Minarah College

Preliminary Overland Flow Assessment: Minarah College, 268 & 278 Catherine Fields Road, Catherine Fields, NSW

P2108320JR06V01
April 2022

Limitations Statement

The sole purpose of this report and the associated services performed by Martens & Associates Pty Ltd is to provide a preliminary overland flow assessment at the subject site in accordance with the scope of services set out in the contract / quotation between Martens & Associates Pty Ltd and Minarah College (hereafter known as the Client). That scope of works and services were defined by the requests of the Client, by the time and budgetary constraints imposed by the Client, and by the availability of access to the site.

Martens & Associates Pty Ltd derived the data in this report primarily from a number of sources which included site inspections, correspondence regarding the proposal, examination of records in the public domain, interviews with individuals with information about the site or the project, and field explorations conducted on the dates indicated. The passage of time, manifestation of latent conditions or impacts of future events may require further examination / exploration of the site and subsequent data analyses, together with a re-evaluation of the findings, observations and conclusions expressed in this report.

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All enquiries regarding this project are to be directed to the Project Manager.

Contents

1 Introduction

1.1 Overview

Martens & Associates Pty Ltd (MA) have prepared this preliminary overland flow assessment to support a State Significate Development Application (SSD-30759158) for the proposed Minarah College at 268 and 278 Catherine Fields Road, Catherine Field (the site).

1.2 Project Scope and Objectives

Project scope and objectives are:

1. Prepare a TUFLOW hydraulic model for the site under existing and proposed conditions.
2. Prepare relevant overland flow maps including 1% AEP water extents, depths, levels, velocities, hazards and impacts.
3. Comment on overland flow characteristics and model outcomes in existing and proposed conditions.

1.3 Relevant Guidelines

This report has been prepared in accordance with the following guidelines and policies:

1. Commonwealth of Australia (2019), *Australian Rainfall and Runoff – A Guide to Flood Estimation*.
2. NSW Department of Infrastructure, Planning and Natural Resources (2005), *Floodplain Development Manual*.
3. Camden Council (2012), *Upper South Creek Flood Study*.
4. Camden Council (2006), *Flood Risk Management*.

1.4 Definitions

AEP	Annual exceedance probability: the probability of a flood event occurring within a year. A 1% AEP flood has a 1% chance of occurring in any given year.
ARI	Average recurrence interval: the average time between flood events occurring. A 1 in 100 year ARI flood occurs on average once every 100 years.
ARR	Australian Rainfall & Runoff

BOM	Bureau of Meteorology
CC	Camden Council
SSDA	State Significant Development Application
FFL	Finished floor level
FPL	Flood planning level
IFD	Intensity frequency duration: design rainfall data for frequent and infrequent storm events.
MA	Martens & Associates Pty Ltd

2 Site Description and Background Data

2.1 Location and Site Description

Existing site description summary is provided in Table 1.

Table 1: Existing site description summary.

Address	268-278 Catherine Fields Rd, Catherine Field NSW
Lot / DP	Lot 11 DP833983 and Lot 12 DP DP833984
Site Area	4.5 ha
Local Government Area (LGA)	Camden Council
Current Land Use	Rural residential
Current Zoning	RU4 – Primary Production Small Lots & R5 – Large Lot Residential
Site Description	The site is primarily grassed at lower elevations and bushland at higher elevations. There are several structures on the site including three buildings four sheds and two driveways.
Surrounding Land Uses	The site is surrounded by bushland at north and east, rural residential lots at the south and Catherine Fields Road at west.
Site Elevation	Approximately 84 mAHD at eastern site boundary rising to 74 mAHD at western site boundary.
Site Grading & Aspect	Approximately 3 – 10%,
Site Drainage	A shallow drainage depression runs from south-east to soth-west along the site boundary and discharges to the Catherine Fields Road.

2.2 Site Inspection

Site inspections was conducted on 22 September, 22 and 30 November 2021 and included:

- General walkover to identify local land forms and site characteristics to understand local drainage behaviour.
- Identification and observation of existing site stormwater infrastructure and natural drainage lines.

2.3 Local Upstream Catchment

The site is affected by overland flows generated from a local upstream catchment south east of the site of approximately 5.5 ha. This catchment is primarily rural residential area with a small portion of bushland to the east. Refer to Map 01 in Attachment C for the catchment extent.

2.4 Council Flood Information

The site is located within the Upper South Creek catchment. WMA Water conducted a flood assessment for this catchment on behalf of Camden Council and summarised the assessment and modelling details in the Upper South Creek Flood Study (2013), hereafter referred to as the WMA Water flood study.

Further to the above, Camden Council provides flood extent maps and flood risk precinct maps as a part of the Upper South Creek Floodplain Risk Management Study and Plan (2019). In this study, land is categorised as high, medium, low or 1% AEP overland flow risk or nothing. The site is outside of any mainstream flood risk precinct. The south portion of Lot 11 is categorised as 1% AEP overland flow risk precinct, indicating that there is a risk of overland flow flooding occurring within the existing depression running along the southern boundary of the site.

2.5 Proposed Development

Architectural drawings prepared by Tonkin Zulaikha Greer Architects (Attachment B) indicate that the proposed development will include:

- Demolition of existing structures on site.
- Construction of eleven new buildings and facilities, including primary school and high school classes, school hall, library and canteen.
- Construction of a carpark and kiss and drop area as well as the sport outdoor area.

MA has iteratively designed the bus parking accessway, south western carpark, diversion pipes and swale along the southern boundary of the site to capture and redivert the upstream overland flows to Catherine Fields Road. Refer to MA plansets P2108321PS01 and P2108321PS02 (not attached to this report) for more details of the proposed site earthworks and pit and pipe network.

3 TUFLOW Modelling

3.1 Overview

The TUFLOW hydraulic model was used to determine flood characteristics including flood extents, levels, depths, velocities and hydraulic hazard for the critical 1% AEP flood for existing and proposed conditions.

The hydraulic model was used to assess the 1% AEP flooding for the critical storm duration of 25 minute determined by running a "one node" DRAINS model for the local upstream catchment area of 5.5 ha. We note that the critical storm duration adopted in the WMA Water flood study for the Upper South Creek is 9 hours which is different to the site as the entire catchment of the Upper South Creek is significantly larger than the local upstream catchment of the site.

3.2 Terrain Data

Catchment LIDAR data provided by LPI (2013) was merged with site survey data (Attachment A) provided by CMS (March 2021) to create a 3D surface for the existing conditions site and the local floodplain environment used in the TUFLOW model. Refer to Map 01 in Attachment C for existing condition's model surface.

The proposed conditions surface has included the site regrading design as shown in MA planset P2108320PS01 – C100 (not attached to this report).

3.3 Model Setup

3.3.1 Existing Conditions

TUFLOW model construction for existing conditions consisted of:

1. A 1.0 m topographic grid based on the available survey and LIDAR data.

2. The model domain was defined as the entire catchment area of the site to downstream of Catherine Fields Road approximately 50m from the site. Model boundary extents were generally placed along catchment ridgelines surrounding the study area, and are shown in Map 01 of Attachment C .

3. A direct rainfall boundary condition based on the critical duration 1% AEP hyetographs from DRAINS. The boundary condition comprised the entire model domain as shown in Map 01 of Attachment C and enabled automatic flood water routing.

4. Computed water slopes for downstream model extent boundary conditions based on the slopes from available LIDAR data.

5. Manning's zones based on Nearmaps (2022) aerial photography of the study area with roughness coefficients adopted as per Table 2.

6. Hydrologic loss coefficients for pervious and impervious catchment materials were adopted as per Table 2.

7. A 1D network to model the relevant culverts:

    a. The twin 450 mm diameter culvert crossing under Catherine Fields Road is modelled as 1D element in the existing condition.

    b. All other pits and pipes in the study area have conservatively been assumed to be 100% blocked.

    c. 1D network pipe sizes, invert levels and locations are based on CMS (2021) survey data Attachment A.

    d. Pipe roughness coefficient of 0.013 was adopted.

    e. Pipe blockages of 25% have been adopted based on the assessment procedure in Australian Rainfall and Runoff (Weeks & Rigby, 2016).

8. Existing dam upstream of the site is conservatively assumed to be full.

Table 2: Manning's roughness and hydrologic loss values for TUFLOW modelling.

Catchment Material Type	Manning's Roughness Coefficient [1]	Initial Loss (mm) [2]	Continuing Loss (mm/hr) [2]
Bushland	0.080	12.5	6.5
Grass	0.035	12.5	6.5
Roads / Concrete	0.015	1.5	0.0
Watercourse / Water Body	0.04 when depth ≤ 0.1 m 0.03 when depth > 0.1 m	0.0	0.0

Notes

1. Based on typical values from similar catchments.
2. Hydrologic losses were consistent with RAFTS modelling as detailed at Section 1.

3.3.2 Proposed Conditions

The existing conditions model was modified as follows to simulate proposed conditions:

1. The 1.0 m topographic grid was updated to reflect the proposed site grading as shown in MA planset P2108320PS01 – C100.

2. Site inflow boundary conditions were updated based on the critical duration 1% AEP hydrographs from DRAINS for the proposed site catchment.

3. Site manning's zones were updated to represent design surfaces.

4. The 1D network was updated to include proposed pit and pipe networks:

    a. Proposed 525mm diameter diversion pipes under the southern carpark.

    b. The proposed pit and pipe system on Catherine Fields Road, including the upsized culvert crossing under the road.

5. All other model construction elements remained consistent with the existing conditions model.

Refer to MA plansets P2108321PS01 and P2108321PS02 (not attached to this report) for more details of the proposed site earthworks and pit and pipe network.

3.4 Results

Flood mapping results (flood levels, depths, velocities, provisional hazard categories and water level afflux / impacts) for the critical duration 1% AEP flood event in existing and proposed conditions are provided in Attachment C, with map references summarised in Table 3

Table 3: Flood map drawing references in Attachment C (MA mapset P2108320MS05).

Flood Condition Scenario	Critical Duration Flood Event	Water Level & Depth	Water Velocity	Provisional ARR Flood Hazard Categories [2]	Water Level Impact / Afflux
Existing Conditions	1% AEP	Map 02	Map 03	Map 04	–
Proposed Conditions	1% AEP	Map 05	Map 06	Map 07	Map 08

Notes

1. Flood results have been filtered to show areas of greater than 50 mm depth.
2. Provisional ARR flood hazard categories are based on ARR flood hazard curve (2019) definitions and are shown in .

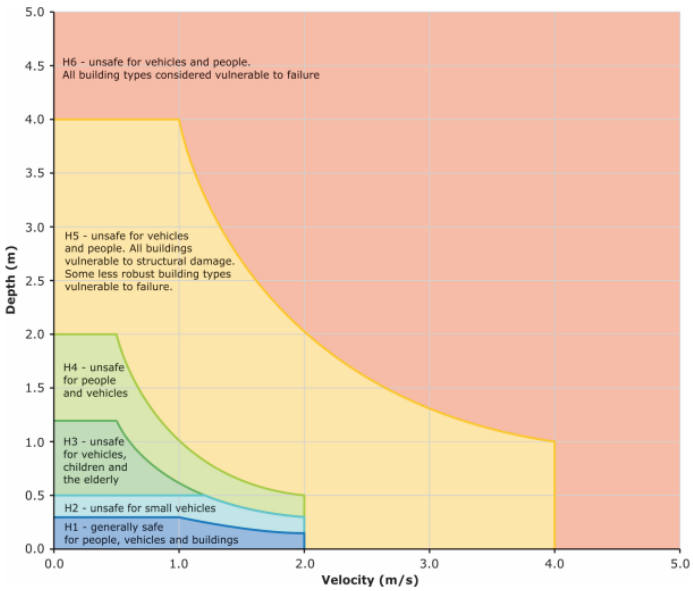


Figure 1: Flood Hazard Curves (Geoscience Australia, 2019).

3.5 Discussion

We note the following regarding modelled flood behaviour:

3.5.1 Existing Conditions

1. Flood waters primarily flow across the site from east to west along the southern boundary, and then flow along the roadside swale fronting of the site and discharge to the downstream neighbouring property through the existing culvert crossing under Catharine Fields Road.

2. The existing roadside swale and culvert crossing do not have sufficient capacity to convey the upstream flows to the downstream area. The flood water overtops the road in the 1% AEP flood event at two locations: (1) near the south western

corner of the site and (2) near the north western corner of the site where there is a low point of the road.

3. The 1% AEP flood depth across the site varies from 100 to 500 mm and the maximum flood depth of 1.1m is observed at the inlet of the culvert crossing on Catharine Fields Road.

4. Flood velocities along the southern boundary of the site and Catharine Fields Road are up to 1.5 m/s in the 1% AEP flood event.

5. Hydraulic hazard is generally H1 across the site and increased to H2 along the Catharine Fields Road in the 1% AEP flood event. The highest hazard of H4 is observed at the inlet of the culvert crossing on Catharine Fields Road.

3.5.2 Proposed Conditions

1. The proposed upstream overland flow diversion system along the southern boundary of the site effectively collects and redirects the upstream overland flows away from the proposed main building areas, and discharges the flows into the proposed drainage system on Catherine Fields Road.

2. The proposed upgraded Catherine Fields Road and associated drainage works provide more capacity to convey the 1% AEP flows comparing to the existing condition and reduce overland flows overtopping from the road to the downstream properties.

3. The flood hazard on Catherine Fields Road has been lowered from H2 to H1 which is safe for pedestrian and vehicle access.

4. Floor level compliance:

    a. The flood planning level (FPL) required by CC is 1% AEP flood level plus a 600 mm freeboard.

    b. Table 3 summarises proposed site building and flood planning levels, and demonstrates that the site achieves compliance with CC freeboard requirements.

Table 3: Comparison of flood planning levels and building ground floor levels.

Building [1]	Flood level observation point	1% AEP FLO [2]	Flood Planning Level (mAHD) [4]	Finished Floor Level (mAHD) [1]	Complies ?
Primary Hall	A	77.20	77.80	78.00	Yes
SSP	B	77.40	78.00	78.64	Yes
Kindergarten	C	77.70	78.30	78.64	Yes
Year 1	D	78.50	79.10	79.92	Yes
Year 2	E	79.30	79.90	80.56	Yes

Notes

1. Refer Attachment B for proposed site layout and ground floor levels.
2. Refer Attachment C - Map02 and Map05 for modelled proposed 1% AEP flood levels.
3. CC requires the flood planning level to be 600 mm above the 1% AEP flood level.
4. These buildings do not have nearby flood water in the proposed conditions 1% AEP flood event.

