PREFINISHED STEEL
- CBG COLOUR-BACKED GLASS
- CFC COMPRESSED FIRE CEMENT
- CH COAT HOOK
- CJ CONSTRUCTION / CONTROL JOINT
- CL CENTRE LINE
- CLD CLADDING
- CLS CLOTHESLINE

- COL COLUMN - REFER TO STRUCTURAL DOCUMENTATION
- CON CONCRETE
- COS CONFORM ON SITE
- CPC COLORBOND PARAPET CAPPING
- CPD CUPBOARD
- CPY CARPET
- CR CEMENT RENDER
- CRN CORNICE
- CRT CURTAIN
- CRR CURTAIN RAIL
- CS CLEANERS SINK
- CVS COVERED SHIRTING
- CW COLD WATER
- DP DOWNPIPE - REFER TO HYDRAULIC DOCUMENTATION
- DR DOOR
- DS DOOR STOP
- EDB ELECTRICAL DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION

- EF EXHAUST FAN
- EG EAVES GUTTER - REFER TO HYDRAULIC DOCUMENTATION
- EJ EXPANSION JOINT
- ELP ELECTRICAL PLATE
- ENS ENSUIVE
- EP EPOXY FLOORING
- EPS EXPANDED POLYSTYRENE CLADDING SYSTEM
- ED EQUAL SPACING
- FB FACE BRICK
- FC FABRIC / UPHOLSTERY
- FAN CEILING FAN
- FB FACE BRICK
- FC FABRIC / UPHOLSTERY
- FE FIRE EXTINGUISHER
- FRL FINISHED FLOOR LEVEL
- FG FIXED GLASS
- FH FIRE HYDRANT - REFER TO HYDRAULIC DOCUMENTATION
- FHR FIRE HOSE REEL - REFER TO HYDRAULIC DOCUMENTATION

- FIP FIRE INDICATOR PANEL TO CONSULTANTS REQUIREMENTS
- FL FLASHING
- FLM VINYL FILM
- FR FIRE RESISTANCE
- FRP FIRE PLACE
- FS FIXED SHELF
- FT FLOOR TILES
- FW FLOOR WASTE
- G GLASS
- GA GREASE ARRESTOR
- GC GARBAGE CHUTE
- GD GRATED DRAIN
- GL GLASS LOUVRES
- GR GARAGE RAIL
- GRD GARAGE DOOR
- GRV GRAVEL
- GP GRATED PIT - REFER TO HYDRAULIC DOCUMENTATION

- GT GUTTER TRANSOM
- GW GLASS WINDOW
- HA HOME AUTOMATION CLIPBOARD
- HB HAND BASIN
- HD HINGED DOOR
- HDR HAND DRYER
- HP HIGH POINT
- HR HANDRAIL
- HRL HANDING RAIL
- HT HOSE TAP
- HTR HEATER
- HWS HOT WATER SYSTEM
- HYD HYDRAULIC
- J JOINERY
- KK KNOCK
- LB LINING BOARDS
- LD ACCESS LADDER

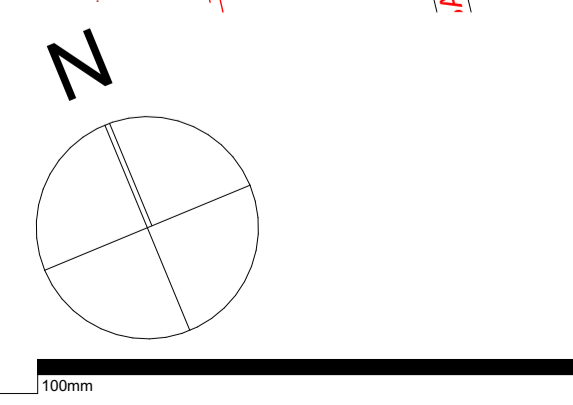
- LDL DOWNLIGHT
- LDY LAUNDRY
- LK LOCKER SYSTEM
- LP LIGHT FITTING POCKET IN CONCRETE SLAB SOFFIT
- LPN PENDANT LIGHT
- LPL LIGHT POLE - REFER TO ELECTRICAL DOCUMENTATION
- LST LED STRIP LIGHT
- LTB LETTERBOX
- LTV LOUVRE
- LWL WALL LIGHT
- MC METAL CLADDING
- MD MAIN DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
- MIB MECHANICAL
- MEL MELAMINE
- MI MIRROR
- MRS METAL ROOF SHEETING
- MW MATWELL

- LEGEND**
- W1.05 WINDOW MARKER
eg. WINDOW / LEVEL 1 / WINDOW N° 05
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- 0.00 EXISTING RL
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PROJECT: METFORD MEDICAL
 SITE: 412 KING STREET, NEWCASTLE, NSW 2300
 CLIENT: Metford Medical
 395 Metford Road, METFORD NSW, 2323

DRAWING: BUILDING B - GROUND LEVEL
 PROJECT No: 14541 DA
 PHASE: A11
 DRAWING No: A11
 REV: C

WORK IN FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS.
 FILENAME: 14541-DA-MetfordMedical-220719.rvt
 DRAWN: LJJ
 DATE: 19/07/2023
 SCALES @A1: 1:100

EJE architecture

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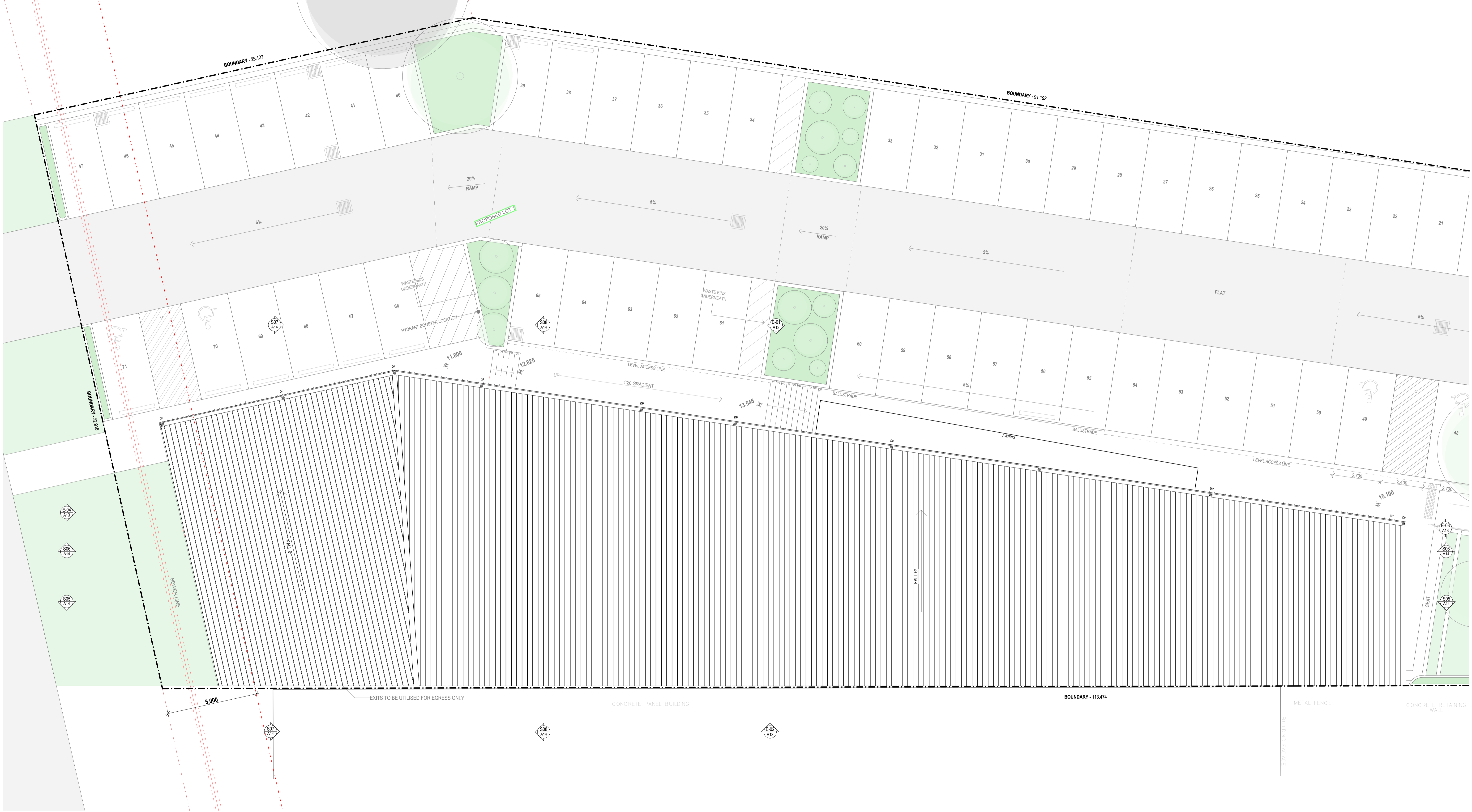
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- MDB MAIN DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
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- MI MIRROR
- MRS METAL ROOF SHEETING
- MW MATWELL

- LEGEND**
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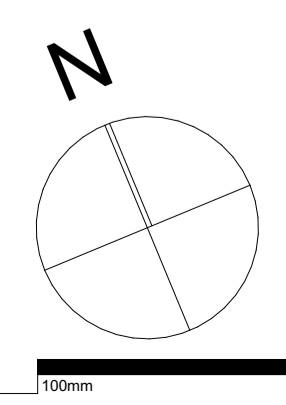


4 BUILDING B - PROPOSED GROUND FLOOR

EJE ARCHITECTURE
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 Nominated Architect - Bernard Collins
 NSW Architects Registration No. 4438
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PROJECT: **METFORD MEDICAL**

SITE: **412 KING STREET, NEWCASTLE, NSW 2300**

CLIENT: **Metford Medical**
 395 Metford Road, METFORD NSW, 2323

DRAWING: **BUILDING B - ROOF PLAN**

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DRAWN: **LJJ** DATE: **19/07/2023** SCALES @A1: **1:100**

PROJECT No: **14541 DA** PHASE: **A12** DRAWING No: **A12** REV: **E**



ABBREVIATIONS

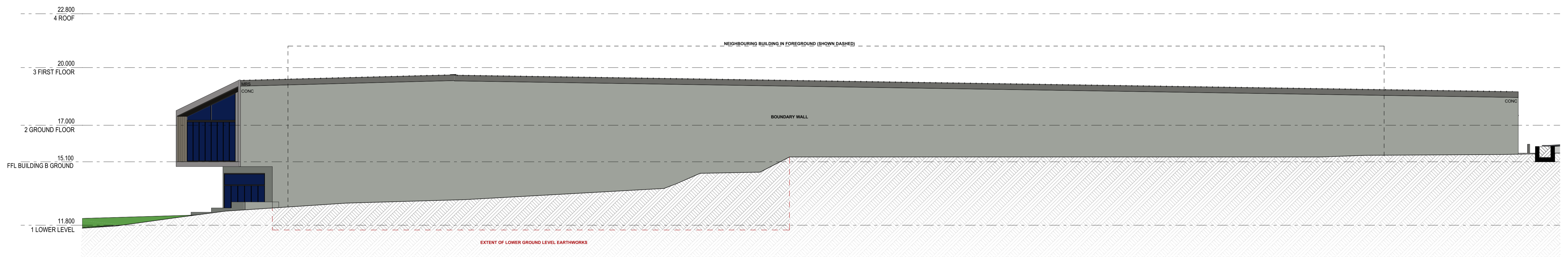
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ADP ALUMINIUM COMPOSITE PANEL	BNP GARBAGE BIN	CONC CONCRETE	EJ EXPANSION JOINT	FL FLASHING	GW GLASS WINDOW	LDY LAUNDRY
ASD SOLID SURFACE	BRK BRICKWORK	COS CONCRETE ON SITE	ELP ELECTRICAL PLATE	FLM VINYL FILM	HA HOME AUTOMATION CLIPBOARD	LK LOCKER SYSTEM
ADJ ADJUSTABLE SHELF	BSL BOLLARD	CPC COLORBOND PARAPET CAPPING	ENS ENSUITE	FR FIRE RESISTANCE	HB HAND BASIN	LP LIGHT FITTING POCKET IN CONCRETE SLAB SOFFIT
AHD AUSTRALIAN HEIGHT DATUM	BS BENCH SEAT	CPD CUPBOARD	EP EPOXY FLOORING	FRP FIREPLACE	HD HINGED DOOR	LPN PENDANT LIGHT
AL ALUMINIUM LOUVER	BT BOTTLE TRAP	CR CEMENT RENDER	EP EXPANDED POLYSTYRENE CLADDING SYSTEM	FS FIXED SHELF	HDR HAND DRYER	LPL LIGHT POLE - REFER TO ELECTRICAL DOCUMENTATION
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AR ARCHITRAVE	CBG COLOUR-BACKED GLASS	CFC COMPRESSED FIRE CEMENT	FC FIRE CEMENT SHEETING	GA GREASE ARRESTOR	HT HOSE TAP	LVS LOUVER
AS AUSTRALIAN STANDARD	CPC COLOURED POLYMER CONCRETE	CW COLD WATER	FE FIRE EXTINGUISHER	GC GARBAGE CHUTE	HTR HEATER	LWL WALL LIGHT
BA BARGE BOARD	CH COAT HOOK	DP DOWNPIPE - REFER TO HYDRAULIC DOCUMENTATION	FFL FINISHED FLOOR LEVEL	GD GRATED DRAIN	HWS HOT WATER SYSTEM	MC METAL CLADDING
BAL BALUSTRADE	CJ CONSTRUCTION / CONTROL JOINT	DR DOOR	FG FIXED GLASS	GL GLASS LOUVRES	J JONERNY	MDB MAIN DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
BC BABY CHANGE TABLE	CL CENTRE LINE	DS DOOR STOP	FH FIRE HYDRANT - REFER TO HYDRAULIC DOCUMENTATION	GR GRASS RAIL	K KNOCK	MECH MECHANICAL
BDT BENCHTOP	CLS CLOTHESLINE	EDB ELECTRICAL DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION	FHR FIRE HOSE REEL - REFER TO HYDRAULIC DOCUMENTATION	GRD GARAGE DOOR	KB KICK	MEL MELAMINE
BF BIFOLD DOOR				GRV GRAVEL	LB LINING BOARDS	MIR MIRROR
BG BOX GUTTER				GP GRATED PIT - REFER TO HYDRAULIC DOCUMENTATION	LD ACCESS LADDER	MRS METAL ROOF SHEETING
						MW MATWELL

