



Locality Plan

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**Planning,
Industry &
Environment**

Property and Development NSW
(PDNSW)
4 Parramatta Square
12 Darcy Street
Parramatta NSW 2150

Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works

Planning Proposal Drawings

405675-MMD-00-XX-DR-C-0001 REV: P5

Date: 09/07/2021

General Notes

GN1	All work to be carried out in accordance with Cumberland Council's standards and to the requirements of Council.
GN2	No work to be carried out on adjoining properties without written permission of property owner or responsible authority.
GN3	No trees are to be removed except for those noted on plan without written permission from Council.
GN4	All workmanship and materials shall comply with the National Construction Code of Australia and the relevant current Australian Standards.
GN5	Any discrepancies, omissions or errors shall be reported to the Superintendent for clarification before proceeding with the work.
GN6	Do NOT scale measurements from the drawings.
GN7	All compaction works for footpaths and pavements shall be done without the use of any form of vibrating machines or plant.

Existing Services Notes

ES1	Existing services have been plotted from supplied data and as such their accuracy cannot be guaranteed. It is the responsibility of the contractor to establish the location and level of all existing services prior to the commencement of any work. Any discrepancies shall be reported to the superintendent.
ES2	The contractor shall cap off all redundant existing services unless directed otherwise by the superintendent in accordance with the requirements of the relevant service authority and of the superintendent.
ES3	The contractor shall ensure that at all times services to all buildings not affected by the works are not disrupted.
ES4	If required, the contractor shall construct temporary services to maintain existing supply to buildings remaining in operation during works to the satisfaction of the superintendent. Once diversion is complete and commissioned the contractor shall remove all such temporary services and make good to the satisfaction of the superintendent and the relevant service authority.
ES5	Prior to commencement of any works the Contractor shall gain approval of his programme for the relocation/construction of temporary services.
ES6	Interruption to supply of existing services shall be done so as not to cause any inconvenience to the relevant parties. The contractor is to gain approval from the relevant service authority and the superintendent for time of interruption - and the contractor is responsible for all liaison with the relevant stakeholders.
ES7	All branch gas and water services under driveways and brick paving shall be located in Ø80mm uPVC sewer grade conduits extending a minimum of 500mm beyond the edge of paving.
ES8	Clearance and cover requirements shall be obtained from the relevant service authority before commencement of works and shall be adhered to at all times.
ES9	Care is to be taken when excavating near existing services. No mechanical excavations are to be undertaken over telecom or electrical services. Hand excavate in these areas only.

Stormwater Notes

SW1 For residential subdivisions and public roads -

All Ø375mm to Ø600mm drainage pipes shall be class 2 approved spigot and socket reinforced concrete pipes with rubber ring joints (UNO). All Ø675mm or larger drainage pipes shall be class 3 approved spigot and socket reinforced concrete pipes with rubber ring joints (UNO).

All uPVC drainage pipes in footways or accessways shall be DWV grade class SN8 in accordance with AS/NZS 1260:2009 - PVC-u pipes and fittings for drain, waste and vent application. heavy duty uPVC pipes to be in accordance with AS/NZS 1254 : 2010 - PVC pipes and fittings for storm and surface water applications may be used within allotments.

SW2 Equivalent strength fibrous reinforced concrete (F.R.C.) and / or High density polyethylene (H.D.P.E.) may be used subject to approval by the superintendent.

SW3 All pipe junctions up to and including Ø450mm and tapers, will be via purpose made fittings (UNO).

SW4 Minimum grade to stormwater lines to be 1% (UNO).

SW5 Contractor to supply and install all fittings and specials including various pipe adaptors to ensure proper connection between dissimilar pipework.

SW6 All connections to existing drainage pits shall be made in a tradesman-like manner and the internal wall of the pit at the point of entry shall be cement rendered to ensure a smooth finish with no protrusions.

SW7 All in-situ concrete pits to be 32Mpa minimum at 28 days.

SW8 Pits and pipes in areas of salinity hazard shall have increased cover to any reinforcement.

SW9 Precast concrete pits may be installed in lieu of cast in-situ pits, when pipe junctions are accommodated within the overall dimensions of the pit, and approved by the superintendent.

SW10 Pits deeper than 1000mm shall have step irons installed in accordance with the local or statutory authority requirements.

SW11 Bedding shall be type H2 (UNO) for pipes not under pavements, and type HS2 for pipes under pavements in accordance with AS/NZS 3725 : 2007 - design for installation of buried concrete pipes.

SW12 Backfill trench with sand or approved granular backfill to 300mm (min) above the pipe. Where the pipe is under pavements backfill remainder of trench to pavement subgrade with sand or approved gravel sub-base compacted in 150mm layers to 98% standard maximum dry density. The contractor is to ensure compaction equipment is appropriate for the pipe class used.

SW13 Where stormwater lines pass under floor slabs DWV grade uPVC rubber ring joints are to be used (UNO).

SW14 Where subsoil drainage lines pass under floor slabs and vehicular pavements, unslotted uPVC DWV grade class SN8 pipe shall be used.

SW15 Provide 3m length of Ø100mm subsoil drainage line or 200 "Nylux" strip drain surrounded with 150mm of 20mm blue metal or gravel, and wrapped in "Bidum" A24 geotextile filter fabric or approved equivalent, at invert of incoming upstream pipe on each pit.

Concrete Notes

General

CN1 Use "AS3972 - 2010 - General purpose and blended cements - Type GP" cement (UNO).

CN2 All concrete shall be subject to project control sample and testing to AS3600 - 2009 - concrete structures.

CN3 Consolidate all concrete, including footings and slabs on ground with mechanical vibrators.

CN4 Cure all concrete as follows -

- keep surfaces continuously wet for 3 days, then
- prevent moisture loss for the next 4 days using polythene sheeting or wet hessian protected from wind and traffic, and then allow drying out.
- curing compounds may be used provided that they comply with AS3799 and they do not affect floor finishes.
- PVA-based curing compounds are NOT acceptable.

CN5 Fix reinforcement as shown on drawings. The type and grade is indicated by a symbol as shown below -

N	hot rolled deformed bar, grade 500
R	plain round bar, grade 250
SL / RL	hard drawn wire fabric square or rectangular

following this symbol a numeral indicates the specified diameter.

CN6 Provide bar supports or spacers to provide concrete cover as detailed to all reinforcement.

Concrete Pavements

CN7 Concrete mix parameters -

- maximum aggregate size 20mm
- flexural strength at 28 days = 3.5 MPa, $F'c = 32$ MPa, (UNO)
- flexural strength at 90 days = 3.85 MPa
- max water/cement ratio = 0.55
- max shrinkage limit = 650 micron strains (AS1012.13-1992)
- min cement content = 300kg/m³
- cement to be type "SL" (normal cement) to AS3972-2010
- slump = 80mm

CN8 Early age saw cutting ("softcut") or similar shall be used for initial saw cut. It is to be performed as soon as the concrete has hardened sufficiently, to prevent excessive chipping, spalling, or tearing regardless of time or weather conditions.

CN9 Joint layout shall be as detailed on the plans.

CN10 Provide 10mm wide expansion joints between all buildings, other structures and pavements.

CN11 Bond breaker to be two (2) uniform coats of bitumen emulsion all over the exposed surface and on end.

CN12 Dowels and tie bars to meet strength requirements of structural grade steel in accordance with AS ISO 1302 - 2005 - geometrical product specifications.
Dowels and tie bars shall be -

- straight,
- to length specified,
- all dowels to be hot dip galvanised,
- sawn to length not cropped.

CN13 Dimensions of sealant reservoir dependant on the sealant type adopted. Superintendent approval to be obtained for sealant and reservoir dimensions and detail proposed by the contractor.
Refer to plans for typical arrangement and sealant.

CN14 Prior to the placement of concrete in the adjacent slab, 'Ableflex' filler shall be adhered to the already cast and cleaned concrete face using an approved waterproof adhesive. Adhesive shall be liberally applied to the full face of the concrete slab to be covered by the filler, and on the full face of the filler to be adhered.

CN15 The base course shall be kept moist (not wet) by sprinkling with water immediately prior to pouring the concrete.

CN16 All work to be finished to satisfy its intended use as shown on the plans, and / or in accordance with the specification.

Kerbing Notes

CN17 All concrete kerbs to have a minimum characteristic compressive strength $F'c = 25$ MPa (UNO).

CN18 All kerbs, dish drains, etc. to be constructed on 75mm minimum base course (UNO on the Drawings)

CN19 Kerb expansion joints shall be formed from 10mm 'Ableflex' (or approved equivalent) for the full depth of the section.

CN20 Expansion joints shall be located at drainage pits, tangent points of curves and elsewhere at 12m maximum spacing (UNO).

CN21 Tooled joints shall be min 3mm wide and located at maximum 3m spacing.

CN22 Integral kerb joints shall match the location of the pavement jointing.

Linemarking Notes

- LM1 All linemarking works to be in accordance with either the current Australian standard AS1742.2-2009-Manual Uniform Traffic Control Devices, or as shown on the plans or as directed by the superintendent.
- LM2 The scope of work shall include all pavement markings to roads and carparks.
- LM3 The work carried out and testing performed shall comply with the current, relevant Australian standards and RMS standards where necessary.
- LM4 All markings shall be spotted out and verified by the contractors representative prior to application.
- LM5 Paint shall be applied at a wet thickness of between 0.35mm - 0.45mm.
- LM6 Paint shall only be applied to clean and dry surfaces.
- LM7 All longitudinal lines shall be applied by a self-propelled machine.
- LM8 Linemarking removal shall be carried out by grinding or sandblasting. Removal by burning will not be permitted.
- LM9 The extent of linemarking to be eradicated shall be confirmed on site prior to removal. Any markings incorrectly removed shall be reinstated at the contractor's expense.
- LM10 All markings shall be completed in a workmanlike manner and be straight, smooth and with even curves. Any non-conforming work, shall be removed and reinstated at the direction of the superintendent at the contractor's expense.
- LM11 Linemarking on AC pavements to be provided no sooner than 7-10 days once the asphalt has set.

Siteworks Notes

SN1	Datum : Australian Height Datum (AHD) Origin of levels : S.S.M.118773 Origin of co-ordinates : R.L. 34.634 A.H.D. Survey prepared by : Rygate & Company Pty Ltd Suite 904 Level 9, 89 York St Sydney NSW 2000
SN2	The contractor must verify all dimensions and existing levels on site prior to commencement of work, and report any discrepancies to the superintendent.
SN3	All existing services (including any not shown on the plans) must be accurately located in position and level prior to any excavation. Any discrepancies shall be reported to the superintendent. minimum service clearances shall be maintained from the relevant service authority.
SN4	The contractor shall arrange for all setting out by a registered surveyor.
SN5	It is the contractors responsibility to notify the Department of Land and Property Information NSW, of any survey marks that will be destroyed in the construction of works. Contact Head Office on 1300 052 637 www.lpi.nsw.gov.au and http://scims.lpi.nsw.gov.au/status_report_frames.html
SN6	The contractor shall obtain all regulatory authority approvals at their own expense.
SN7	Where new works about existing, the contractor must ensure that a smooth and even profile, free from abrupt changes is obtained.
SN8	All disturbed areas shall be restored to their original condition, unless specified otherwise.
SN9	Excavated trenches shall be compacted to the same density as the adjacent natural material. Any subsidence during the period to be rectified as directed by the superintendent.
SN10	Any existing trees which form part of the final landscaping plan will be protected from construction activities in accordance with the landscape architect's details and / or by - Protecting them with barrier fencing or similar materials installed outside the drip line ensuring that nothing is nailed to them, prohibiting paving, grading, sediment wash or placing of stockpiles within the drip line except under the following conditions - Encroachment only occurs on one side and no closer to the trunk than either 1.5m or half the distance between the outer edge of the drip line and the trunk, which ever is the greater, a drainage system that allows air and water to circulate through the root zone (eg a gravel bed) is placed under all fill layers of more than 300mm care is taken not to cut roots unnecessarily nor to compact the soil around them.
SN11	Receptors for concrete and mortar slurries, paints, acid washings, light-weight waste materials and litter are to be emptied as necessary and disposal off-site to a lawful point of disposal.

Earthworks Notes

EW1 All work shall comply with AS3798 (2007) - Guidelines on earthworks for commercial and residential developments.

EW2 All work shall comply with the project geotechnical report.

EW3 Strip topsoil to expose naturally occurring engineering material and stockpile on site for reuse.

EW4 All soft, wet or unsuitable material to be removed and replaced with approved fill material.

EW5 All fill material shall comply with the following -

- a) free from organic and perishable matter,
- b) maximum particle size 75mm,
- c) plasticity index - between 2% and 15%.

EW6 All fill material shall be placed in maximum 200mm thick layers and compacted at optimum moisture content (+ or - 2%) to achieve a dry density determined in accordance with AS1289.5.1.1 - 2003 - methods of testing soils for engineering purposes of not less than the following standard minimum dry density -

<u>location</u>	<u>standard dry density</u>
under building slabs	98%
vehicular paved areas	100%
non-vehicular paved areas	98%
landscaped areas	95%

EW7 The contractor shall program the earthworks operation so that the working areas are adequately drained during the period of construction. The surface shall be graded and sealed off to remove depressions, roller marks and similar which would allow water to pond and penetrate the underlying material. any damage resulting from the contractor not observing these requirements shall be rectified by the contractor at their own expense.

EW8 Testing of the fill material shall be carried out by an approved NATA registered laboratory at the contractors expense.

EW9 Where the subgrade is unable to support construction equipment, or it is not possible to compact overlying pavement layers, only because of the subgrade moisture content, then the contractor shall condition or replace the material at the contractors discretion and expense.

EW10 Earthworks calculations are volumetric only and do not allow for bulking of excavated material. It is the contractors responsibility to make allowances for these items as part of the tender / works.

EW11 No allowances has been made for footings or foundations, retaining walls or trenching. It is the contractors responsibility to make allowances for these items as part of the tender / works.