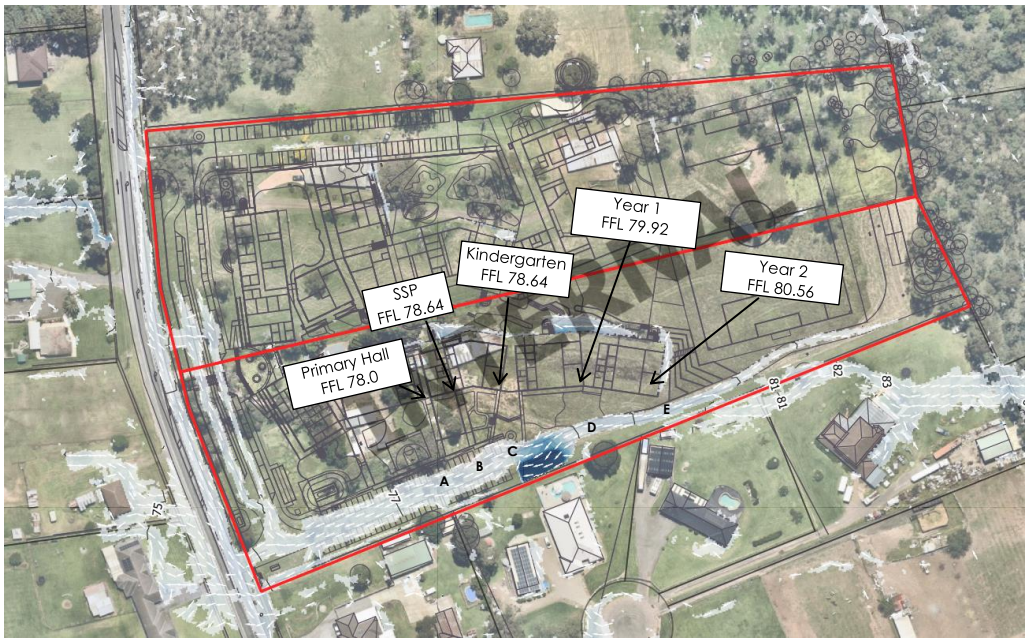


Figure 2: Comparison of flood levels with the buildings FFL.

3.5.3 Offsite Flood Impacts

1. There are minor offsite impacts in the 1% AEP flood event as a result of the proposed development.

2. Flood impacts on Catherine Fields Road would be considered acceptable as the proposed road upgrade work has lowered the flood hazard category from H2 to H1, which has a beneficial effect on the existing trafficability of the road.

3. The proposed development and road upgrade works provide a net benefit to flood affectation of the residential properties downstream of Catherine Fields Road. The minor localised impacts of above 20 mm on these properties are considered acceptable and insignificant in the context of flooding in this locality.

4. There is a small area of offsite impact above 20 mm near the south western corner of the site on the neighbouring property. This impact is likely to be associated with accuracy of the modelling result and is expected to be resolved by running a higher resolution model (ie. finer grid cell size) and incorporating with a more detailed grading design at CC stage.

5. The changes to the offsite flood conditions are of immaterial significance and are considered acceptable.

4 Summary and Recommendations

A detailed TUFLOW hydraulic model has been developed for the site using detailed site survey and proposed design elements to assess local overland flow characteristics.

The model was used to determine the existing and proposed overland flows conditions in the 1% AEP flood events. Assessment concluded that:

1. The proposed upstream overland flow diversion system effectively renders the site development area flood free in the 1% AEP flood event.

2. The proposed development area of the site is flood free in the 1% AEP flood event.

3. The proposed development would have acceptable offsite flood impacts.

4. Compliance with Council flood planning level requirements for building levels are achieved.

We recommend:

1. Structures below the site flood planning level are to be constructed using flood compatible materials in accordance with Council requirements.

2. An updated TUFLOW hydraulic model with detailed earthworks and should be simulated at detailed design stage.

5 References

Ball J, Babister M, Nathan R, Weeks W, Weinmann E, Retallick M, Testoni I, (Editors) (2019), *Australian Rainfall and Runoff: A Guide to Flood Estimation*, Commonwealth of Australia.

Bureau of Meteorology (2003), *The Estimation of Probable Maximum Precipitation in Australia: Generalised Short-Duration Method*.

Bureau of Meteorology (2019), *Rainfall IFD Data System*, http://www.bom.gov.au/water/designRainfalls/revised-ifd/.

DRAINS 2022, *DRAINS Content Menu*.

NSW Department of Environment, Climate Change & Water (2010), *Flood Risk Management Guide: Incorporating sea level rise benchmarks in flood risk assessments.*

NSW Department of Infrastructure, Planning and Natural Resources (2005), *Floodplain Development Manual*.

NSW Government Environment & Heritage (2017) *eSPADE – NSW Soil and Land Information,* www.environment.nsw.gov.au/eSpade2WebApp.

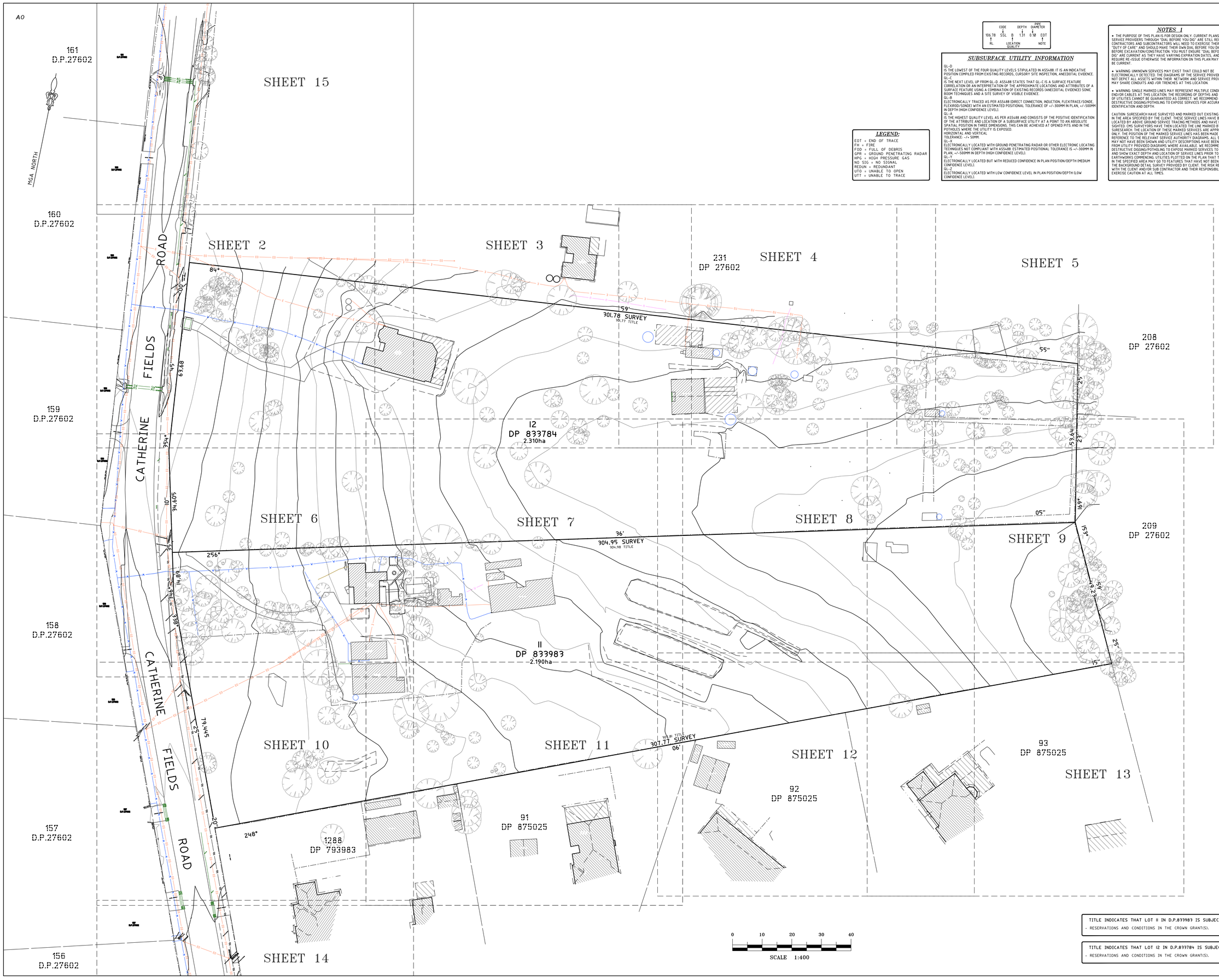
Camden Council (2006), *Flood Risk Management Policy*

Camden Council (2012), *Upper South Creek Flood Study*.

Camden Council (2011), *Camden Council Development Control Plan*

6 Attachment A: Site Survey

A0



CODE	DEPTH	PIPE DIAMETER
106.78 SSL	B 1.31	0.18 EOT
RL	LOCATION QUALITY	NOTE

SUBSURFACE UTILITY INFORMATION

QL-D
IS THE LOWEST OF THE FOUR QUALITY LEVELS STIPULATED IN AS5488. IT IS AN INDICATIVE POSITION COMPILED FROM EXISTING RECORDS, CURSORY SITE INSPECTION, ANECDOTAL EVIDENCE.
QL-C
IS THE NEXT LEVEL UP FROM QL-D. AS5488 STATES THAT QL-C IS A SURFACE FEATURE CORRELATION OR AN INTERPRETATION OF THE APPROXIMATE LOCATIONS AND ATTRIBUTES OF A SURFACE FEATURE USING A COMBINATION OF EXISTING RECORDS (ANECDOTAL EVIDENCE) SONIC BOOM TECHNIQUES AND A SITE SURVEY OF VISIBLE EVIDENCE.
QL-B
ELECTRONICALLY TRACED AS PER AS5488 (DIRECT CONNECTION, INDUCTION, FLEXITRACE/SONDE, FLEXIROD/SONDE) WITH AN ESTIMATED POSITIONAL TOLERANCE OF +/-300MM IN PLAN, +/-500MM IN DEPTH (HIGH CONFIDENCE LEVEL).
QL-A
IS THE HIGHEST QUALITY LEVEL AS PER AS5488 AND CONSISTS OF THE POSITIVE IDENTIFICATION OF THE ATTRIBUTE AND LOCATION OF A SUBSURFACE UTILITY AT A POINT TO AN ABSOLUTE SPATIAL POSITION IN THREE DIMENSIONS. THIS CAN BE ACHIEVED AT OPENED PITS AND IN THE POTHOLES WHERE THE UTILITY IS EXPOSED.
HORIZONTAL AND VERTICAL
TOLERANCE: +/- 50MM.
QL-X
ELECTRONICALLY LOCATED WITH GROUND PENETRATING RADAR OR OTHER ELECTRONIC LOCATING TECHNIQUES NOT COMPLIANT WITH AS5488. ESTIMATED POSITIONAL TOLERANCE IS +/-300MM IN PLAN, +/-500MM IN DEPTH (HIGH CONFIDENCE LEVEL).
QL-Y
ELECTRONICALLY LOCATED BUT WITH REDUCED CONFIDENCE IN PLAN POSITION/DEPTH (MEDIUM CONFIDENCE LEVEL).
QL-Z
ELECTRONICALLY LOCATED WITH LOW CONFIDENCE LEVEL IN PLAN POSITION/DEPTH (LOW CONFIDENCE LEVEL).

LEGEND:

EOT = END OF TRACE
FH = FIRE
FOD = FULL OF DEBRIS
GPR = GROUND PENETRATING RADAR
HPG = HIGH PRESSURE GAS
NO SIG = NO SIGNAL
REDUN = REDUNDANT
UTO = UNABLE TO OPEN
UTT = UNABLE TO TRACE

NOTES 1

- THE PURPOSE OF THIS PLAN IS FOR DESIGN ONLY. CURRENT PLANS ISSUED BY SERVICE PROVIDERS THROUGH "DIAL BEFORE YOU DIG" ARE STILL REQUIRED. CONTRACTORS AND SUBCONTRACTORS WILL NEED TO EXERCISE THEIR OWN "DUTY OF CARE" AND SHOULD MAKE THEIR OWN DIAL BEFORE YOU DIG ENQUIRY BEFORE EXCAVATION/CONSTRUCTION. YOU MUST ENSURE "DIAL BEFORE YOU DIG" ARE CURRENT AS THEY HAVE VARYING EXPIRATION DATES, AND MAY REQUIRE RE-ISSUE OTHERWISE THE INFORMATION ON THIS PLAN MAY NO LONGER BE CURRENT.
- WARNING: UNKNOWN SERVICES MAY EXIST THAT COULD NOT BE ELECTRONICALLY DETECTED. THE DIAGRAMS OF THE SERVICE PROVIDER MAY NOT DEPICT ALL ASSETS WITHIN THEIR NETWORK AND SERVICE PROVIDERS MAY SHARE CONDUITS AND /OR TRENCHES AT THIS LOCATION.
- WARNING: SINGLE MARKED LINES MAY REPRESENT MULTIPLE CONDUITS, PIPES END/OR CABLES AT THIS LOCATION. THE RECORDING OF DEPTHS AND POSITION OF UTILITIES CANNOT BE GUARANTEED AS CORRECT. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE SERVICES FOR ACCURATE IDENTIFICATION AND DEPTH.

CAUTION: SURESEARCH HAVE SURVEYED AND MARKED OUT EXISTING SERVICES IN THE AREA SPECIFIED BY THE CLIENT. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGNTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY SURESEARCH. THE LOCATION OF THESE MARKED SERVICES ARE APPROXIMATE ONLY. THE POSITION OF THE MARKED SERVICE LINES HAS BEEN MADE WITH REFERENCE TO THE RELEVANT SERVICE AUTHORITY DIAGRAMS. ALL SERVICES MAY NOT HAVE BEEN SHOWN AND UTILITY DESCRIPTIONS HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO IDENTIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT TERMINATE IN THE SPECIFIED AREA MAY GO TO FEATURES THAT HAVE NOT BEEN SHOWN ON THE BACKGROUND DETAIL SURVEY PROVIDED BY CLIENT. THE RISK REMAINS WITH THE CLIENT AND/OR SUB CONTRACTOR AND THEIR RESPONSIBILITY TO EXERCISE CAUTION AT ALL TIMES.