LEGEND

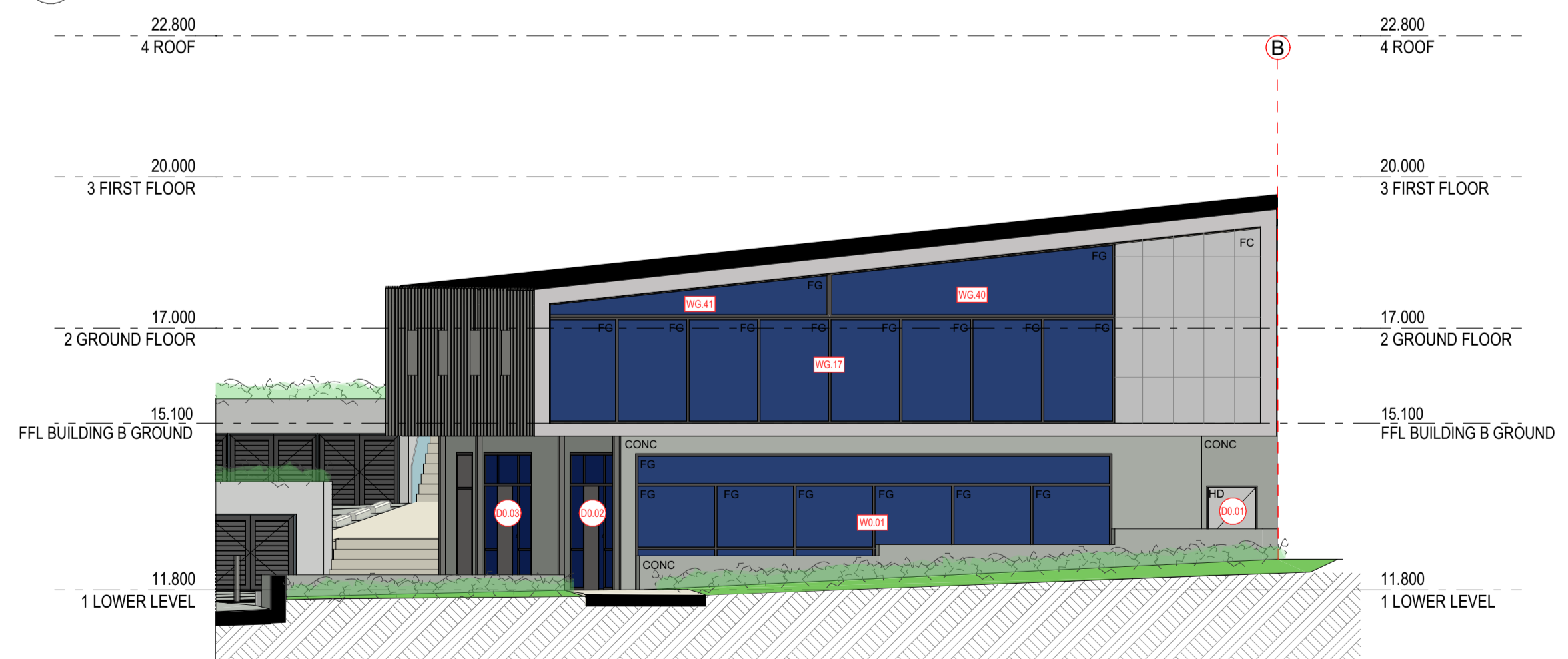
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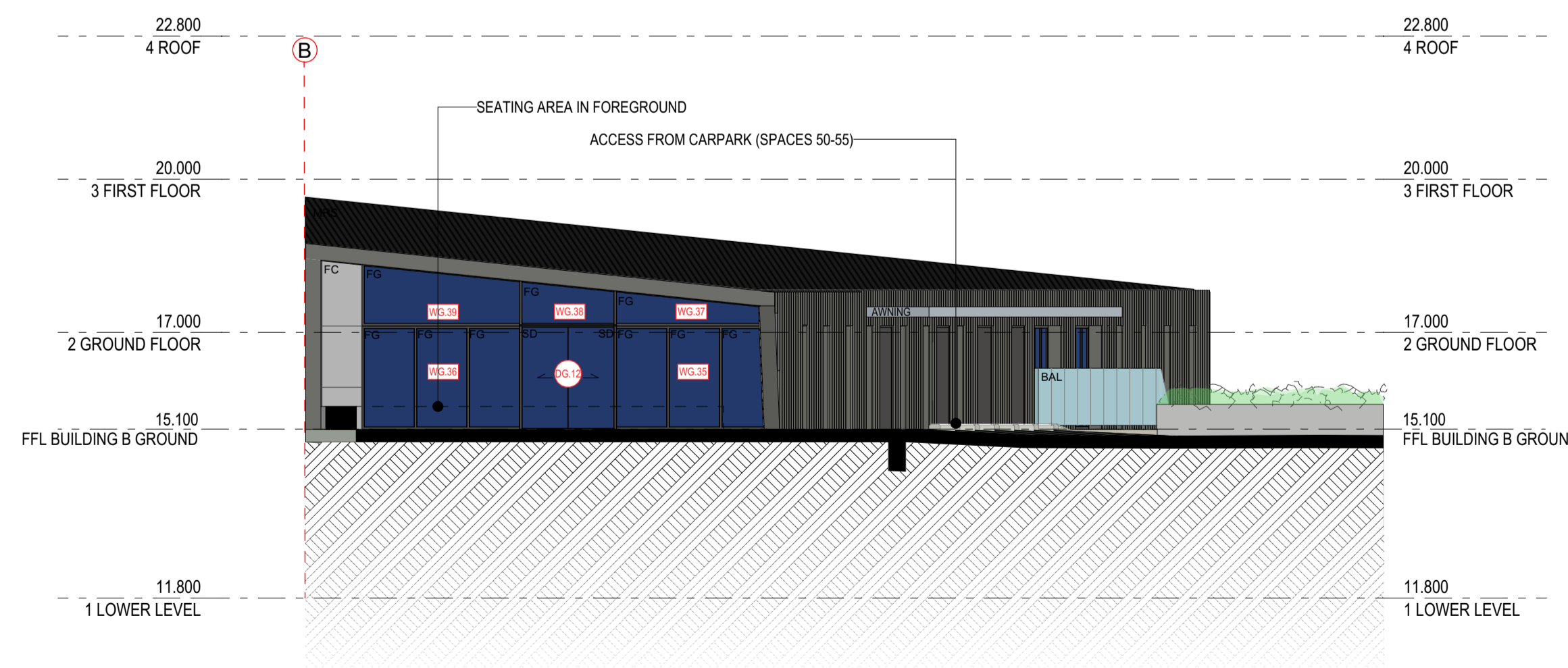
NORTH ELEVATION - BUILDING B



SOUTH ELEVATION - BUILDING B



WEST ELEVATION - BUILDING B



EAST ELEVATION - BUILDING B

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B	2/05/2023	ISSUE FOR CONSULTANTS
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D	5/07/2023	ISSUE FOR DA
E	18/07/2023	ISSUE FOR DA

DRN	CHKD	VRFD
GVC	LJJ	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC
LJJ	BJC	BJC

PROJECT: **METFORD MEDICAL**

CLIENT: **Metford Medical**
 395 Metford Road, METFORD NSW, 2323

SITE: **412 KING STREET, NEWCASTLE, NSW 2300**

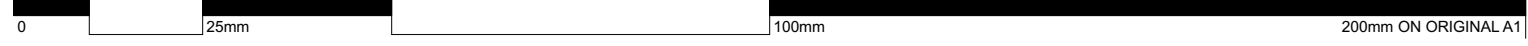
DRAWING: **BUILDING B - NORTH, SOUTH, EAST & WEST ELEVATIONS**

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FILENAME: 14541-DA-MetfordMedical-220719.rvt