Survey Legend	
	Existing boundary, bearing and distance
	Existing road name
	Existing building
	Existing kerb and spot levels
	Existing block wall
	Existing fence
	Existing spot level
	Existing earth batter
	Existing tree, level, trunk diameter, height and spread
	Existing electricity (underground)
	Existing electricity (overhead)
	Existing gas
	Existing sewer
	Existing stormwater drainage
	Existing water
	Existing telecommunications (underground)
	Existing telstra and power
	Existing electricity pit, pole, pole with light and light pole
	Existing gas valve
	Existing sewer pit and maintenance hole
	Existing stormwater grate, maintenance hole and pit
	Existing water hydrant, stop valve and valve
	Existing telecommunications pit and pillar
	Existing maintenance hole (unspecified)
	Existing pole (unspecified)
	Existing pit (unspecified)
	Existing traffic signal

Abbreviations Legend	
BM	BENCH MARK
C	CONCRETE
ELEC	ELECTRICITY KIOSK
GR	GRATE (PIT)
HYD	HYDRANT
KG	KERB AND GUTTER
KO	KERB ONLY
KOP	KERB OUTLET POINT
LNT	KERB INLET PIT LINTEL
LP	LIGHT POLE
PR	PRAM RAMP CROSSING
SIP	SEWER INSPECTION POINT
SMH	SEWER MANHOLE
SV	STOP VALVE
TEL	TELECOMMUNICATIONS PIT
TK	TOP KERB
VC	VEHICLE CROSSING
WM	WATER METER
5/0.3	TREE 5m SPREAD 0.3m TRUNK

Pavement Legend	
	Asphaltic Concrete Pavement To be confirmed during detailed design stage
	Concrete Footpath Pavement In accordance with Cumberland Council requirements
	Concrete Shared Path Pavement In accordance with Cumberland Council requirements
	Proposed Landscaping In accordance with landscape drawings
	Concrete Driveway Pavement In accordance with Cumberland Council requirements
All pavements are indicative only. To be confirmed on site by Geotechnical investigation, testing and design. All works in accordance with Geotechnical Engineers/Cumberland Council requirements	

Civil Works Legend	
	Road name / number
	Design control line and chainage
	Sawcut existing pavement
	Construct kerb and gutter in accordance with Cumberland Council Standard Drawings
	Construct kerb only in accordance with Cumberland Council Standard Drawings
	Construct dish drain in accordance with Cumberland Council Standard Drawings
	Construct vehicle crossing in accordance with Cumberland Council Standard Drawings
	Construct kerb pram ramp in accordance with Cumberland Council Standard Drawings
	Construct batter
	Construct retaining wall (Location and extent indicative only).
	Proposed finished surface level
	Major contour
	Minor contour

Stormwater Drainage Legend	
	Stormwater drainage structure / pit number.
	Surface inlet pit/Junction pit
	Kerb inlet pit with lintel
	Proposed stormwater drainage line with pipe size
	Construct headwall outlet
	Proposed temporary stormwater drainage line with pipe size
	Construct temporary headwall outlet
	Temporary surface inlet pit/Junction pit
	Construct stormwater detention basin. Details to be confirmed in the detailed design stage.
	Provide outlet scour protection.
	Construct subsoil drainage line
	Construct subsoil intermediate riser
	Construct subsoil high end riser
	Existing stormwater
	Grassed lined swale

Sheet List Table	
Drawing Number	Drawing Title
405675-MMD-00-XX-DR-C-0001	Civil Works Cover Sheet
405675-MMD-00-XX-DR-C-0011	Civil Works General Notes Sheet
405675-MMD-00-XX-DR-C-0021	Civil Works Legends Sheet
405675-MMD-00-XX-DR-C-0051	Civil Works General Arrangement Plan
405675-MMD-00-XX-DR-C-0061	Civil Works Demolition Plan
405675-MMD-00-XX-DR-C-0101	Civil Works Soil and Water Management Plan
405675-MMD-00-XX-DR-C-0111	Civil Works Soil and Water Management Notes and Details Sheet
405675-MMD-00-XX-DR-C-0151	Civil Works Earthworks Cut and Fill Plan
405675-MMD-00-XX-DR-C-0161	Civil Works Earthworks Sections Sheet 1
405675-MMD-00-XX-DR-C-0162	Civil Works Earthworks Sections Sheet 2
405675-MMD-00-XX-DR-C-0201	Civil Works Alignment Control Plan
405675-MMD-00-XX-DR-C-0251	Civil Works Typical Road Cross Sections Sheet 1
405675-MMD-00-XX-DR-C-0252	Civil Works Typical Road Cross Sections Sheet 2
405675-MMD-00-XX-DR-C-0301	Civil Works Road Longitudinal Sections
405675-MMD-00-XX-DR-C-0401	Civil Works Siteworks Plan Sheet 1
405675-MMD-00-XX-DR-C-0402	Civil Works Siteworks Plan Sheet 2
405675-MMD-00-XX-DR-C-0403	Civil Works Siteworks Plan Sheet 3
405675-MMD-00-XX-DR-C-0404	Civil Works Siteworks Plan Sheet 4
TOTAL NUMBER OF SHEETS	18

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P5	09/07/2021	BS	Issued for Information	ADS	JW
P4	02/07/2021	BS	Issued for Information	ADS	JW
P3	18/06/2021	BS	Issued for Information	ADS	JW
P2	03/04/2020	ADS	ISSUED FOR DA SUBMISSION	ADS	JW
P1	24/01/2020	GAP	Issued for Information	AS	JW
Rev	Date	Drawn	Description	Ch'k'd	App'd



Level 10, 383 Kent Street
Sydney, NSW 2000
Australia
NSW 1230, Australia
PO Box Q1678, QVB Sydney
T +61 (0)2 9098 6800
W www.mottmac.com

Client



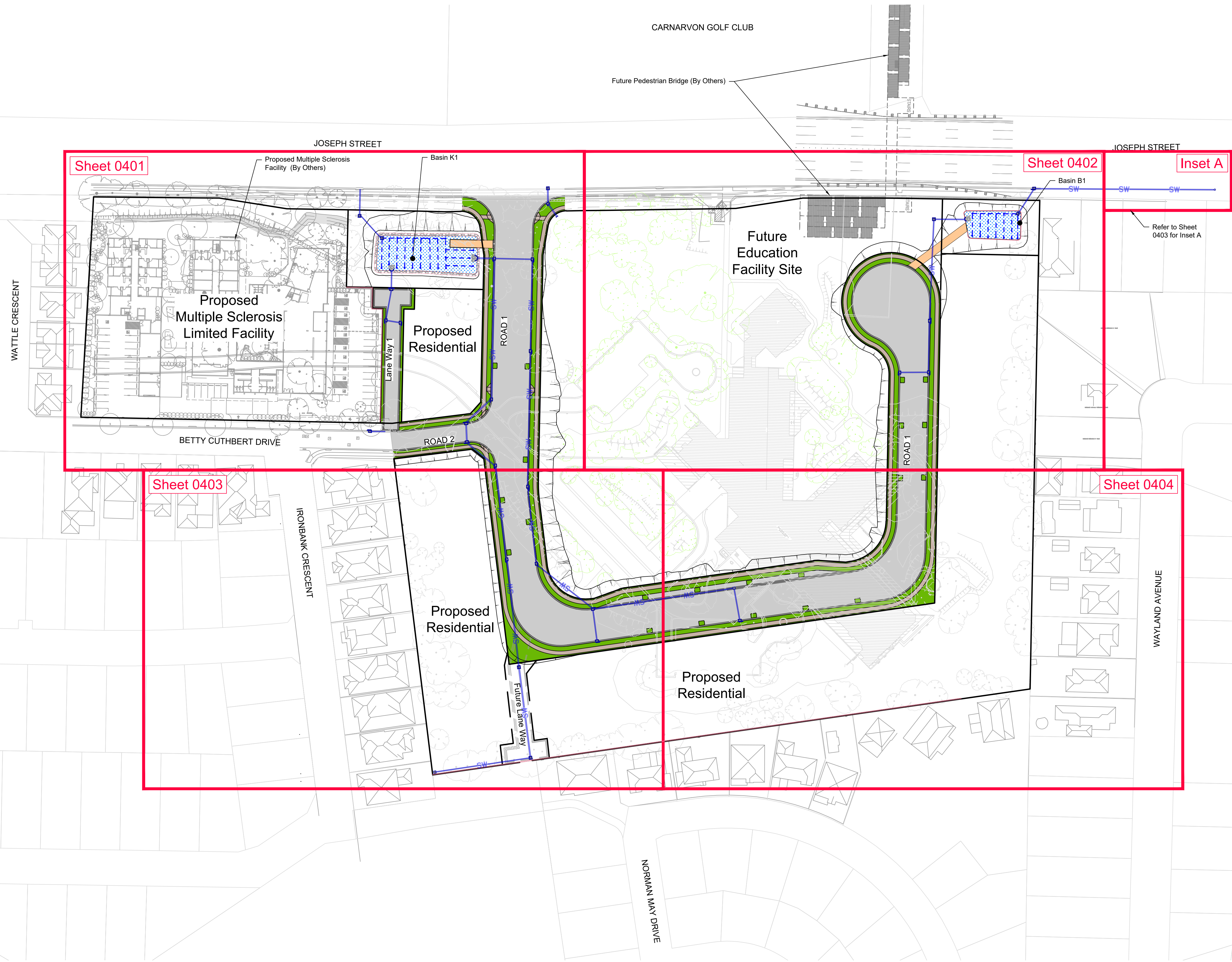
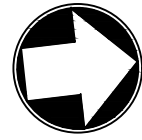
Planning,
Industry &
Environment

Title

Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
Legends Sheet

Designed	A.Singh	Eng check	B. Soo
Drawn	B.Sayasane	Coordination	T.Loder
Dwg check	A.Singh	Approved	J.Wukowic
Scale at A1	Status	Rev	Security
NTS	PRE	P5	STD
Drawing Number 405675-MMD-00-XX-DR-C-0021			

Preliminary - Not for Construction



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P3	18/06/2021	BS	Issued for Information	ADS	JW
P2	03/04/2020	ADS	ISSUED FOR DA SUBMISSION	ADS	JW
P1	24/01/2020	GAP	Issued for Information	AS	JW
Rev	Date	Drawn	Description	Ch'k'd	App'd

1:750 37.5m 75.0m



Level 10, 383 Kent Street
Sydney, NSW 2000
Australia
NSW 1230, Australia
PO Box Q1678, QVB Sydney
T +61 (0)2 9098 6800
W www.mottmac.com

Client



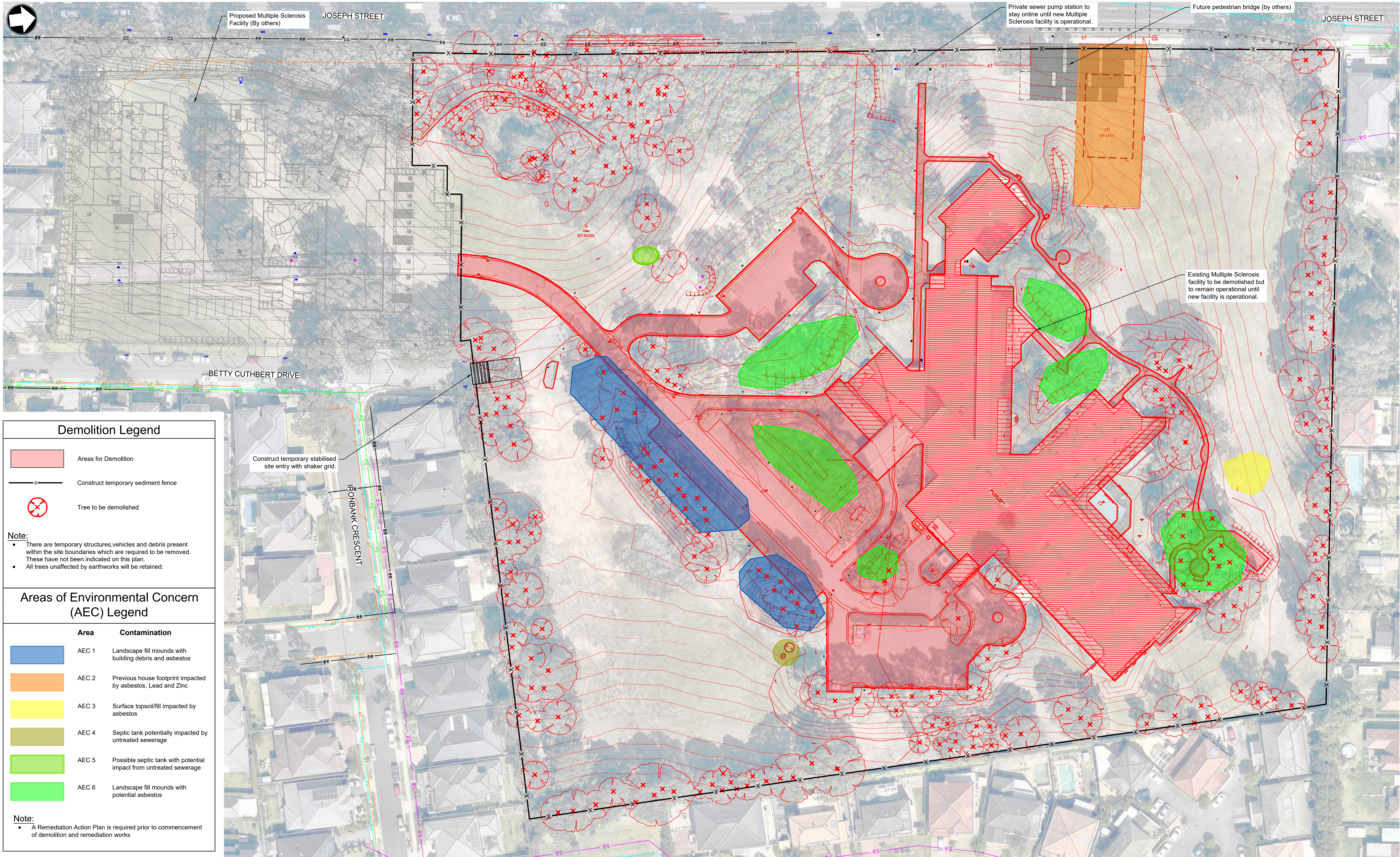
Planning,
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Title

Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
General Arrangement Plan

Designed	A.Singh	Eng check	B. Soo
Drawn	B.Sayasane	Coordination	T.Loder
Dwg check	A.Singh	Approved	J.Wukowic
Scale at A1	1:750	Status	PRE
		Rev	P5
		Security	STD
Drawing Number 405675-MMD-00-XX-DR-C-0051			

Preliminary - Not for Construction



Demolition Legend

- Areas for Demolition
- Construct temporary sediment fence
- Tree to be demolished

Note:

- There are temporary structures, vehicles and debris present within the site boundaries which are required to be removed. These have not been indicated on this plan.
- All trees unaffected by earthworks will be retained.