NOTES

- **BOUNDARIES HAVE BEEN DEFINED.**
- **IF CONSTRUCTION ON OR NEAR BOUNDARIES IS REQUIRED IT IS RECOMMENDED THAT THE BOUNDARIES OF THE LAND BE MARKED.**
- **THIS SURVEY IS FOR DESIGN PURPOSES OF THE SUBJECT LAND ONLY. THIS PLAN MUST NOT BE USED FOR ANY OTHER MATTER, PURPOSE OR CONSTRUCTION SETOUT.**
- TREE SIZES ARE ESTIMATES ONLY.
- THIS PLAN HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF GREEN VALLEY ISLAMIC COLLEGE LTD - C/O MOSQIN GROUP.
- RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES IS DIAGRAMMATIC ONLY. WHERE OFFSETS ARE CRITICAL THEY SHOULD BE CONFIRMED BY FURTHER SURVEY.
- EXCEPT WHERE SHOWN BY DIMENSION LOCATION OF DETAIL WITH RESPECT TO BOUNDARIES IS INDICATIVE ONLY.
- ONLY VISIBLE SERVICES HAVE BEEN LOCATED. UNDERGROUND SERVICES HAVE NOT BEEN LOCATED. DIAL BEFORE YOU DIG SERVICES (ph 1100) SHOULD BE USED AND A FULL UTILITY INVESTIGATION INCLUDING A UTILITY LOCATION SURVEY, SHOULD BE UNDERTAKEN BEFORE CARRYING OUT ANY CONSTRUCTION ACTIVITY IN OR NEAR THE SURVEYED AREA.
- CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.
- CONTOURS SHOWN DEPICT THE TOPOGRAPHY. THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
- CONTOUR INTERVAL - 0.5 metre. - SPOT LEVELS SHOULD BE ADOPTED.
- POSITION OF RIDGE LINES ARE DIAGRAMMATIC ONLY (NOT TO SCALE).
- THE INFORMATION IS ONLY TO BE USED AT A SCALE ACCURACY OF 1:100.
- DO NOT SCALE OFF THIS PLAN / FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED READINGS.

- THIS NOTICE MUST NOT BE ERASED.
- THIS PLAN HAS BEEN PREPARED UNDER THE SUPERVISION OF A REGISTERED SURVEYOR.

STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

LEGEND:

AW = AWNING
BB = BOTTOM OF BANK
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BRI = BRIDGE
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
CON = CONCRETE
CSL = COMMUNICATIONS SURFACE LEVEL
DK = DECK
DS = DOOR SILL LEVEL
ELO = ELECTRICITY LINE OVERHEAD
ESL = ELECTRICITY SURFACE LEVEL
FCE = FENCE
FL = FLOOR LEVEL
FOW = FULL OF WATER
GAFL = GARAGE FLOOR LEVEL
GDN = GARDEN
GINFD = GIN FOUND
GRA = GRAVEL
GRT = GRATE
HL = HOOD LEVEL
HYD = HYDRANT
IL = INVERT LEVEL
INS = INSPECTION PIT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
NS = NATURAL SURFACE
OU = OPTIC FIBRE
PAT = PATIO
PAV = PAVING
PER = PERGOLA
POOL = POOL
POST = POST
PTH = PATH
RF = TOP OF ROOF
RR = ROOF RIDGE
SHED = SHED
SSL = SEWER SURFACE LEVEL
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SURFACE LEVEL
TAP = TAP
TB = TOP OF BANK
TD =TABLE DRAIN
TG = TOP OF GUTTER
TIL = TILE
TNK = TANK
TOP = TOP OF PIPE
TR = TREE
TW = TOP OF WALL
USL = UNKNOWN SERVICE SURFACE LEVEL
WM = WATER METER
WSL = WATER SURFACE LEVEL

TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

C = COMMUNICATIONS LINES (UNDERGROUND)
E = ELECTRICITY LINES (OVERHEAD)
E = ELECTRICITY LINE (UNDERGROUND)
NB = NBN LINE (UNDERGROUND)
S = SEWER LINE (UNDERGROUND)
SW = STORMWATER LINE (UNDERGROUND)
U = UNKNOWN LINE (UNDERGROUND)
W = WATER LINE (UNDERGROUND)

CODE	DEPTH	PIPE DIAMETER
106.78 SSL	B 1.31	0.18 EOT
RL	LOCATION QUALITY	NOTE

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (01/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
GREEN VALLEY ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES OVER LOT 11 IN DP833983 & OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

C.M.S. Surveyors Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why NSW 2099
2/99A South Creek Road, Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmssurveyors.com.au

TITLE INDICATES THAT LOT 11 IN D.P.833983 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S).

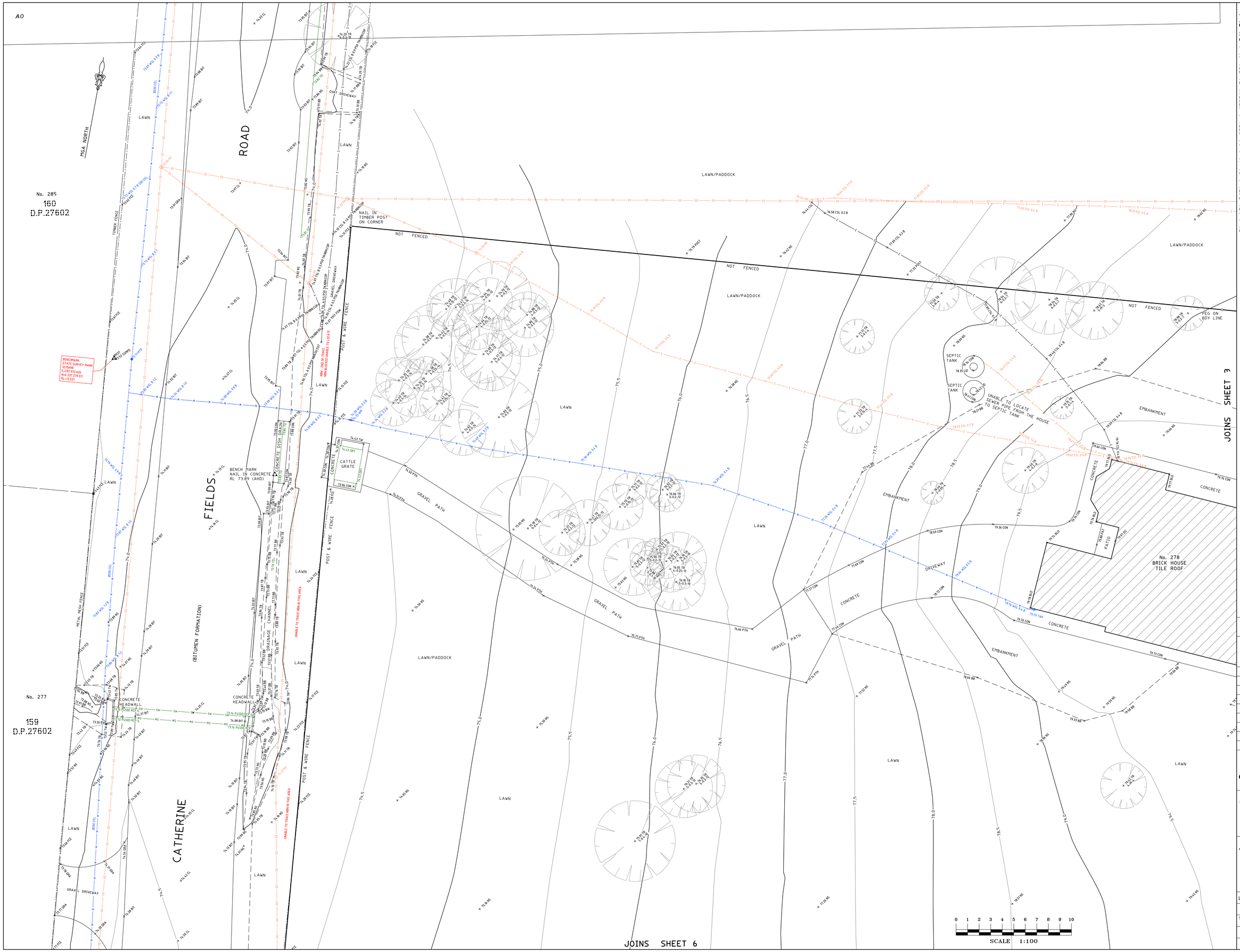
TITLE INDICATES THAT LOT 12 IN D.P.833784 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S).

LGA: CAMDEN | SHEET 1 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	LJ/--

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
20191A	1:400@ A0	15-17/03/2021 16/11/2021

DRAWING NAME: **20191Adetail**
CAD FILE: 20191Adetail 2.dwg
ISSUE: **2**



NOTES

- **BOUNDARIES HAVE BEEN DEFINED.**
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- CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.
- CONTOURS SHOWN DEPICT THE TOPOGRAPHY. THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
- CONTOUR INTERVAL - 0.5 metre. - SPOT LEVELS SHOULD BE ADOPTED.
- POSITION OF RIDGE LINES ARE DIAGRAMMATIC ONLY (NOT TO SCALE).
- THE INFORMATION IS ONLY TO BE USED AT A SCALE ACCURACY OF 1:100.
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-
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STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

LEGEND:

AW = AWNING
BB = BOTTOM OF BANK
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TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

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	CODE	DEPTH	DIAMETER	
106.78	SSL	8	1.31	0.10 EOT
RL	LOCATION QUALITY			NOTE

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
GREEN VALLEY ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES
OVER LOT 11 IN DP833983 &
OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

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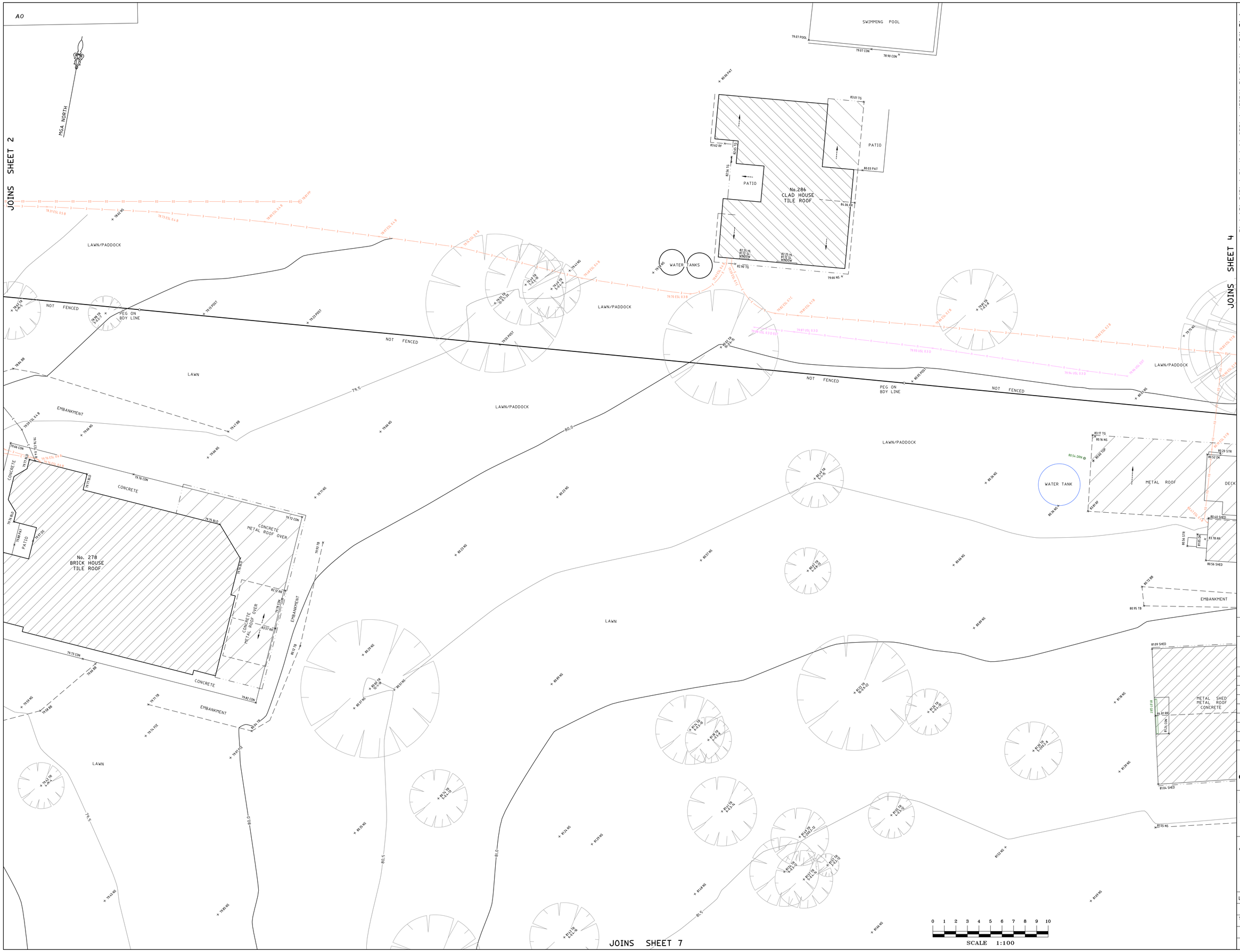
LGA: CAMDEN | SHEET 2 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
20131A	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME: **20131Adetail**
CAD FILE: 20131Adetail 2.dwg
ISSUE: 2



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STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

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TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

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CODE	DEPTH	DIAMETER	PIPE
106.78	SSL	B 1.31	0.10 EOT
RL	LOCATION QUALITY		NOTE

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
GREEN VALLEY ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES OVER LOT 11 IN DP833983 & OVER LOT 12 IN DP833784
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CATHERINE FIELD, NSW, 2171