DRAWN: **LJJ** DATE: **19/07/2023** SCALES @A1: **1:100**

PROJECT No: **14541 DA** PHASE: **A13** DRAWING No: **A13** REV: **E**

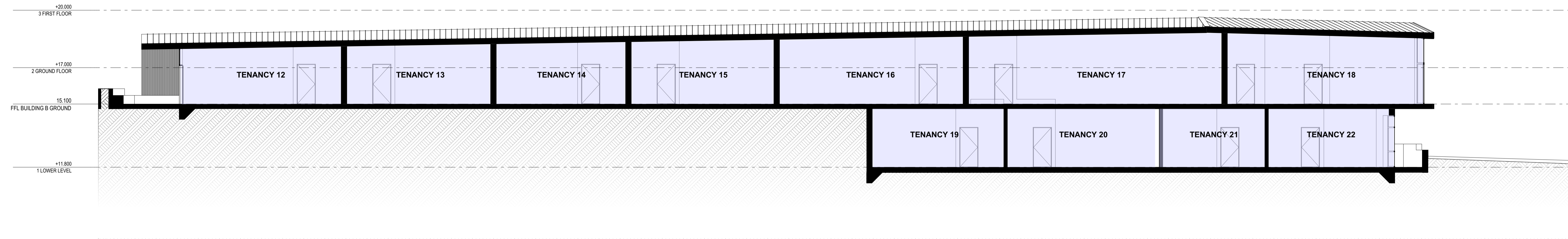


ABBREVIATIONS

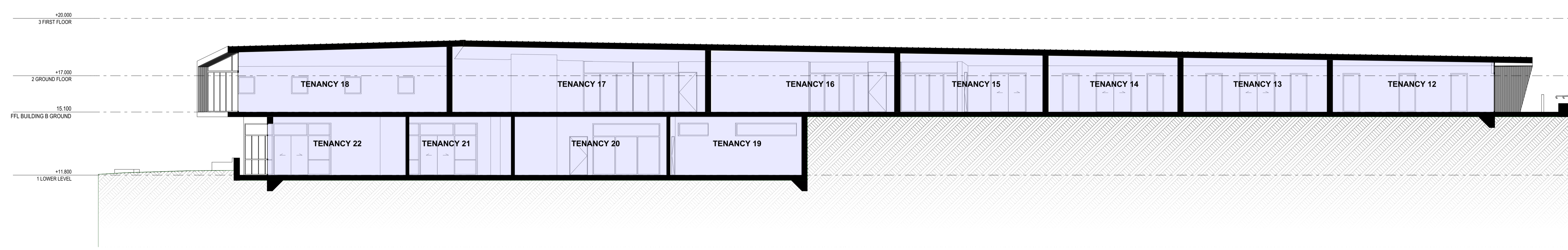
AC AIR CONDITIONING - REFER TO MECHANICAL DOCUMENTATION	BH BULKHEAD	COL COLUMN - REFER TO STRUCTURAL DOCUMENTATION	EF EXHAUST FAN	FP FIRE INDICATOR PANEL TO CONSULTANTS REQUIREMENTS	GT GUTTER TRANSOM	LDL DOWNLIGHT
ACP ALUMINIUM COMPOSITE PANEL	BNP GARBAGE BIN	CONC CONCRETE	EG EAVES GUTTER - REFER TO HYDRAULIC DOCUMENTATION	FL FLASHING	GW GLASS WINDOW	LDY LAUNDRY
ASD SOLID SURFACE	BRK CONCRETE BRICKWORK	COS CONCRETE ON SITE	EJ EXPANSION JOINT	FLM VINYL FILM	HA HOME AUTOMATION CLIPBOARD	LK LOCKER SYSTEM
ADJ ADJUSTABLE SHELF	BRX BRICKWORK	CPC COLORBOND PARAPET CAPPING	ELP ELECTRICAL PLATE	FR FIRE RESISTANCE	HB HAND BASIN	LP LIGHT FITTING POCKET IN CONCRETE SLAB SOFFIT
AHD AUSTRALIAN HEIGHT DATUM	BOL BOLLARD	CPD CURPBOARD	ENS ENSUITE	FRP FIREPLACE	HD HINGED DOOR	LPN PENDANT LIGHT
AL ALUMINIUM LOUVER	BS BENCH SEAT	CRP CARPET	EP EPOXY FLOORING	FS FIXED SHELF	HDR HAND DRIVER	LPL LIGHT POLE - REFER TO ELECTRICAL DOCUMENTATION
ALB ALUMINIUM BATTEN	BT BOTTLE TRAP	CR CEMENT RENDER	EPS EXPANDED POLYSTYRENE CLADDING SYSTEM	FT FLOOR TILES	HP HIGH POINT	LST LED STRIP LIGHT
ALS VERTICAL ALUMINIUM SCREEN	BTH BATHTUB	CRN CORNICE	ED EQUAL SPACING	FW FLOOR WASTE	HR HANDRAIL	LTB LETTERBOX
AP ACCESS PANEL	CAF CAPPING	CRT CURTAIN	EQ EQUAL SPACING	G GLASS	HRL HANGING RAIL	LVS LOUVER
AR ARCHITRAVE	CB PREFINISHED STEEL	CRR CURTAIN RAIL	FAN CEILING FAN	GA GREASE ARRESTOR	HT HOSE TAP	LWL WALL LIGHT
AS AUSTRALIAN STANDARD	CBG COLOUR-BACKED GLASS	CS CLEANERS SINK	FB FACE BRICK	GC GARBAGE CHUTE	HTR HEATER	MC METAL CLADDING
BA BARRIE BOARD	CFC COMPRESSED FIBRE CEMENT	CVS COVER SHIRTING	FC FIBRE CEMENT SHEETING	GD GRATED DRAIN	HWS HOT WATER SYSTEM	MDG MAIN DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION
BAL BALUSTRADE	CH COAT HOOK	CW COLD WATER	FE FIRE EXTINGUISHER	GR GARAGE RAIL	J JOINERY	MECH MECHANICAL
BC BABY CHANGE TABLE	CJ CONSTRUCTION / CONTROL JOINT	DP DOWNPIPE - REFER TO HYDRAULIC DOCUMENTATION	FFL FINISHED FLOOR LEVEL	GRD GARAGE DOOR	K KNOCK	MEL MELAMINE
BT BENCHTOP	CL CENTRE LINE	DR DOOR	FG FIXED GLASS	GRV GRAVEL	KB KICK	MI MIRROR
BF BI-FOLD DOOR	CLD CLADDING	DS DOOR STOP	FH FIRE HYDRANT - REFER TO HYDRAULIC DOCUMENTATION	GP GRATED PIT - REFER TO HYDRAULIC DOCUMENTATION	LB LINING BOARDS	MRS METAL ROOF SHEETING
BG BOX GUTTER	CLS CLOTHESLINE	EDB ELECTRICAL DISTRIBUTION BOARD - REFER TO ELECTRICAL DOCUMENTATION	FHR FIRE HOSE REEL - REFER TO HYDRAULIC DOCUMENTATION		LD ACCESS LADDER	MW MATWELL

LEGEND

W1.05 WINDOW MARKER	eg WINDOW / LEVEL 1 / WINDOW N° 05
D1.05 DOOR MARKER	eg DOOR / LEVEL 1 / DOOR N° 05



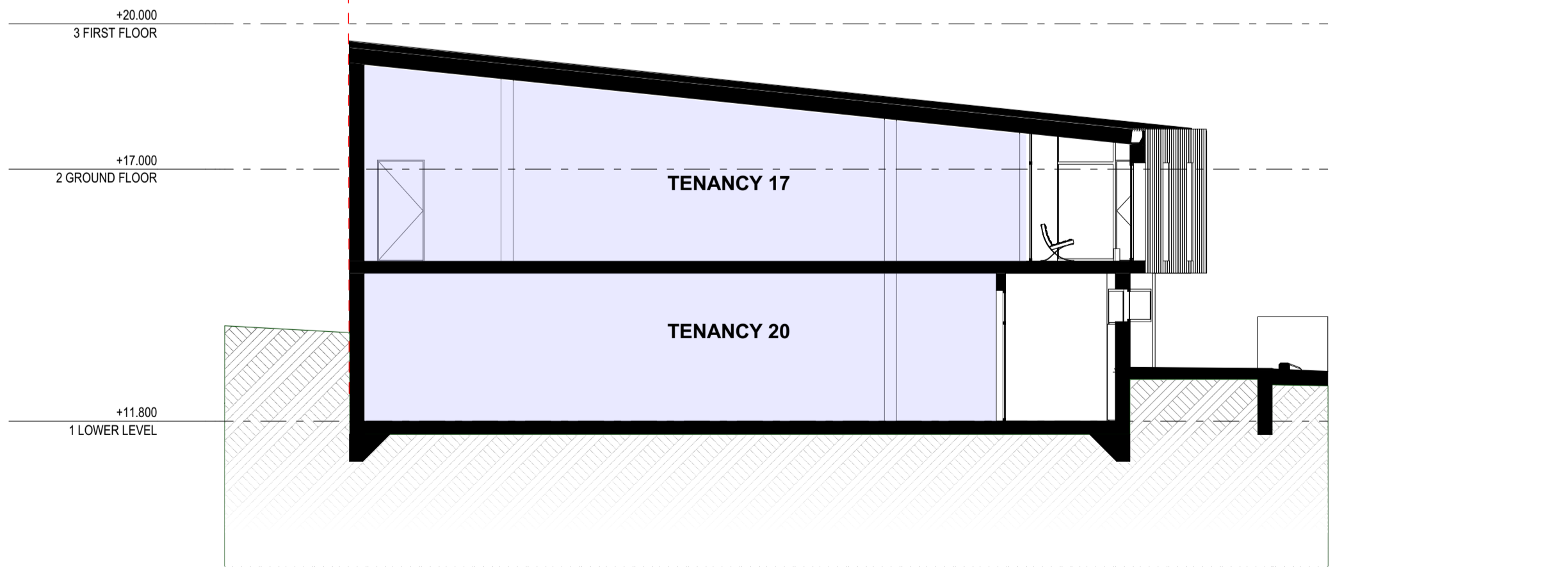
BUILDING B - SECTION A-A



BUILDING B - SECTION B-B



BUILDING B - SECTION C-C



BUILDING B - SECTION D-D

EJE ARCHITECTURE
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LJJ	BJC	BJC
LJJ	BJC	BJC

PROJECT: METFORD MEDICAL
 CLIENT: Metford Medical
 395 Metford Road, METFORD
 NSW, 2323

SITE: 412 KING STREET, NEWCASTLE,
 NSW 2300
 DRAWING: BUILDING B - SECTION A-A, B-B, C-C, D-D

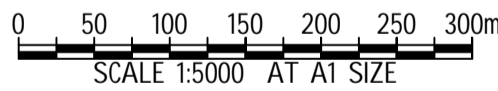
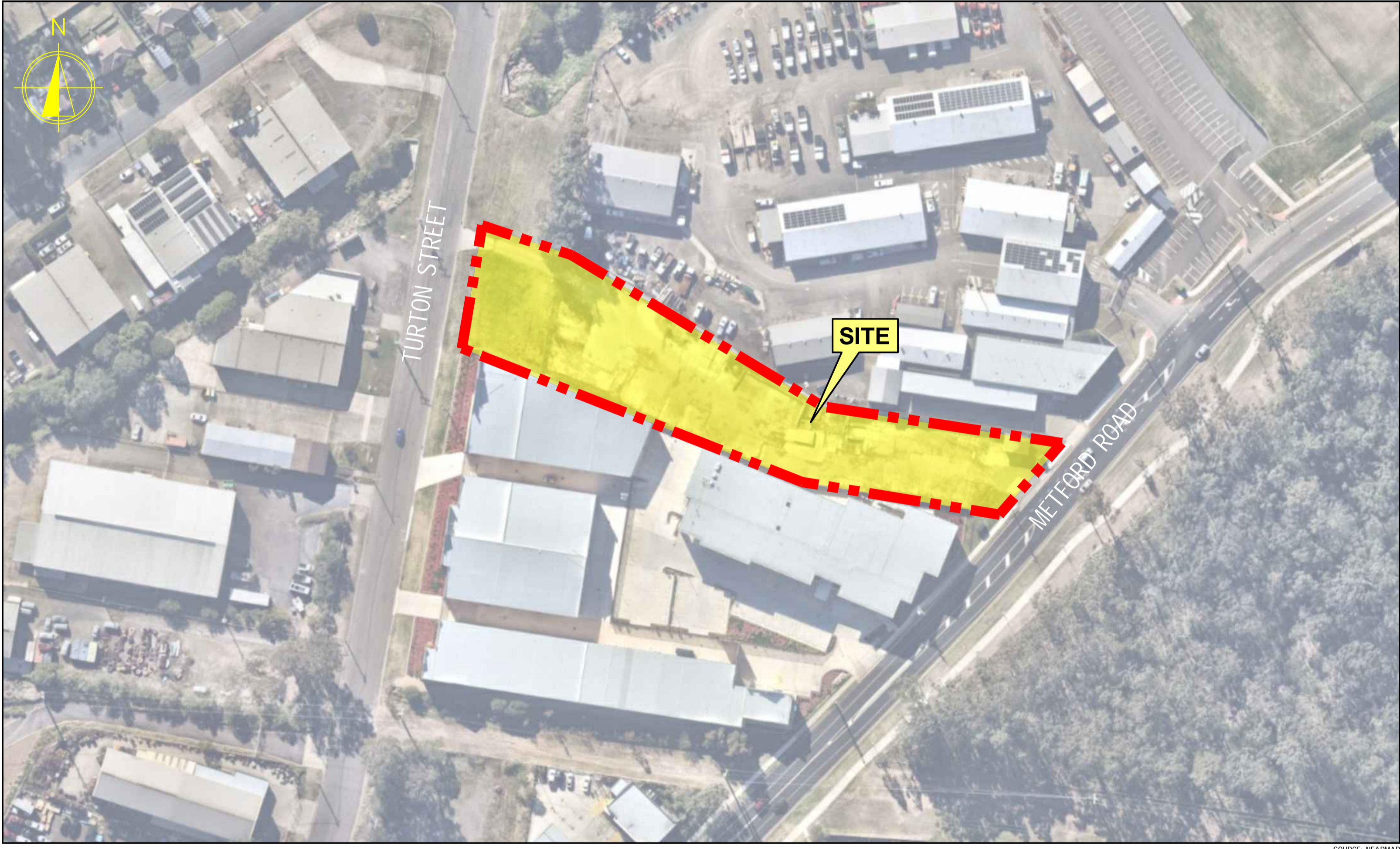
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 FILENAME: 14541-DA-MetfordMedical-220719.rvt
 DRAWN: LJJ DATE: 19/07/2023 SCALES @A1: 1:100
 PROJECT No: 14541 DA PHASE: A14 DRAWING No: A14 REV: E



Appendix C - Stormwater Management Plans

METFORD MEDICAL, METFORD NSW, 2323

PROPOSED MEDICAL CENTRE
 LGA MAITLAND CITY COUNCIL
 LOT 392 DP 755237
 FOR DEVELOPMENT APPLICATION



LOCALITY PLAN
 SCALE 1:5000

DRAWING INDEX

DRAWING No	DRAWING TITLE
CI-0000	LOCALITY PLAN AND DRAWING INDEX
CI-0120	BULK EARTHWORKS DEPTH RANGE PLAN
CI-0200	STORMWATER MANAGEMENT PLAN
CI-0300	STORMWATER CATCHMENT PLAN
CI-0355	OSD TANK SECTIONS AND DETAILS
CI-0700	EROSION AND SEDIMENT CONTROL PLAN
CI-0710	EROSION AND SEDIMENT CONTROL DETAILS

REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
A	14.07.23	ISSUED FOR APPROVAL	BC				
REVISIONS				REVISIONS			



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 Newcastle NSW 2300
 P / +61 2 4902 3000 E / info@bgeeng.com
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PROJECT
METFORD MEDICAL CENTRE
 395 Metford Road, METFORD NSW, 2323

STATUS			
PRELIMINARY SUBMISSION			
NOT TO BE USED FOR CONSTRUCTION			
DRAWN	DESIGNED	CHECKED	APPROVED
JL	AM	BC	
DATUM	GRID	SCALE	
AHD	MGA	AS SHOWN	

TITLE		PROJECT No.	DRAWING No.	REV.
LOCALITY PLAN AND DRAWING INDEX		N23056	CI-0000	A

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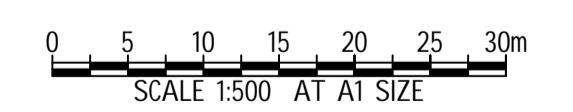
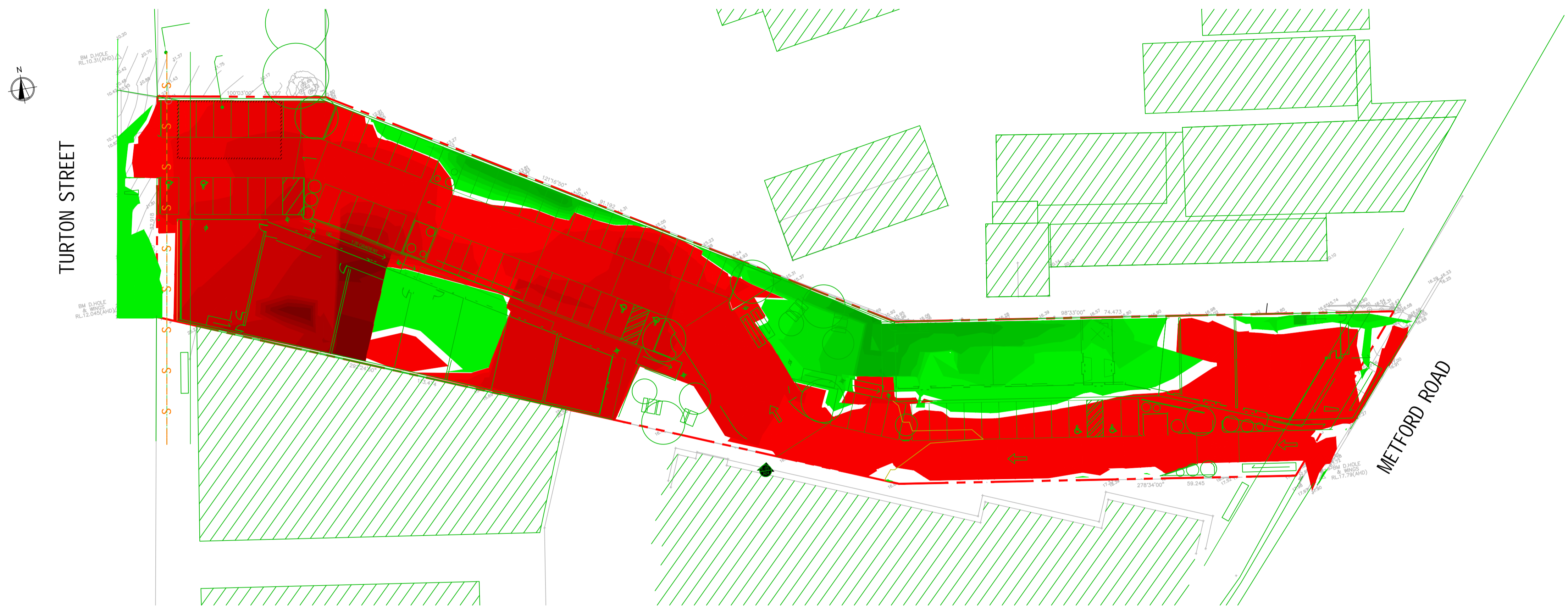
EARTHWORKS DEPTH RANGE			Colour
Lower value	Upper value		
10	to	2 m	
2.0	to	1.8 m	
1.8	to	1.6 m	
1.6	to	1.4 m	
1.4	to	1.2 m	
1.2	to	1 m	
1	to	.8 m	
0.8	to	.6 m	
0.6	to	.4 m	
0.4	to	0.2 m	
0.2	to	0.03 m	
-0.03	to	-0.4 m	
-0.4	to	-0.8 m	
-0.8	to	-1.2 m	
-1.2	to	-1.6 m	
-1.6	to	-2 m	
-2	to	-2.4 m	
-2.4	to	-2.8 m	
-2.8	to	-3.2 m	
-3.2	to	-3.6 m	
-3.6	to	-4.0 m	
-4	to	-10 m	

CUT	2414.2m³
FILL	318.0m³
BALANCE	-2096.2m³ (I.E. EXCESS CUT OVER FILL)

NOTES

VOLUMES ABOVE ARE BASED ON A COMPARISON BETWEEN SURVEY SURFACE AND DESIGN SURFACE. NO ALLOWANCE HAS BEEN MADE FOR THE FOLLOWING:

- INITIAL SITE STRIPPING
- BULKING FACTOR
- SERVICE TRENCHING
- RETAINING WALLS
- STRUCTURE AND PAVEMENT THICKNESS
- SPOIL
- DEMOLITION OR UNSUITABLE MATERIAL



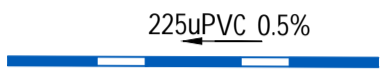


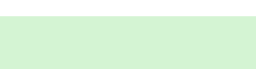


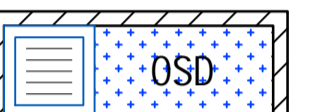


				<p>PROJECT</p> <p>METFORD MEDICAL CENTRE 395 Metford Road, METFORD NSW, 2323</p>	<p>STATUS</p> <p>PRELIMINARY SUBMISSION NOT TO BE USED FOR CONSTRUCTION</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DRAWN</td> <td>DESIGNED</td> <td>CHECKED</td> <td>APPROVED</td> </tr> <tr> <td>JL</td> <td>AM</td> <td>BC</td> <td></td> </tr> </table> <p>DATUM AHD GRID MGA SCALE AS SHOWN AT A1 SIZE</p>	DRAWN	DESIGNED	CHECKED	APPROVED	JL	AM	BC		<p>TITLE</p> <p>BULK EARTHWORKS PLAN</p> <p>PROJECT No. N23056 DRAWING No. CI-0120 REV A</p>								
DRAWN	DESIGNED	CHECKED	APPROVED																			
JL	AM	BC																				
<p>CLIENT</p> <p></p>		<p>Newcastle Office L1, 163 King St Newcastle NSW 2300 P / +61 2 4902 3000 E / info@bgeeng.com bgeeng.com</p>		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>RVD</th> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>RVD</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>14.07.23</td> <td>ISSUED FOR INFORMATION</td> <td>BC</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD	A	14.07.23	ISSUED FOR INFORMATION	BC				
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD															
A	14.07.23	ISSUED FOR INFORMATION	BC																			

14/07/2023 3:26:07 PM

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LEGEND

- SITE BOUNDARY
-  PROPOSED GRATED INLET PIT WITH SURFACE LEVEL AND INVERT LEVEL.
-  GTD PROPOSED GRATED TRENCH DRAIN.
- DINV: DOWNSTREAM INVERT
- UINV: UPSTREAM INVERT
-  225uPVC 0.5% PROPOSED STORMWATER PIPE WITH SIZE AND FALL TAG
-  ARCHITECTURAL LINE WORK
-  PROPOSED VEHICULAR PAVEMENT
-  PROPOSED LANDSCAPED AREA
-  PROPOSED BUILDING FOOTPRINT
-  PROPOSED SURFACE RL
-  PROPOSED OSD TANK

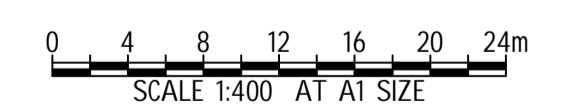
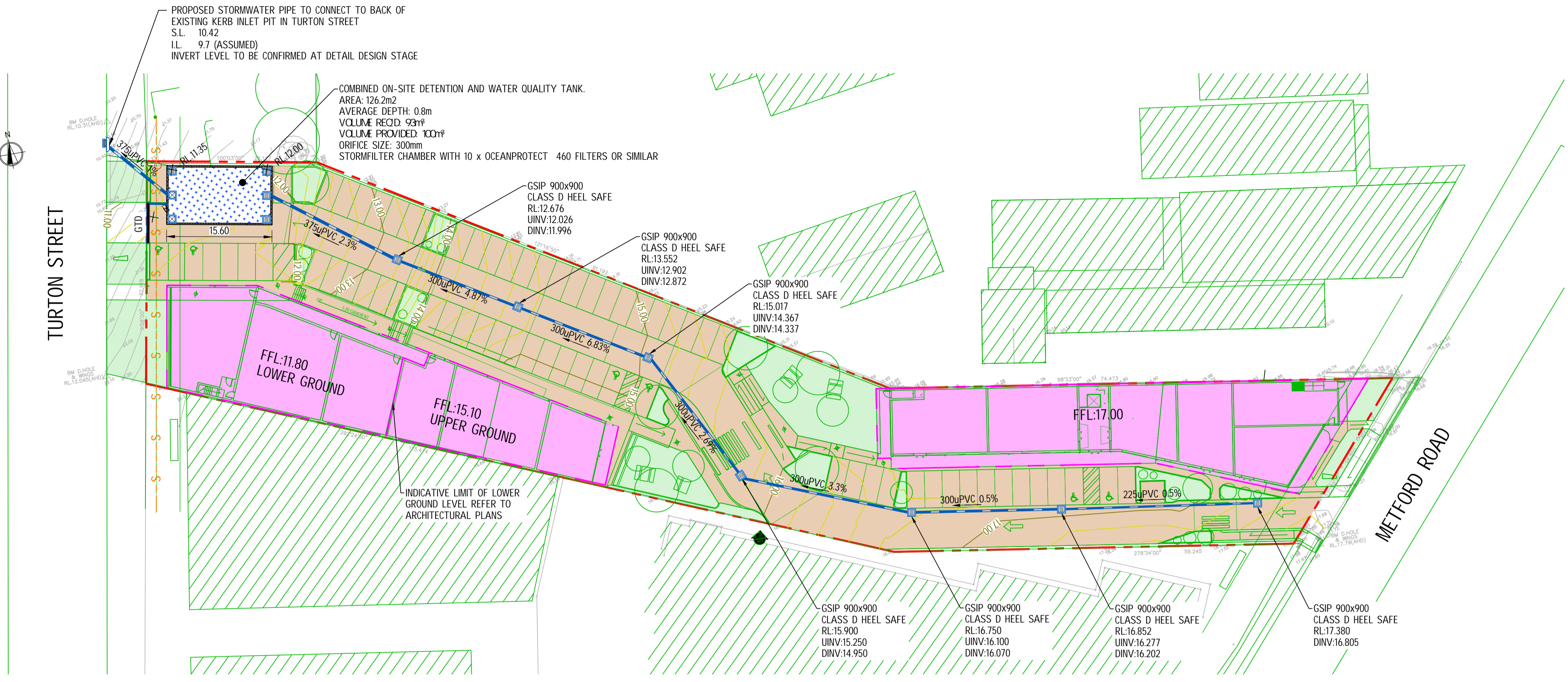
EXISTING SERVICES

THE FOLLOWING SERVICE LOCATIONS HAVE BEEN SUPPLIED BY THE EJE ARCHITECTS AND SHOULD BE USED AS INDICATIVE ONLY - ALL SERVICES SHOULD BE PROFESSIONALLY LOCATED BEFORE UNDERTAKING ANY WORKS IN THE AREA.