Areas of Environmental Concern (AEC) Legend

Area	Contamination
	AEC 1 Landscape fill mounds with building debris and asbestos
	AEC 2 Previous house footprint impacted by asbestos, Lead and Zinc
	AEC 3 Surface topsoil/fill impacted by asbestos
	AEC 4 Septic tank potentially impacted by untreated sewerage
	AEC 5 Possible septic tank with potential impact from untreated sewerage
	AEC 6 Landscape fill mounds with potential asbestos

Note:

- A Remediation Action Plan is required prior to commencement of demolition and remediation works

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P5	02/07/2021	BS	Issued for Information	ADS	JW
P4	18/06/2021	BS	Issued for Information	ADS	JW
P3	13/05/2020	SE	Issued for DA	ADS	JW
P2	03/04/2020	ADS	ISSUED FOR DA SUBMISSION	ADS	JW
P1	24/01/2020	GAP	Issued for Information	AS	JW
Rev	Date	Drawn	Description	Ch'k'd	App'd

1:500 0 25m 50m

M
MOTT
MACDONALD

Level 10, 383 Kent Street
Sydney, NSW 2000
Australia
NSW 1230, Australia
PO Box Q1678, QVB Sydney
T +61 (0)2 9098 6800
W www.mottmac.com

Client



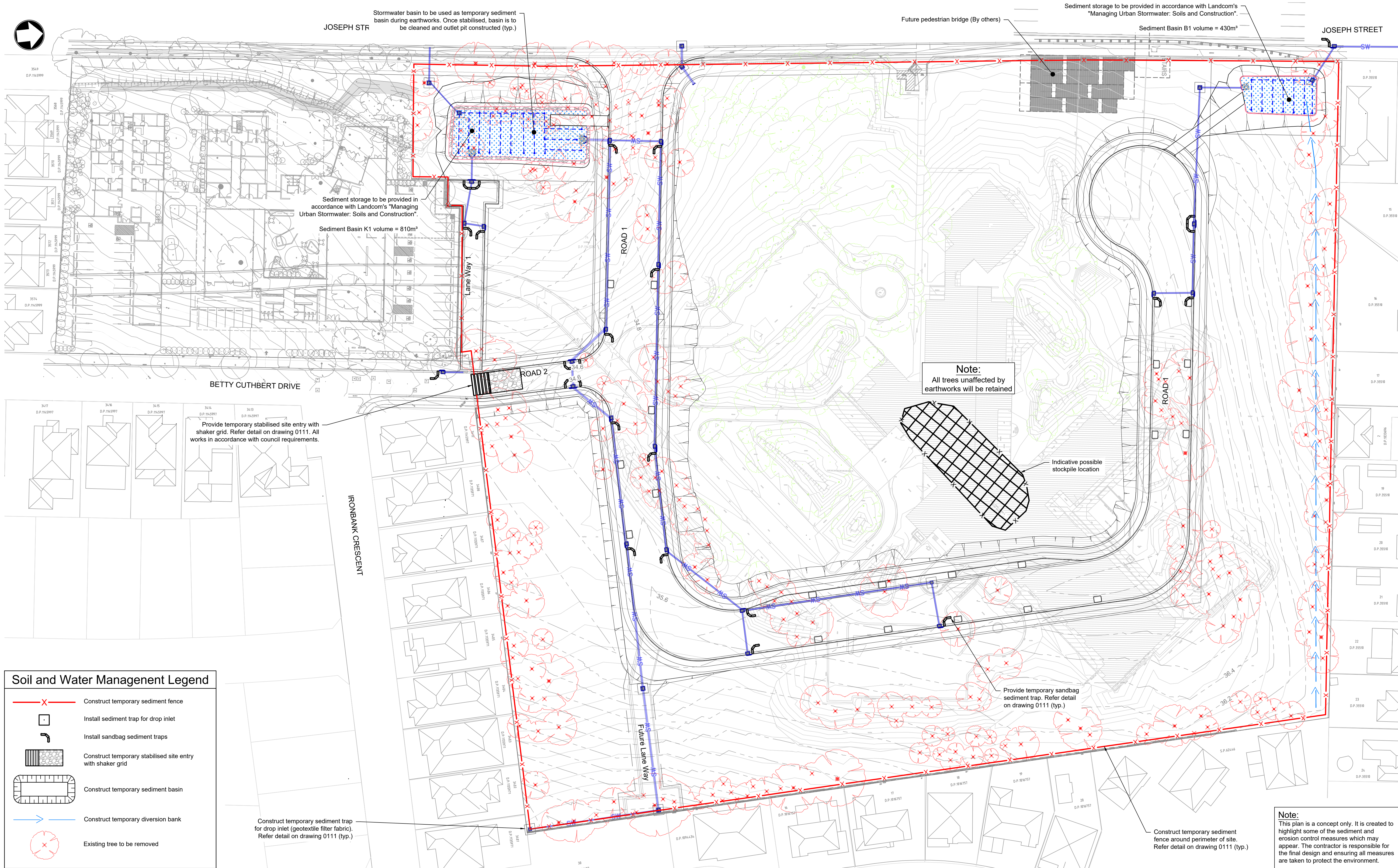
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Title

Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
Demolition Plan

Designed	A.Singh	Eng check	B. Soo
Drawn	B.Sayasane	Coordination	T.Loder
Dwg check	A.Singh	Approved	J.Wukowic
Scale at A1	Status	Rev	Security
1:500	PRE	P6	STD
Drawing Number 405675-MMD-00-XX-DR-C-0061			

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P2	03/04/2020	ADS	ISSUED FOR DA SUBMISSION	ADS	JW
P1	24/01/2020	GAP	Issued for Information	AS	JW
Rev	Date	Drawn	Description	Ch'k'd	App'd

1:500 0 25m 50m

M
MOTT
MACDONALD

Level 10, 383 Kent Street
Sydney, NSW 2000
Australia
NSW 1230, Australia
PO Box Q1678, QVB Sydney
T +61 (0)2 9098 6800
W www.mottmac.com

Client



**Planning,
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Environment**

Title

Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
Soil and Water Management Plan

Designed	A. Singh	Eng check	B. Soo
Drawn	B. Sayasane	Coordination	T. Loder
Dwg check	A. Singh	Approved	J. Wukowic
Scale at A1	Status	Rev	Security
1:500	PRE	P5	STD
Drawing Number 405675-MMD-00-XX-DR-C-0101			

Preliminary - Not for Construction

Note:
This plan is a concept only. It is created to highlight some of the sediment and erosion control measures which may appear. The contractor is responsible for the final design and ensuring all measures are taken to protect the environment.

Soil and Water Management Notes

General Instructions

SWM01 These plans present an indicative soil and water management plan (SWMP) only and are of a conceptual nature. The contractor shall be responsible for the establishment and management of the site and preparing a detailed plan and obtaining approval from the relevant authority prior to the commencement of any works.

SWM02 This plan is to be read in conjunction with the engineering plans and any other plans, written instructions, specification or documentation that may be issued and relating to development of the subject site.

SWM03 The contractor will ensure that all soil and water management works are consistent with 'Managing Urban Stormwater - Soils and Construction' - also known as 'The Blue Book'.

SWM04 All builders and sub-contractors shall be informed of their responsibilities in minimising the potential for soil erosion and pollution to downslope lands and waterways.

Erosion Control

SWM05 Water shall be prevented from entering the permanent drainage system until sediment concentration is less then or equal to 50mg/L, ie the catchment area has been permanently landscaped and / or any likely sediment has been filtered through an approved structure.

SWM06 Any sand used in the concrete curing process (spread over the surface) will be removed as soon as possible and within 10 working days from placement.

SWM07 Acceptable receptors will be constructed for concrete and mortar slurries, paints, acid washings, light-weight waste materials and litter.

SWM08 'Sediment' fencing will be installed as indicated on the plans and at the direction of site superintendent to ensure containment of sediment. The sediment fencing will outlet or overflow under stabilised conditions into the sediment basin, to safely convey water into a suitable filtering system should the pores in the fabric block.

SWM09 Stockpiles should not be located within 5m of trees and hazard areas, including likely areas of concentrated or high velocity flows such as waterways, drainage lines, paved areas and driveways. Where they are within 5m from such areas, special sediment control measures should be taken to minimise possible pollution to downstream waters. Measures should also be applied to prevent the erosion of the stockpile.

SWM10 All cut and fill batters are to be seeded and mulched within 14 days of completion of formation.

SWM11 Any existing trees which form part of the final landscaping plan will be protected from construction activities by-

- a. Protecting them with barrier fencing or similar materials installed outside the drip line.
- b. Ensuring that nothing is nailed to them.
- c. Prohibiting paving, grading, sediment wash or placing of stockpiles within the drip line except under the following conditions,
- (i) Encroachment only occurs on one side and no closer to the trunk than either 1.5 metres or half the distance between the outer edge of the drip line and the trunk, which ever is the greater,
- (ii) A drainage system that allows air and water to circulate through the root zone (e.g. a gravel bed) is placed under all fill layers of more than 300 millimetres depth
- (iii) Care is taken.

SWM12 During windy weather, large disturbed unprotected areas should be kept moist (not wet) by sprinkling with water to keep dust under control.

SWM13 Temporary protection from erosive forces will be undertaken on lands where final shaping has not been completed but works are unlikely to proceed for periods of two months or more (eg. on topsoil stockpiles). This may be achieved with a vegetative cover. A recommended listing of plant species for temporary cover is -

- i) autumn/winter sowing
 - oats/ryecorn at 20 kg/ha
 - japanese millet at 10 kg/ha
- ii) spring/summer sowing
 - japanese millet at 20 kg/ha
 - oats/ryecorn at 10 kg/ha

SWM14 Diversion banks / channels will be rehabilitated as soon as possible and within 5 working days from their final shaping. Other than in the winter months, suitable materials include turf grasses such as Couch or Kikuyu. During winter, or at other times when temporary rehabilitation (more than 3 months) is required, it is suggested that hessian cloth is used but only if laced with appropriate pegs and an anionic bitumen emulsion. Foot and vehicular traffic should be kept away from these areas.

SWM15 Undertake site development works in accordance with the engineering plans. Where possible, phase development so that land disturbance is confined to areas of workable size.

Construction Sequence

SWM16 Where practical, the soil erosion hazard on the site should be kept as low as possible. To this end, works should be undertaken in the FOLLOWING SEQUENCE -

- (i) Install inlet sediment traps to all gully pits fronting the site,
- (ii) Install a 1.8m chain wire fence around the boundaries and attach hessian cloth or similar to it on the windward side (ties at the top, centre and bottom and at 1m intervals or as instructed by the superintendent),
- (iii) Install geofabric sediment fence and sediment traps around all permanent stormwater reticulation structures as shown on the plan,
- (iv) Construct stabilised construction entrance as shown on the plan or to location as determined by superintendent,
- (v) Install diversion banks along the boundary where required, rehabilitate disturbed lands downslope from the basins within 20 working days,
- (vi) Ensure that the sediment basin is directed onto a turfed area and drains to a suitable location. A temporary stormwater line may be necessary to convey the flows to this location. Construct diversion channels at the boundary to drain into the sediment basin as shown on plans,
- (vii) At completion stabilise site and decommission sediment basin and all erosion control devices.

SWM17 Temporary soil and water management structures will be removed only after the lands they are protecting are rehabilitated.

SWM18 Final site landscaping will be undertaken as soon as possible and within 20 working days from completion of construction activities.