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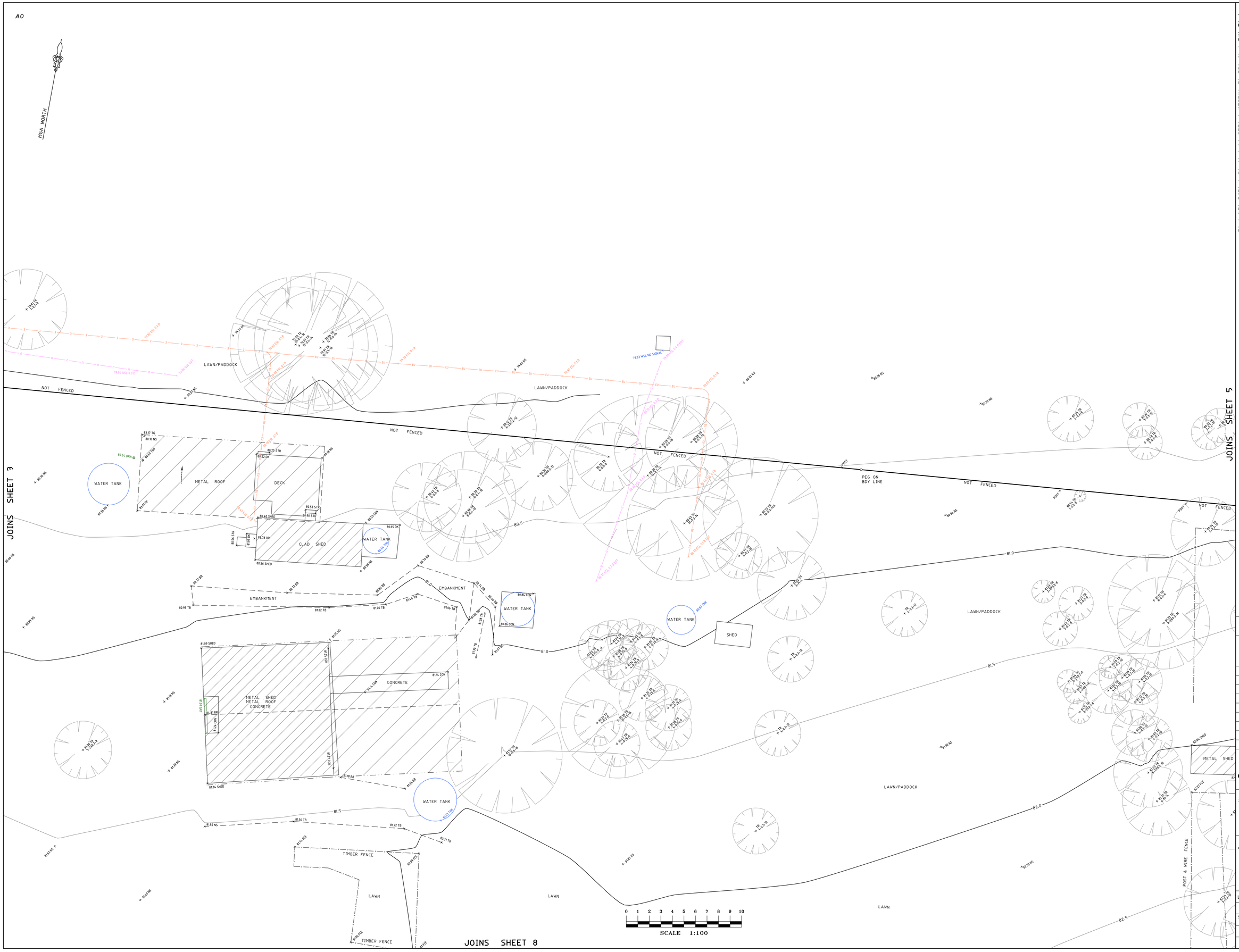
LGA: CAMDEN | SHEET 3 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	L.J.V.-

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
20131A	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME: **20131Adetail**
CAD FILE: 20131Adetail 2.dwg
ISSUE: **2**

A0



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STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

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TREE
SPREAD-DIAMETER-HEIGHT

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CODE	DEPTH	PIPE DIAMETER
106.78 SSL	B 1.31	0.100 EOT
RL	LOCATION QUALITY	NOTE

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
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C/O-SUITE 7, 33 ALEXANDRIA STREET
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SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES OVER LOT 11 IN DP833983 & OVER LOT 12 IN DP833784
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CATHERINE FIELD, NSW, 2171

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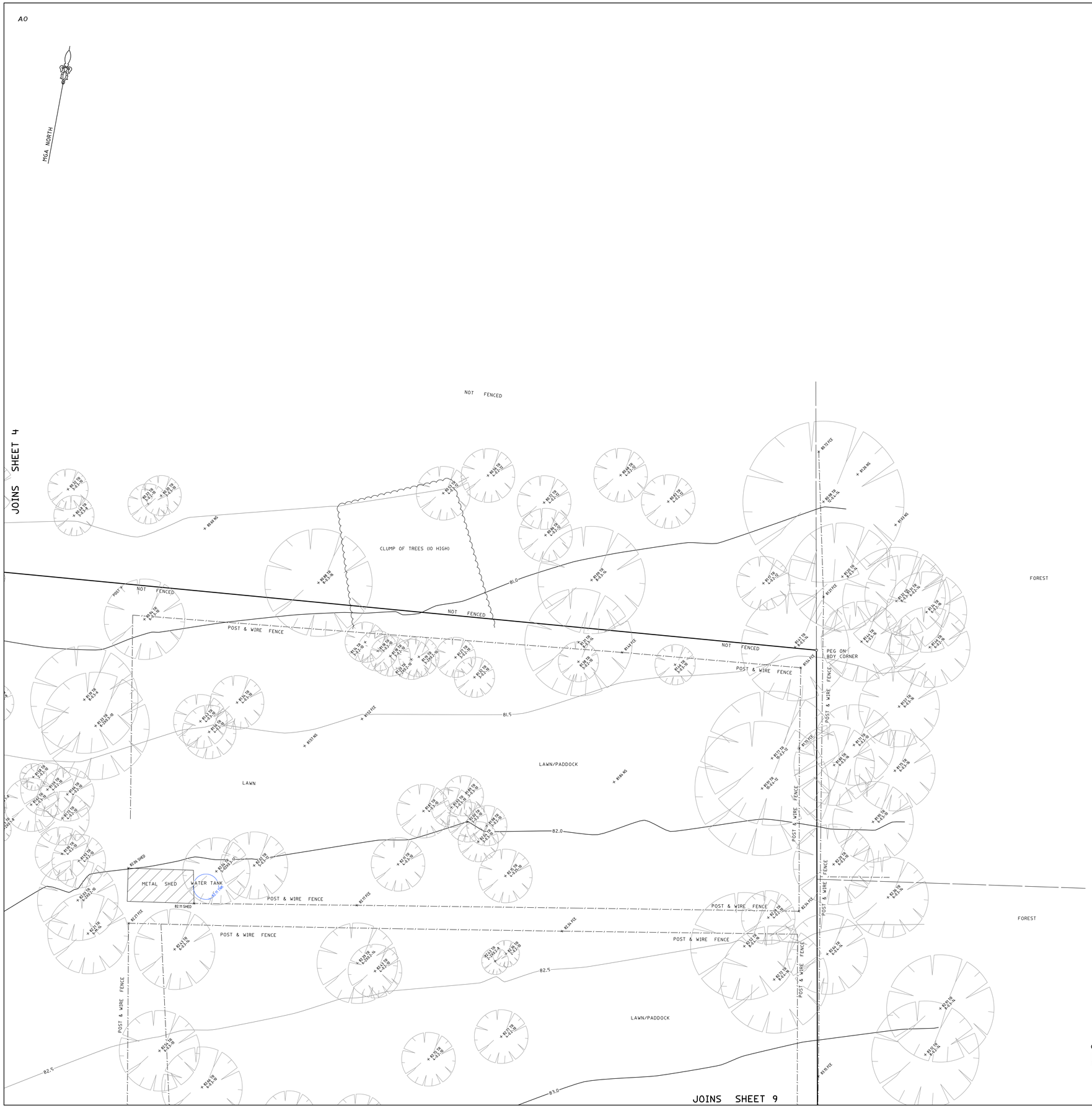
LGA: CAMDEN — SHEET 4 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	LJ/--

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
20191A	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME: **20191Adetail**
CAD FILE: 20191Adetail 2.dwg
ISSUE: 2

A0



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SCALE 1:100

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CODE		DEPTH	PIPE DIAMETER
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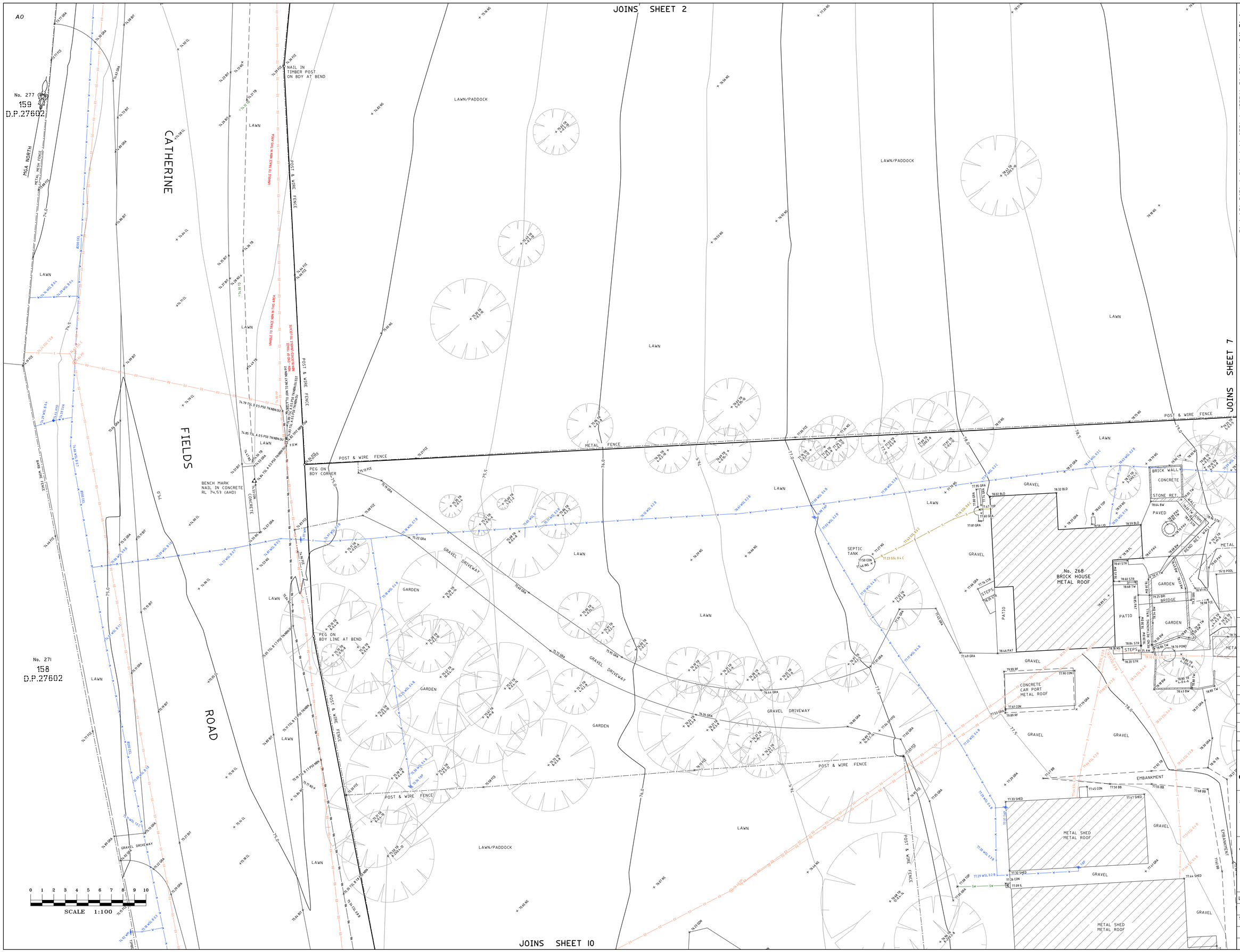
LGA: CAMDEN
SHEET 5 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	LJ/--

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
20131A	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME
20131Adetail
ISSUE **2**
CAD FILE
20131Adetail 2.dwg



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STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

LEGEND:

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PTH = PATH
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SSL = SEWER SURFACE LEVEL
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TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

= COMMUNICATIONS LINES (UNDERGROUND)
= ELECTRICITY LINES (OVERHEAD)
= ELECTRICITY LINE (UNDERGROUND)
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RL	CODE	LOCATION	DEPTH	QUALITY	PIPE DIAMETER	NOTE
106.78	SSL	B	1.31	0.10		EDT

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND
SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
GREEN VALLEY ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES
OVER LOT 11 IN DP833983 &
OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