EXISTING SERVICES

-  -S-S- EXISTING SEWER

- ### NOTES
1. DESIGN CARPARK GRADING IS REPLICATED ON THESE DRAWINGS FOR CONTOURS ONLY. REFER TO ARCHITECTURAL PLANS FOR SPOT-LEVELS GENERALLY
 2. DOWNPIPE CONNECTIONS TO BE LAID BELOW GROUND WITH MINIMUM 250mm COVER TO AS3500.3 AND MINIMUM 1% SLOPE
 3. FINAL DOWNPIPE POSITIONS TO BE COORDINATED WITH ARCHITECT AND HYDRAULIC CONSULTANT THROUGH DETAIL DESIGN DEVELOPMENT



REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
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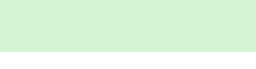



PROJECT
METFORD MEDICAL CENTRE
 395 Metford Road, METFORD NSW, 2323

STATUS PRELIMINARY SUBMISSION NOT TO BE USED FOR CONSTRUCTION			
DRAWN JL	DESIGNED AM	CHECKED BC	APPROVED
DATUM AHD	GRID MGA	SCALE AS SHOWN	AT A1 SIZE

TITLE STORMWATER MANAGEMENT PLAN	
PROJECT No. N23056	DRAWING No. CI-0200
REV A	

LEGEND

-  SITE BOUNDARY
-  ARCHITECTURAL LINE WORK
-  PROPOSED HARDSTAND
PAVEMENT AREA = 2822 m²
-  PROPOSED LANDSCAPED
AREA = 5321 m²
-  PROPOSED BUILDING
FOOTPRINT AREA = 18281 m²

EXISTING SERVICES

THE FOLLOWING SERVICE LOCATIONS HAVE BEEN SUPPLIED BY THE EJE ARCHITECTS AND SHOULD BE USED AS INDICATIVE ONLY - ALL SERVICES SHOULD BE PROFESSIONALLY LOCATED BEFORE UNDERTAKING ANY WORKS IN THE AREA.

EXISTING SERVICES

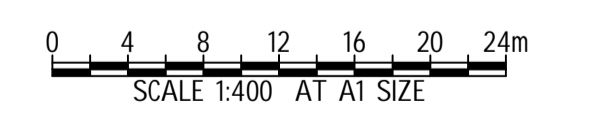
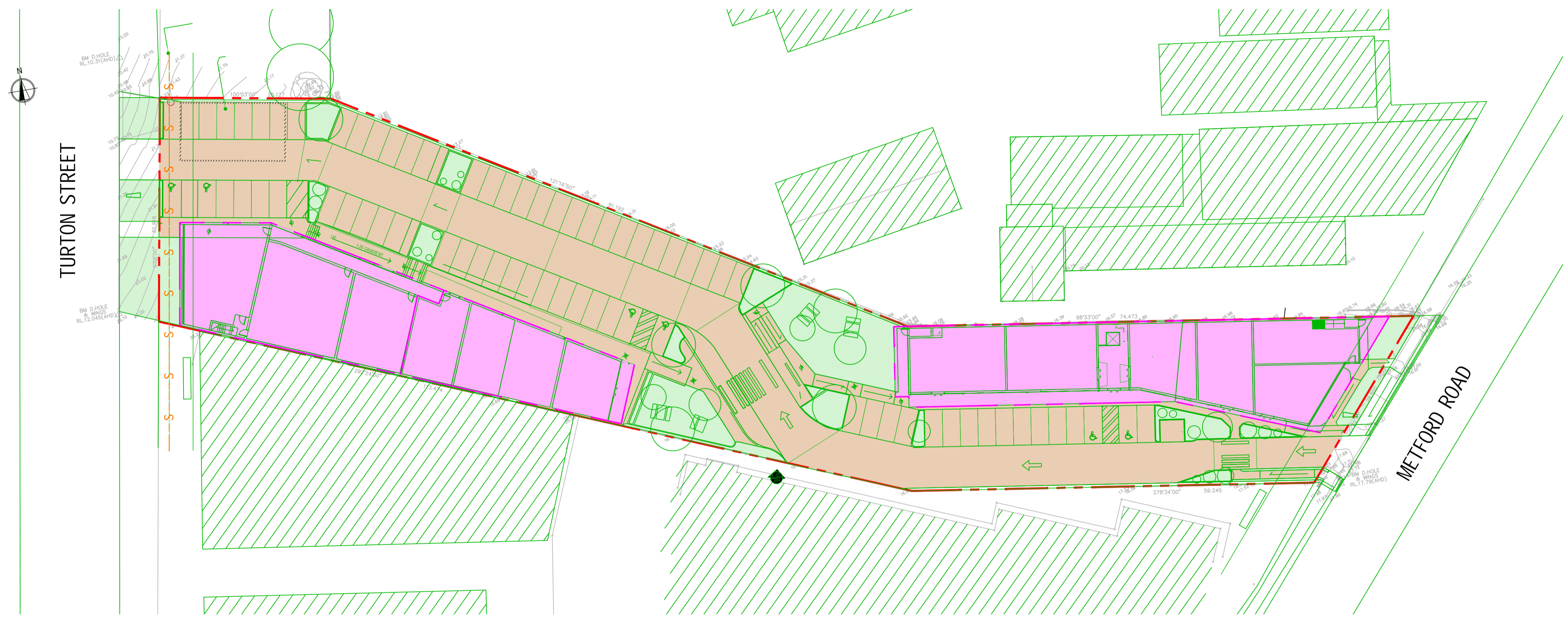
-  EXISTING SEWER

WATER QUALITY

TREATMENT NODES:
 - WATER QUALITY CHAMBER WITH 10 OCEAN PROTECT 460mm PSORB (MCC) STORMFILTER CARTRIDGES

TREATMENT STANDARDS			
POLLUTANT	POST(kg/yr)	REDUCTION (%)	COUNCIL REQUIREMENTS (%)
GROSS POLLUTANTS	0	100	70
TOTAL SUSPENDED SOLIDS	72.9	88.8	80
TOTAL PHOSPHORUS	0.502	67	45
TOTAL NITROGEN	6.61	48.3	45

STORMWATER DRAINAGE REQUIREMENTS HAVE BEEN CALCULATED IN ACCORDANCE WITH MAITLAND CITY COUNCIL MANUAL OF ENGINEERING STANDARDS - 6. STORMWATER DRAINAGE



REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
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CLIENT



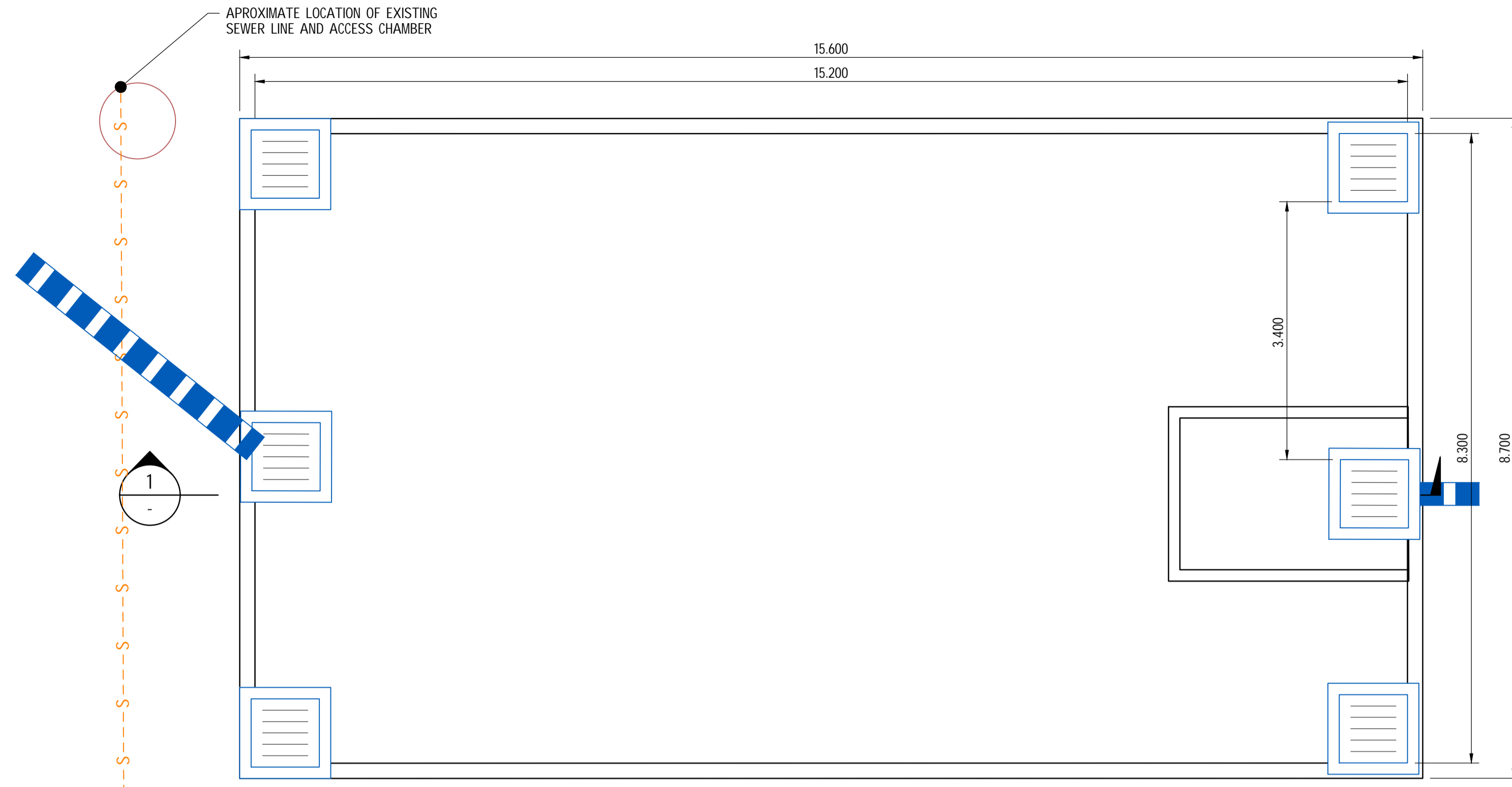
PROJECT

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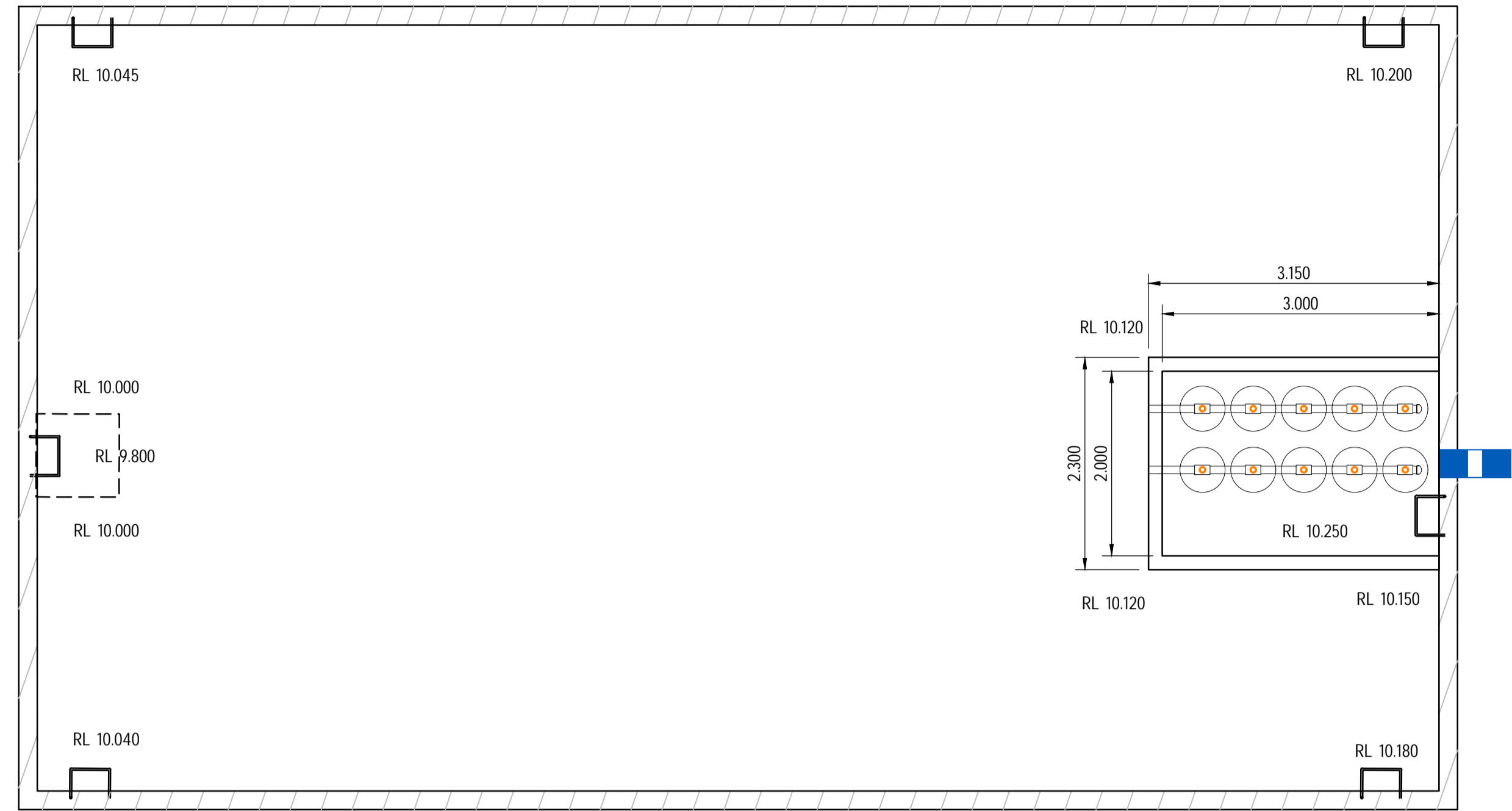
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NOT TO BE USED FOR CONSTRUCTION			
DRAWN	DESIGNED	CHECKED	APPROVED
JL	AM	BC	
DATUM	GRID	SCALE	
AHD	MGA	AS SHOWN	