Site Inspection and Maintenance

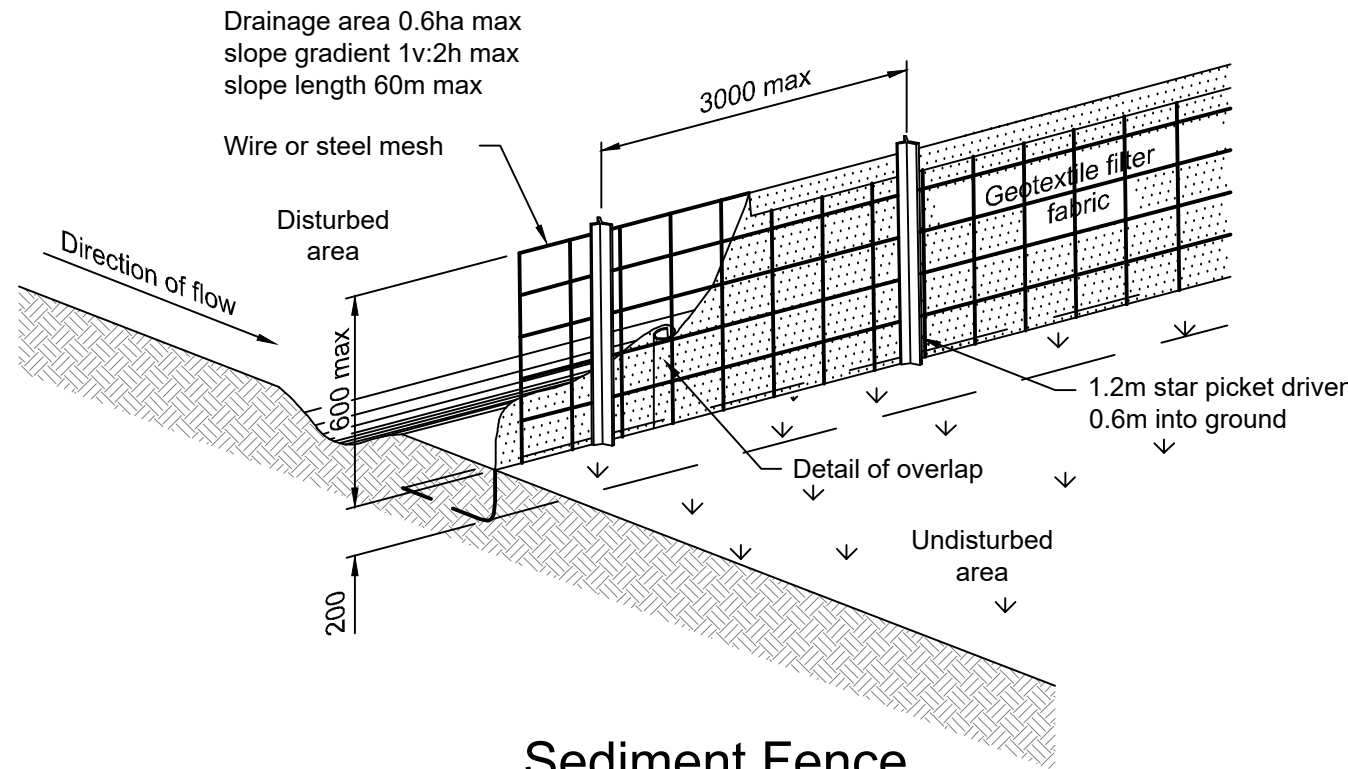
SWM19 At least weekly and after every rain fall event, the contractor will inspect the site and ensure that -

- (i) Drains and all sediment control devices operate effectively and initiate repair or maintenance as required,
- (ii) Receptors for concrete and mortar slurries, paints, acid washings, light-weight waste materials and litter are to be emptied as necessary. Disposal of waste shall be in a manor approved by the superintendent,
- (iii) Spilled sand (or other materials) is removed from hazard areas, including likely areas of concentrated or high velocity flows such as waterways, gutters, paved areas and driveways,
- (iv) Sediment is removed from basins and / or traps when less than 20m³ of trapping capacity remain per 1000m² of disturbed lands, and / or less than 500mm depth remains in the settling zone. Any collected sediment will be disposed in areas where further pollution to down slope lands and waterways is unlikely,
- (v) Rehabilitated lands have effectively reduced the erosion hazard and initiate upgrading or repair as appropriate.

SWM20 The contractor shall provide all monitoring control and testing.

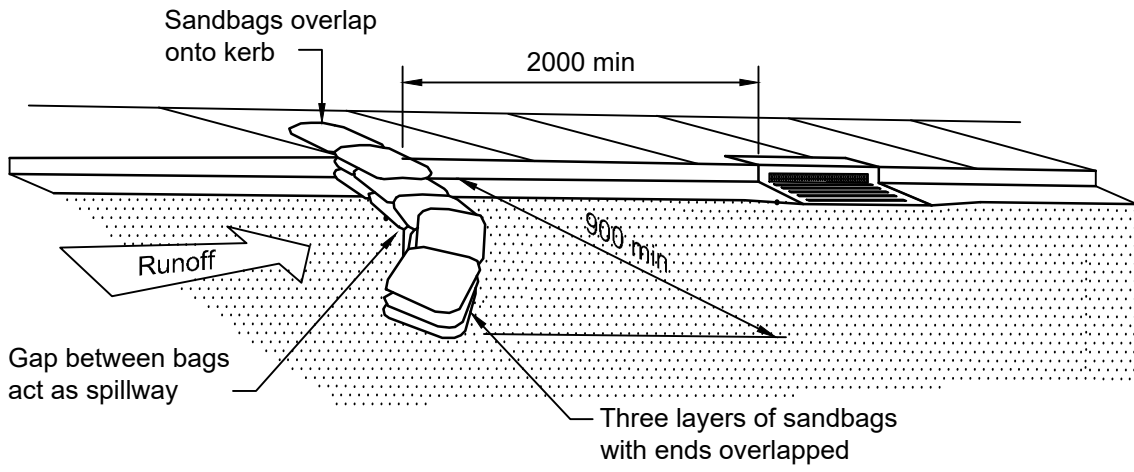
Note:

This plan is a concept only. It is created to highlight some of the sediment and erosion control measures which may appear. The contractor is responsible for the final design and ensuring all measures are taken to protect the environment.



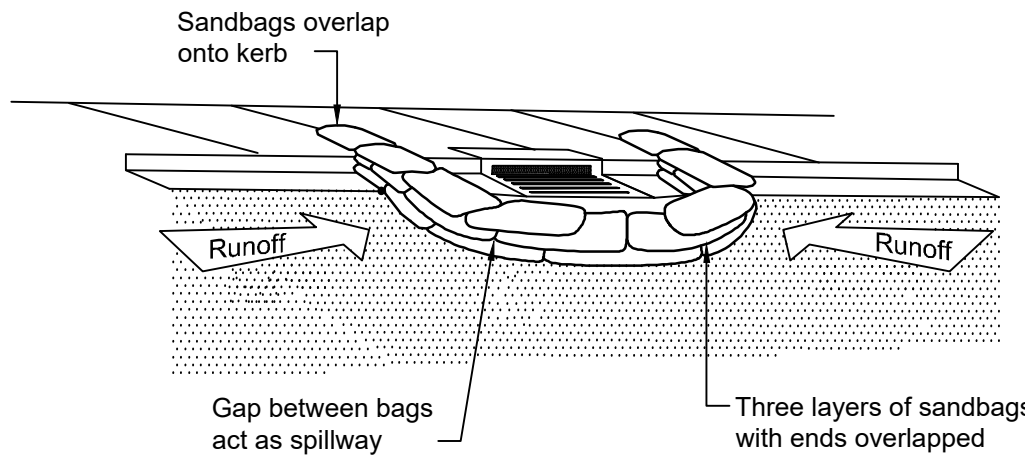
Sediment Fence (Geotextile Filter Fabric)

NTS



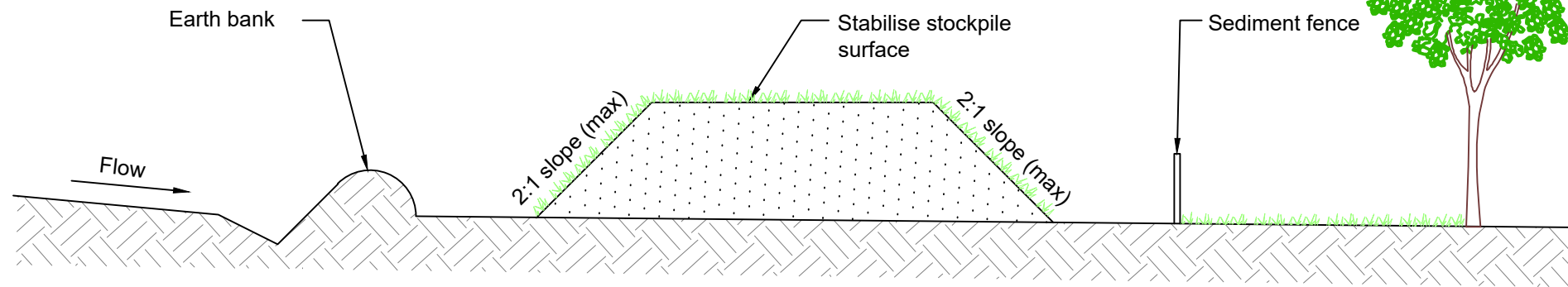
Sediment Trap for Kerb Inlet (On Grade - Sandbag)

NTS



Sediment Trap for Kerb Inlet (at Low Point - Sandbag)

NTS



Diversion bank (with channel)

NTS

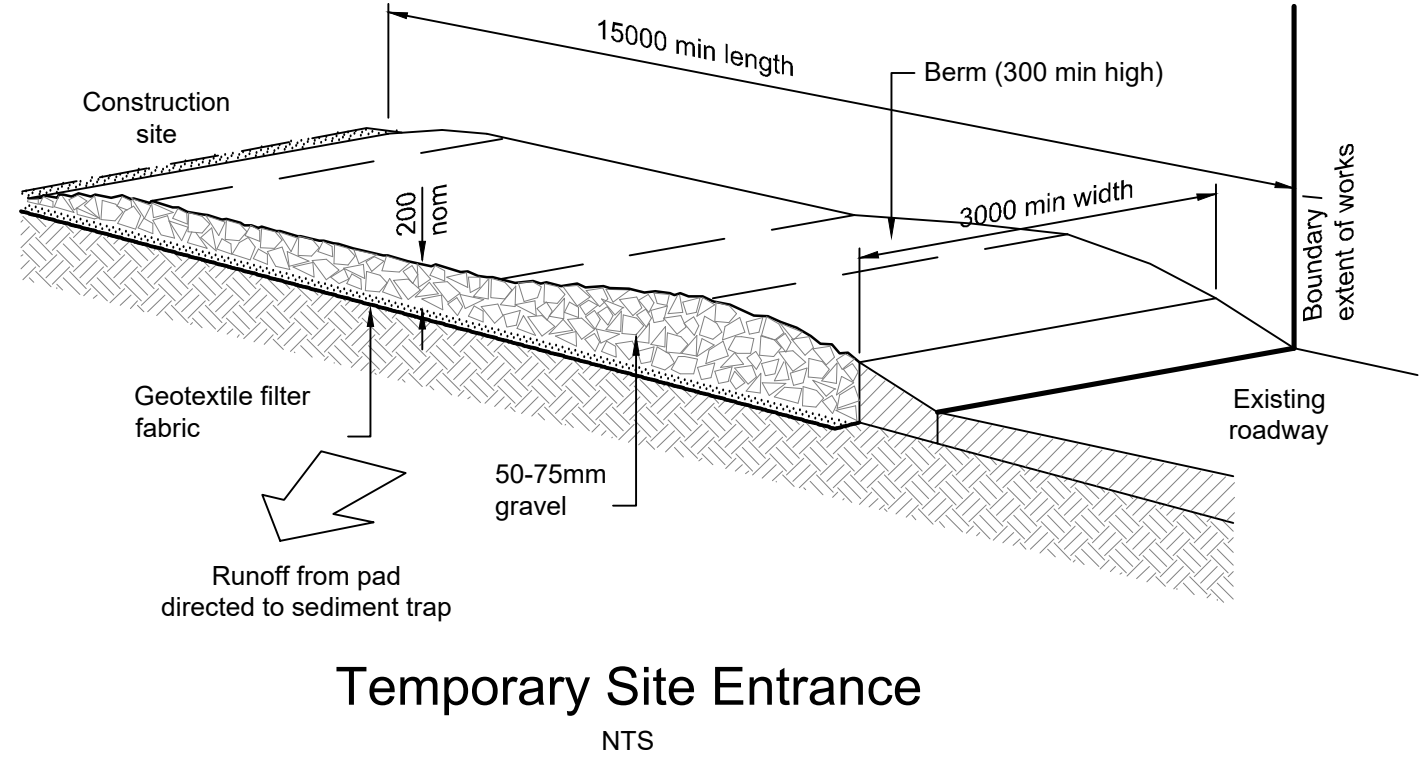
(For catchment of 2ha or less)

Construction Notes

1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds
3. Where there is sufficient area, topsoil stockpiles shall be less than 2m in height
4. Where there are to be in place for more than 10 days, stabilise following the approved escp or swmp to reduce the c-factor to less than 0.10
5. Construct earth banks (standard drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (standard drawing 6-8) 1m to 2m downslope

Stockpiles

NTS

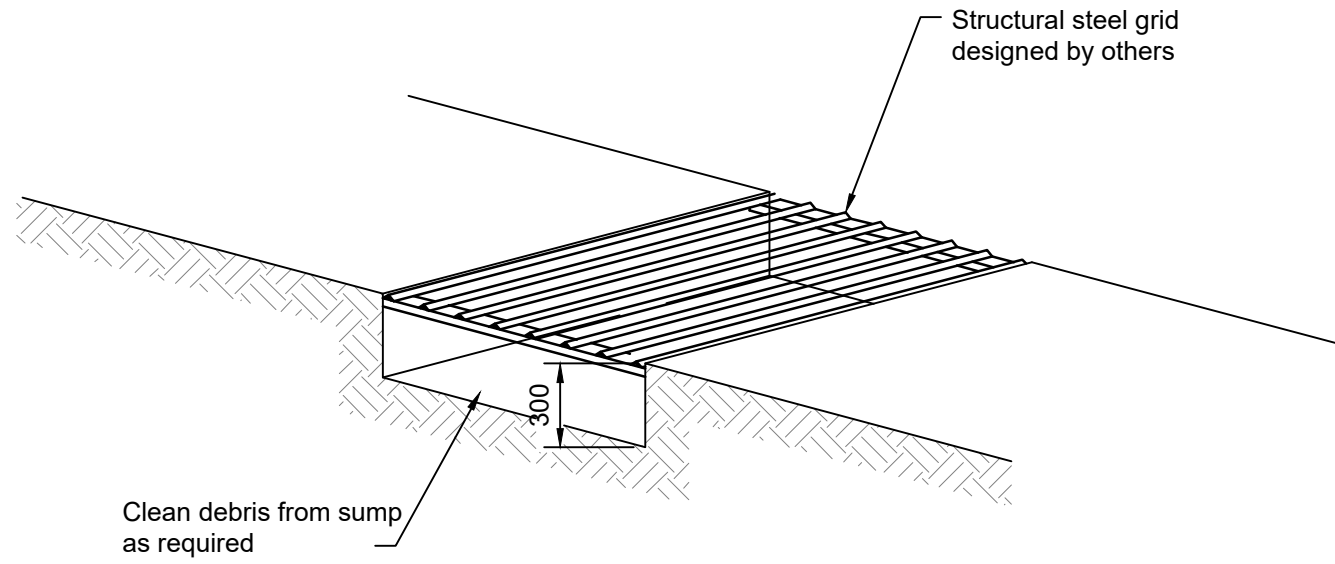


Temporary Site Entrance

NTS

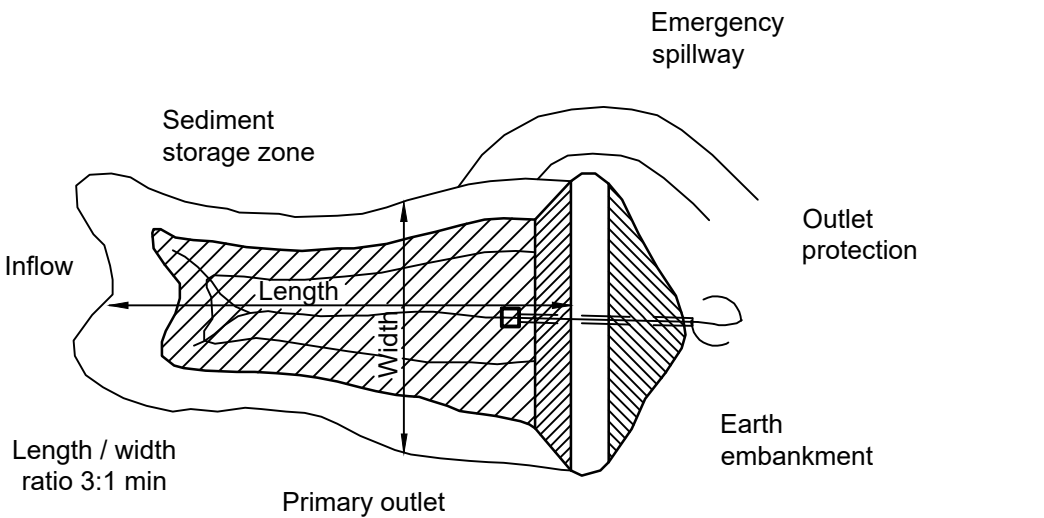
Maintenance

- The temporary access shall be maintained in a condition that prevents tracking or flowing of sediment onto public rights of way.
- This may require periodic top dressing with additional gravel as conditions demand and repair and/or cleanout of any measures used to trap sediment.
- All sediment spilled, dropped, washed or tracked onto public rights of way must be removed immediately.