C.M.S. Surveyors Pty Limited
ACN: 096 240 201
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2/99A South Creek Road, Dee Why NSW 2099
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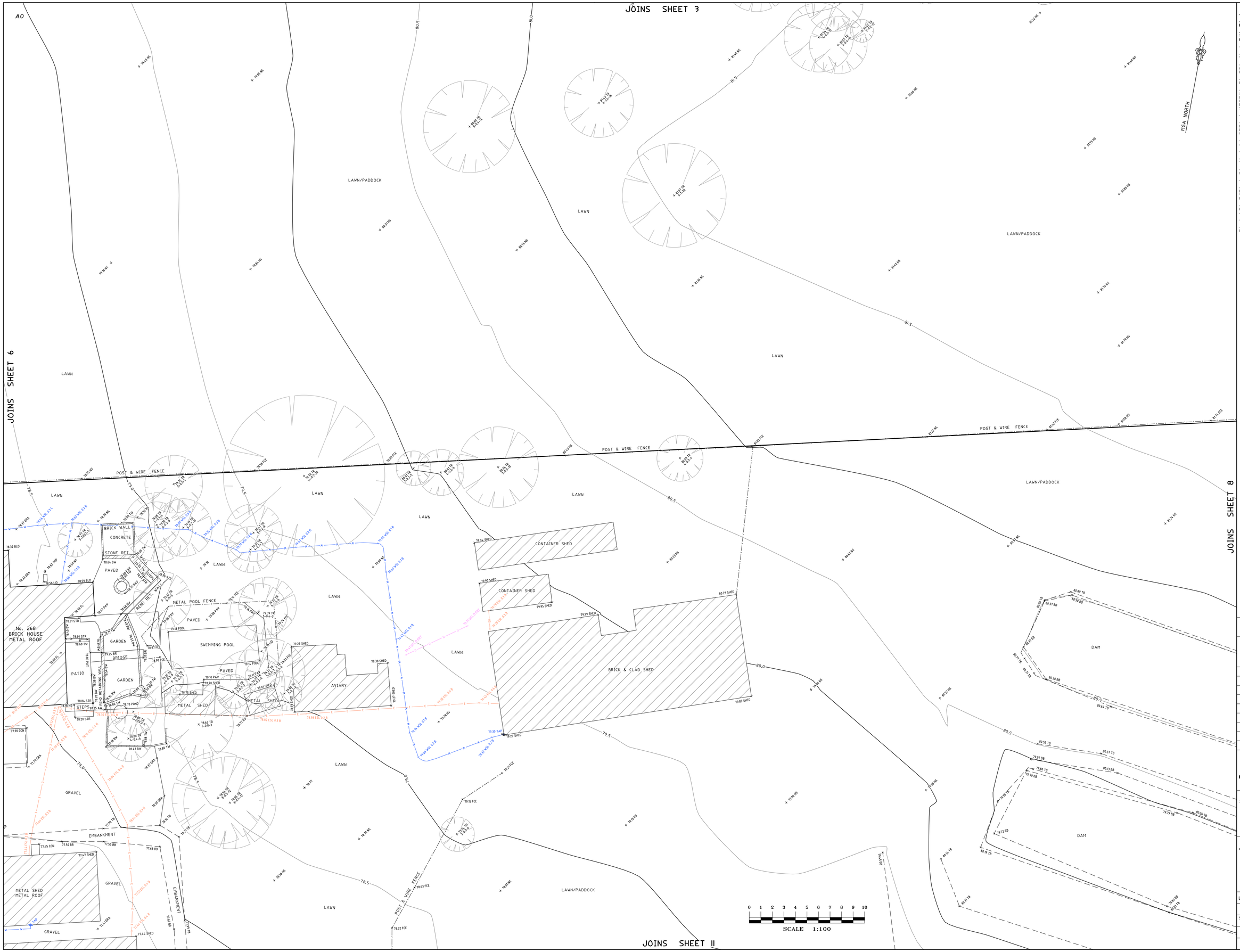
Facsimile: (02) 9971 4822
E-mail: info@cmssurveyors.com.au

LGA: CAMDEN | SHEET 6 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	L.J/--

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
2019IA	1:100 @ A0	15-17/03/2021 18/11/2021

DRAWING NAME: **2019IAdetail**
CAD FILE: 2019IAdetail 2.dwg
ISSUE: 2



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REGISTERED SURVEYOR BOSSI NUMBER 1605

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TREE
SPREAD-DIAMETER-HEIGHT

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CODE	DEPTH	PIPE DIAMETER
106.78 SSL B 1.31 0.100 EOT		
RL LOCATION QUALITY		NOTE

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HORIZONTAL DATUM:
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R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (01/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

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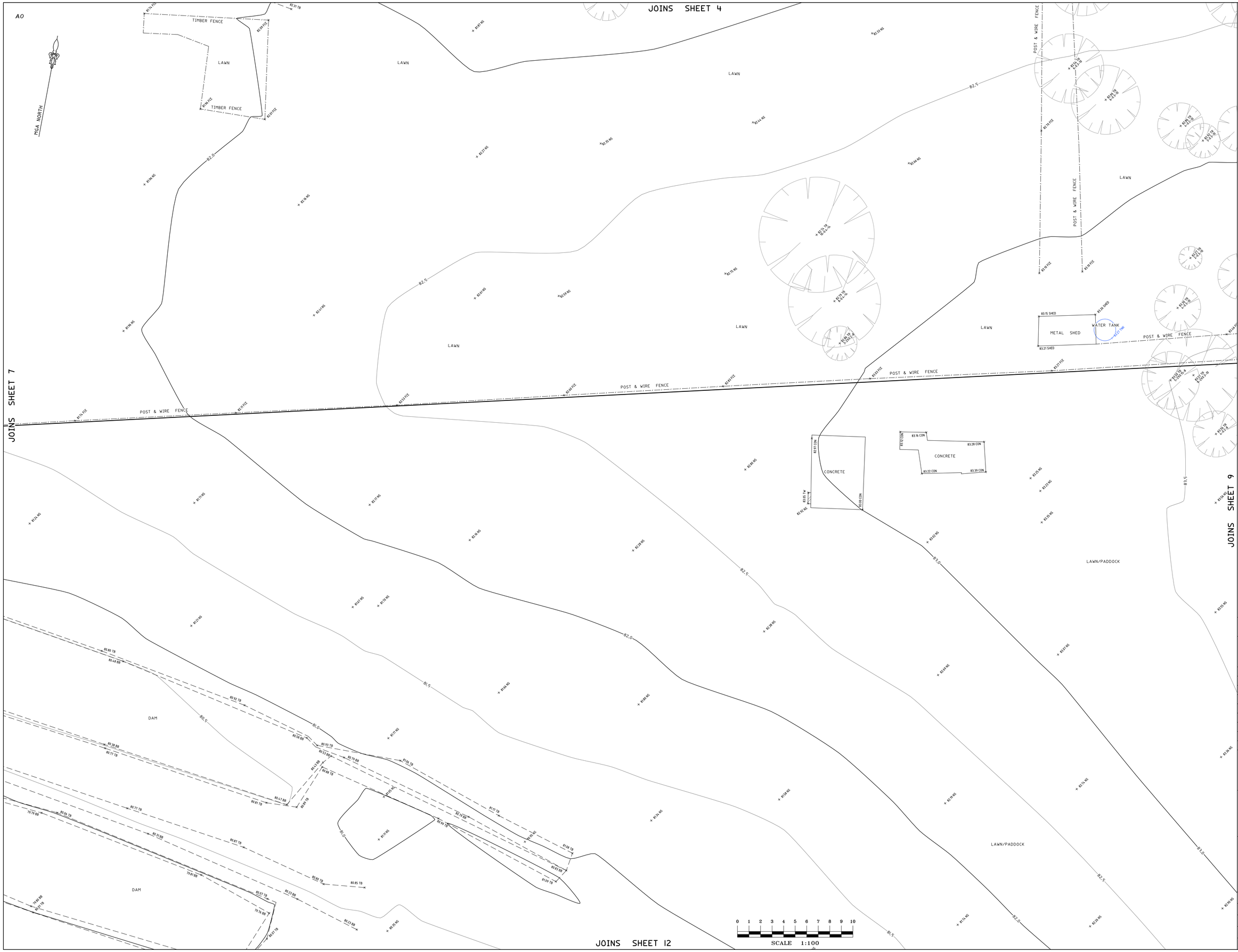
LGA: CAMDEN | SHEET 7 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	LJ/--

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
20131A	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME: **20131Adetail**
CAD FILE: 20131Adetail 2.dwg
ISSUE: 2



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CODE	DEPTH	PIPE DIAMETER
106.78	1.31	0.100
SSL B		EOT
RL	LOCATION QUALITY	NOTE

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HORIZONTAL DATUM:
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MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
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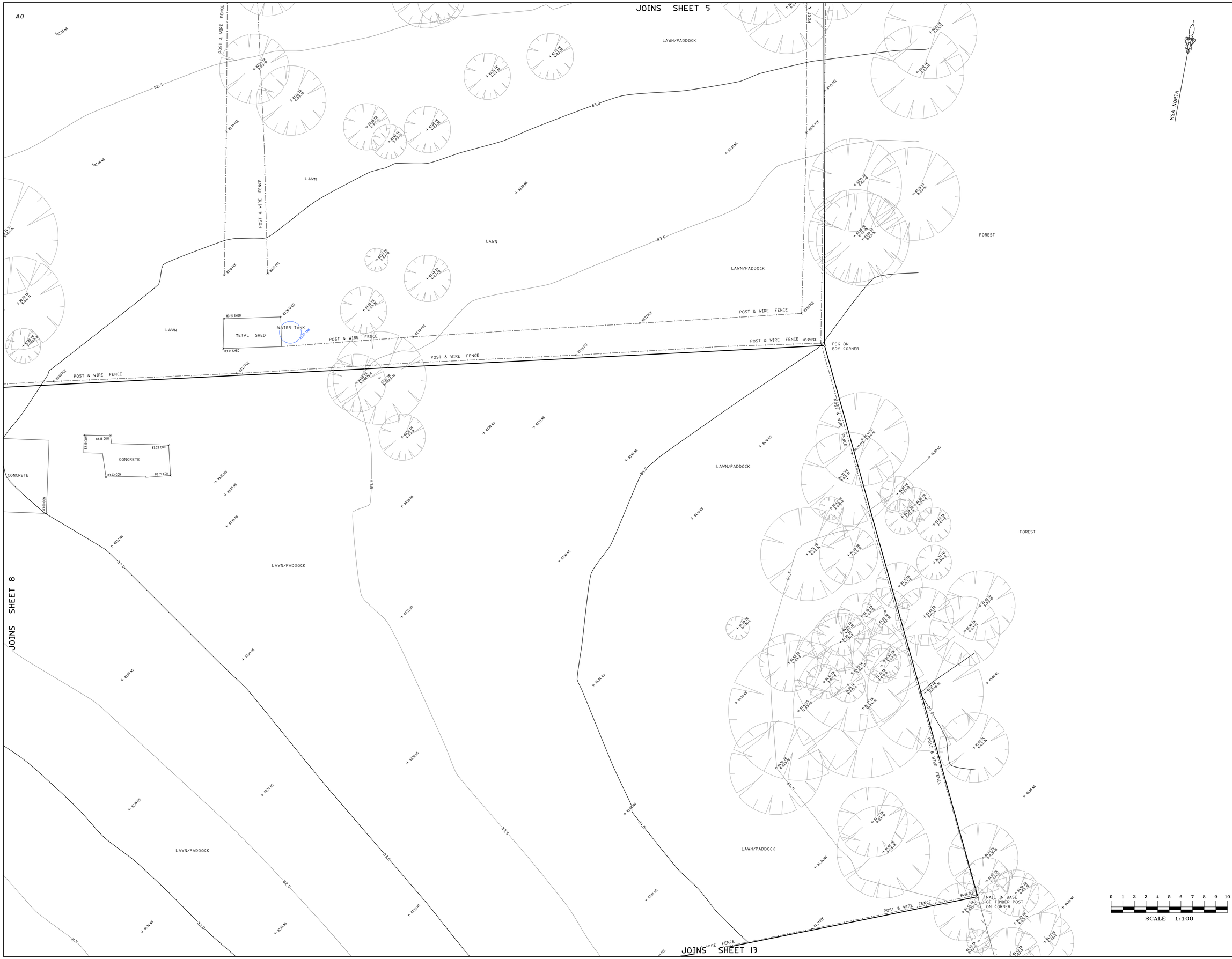
LGA: CAMDEN
SHEET 8 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	LJ/--

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
2013IA	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME: 2013IAdetail
CAD FILE: 2013IAdetail 2.dwg
ISSUE: 2



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CODE DEPTH PIPE DIAMETER
106.78 SSL B 1.31 0.10 EOT
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LGA: CAMDEN — SHEET 9 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	LJ/--

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
20131A	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME: **20131Adetail**
CAD FILE: 20131Adetail 2.dwg
ISSUE: **2**

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DK = DECK
DS = DOOR SILL LEVEL
ELO = ELECTRICITY LINE OVERHEAD
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FCE = FENCE
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FOW = FULL OF WATER
GAFL = GARAGE FLOOR LEVEL
GDN = GARDEN
GINFD = GIN FOUND
GRA = GRAVEL
GRT = GRATE
HL = HOOD LEVEL
HYD = HYDRANT
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INS = INSPECTION PIT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
NS = NATURAL SURFACE
OU = OPTIC FIBRE
PAT = PATIO
PAV = PAVING
PER = PERGOLA
POOL = POOL
POST = POST
PTH = PATH
RF = TOP OF ROOF
RR = ROOF RIDGE
SHED = SHED
SSL = SEWER SURFACE LEVEL
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SURFACE LEVEL
TAP = TAP
TB = TOP OF BANK
TD =TABLE DRAIN
TG = TOP OF GUTTER
TIL = TILE
TNK = TANK
TOP = TOP OF PIPE
TR = TREE
TW = TOP OF WALL
USL = UNKNOWN SERVICE SURFACE LEVEL
WM = WATER METER
WSL = WATER SURFACE LEVEL

TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

C = COMMUNICATIONS LINES (UNDERGROUND)
EO = ELECTRICITY LINES (OVERHEAD)
E = ELECTRICITY LINE (UNDERGROUND)
NBN = NBN LINE (UNDERGROUND)
S = SEWER LINE (UNDERGROUND)
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	CODE	DEPTH	PIPE DIAMETER	
106.78	SSL	B	1.31	0.10 EOT
RL	LOCATION QUALITY			NOTE

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
GREEN VALLEY ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES OVER LOT 11 IN DP833983 & OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

C.M.S. Surveyors Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why NSW 2099
2/99A South Creek Road, Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmssurveyors.com.au

LGA: CAMDEN
SHEET 10 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	LJ/--

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
2013IA	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME: **2013IAdetail**
CAD FILE: 2013IAdetail 2.dwg
ISSUE: **2**

NOTES

- **BOUNDARIES HAVE BEEN DEFINED.**
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- CONTOURS SHOWN DEPICT THE TOPOGRAPHY. THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
- CONTOUR INTERVAL - 0.5 metre. - SPOT LEVELS SHOULD BE ADOPTED.
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STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

LEGEND:

AW = AWNING
BB = BOTTOM OF BANK
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TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

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RL	CODE	LOCATION QUALITY	DEPTH	PIPE DIAMETER	NOTE
106.78	SSL	B	1.31	0.10	EOT

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
GREEN VALLEY ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
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E-mail: info@cmssurveyors.com.au

LGA: CAMDEN — SHEET 11 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	LJV--

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
20131A	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME: **20131Adetail**
CAD FILE: 20131Adetail 2.dwg
ISSUE: 2