TITLE		
STORMWATER CATCHMENT PLAN		
PROJECT No.	DRAWING No.	REV
N23056	CI-0200	A



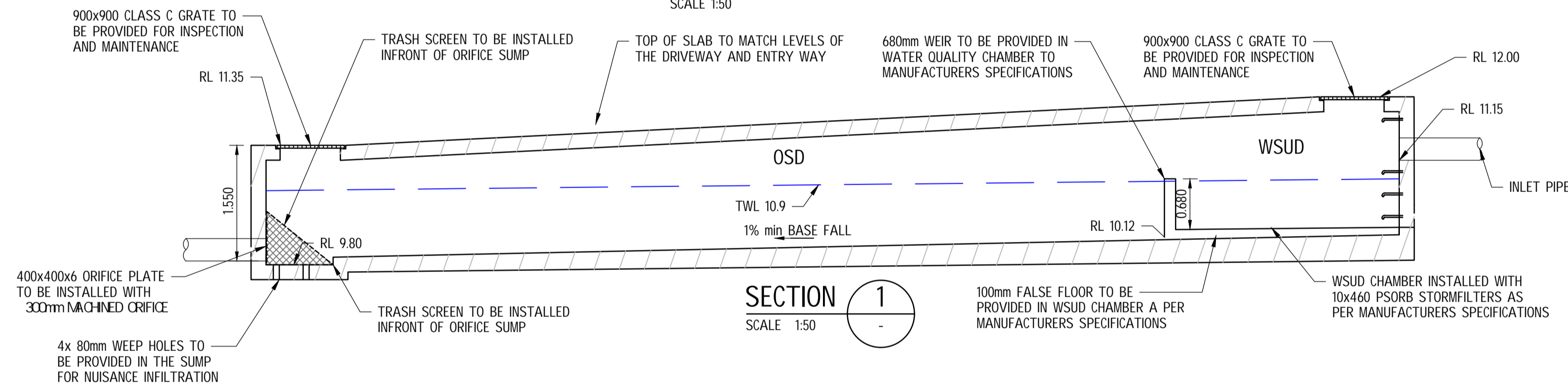
OSD LID PLAN

SCALE 1:50



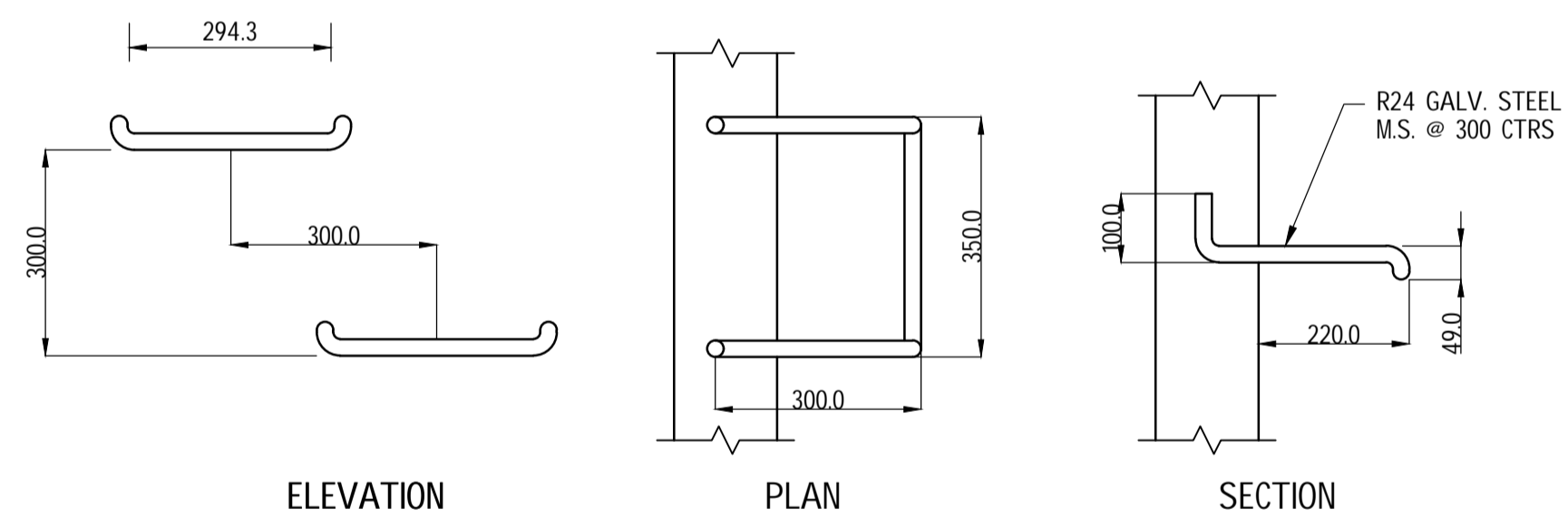
OSD BASE PLAN

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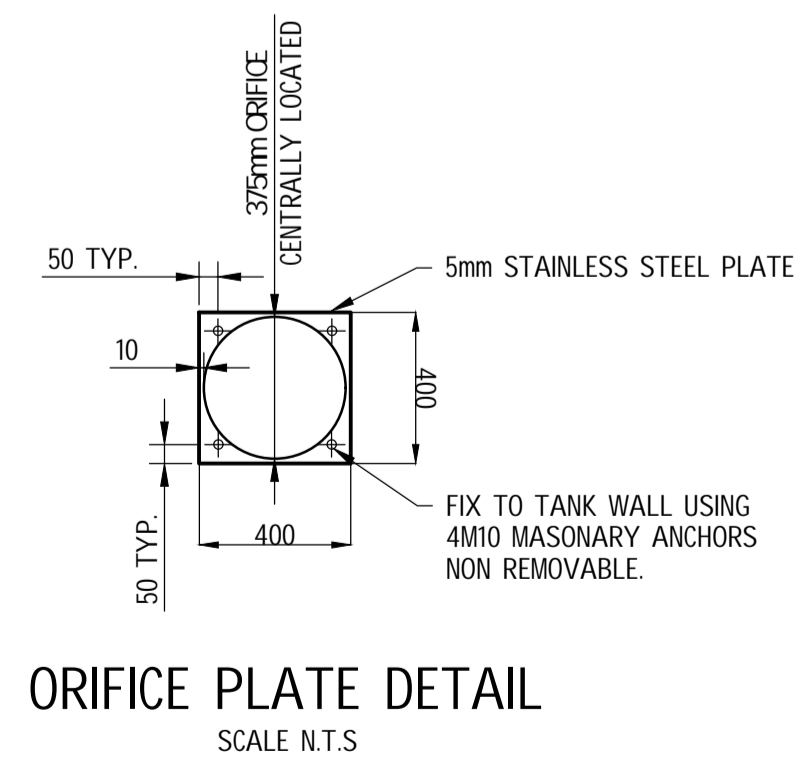
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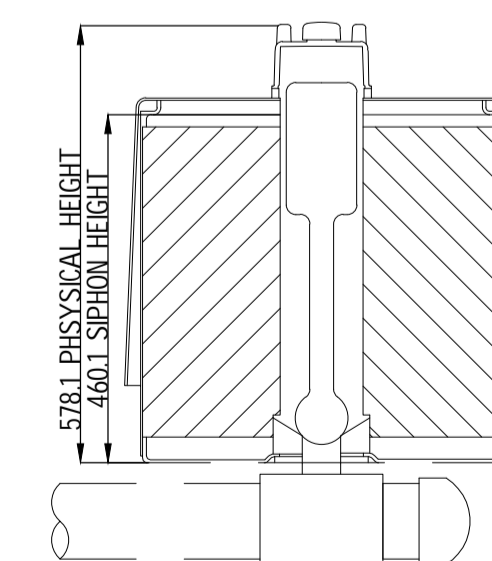
TYPICAL STEP IRON DETAILS

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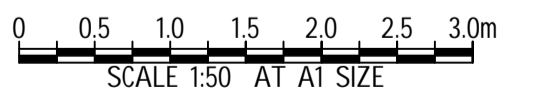
ORIFICE PLATE DETAIL

SCALE N.T.S



OCEAN PROTECT STORMFILTER DETAIL

SCALE 1:10



SCALE 1:50 AT A1 SIZE

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REVISIONS			REVISIONS		




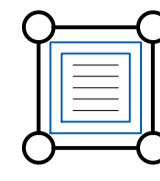
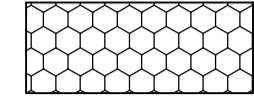
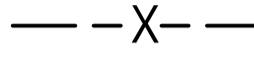
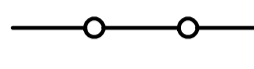



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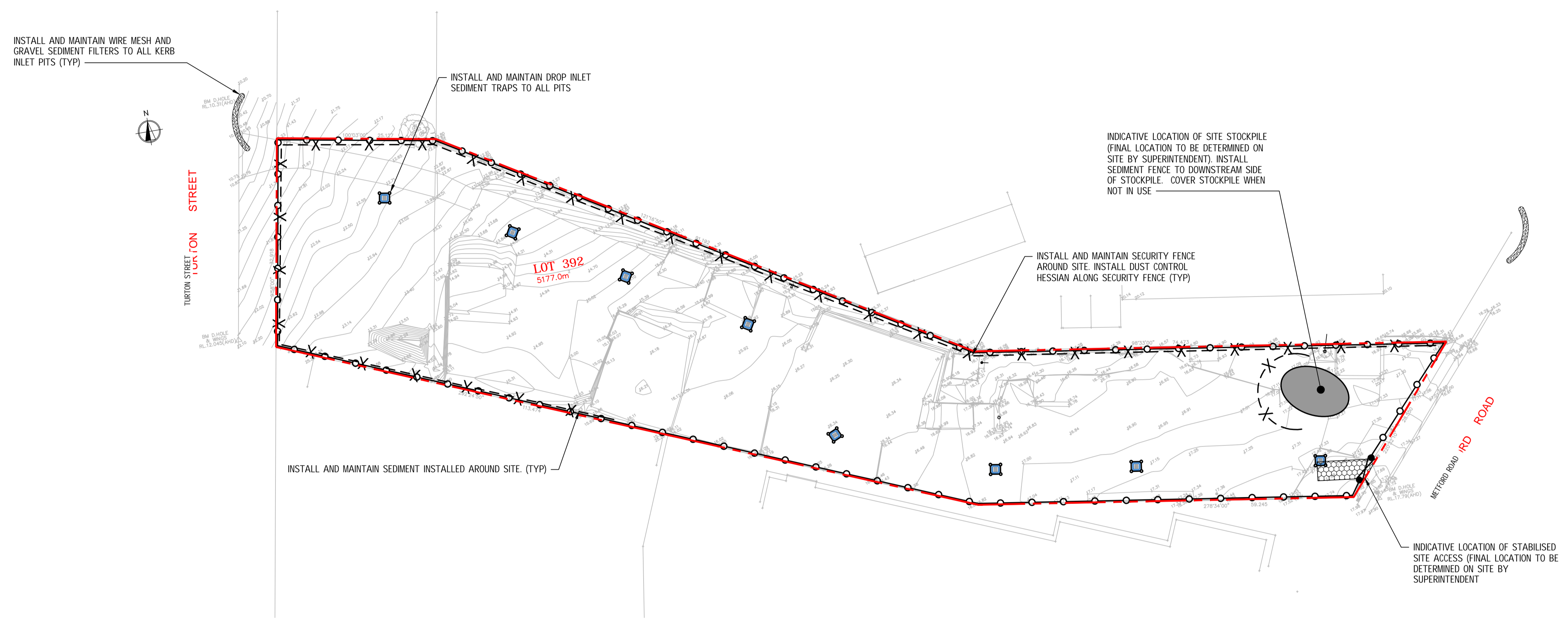
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NOT TO BE USED FOR CONSTRUCTION			
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JL	AM	BC	
DATUM	GRID	SCALE	
AHD	MGA	AS SHOWN	

TITLE	
OSD TANK SECTIONS AND DETAILS	
PROJECT No.	DRAWING No.
N23056	CI-0355
REV	A

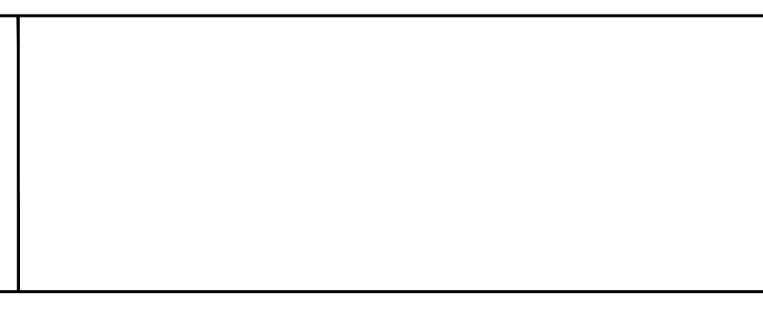
LEGEND

-  SITE BOUNDARY
-  PROPOSED GRATED INLET PIT COMPLETE WITH GEOTEXTILE INLET FILTER
-  STABILISED SITE ACCESS
-  SEDIMENT FENCE
-  SECURITY FENCE
-  4M WIDE SECURITY FENCE
-  SUGGESTED TEMPORARY STOCKPILE LOCATION
-  MESH & GRAVEL INLET FILTER

- ### NOTES
- CONTRACTOR TO PROVIDE 'SANDBAG SEDIMENT TRAP' TO ALL PAVED / ROAD AREAS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
 - CONTRACTOR TO PROVIDE 'GEOTEXTILE INLET FILTER TRAPS' TO ALL STORMWATER DRAINAGE INLETS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
 - INSTALL AND MAINTAIN SANDBAG FILTERS ACROSS ALL PAVEMENT INTERFACES.



REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
A	14.07.23	ISSUED FOR INFORMATION	BC				
REVISIONS							
REVISIONS							



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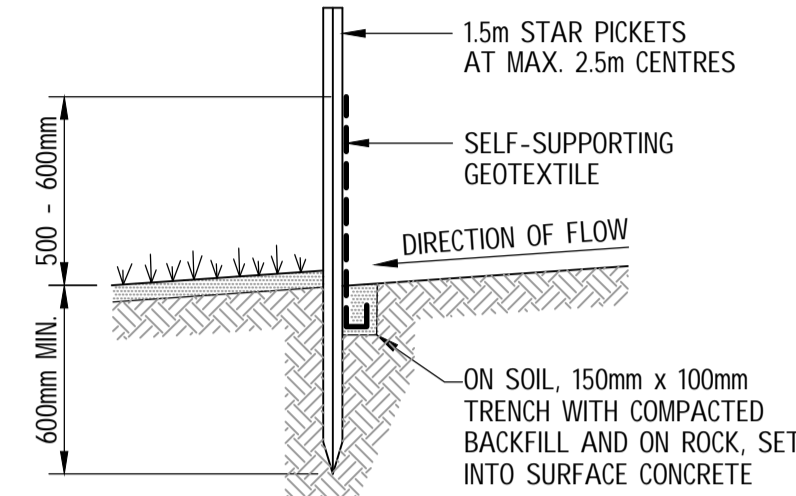
PROJECT
METFORD MEDICAL CENTRE
 395 Metford Road, METFORD NSW, 2323

STATUS			
PRELIMINARY SUBMISSION			
NOT TO BE USED FOR CONSTRUCTION			
DRAWN	DESIGNED	CHECKED	APPROVED
JL	AM	BC	
DATUM	GRID	SCALE	
AHD	MGA	AS SHOWN	AT A1 SIZE

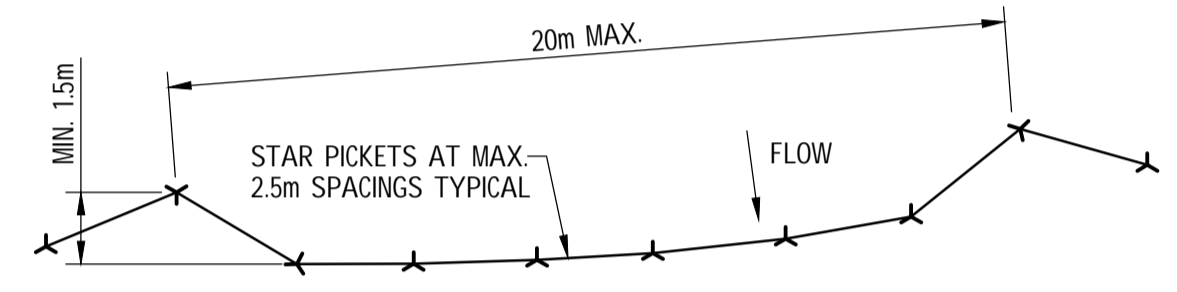
TITLE	
EROSION AND SEDIMENT CONTROL PLAN	
PROJECT No.	DRAWING No.
N23056	CI-0200
REV	A

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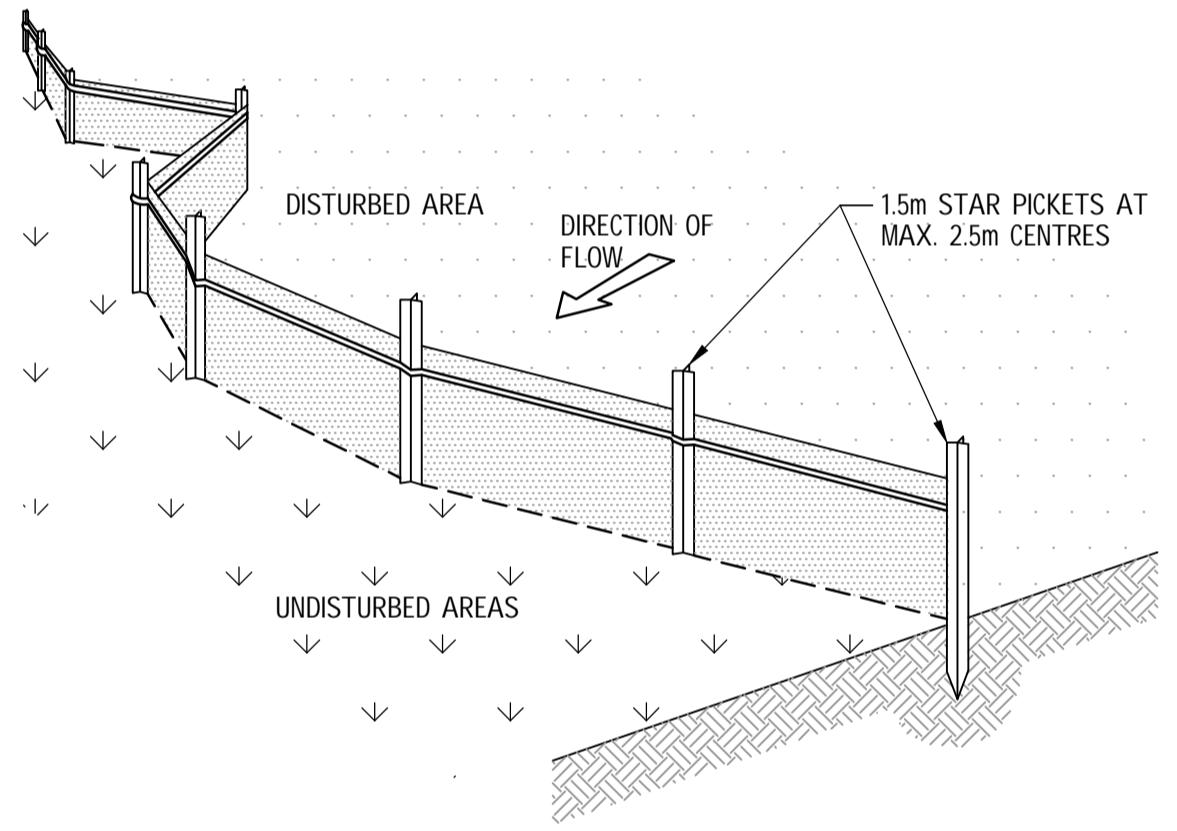
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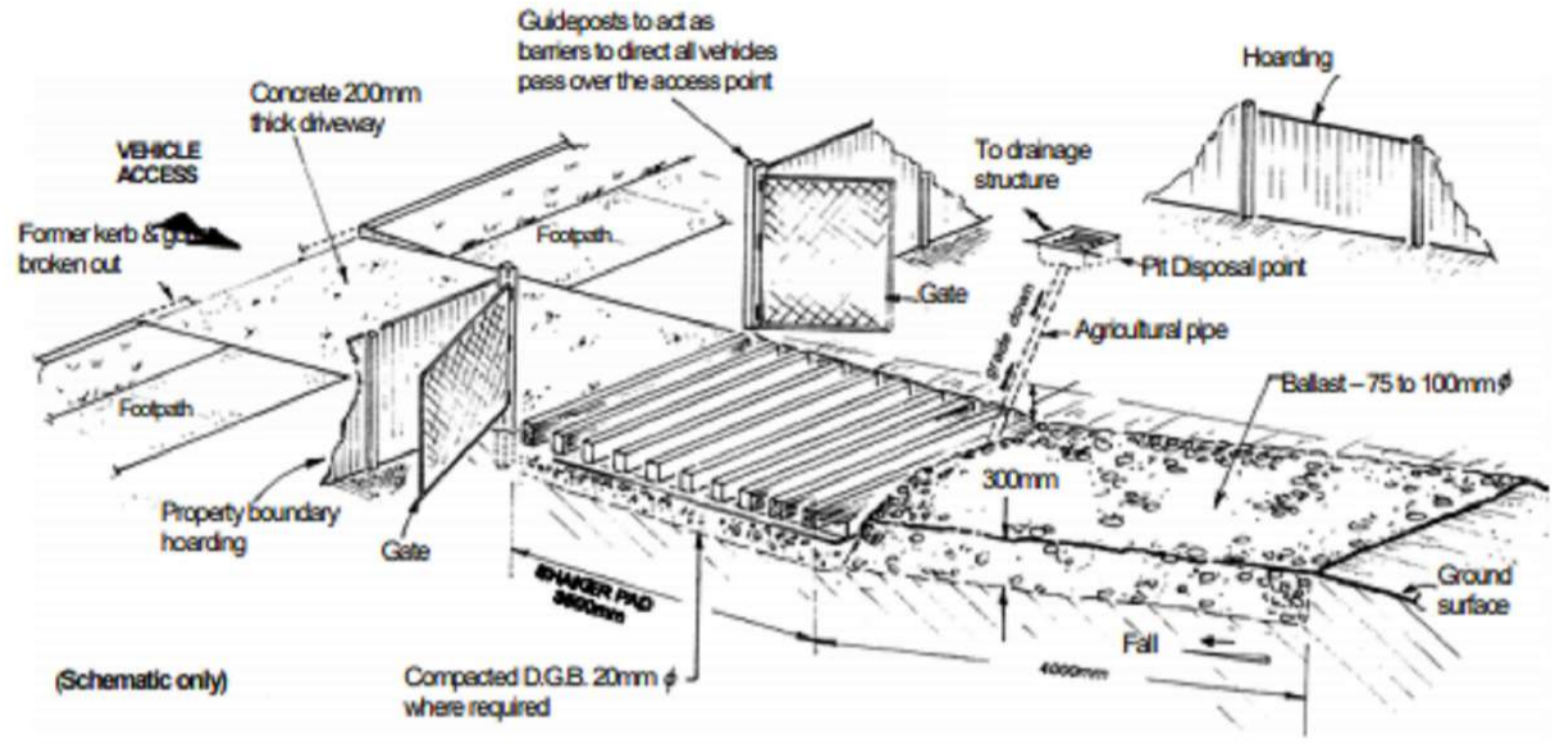