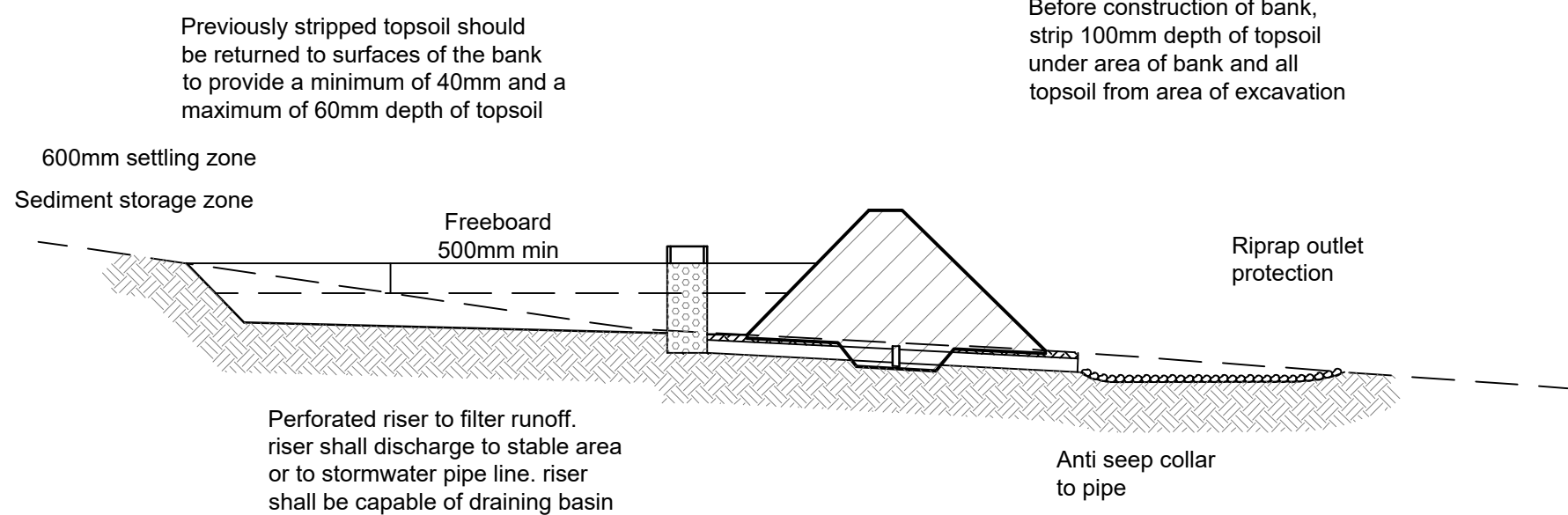
Shaker Pad

NTS



Sediment Basin (Typical) Plan - Type C Soils

NTS



Sediment Basin (Typical) Cross Section - Type C Soils

NTS

Preliminary - Not for Construction

Rev	Date	Drawn	Description	Ch'k'd	App'd
P5	09/07/2021	BS	Issued for Information	ADS	JW
P4	02/07/2021	BS	Issued for Information	ADS	JW
P3	18/06/2021	BS	Issued for Information	ADS	JW
P2	03/04/2020	ADS	ISSUED FOR DA SUBMISSION	ADS	JW
P1	24/01/2020	GAP	Issued for Information	AS	JW

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Sydney, NSW 2000
Australia
NSW 1230, Australia
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T +61 (0)2 9098 6800
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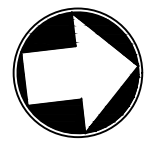


Planning,
Industry &
Environment

Title

Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
Soil and Water Management Notes
and Details Sheet

Designed	A.Singh	Eng check	B. Soo
Drawn	B.Sayasane	Coordination	T.Loder
Dwg check	A.Singh	Approved	J.Wukowic
Scale at A1	Status	Rev	Security
As Shown	PRE	P5	STD
Drawing Number 405675-MMD-00-XX-DR-C-0111			



JOSEPH STREET

2
0161

3
0162

4
0162

JOSEPH STREET

5
0161

5
0161

Proposed
Multiple Sclerosis
Limited Facility

Proposed
Residential

Future
Education
Facility Site

BETTY CUTHBERT DRIVE

ROAD 2

ROAD 1

Proposed
Residential

Proposed
Residential

Future Lane Way

IRONBANK CRESCENT

Depth Range Legend

	< -2.0m		0m to 0.2m
	-2.0m to -1.8m		0.2m to 0.4m
	-1.8m to -1.6m		0.4m to 0.6m
	-1.6m to -1.4m		0.6m to 0.8m
	-1.4m to -1.2m		0.8m to 1.0m
	-1.2m to -1.0m		1.0m to 1.2m
	-1.0m to -0.8m		1.2m to 1.4m
	-0.8m to -0.6m		1.4m to 1.6m
	-0.6m to -0.4m		1.6m to 1.8m
	-0.4m to -0.2m		1.8m to 2.0m
	-0.2m to 0m		> 2.0m

Earthworks Volumes

Approximate volumes

Total Cut = -14,381m³
Total Fill = +6,352m³
Balance = -8,028m³

Notes:

- The quantities on this plan are between bulk surface and existing survey
- Site benching has been based on the following assumptions:
-500mm for Local Roads
- No Allowance has been made for bioretention filter layer
- No Allowance has been made for topsoil stripping.
- No Allowance has been made for trenching
- No allowance has been made for retaining wall footings
- No allowance has been made for the dam filling

Notes:

Earthworks volumes are indicative only and are to be confirmed during detailed design stage.

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1:500 0 25m 50m

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Australia
NSW 1230, Australia
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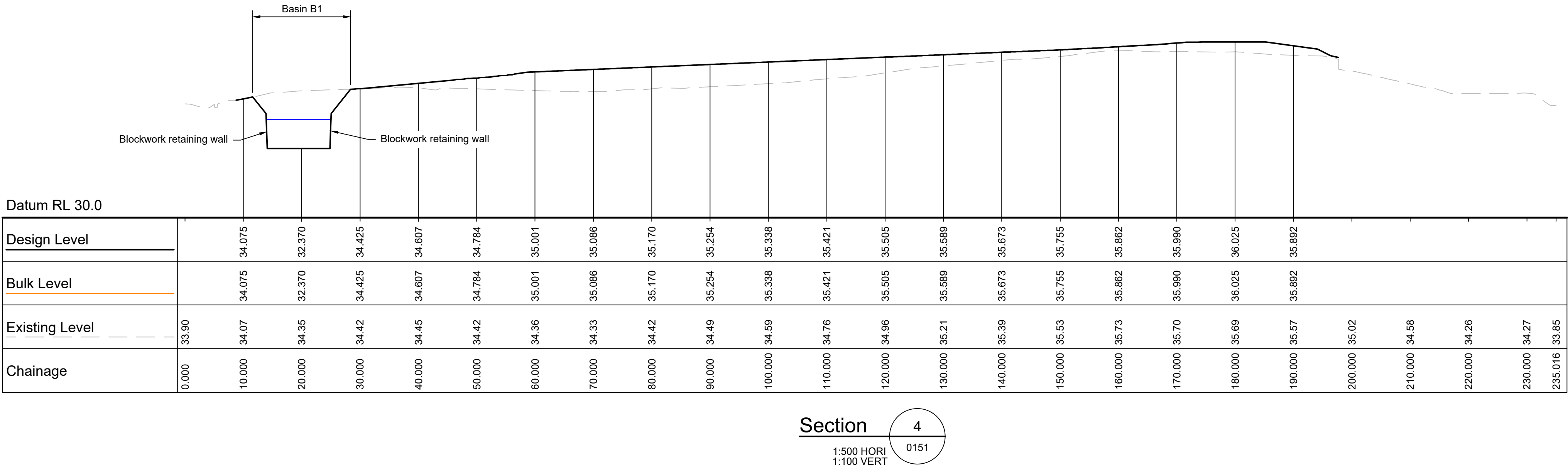
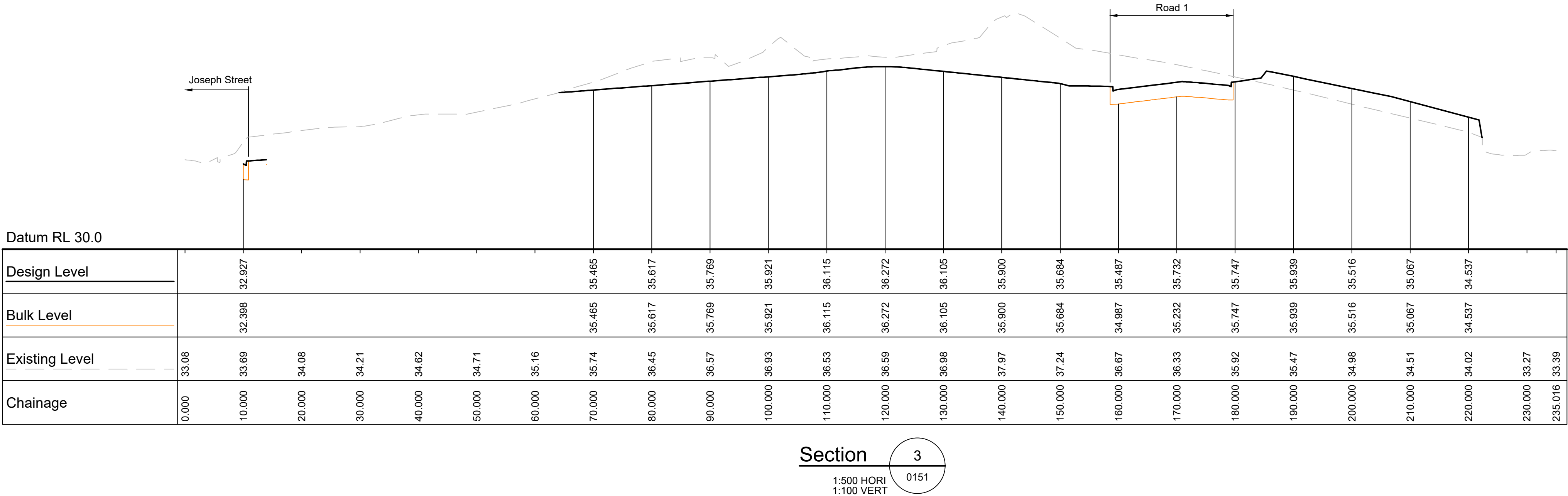
**Planning,
Industry &
Environment**

Title

Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
Earthworks Cut and Fill Plan

Designed	A.Singh	Eng check	B. Soo
Drawn	B.Sayasane	Coordination	T.Loder
Dwg check	A.Singh	Approved	J.Wukowic
Scale at A1	Status	Rev	Security
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Drawing Number 405675-MMD-00-XX-DR-C-0151			