0 1 2 3 4 5 6 7 8 9 10

SCALE 1:100

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STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

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TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

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RL	CODE	LOCATION QUALITY	DEPTH	PIPE DIAMETER	NOTE
106.78	SSL	B	1.31	0.100	EOT

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (01/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
GREEN VALLEY ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

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SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES OVER LOT 11 IN DP833983 & OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

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Telephone: (02) 9971 4802
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E-mail: info@cmssurveyors.com.au

LGA: CAMDEN
SHEET 12 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	LJ/--

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
2019/A	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME: **2019/Adetail**
CAD FILE: 2019Adetail 2.dwg
ISSUE: **2**

NOTES

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STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

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TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

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RL	CODE	LOCATION QUALITY	DEPTH	PIPE DIAMETER	NOTE
106.78	SSL	B	1.31	0.10	EOT

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

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DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
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C/O-SUITE 7, 33 ALEXANDRIA STREET
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LGA: CAMDEN | SHEET 13 OF 15

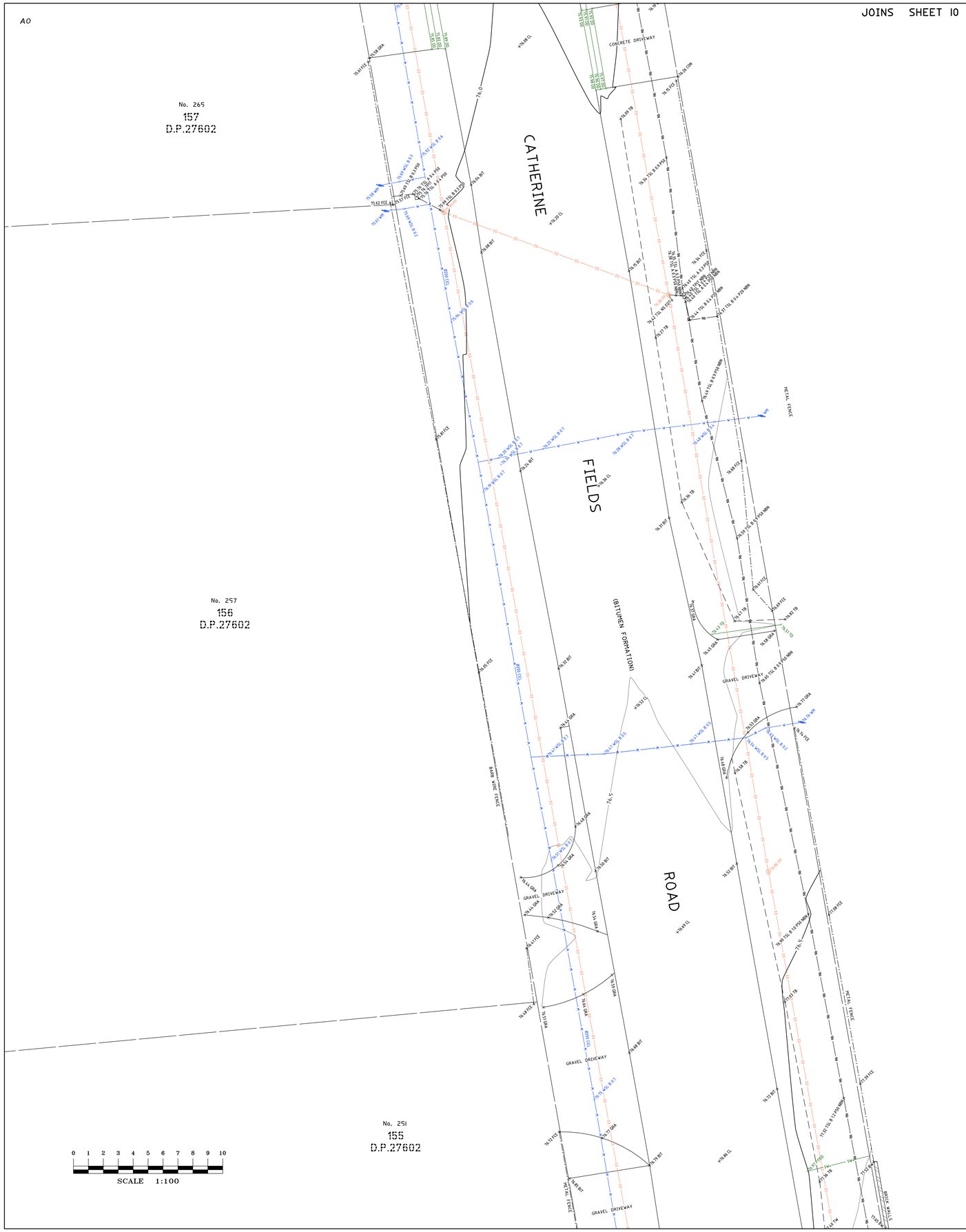
SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	L.J/--

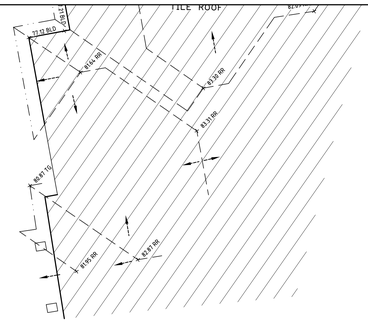
SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
20131A	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME
20131Adetail

CAD FILE
20131Adetail 2.dwg

ISSUE
2





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STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

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R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (01/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
GREEN VALLEY ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES OVER LOT 11 IN DP833983 & OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

C.M.S. Surveyors Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why NSW 2099
2/99A South Creek Road, Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmsurveyors.com.au

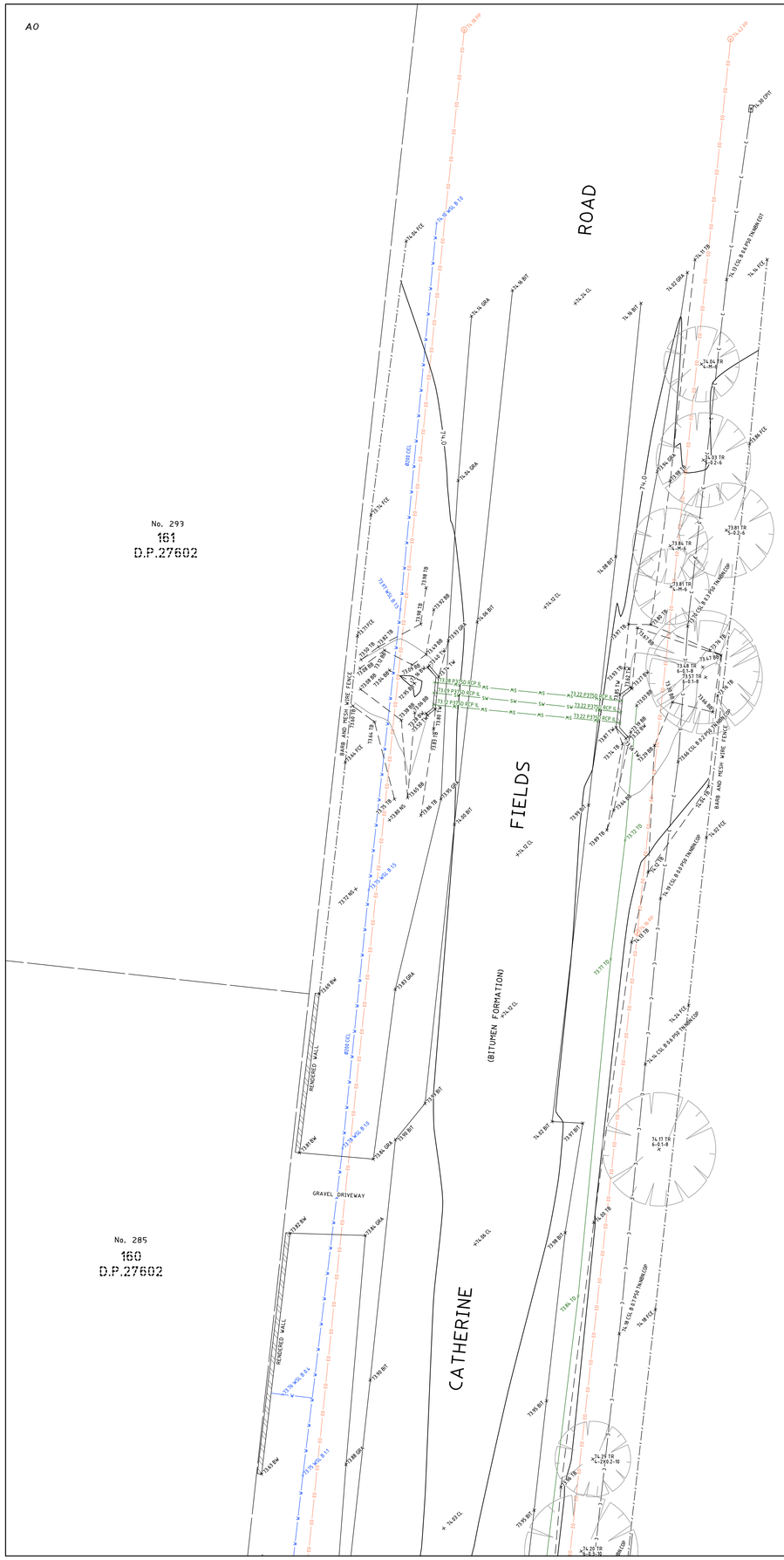
LGA: CAMDEN | SHEET 14 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	LJ/--

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
20191A	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME: **20191Adetail**
CAD FILE: 20191Adetail 2.dwg
ISSUE: **2**

A0



0 1 2 3 4 5 6 7 8 9 10

SCALE 1:100

JOINS SHEET 2

NOTES

- **BOUNDARIES HAVE BEEN DEFINED.**
- **IF CONSTRUCTION ON OR NEAR BOUNDARIES IS REQUIRED IT IS RECOMMENDED THAT THE BOUNDARIES OF THE LAND BE MARKED.**
- **THIS SURVEY IS FOR DESIGN PURPOSES OF THE SUBJECT LAND ONLY. THIS PLAN MUST NOT BE USED FOR ANY OTHER MATTER, PURPOSE OR CONSTRUCTION SETOUT.**
- TREE SIZES ARE ESTIMATES ONLY.
- THIS PLAN HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF GREEN VALLEY ISLAMIC COLLEGE LTD - C/O MISSON GROUP.
- RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES IS DIAGRAMMATIC ONLY. WHERE OFFSETS ARE CRITICAL THEY SHOULD BE CONFIRMED BY FURTHER SURVEY.
- EXCEPT WHERE SHOWN BY DIMENSION LOCATION OF DETAIL WITH RESPECT TO BOUNDARIES IS INDICATIVE ONLY.
- ONLY VISIBLE SERVICES HAVE BEEN LOCATED. UNDERGROUND SERVICES HAVE NOT BEEN LOCATED. DIAL BEFORE YOU DIG SERVICES (ph 1100) SHOULD BE USED AND A FULL UTILITY INVESTIGATION INCLUDING A UTILITY LOCATION SURVEY, SHOULD BE UNDERTAKEN BEFORE CARRYING OUT ANY CONSTRUCTION ACTIVITY IN OR NEAR THE SURVEYED AREA.
- CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.
- CONTOURS SHOWN DEPICT THE TOPOGRAPHY. THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
- CONTOUR INTERVAL - 0.5 metre. - SPOT LEVELS SHOULD BE ADOPTED.
- POSITION OF RIDGE LINES ARE DIAGRAMMATIC ONLY (NOT TO SCALE).
- THE INFORMATION IS ONLY TO BE USED AT A SCALE ACCURACY OF 1:100.
- DO NOT SCALE OFF THIS PLAN / FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED READINGS.

- THIS PLAN HAS BEEN PREPARED UNDER THE SUPERVISION OF A REGISTERED SURVEYOR.

STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

LEGEND:

AW = AWNING
BB = BOTTOM OF BANK
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BRI = BRIDGE
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
CON = CONCRETE
CSL = COMMUNICATIONS SURFACE LEVEL
DK = DECK
DS = DOOR SILL LEVEL
ELO = ELECTRICITY LINE OVERHEAD
ESL = ELECTRICITY SURFACE LEVEL
FCE = FENCE
FL = FLOOR LEVEL
FOW = FULL OF WATER
GAFL = GARAGE FLOOR LEVEL
GDN = GARDEN
GINFO = GIN FOUND
GRA = GRAVEL
GRT = GRATE
HL = HOOD LEVEL
HYD = HYDRANT
IL = INVERT LEVEL
INS = INSPECTION PIT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
NS = NATURAL SURFACE
OU = OPTIC FIBRE
PAT = PATIO
PAV = PAVING
PER = PERGOLA
POOL = POOL
POST = POST
PTH = PATH
RF = TOP OF ROOF
RR = ROOF RIDGE
SHED = SHED
SSL = SEWER SURFACE LEVEL
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SURFACE LEVEL
TAP = TAP
TB = TOP OF BANK
TD =TABLE DRAIN
TG = TOP OF GUTTER
TIL = TILE
TNK = TANK
TOP = TOP OF PIPE
TR = TREE
TW = TOP OF WALL
USL = UNKNOWN SERVICE SURFACE LEVEL
WM = WATER METER
WSL = WATER SURFACE LEVEL

TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

C = COMMUNICATIONS LINES (UNDERGROUND)
EO = ELECTRICITY LINES (OVERHEAD)
E = ELECTRICITY LINE (UNDERGROUND)
N = NBN LINE (UNDERGROUND)
S = SEWER LINE (UNDERGROUND)
SW = STORMWATER LINE (UNDERGROUND)
? = UNKNOWN LINE (UNDERGROUND)
W = WATER LINE (UNDERGROUND)

CODE	DEPTH	PIPE DIAMETER
SSL	1.31	0.10
106.78	B	EOT
RL	LOCATION QUALITY	NOTE

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
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E-mail: info@cmssurveyors.com.au