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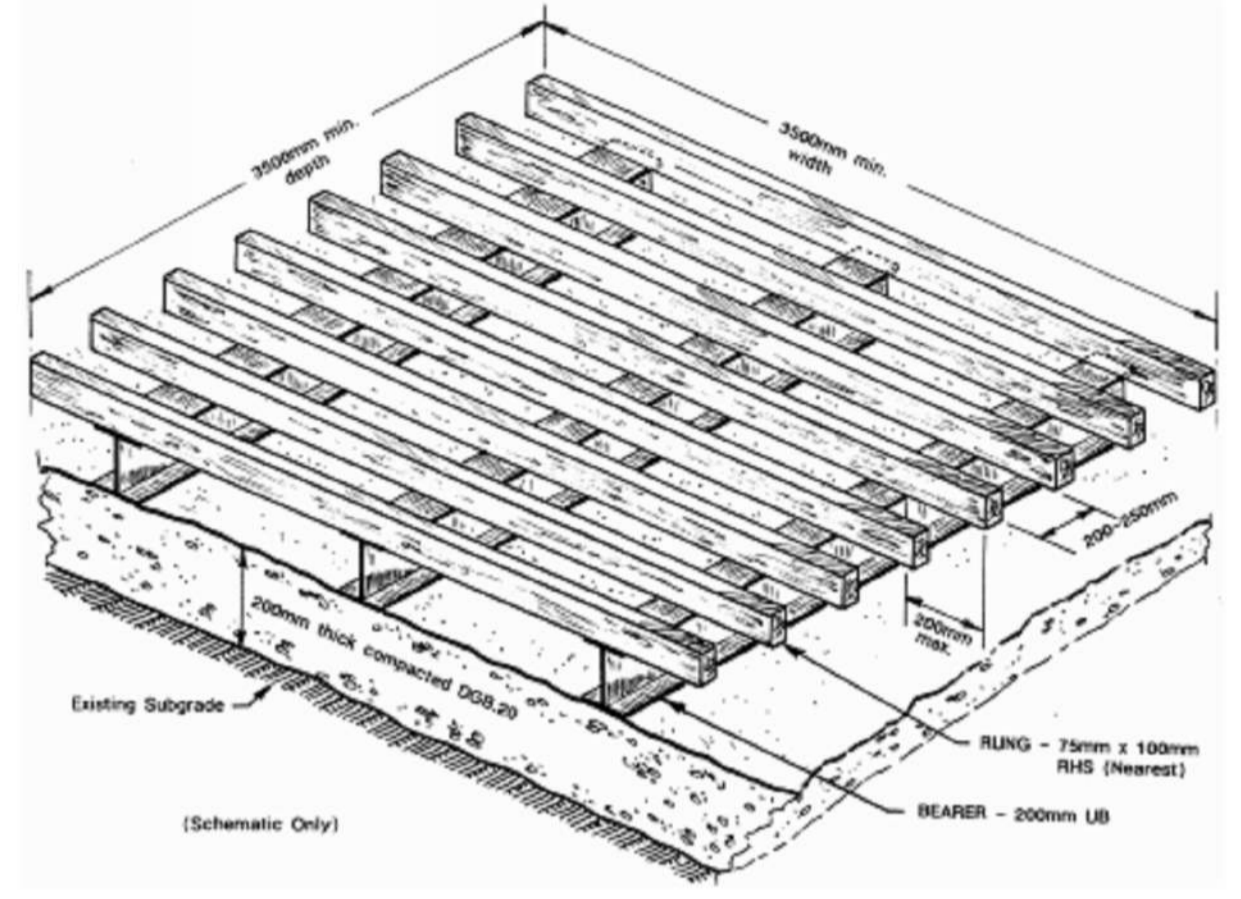


- SEDIMENT FENCE CONSTRUCTION NOTES:**
- CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
 - CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
 - DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
 - FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
 - JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
 - BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

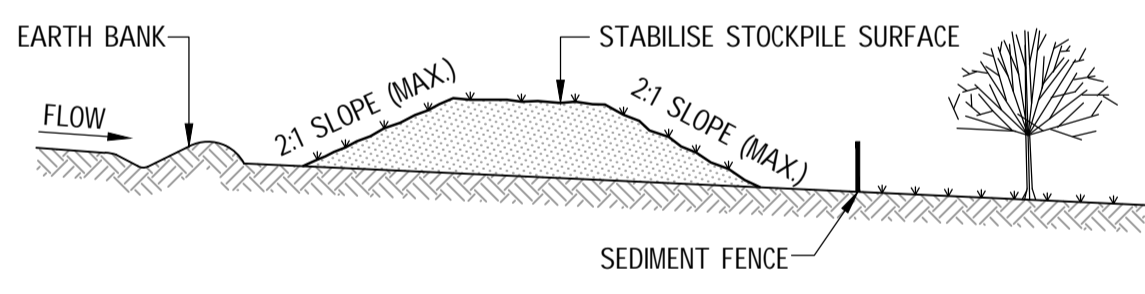
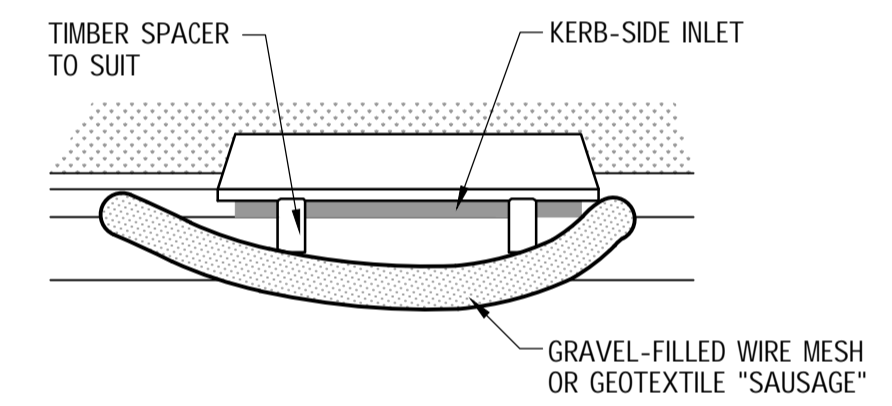
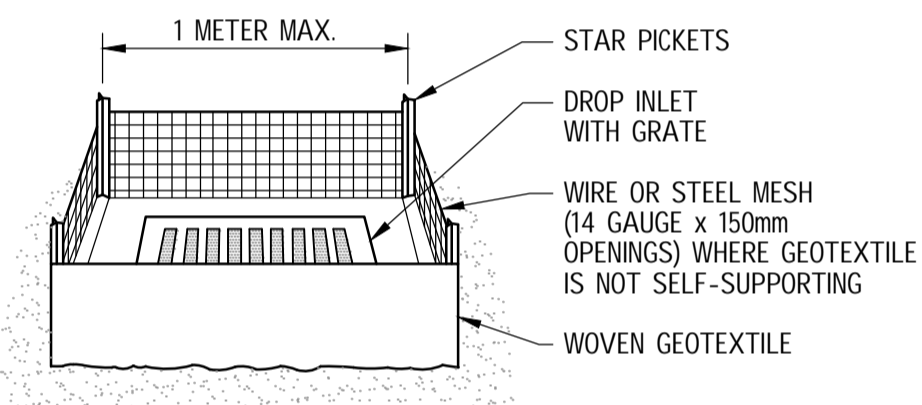
SEDIMENT FENCE
SCALE N.T.S



Shaker Pad Detail

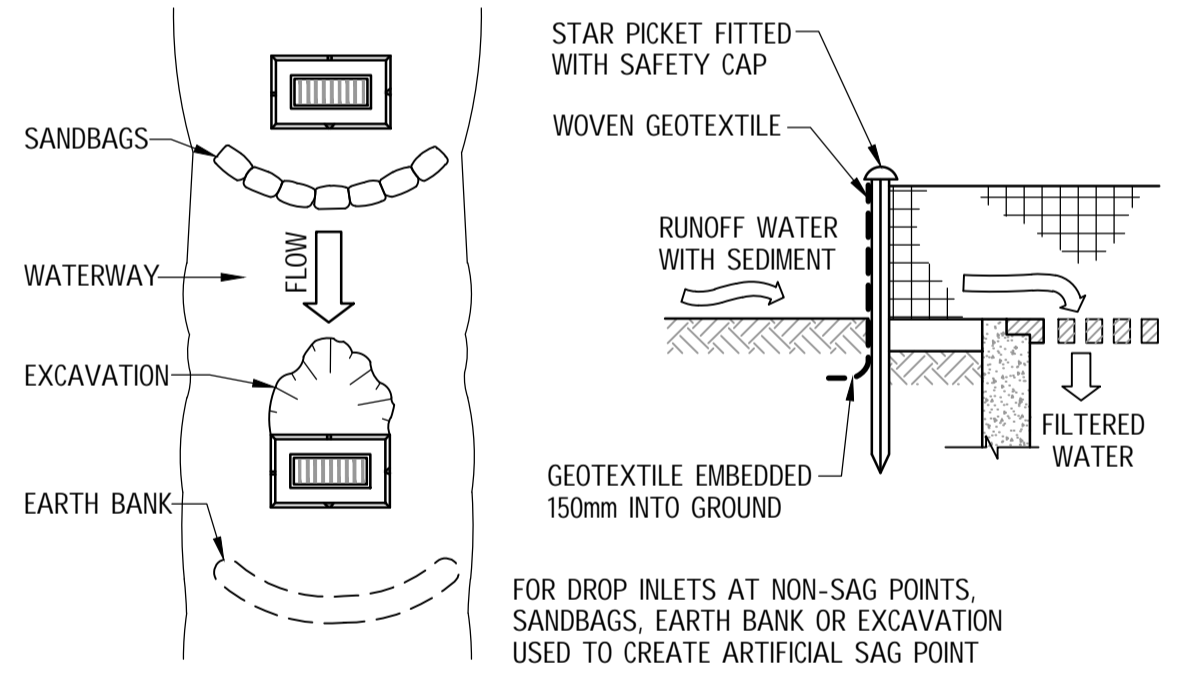


STABILISED SITE ACCESS - SHAKER GRID
SCALE N.T.S.



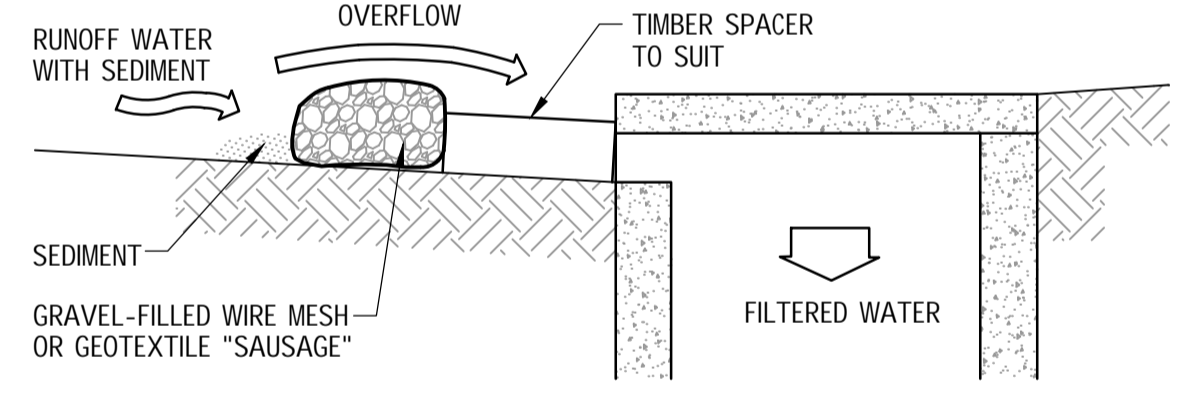
- STOCKPILE CONSTRUCTION NOTES:**
- PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
 - CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
 - WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
 - WHERE THEY ARE TO BE PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
 - CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STOCKPILES
SCALE N.T.S



- GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:**
- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
 - PICKET SPACING TO BE A MAXIMUM 1.0m CENTRES.
 - IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
 - DO NOT COVER THE INLET WITH GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER
SCALE N.T.S



- MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:**
- INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
 - FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
 - FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
 - PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
 - FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
 - SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL INLET FILTER
SCALE N.T.S

				CLIENT			PROJECT METFORD MEDICAL CENTRE 395 Metford Road, METFORD NSW, 2323		STATUS PRELIMINARY SUBMISSION NOT TO BE USED FOR CONSTRUCTION				TITLE EROSION AND SEDIMENT CONTROL DETAILS			
				Newcastle Office L1, 163 King St Newcastle NSW 2300 P / +61 2 4902 3000 E / info@bgeeng.com bgeeng.com				DRAWN: JL DESIGNED: AM CHECKED: BC APPROVED:				PROJECT No: N23056 DRAWING No: CI-0200 REV: A				
REVISIONS A 14.07.23 ISSUED FOR INFORMATION BC REV DATE DESCRIPTION RVD REV DATE DESCRIPTION RVD								DATUM: AHD GRID: MGA SCALE: AS SHOWN AT: A1 SIZE								

At BG&E, we are united by a common purpose – we believe that truly great engineering takes curiosity, bravery and trust, and is the key to creating extraordinary built environments.

Our teams in Australia, New Zealand, South East Asia, the United Kingdom and the Middle East, design and deliver engineering solutions for clients in the Property, Transport, Ports and Marine, Water, Defence, Renewables and Resources sectors.

We collaborate with leading contractors, developers, architects, planners, financiers and government agencies, to create projects for today and future generations.

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