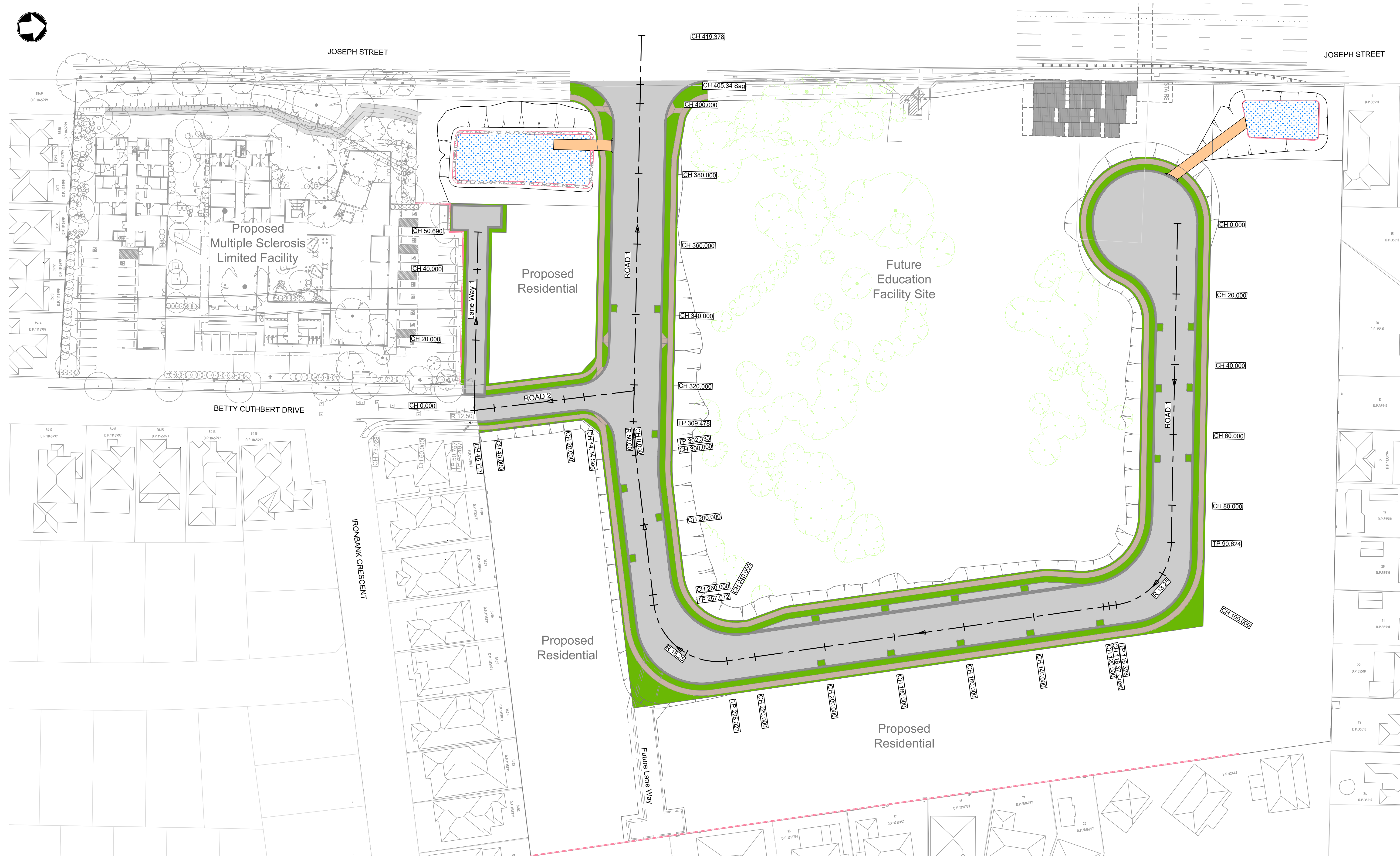
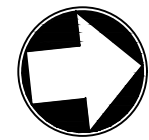
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P4	02/07/2021	BS	Issued for Information	ADS	JW						Drawn	B. Sayasane	Coordination	T. Loder	
P3	18/06/2021	BS	Issued for Information	ADS	JW						Dwg check	A. Singh	Approved	J. Wukowic	
P2	03/04/2020	ADS	ISSUED FOR DA SUBMISSION	ADS	JW						Scale at A1	Status	Rev	Security	
P1	24/01/2020	GAP	Issued for Information	AS	JW						1:100,500	PRE	P5	STD	
Rev	Date	Drawn	Description	Ch'k'd	App'd						Drawing Number	405675-MMD-00-XX-DR-C-0162			



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P3	18/06/2021	BS	Issued for Information	ADS	JW
P2	03/04/2020	ADS	ISSUED FOR DA SUBMISSION	ADS	JW
P1	24/01/2020	GAP	Issued for Information	AS	JW
Rev	Date	Drawn	Description	Ch'k'd	App'd

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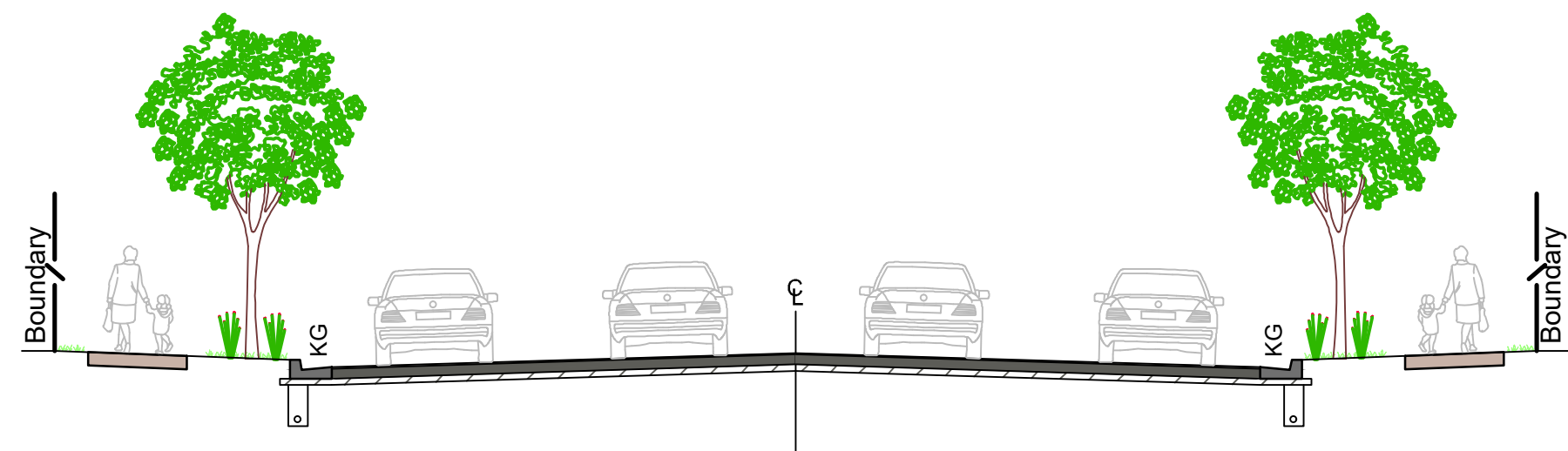
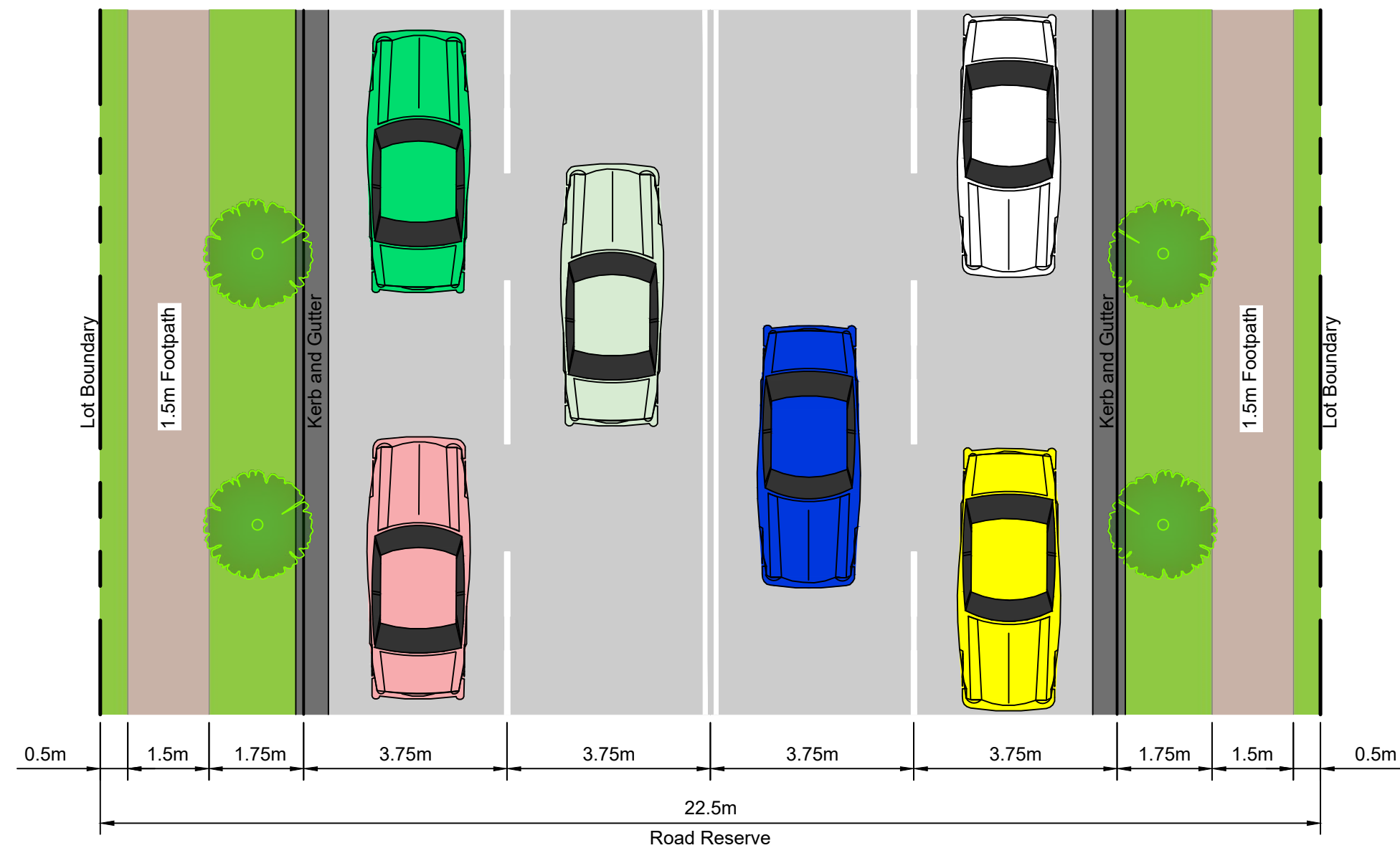
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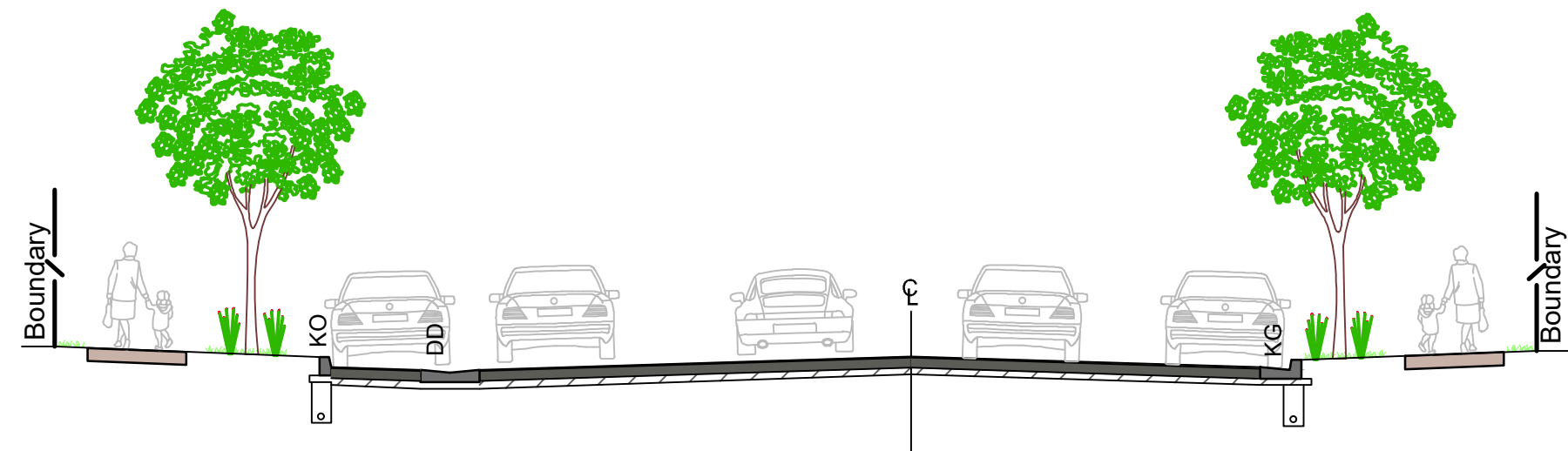
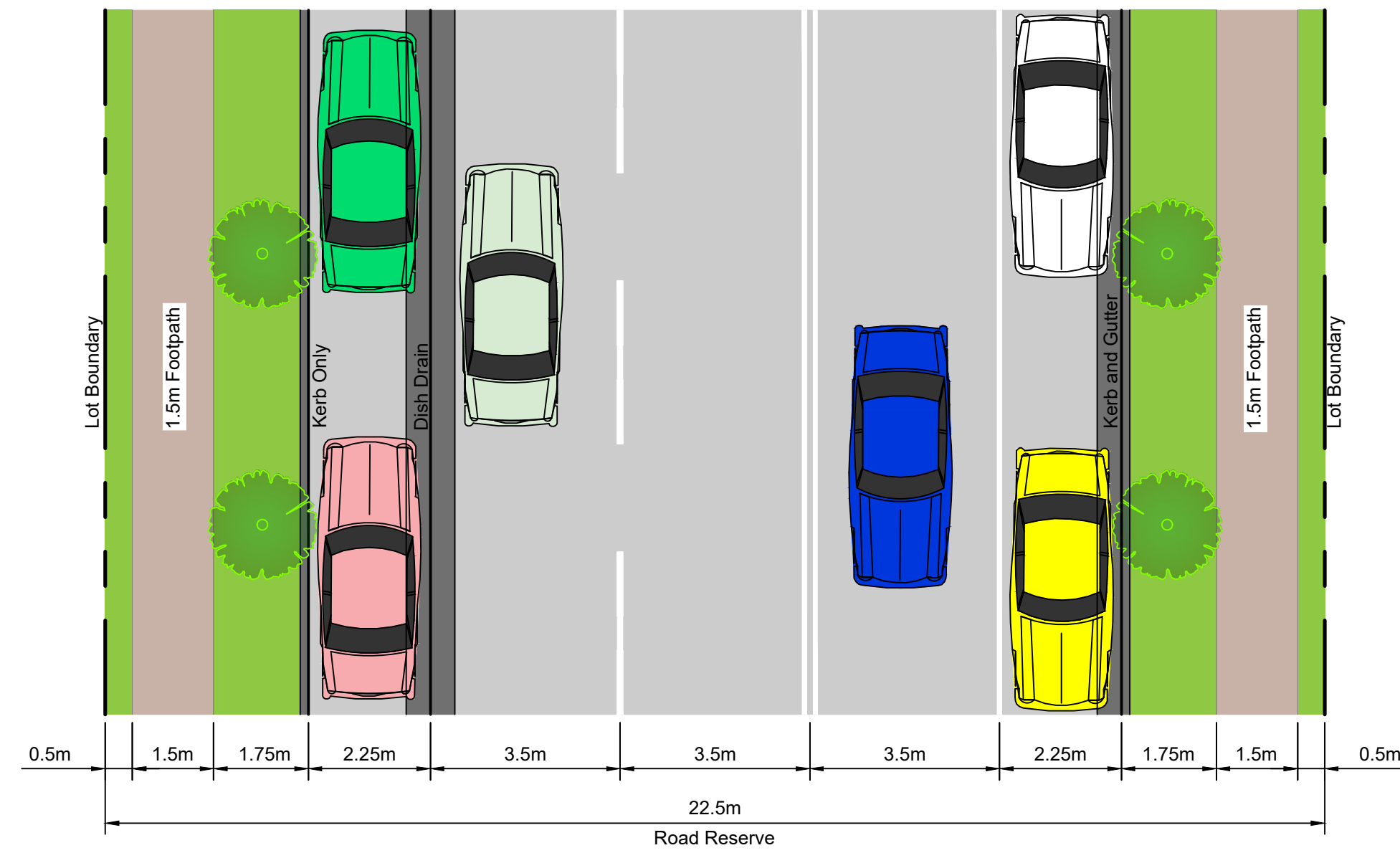
Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
Alignment Control Plan