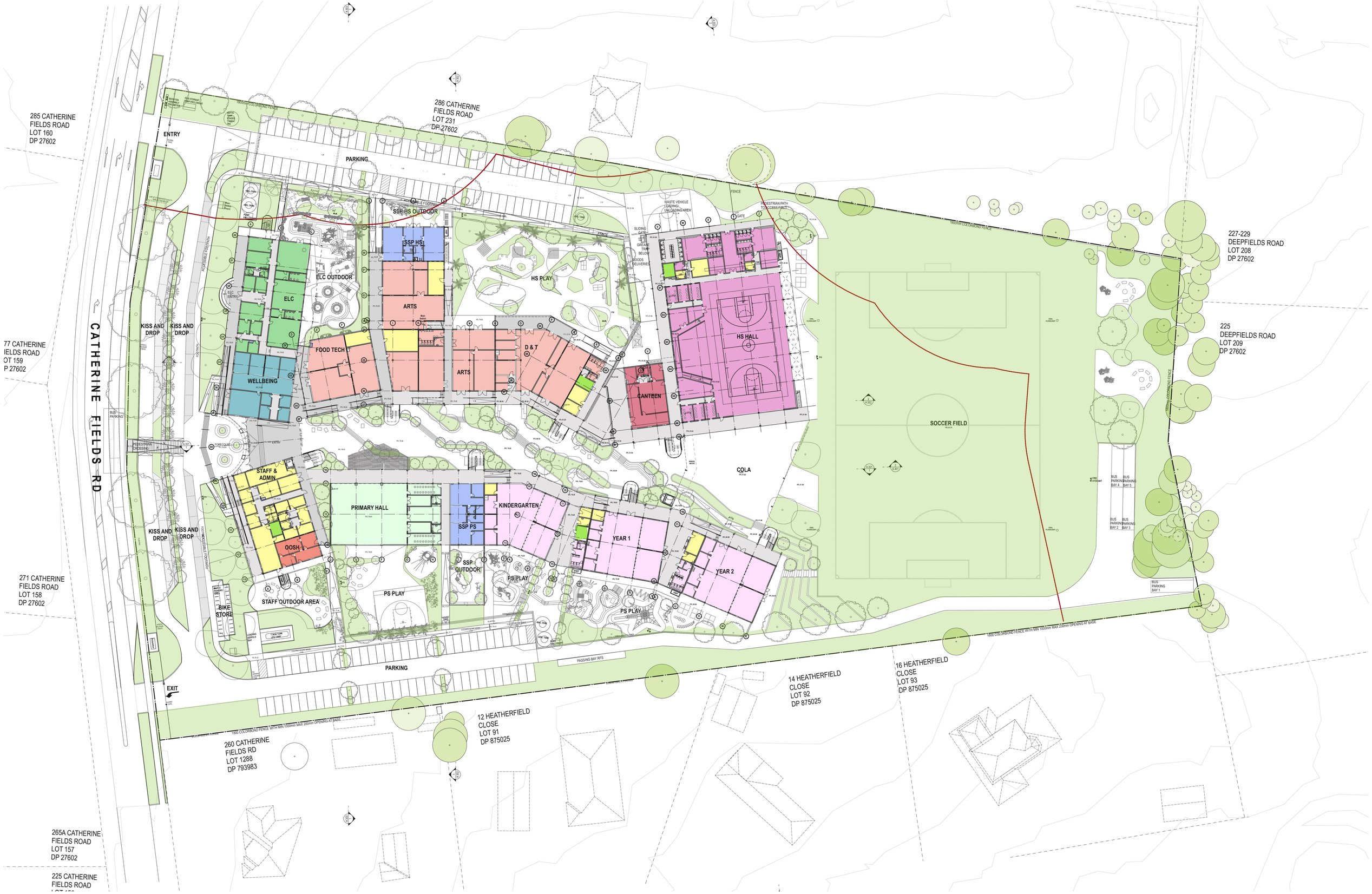
LGA: CAMDEN
SHEET 15 OF 15

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	LJ/--

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
2013IA	1:100 @ A0	15-17/03/2021 16/11/2021

DRAWING NAME: **2013IAdetail**
CAD FILE: 2013IAdetail 2.dwg
ISSUE: **2**

7 Attachment B: Proposed Site Layout



DATE	REV	DESCRIPTION:
31.03.22	A	ISSUE FOR SSDA

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PROJECT :
MINARAH COLLEGE
268-278 CATHERINE FIELDS RD
CATHERINE FIELD

PROJECT NO : #21019

N

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tonkin zulaikha greer ARCHITECTS

DRAWING TITLE	DRAWN BY
SITE PLAN GROUND	BS, RL, JD, WR
	CHECKED: PT
SCALES: 1:500	DATE: DD.MM.201X
PHASE: SCHEMATIC DESIGN	DRAWING NO: A 005
	REV

DATE	REV	DESCRIPTION:
31.03.22	A	ISSUE FOR SSDA

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PROJECT :
MINARAH COLLEGE

PROJECT NO : #21019

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DRAWING TITLE		DRAWN BY
ROOF PLAN		BS, RL, JD, WR
		CHECKED: PT
SCALES: 1:250		DATE: DD.MM.201X
PHASE: SCHEMATIC DESIGN	DRAWING NO: A 103	REV

DATE	REV	DESCRIPTION:
31.03.22	A	ISSUE FOR SSDA

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PROJECT :
MINARAH COLLEGE
268-278 CATHERINE FIELDS RD
CATHERINE FIELD

PROJECT NO : #21019

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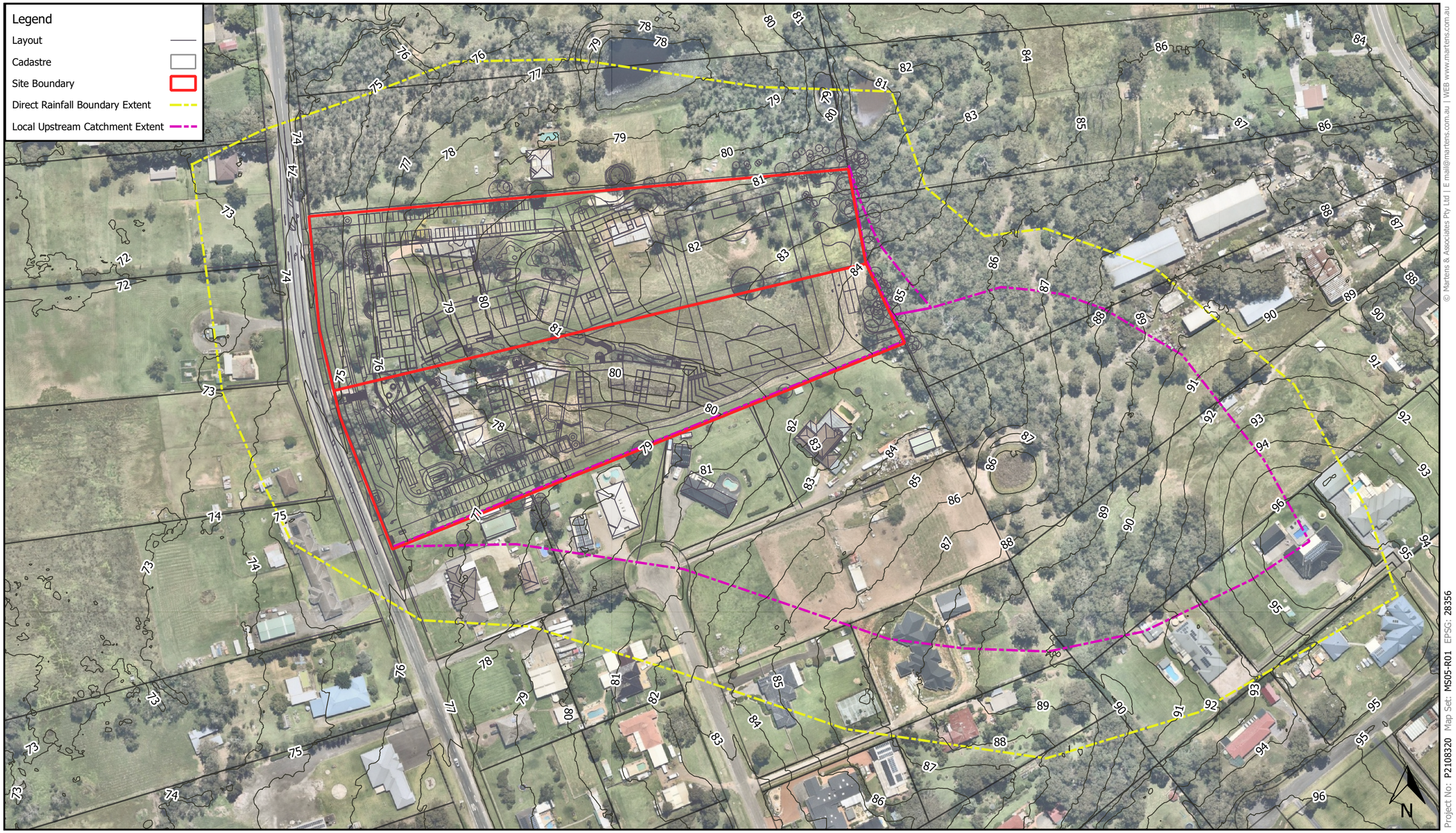
DRAWING TITLE	DRAWN BY
ROOF PLAN	BS, RL, JD, WR
	CHECKED: PT
SCALES: 1:250	DATE: DD.MM.201X
PHASE: SCHEMATIC DESIGN	DRAWING NO: A 103
	REV

8 Attachment C: Preliminary Overland Flow Assessment Mapset



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Map Title / Figure:

Direct Rainfall Boundary Extent

Map 01	Map
268 & 278 Catherine Fields Road, Catherine Fields, NSW	Site
Minarah College – Catherine Field	Project
Preliminary Overland Flow Assessment	Sub-Project
Minarah College	Client
14/04/2022	Date

martens
Environment | Water | Geotechnics | Civil | Projects

Project No: P2108320 Map Set: MS05-R01 EPSG: 28356

0 10 20 30 40 50 m

1:1500 @ A3

Map Title / Figure:

1% AEP Critical Storm Duration
Existing Condition Water Level (mAHD) & Water Depth

Map 02	Map
268 & 278 Catherine Fields Road, Catherine Fields, NSW	Site
Minarah College – Catherine Field	Project
Preliminary Overland Flow Assessment	Sub-Project
Minarah College	Client
14/04/2022	Date

martens
Environment | Water | Geotechnics | Civil | Projects

Project No: P2108320 Map Set: MS05-R01 EPSG: 28356

0 10 20 30 40 50 m

1:1500 @ A3

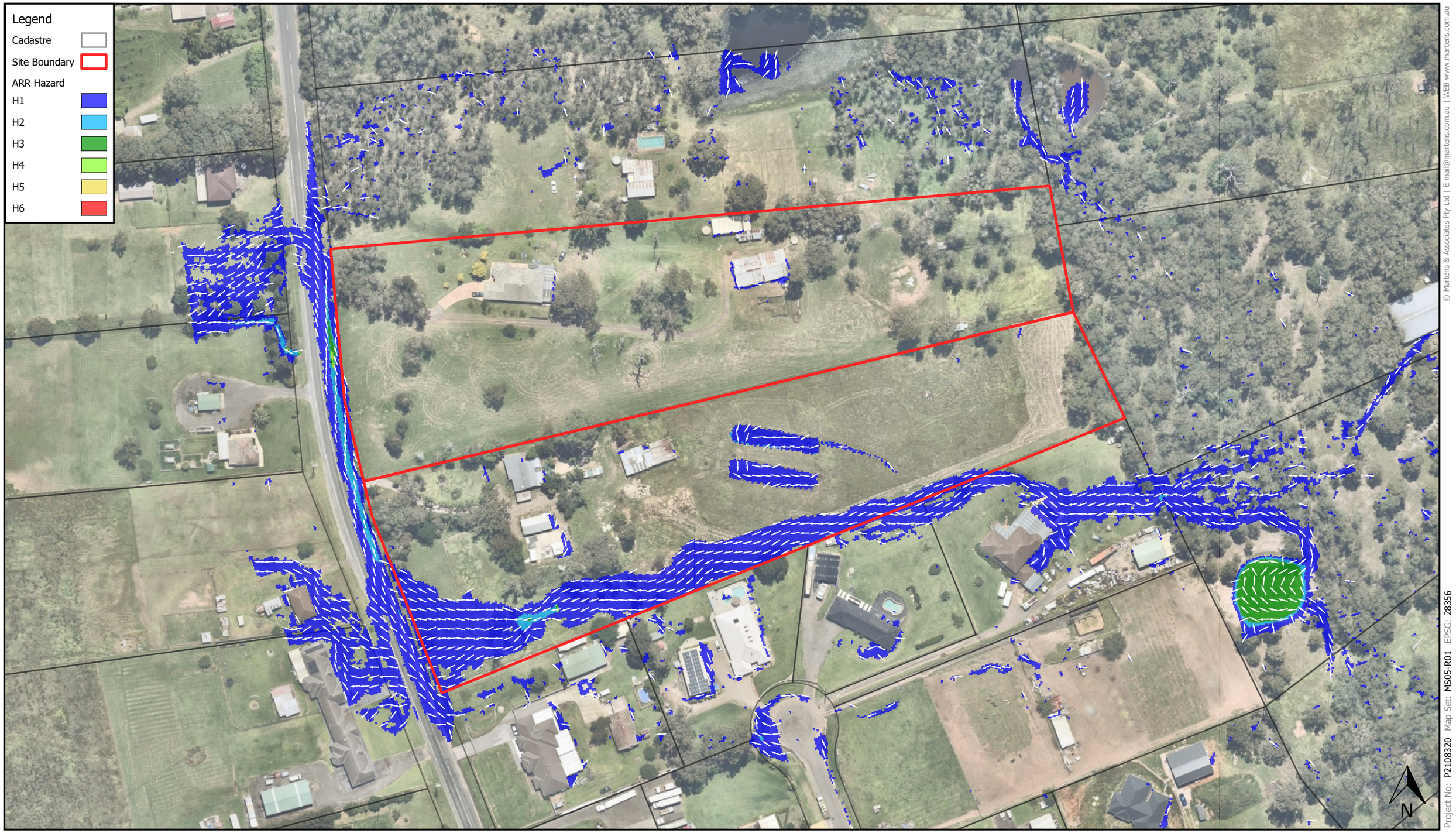
Map Title / Figure:

1% AEP Critical Storm Duration
Existing Condition Water Velocity (m/s)