Designed	A.Singh	Eng check	B. Soo
Drawn	B.Sayasane	Coordination	T.Loder
Dwg check	A.Singh	Approved	J.Wukowic
Scale at A1	Status	Rev	Security
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Drawing Number 405675-MMD-00-XX-DR-C-0201			

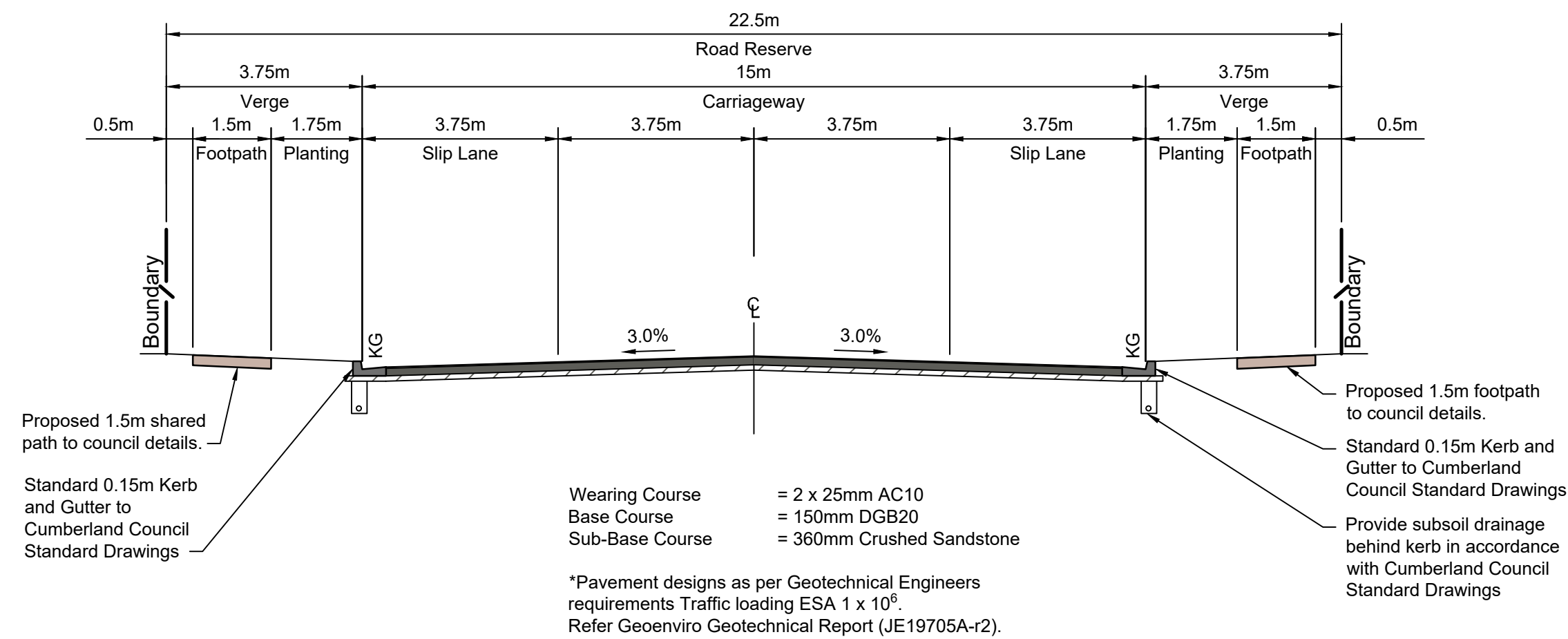
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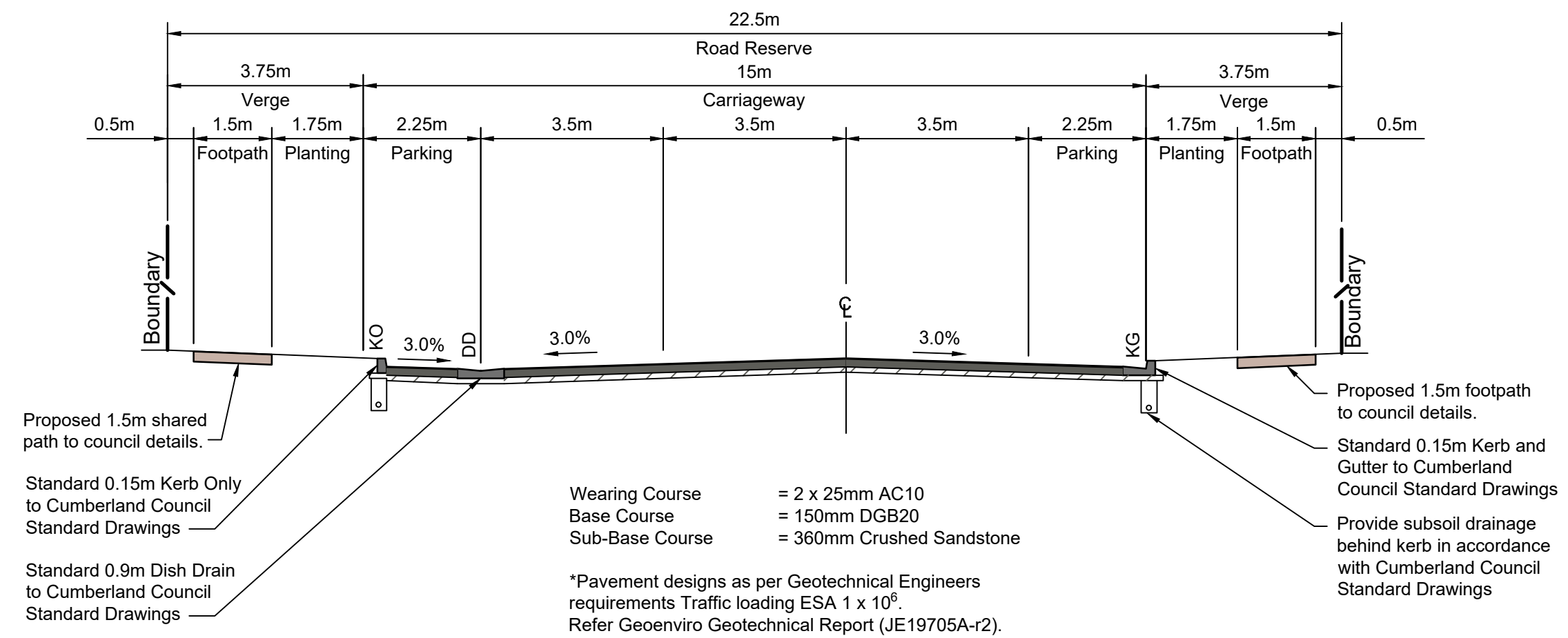
22.5m Collector Road (A)
1:100



22.5m Collector Road (B)
1:100



22.5m Collector Road (A)
Road 01 (CH320.000 - CH 419.378)
1:100



22.5m Collector Road (B)
Road 01 (CH120.000 - CH220.000)
1:100

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P2	03/04/2020	ADS	ISSUED FOR DA SUBMISSION	ADS	JW
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1:100 0 5m 10m