Map 03	Map
268 & 278 Catherine Fields Road, Catherine Fields, NSW	Site
Minarah College – Catherine Field	Project
Preliminary Overland Flow Assessment	Sub-Project
Minarah College	Client
14/04/2022	Date

martens
Environment | Water | Geotechnics | Civil | Projects

Project No: P2108320 Map Set: MS05-R01 EPSG: 28356



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1:1500 @ A3

Map Title / Figure:

1% AEP Critical Storm Duration
Existing Condition Provisional ARR Flood Hazard Categories

Map 04	Map
268 & 278 Catherine Fields Road, Catherine Fields, NSW	Site
Minarah College – Catherine Field	Project
Preliminary Overland Flow Assessment	Sub-Project
Minarah College	Client
14/04/2022	Date

martens
Environment | Water | Geotechnics | Civil | Projects

Project No: P2108320 Map Set: MS05-R01 EPSG: 28356

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1:1500 @ A3

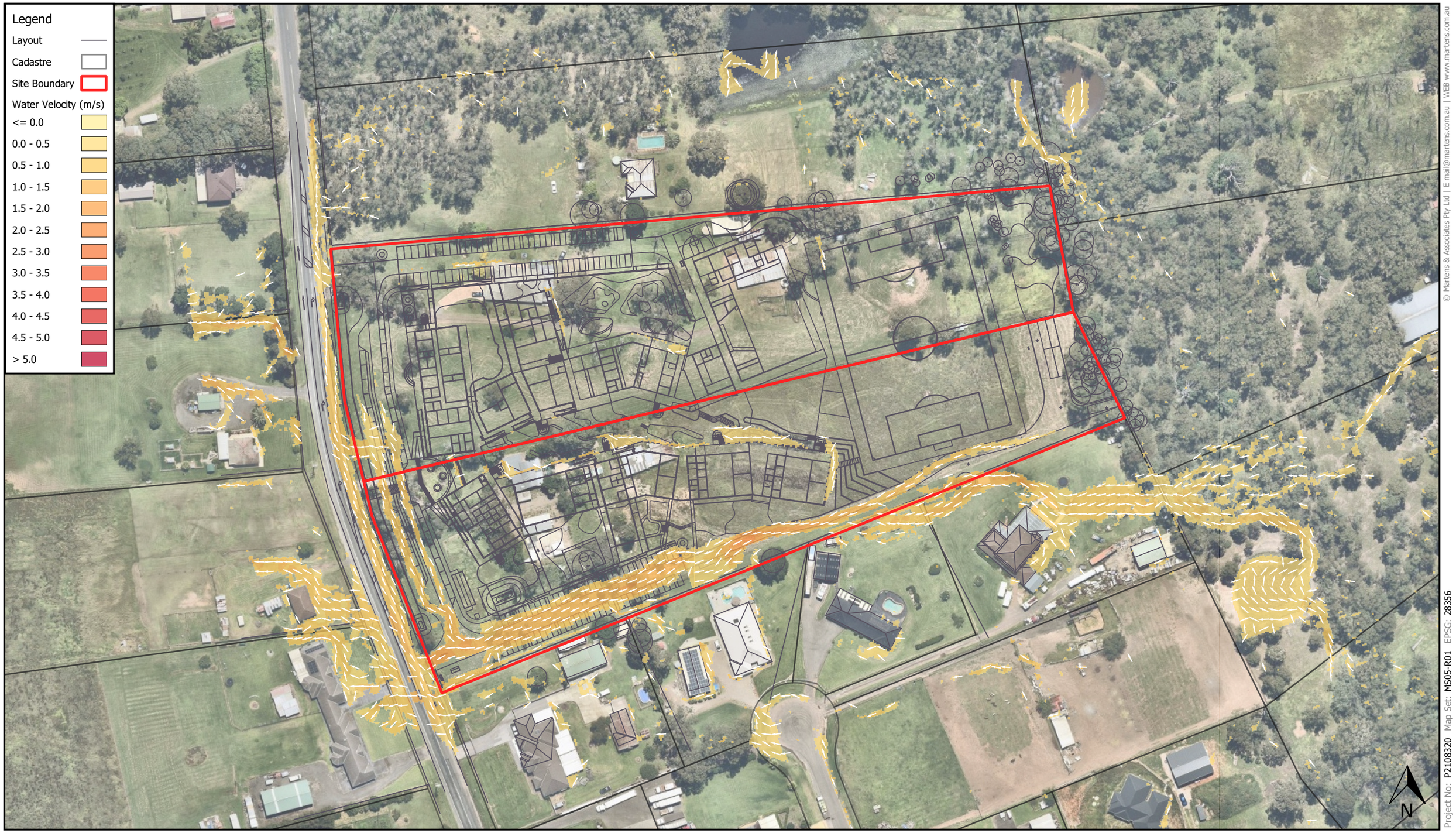
Map Title / Figure:

1% AEP Critical Storm Duration
Proposed Condition Water Level (mAHD) & Water Depth

Map 05	Map
268 & 278 Catherine Fields Road, Catherine Fields, NSW	Site
Minarah College – Catherine Field	Project
Preliminary Overland Flow Assessment	Sub-Project
Minarah College	Client
14/04/2022	Date

martens
Environment | Water | Geotechnics | Civil | Projects

Project No: P2108320 Map Set: MS05-R01 EPSG: 28356



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1:1500 @ A3

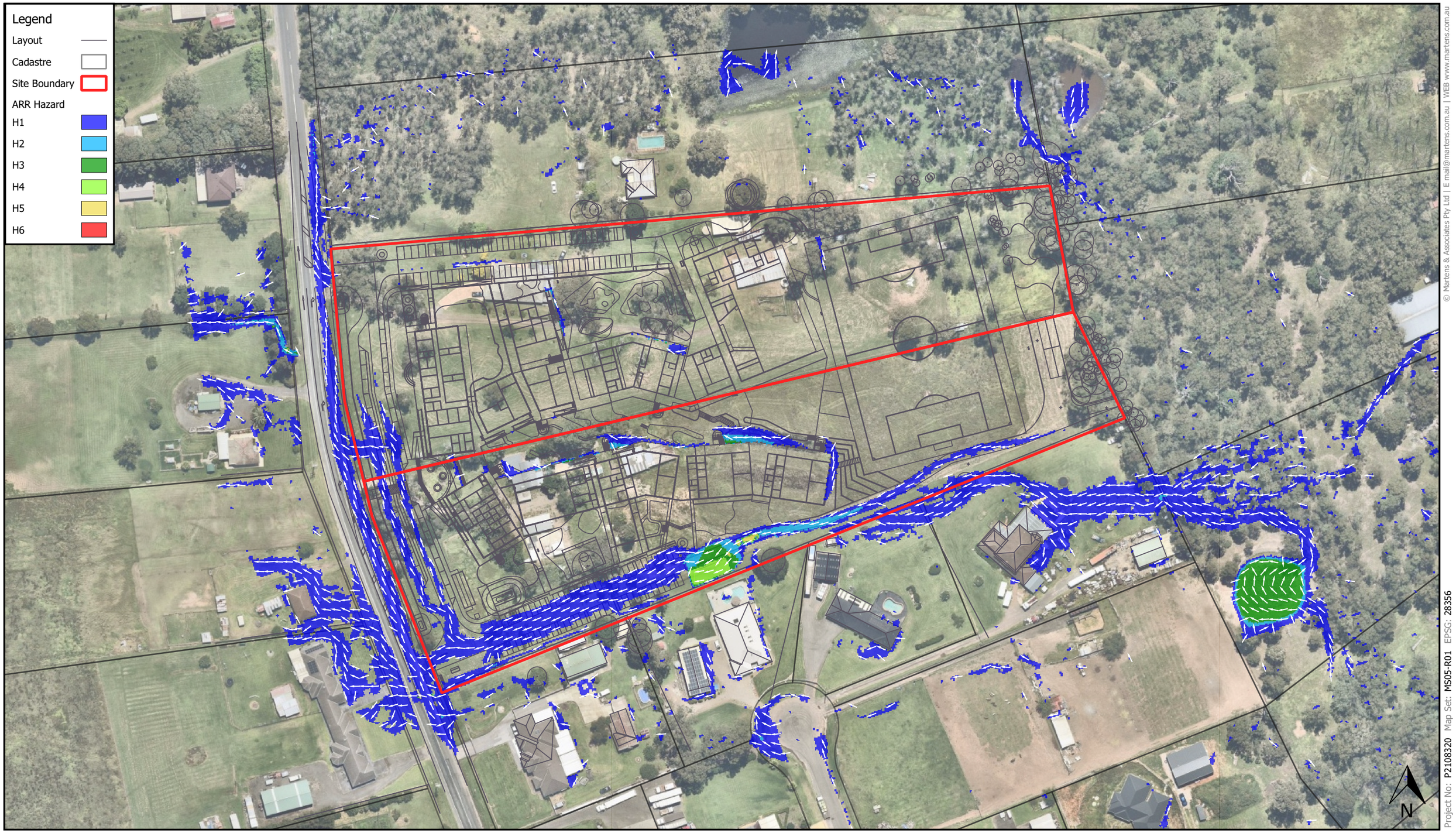
Project No: P2108320 Map Set: MS05-R01 EPSG: 28356

Map Title / Figure:

1% AEP Critical Storm Duration Proposed Condition Water Velocity (m/s)

Map 06	Map
268 & 278 Catherine Fields Road, Catherine Fields, NSW	Site
Minarah College – Catherine Field	Project
Preliminary Overland Flow Assessment	Sub-Project
Minarah College	Client
14/04/2022	Date

martens
Environment | Water | Geotechnics | Civil | Projects



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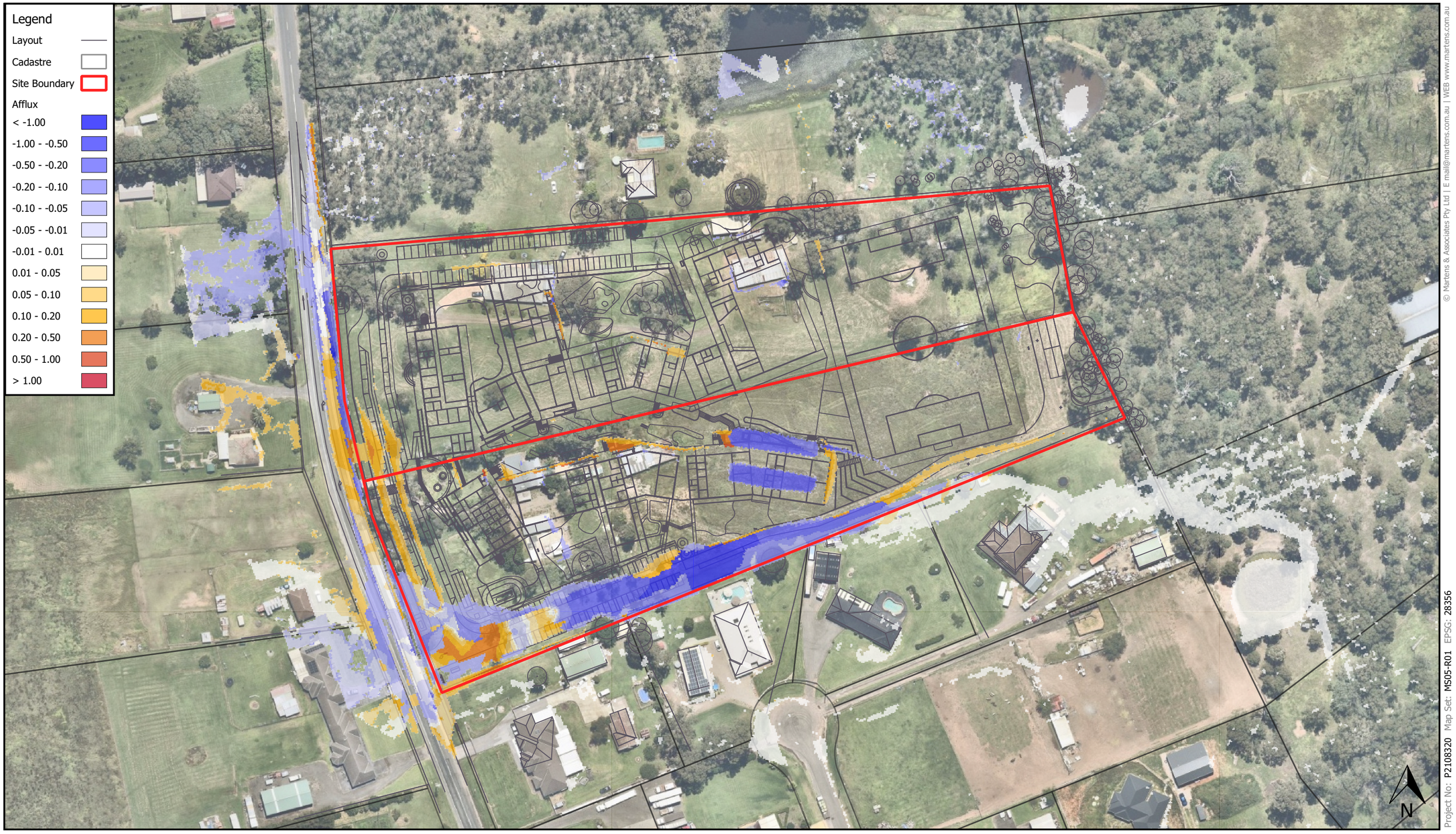
Map Title / Figure:

1% AEP Critical Storm Duration
Proposed Condition Provisional ARR Flood Hazard Categories

Map 07	Map
268 & 278 Catherine Fields Road, Catherine Fields, NSW	Site
Minarah College – Catherine Field	Project
Preliminary Overland Flow Assessment	Sub-Project
Minarah College	Client
14/04/2022	Date

martens
Environment | Water | Geotechnics | Civil | Projects

Project No: P2108320 Map Set: MS05-R01 EPSG: 28356



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1:1500 @ A3

Project No: P2108320 Map Set: MS05-R01 EPSG: 28356

Map Title / Figure:

1% AEP Afflux (To Approved Surface)

Map 08	Map
268 & 278 Catherine Fields Road, Catherine Fields, NSW	Site
Minarah College – Catherine Field	Project
Preliminary Overland Flow Assessment	Sub-Project
Minarah College	Client
14/04/2022	Date

martens
Environment | Water | Geotechnics | Civil | Projects