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Sydney, NSW 2000
Australia
NSW 1230, Australia
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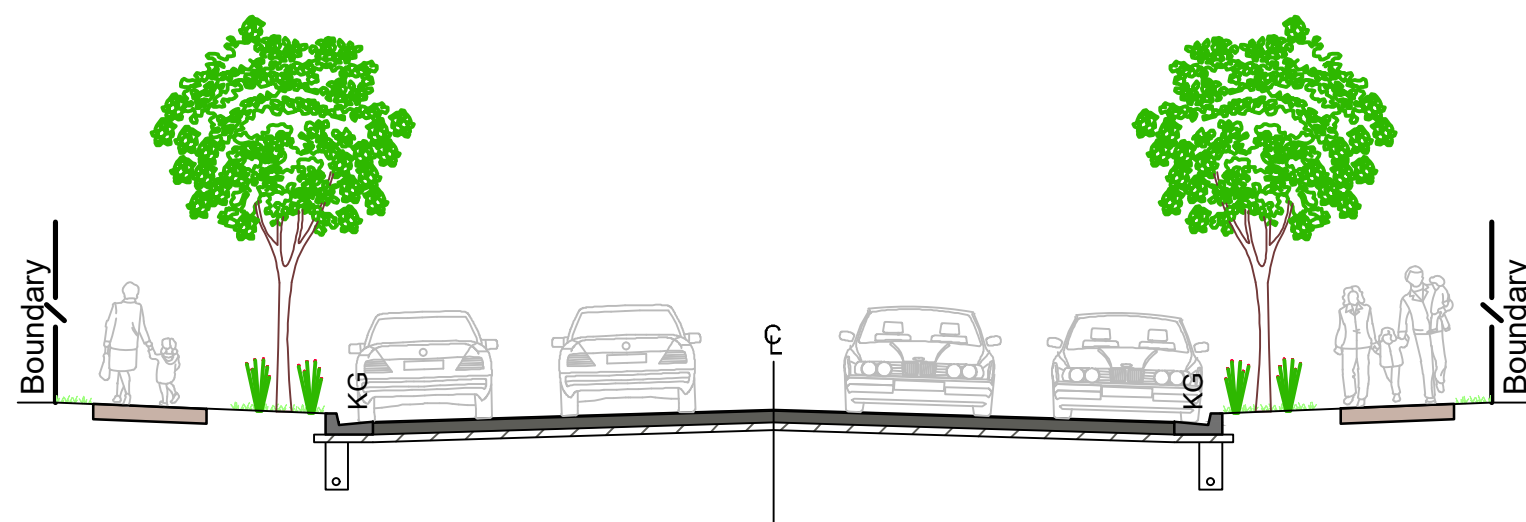
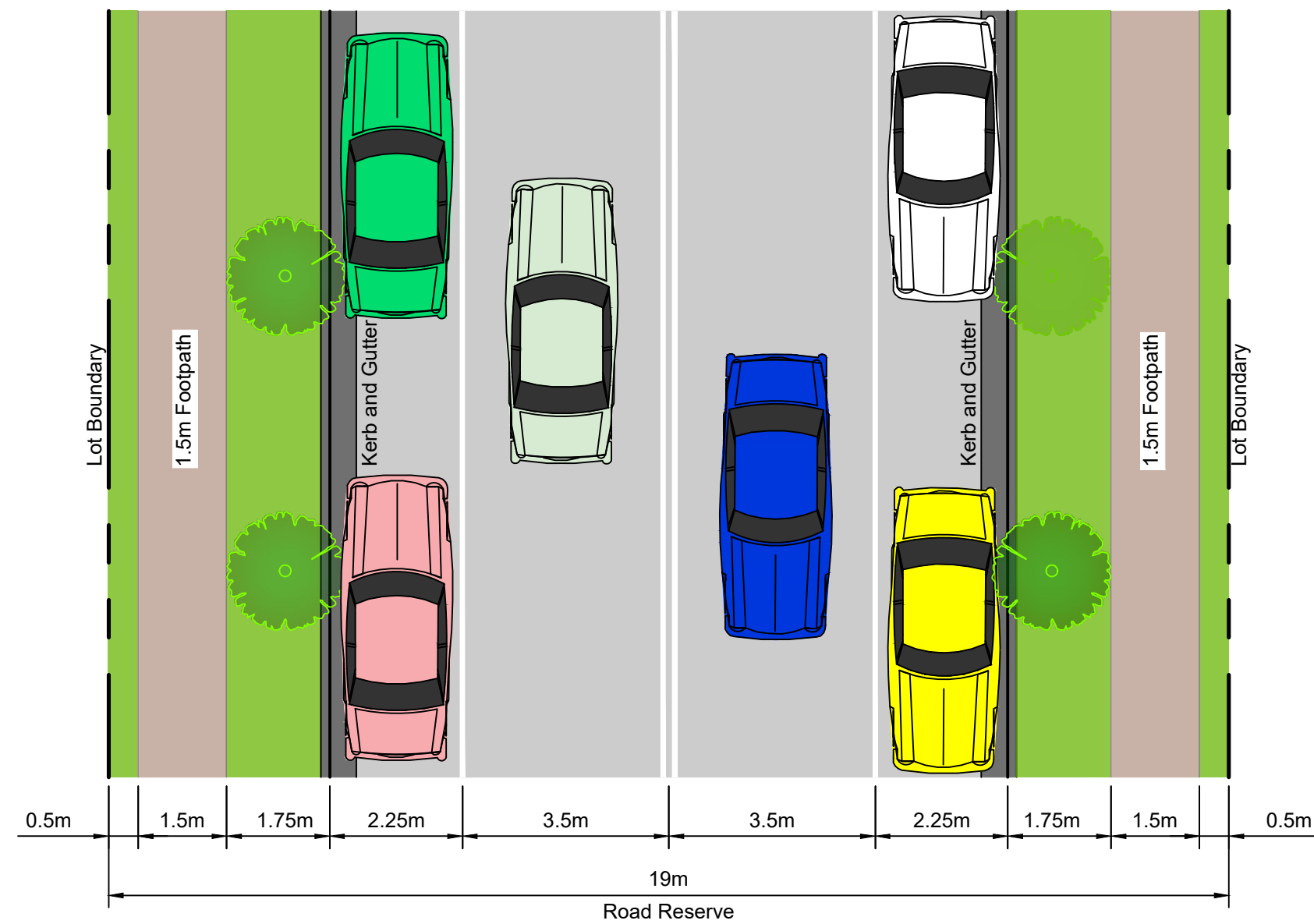
Planning,
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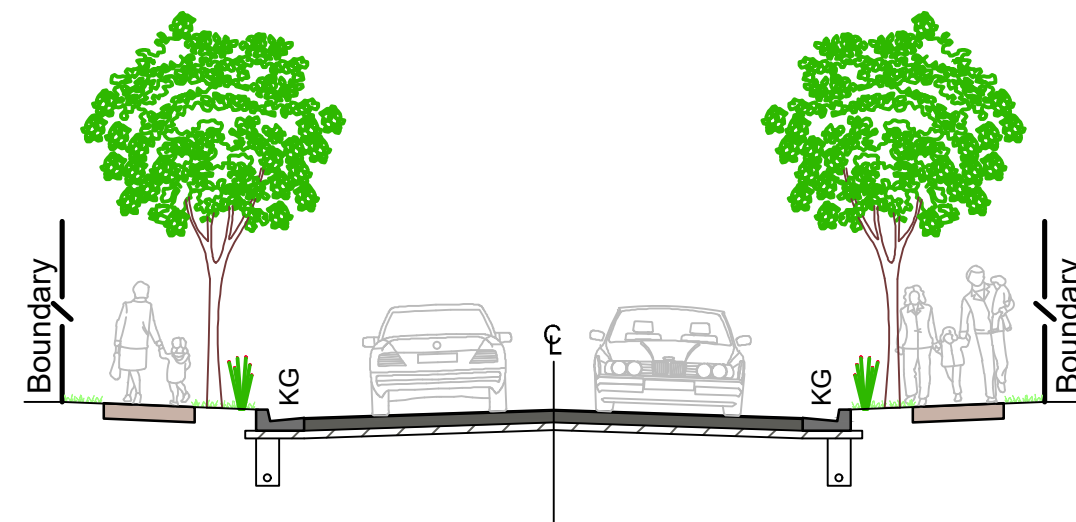
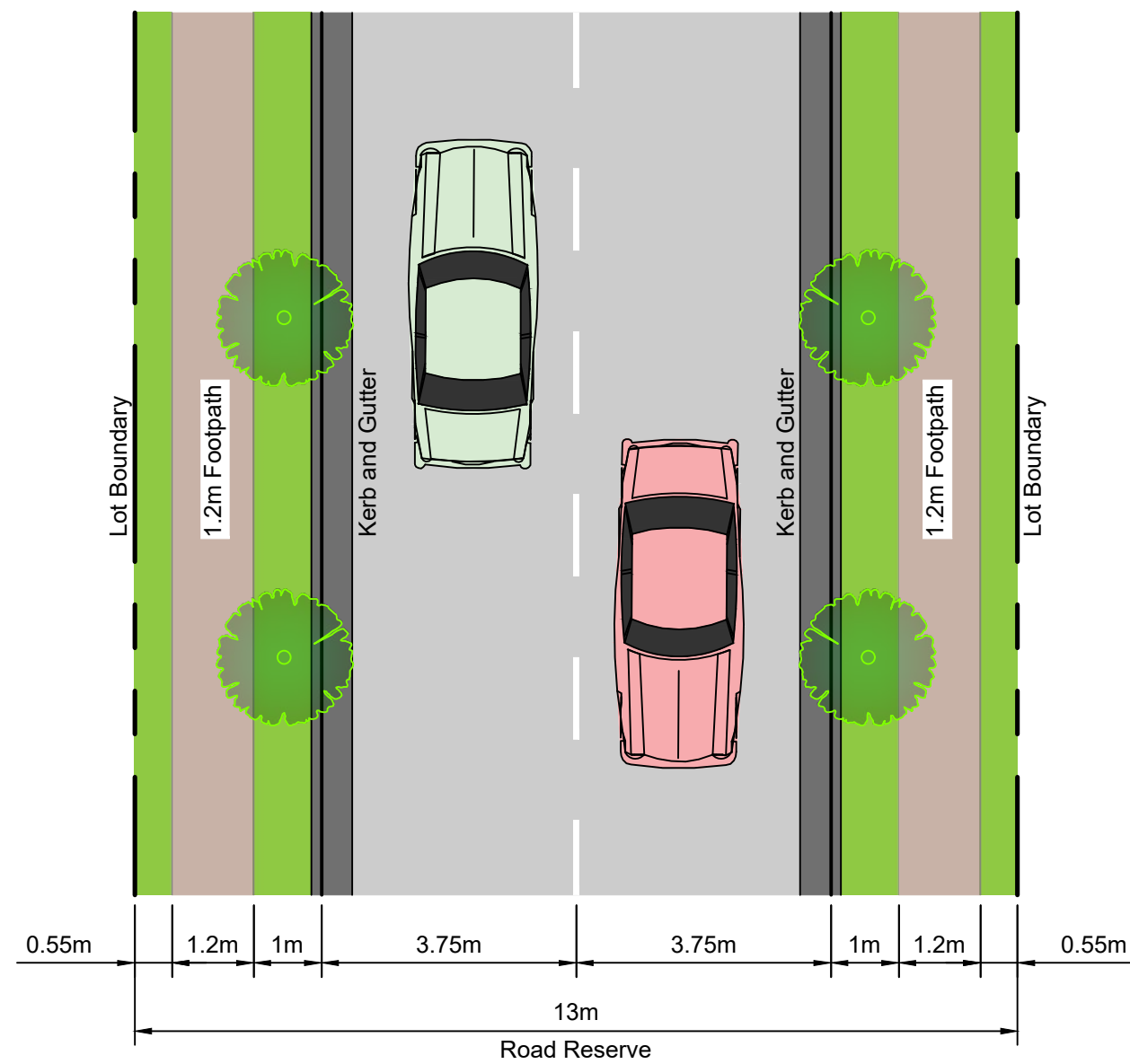
Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
Typical Road Cross Sections
Sheet 1

Designed	A.Singh	Eng check	B. Soo
Drawn	B.Sayasane	Coordination	T.Loder
Dwg check	A.Singh	Approved	J.Wukowic
Scale at A1	1:100	Status	PRE
Rev	P6	Security	STD
Drawing Number	405675-MMD-00-XX-DR-C-0251		

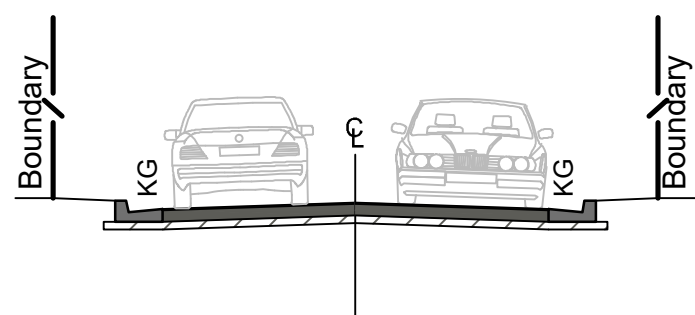
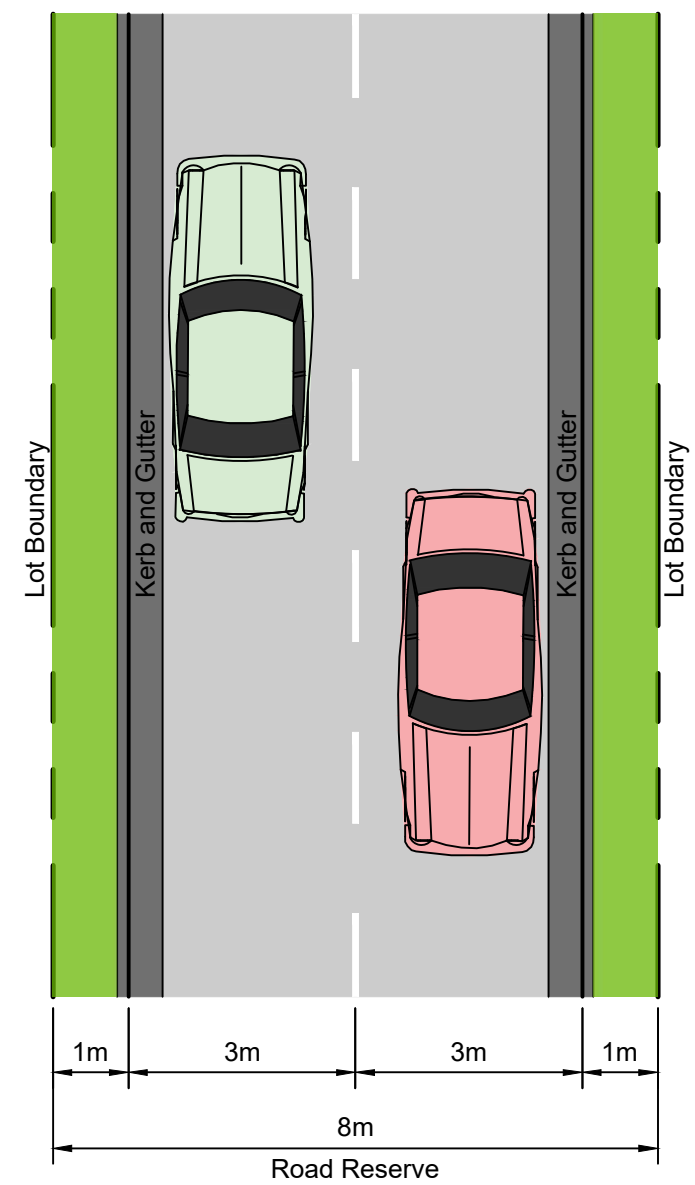
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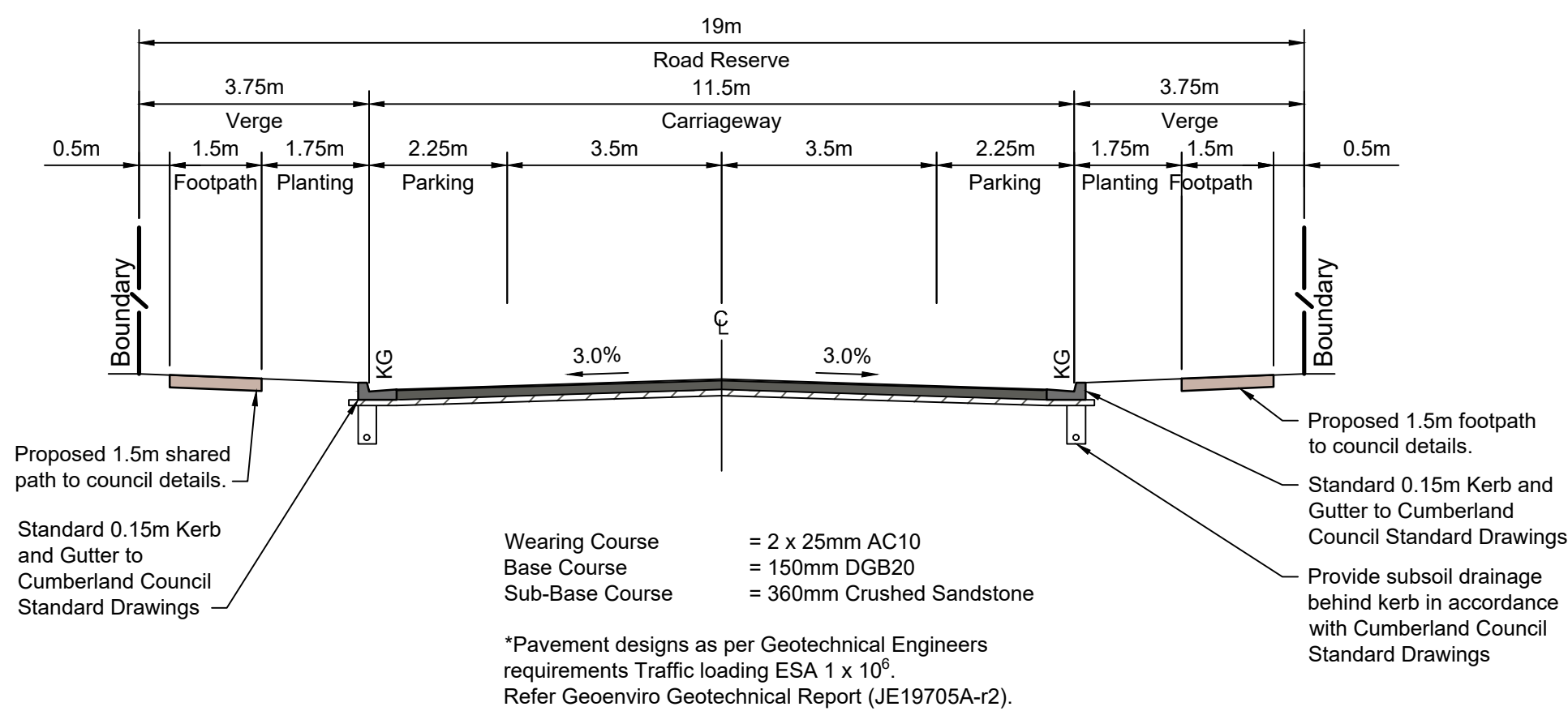
19m Collector Road
1:100



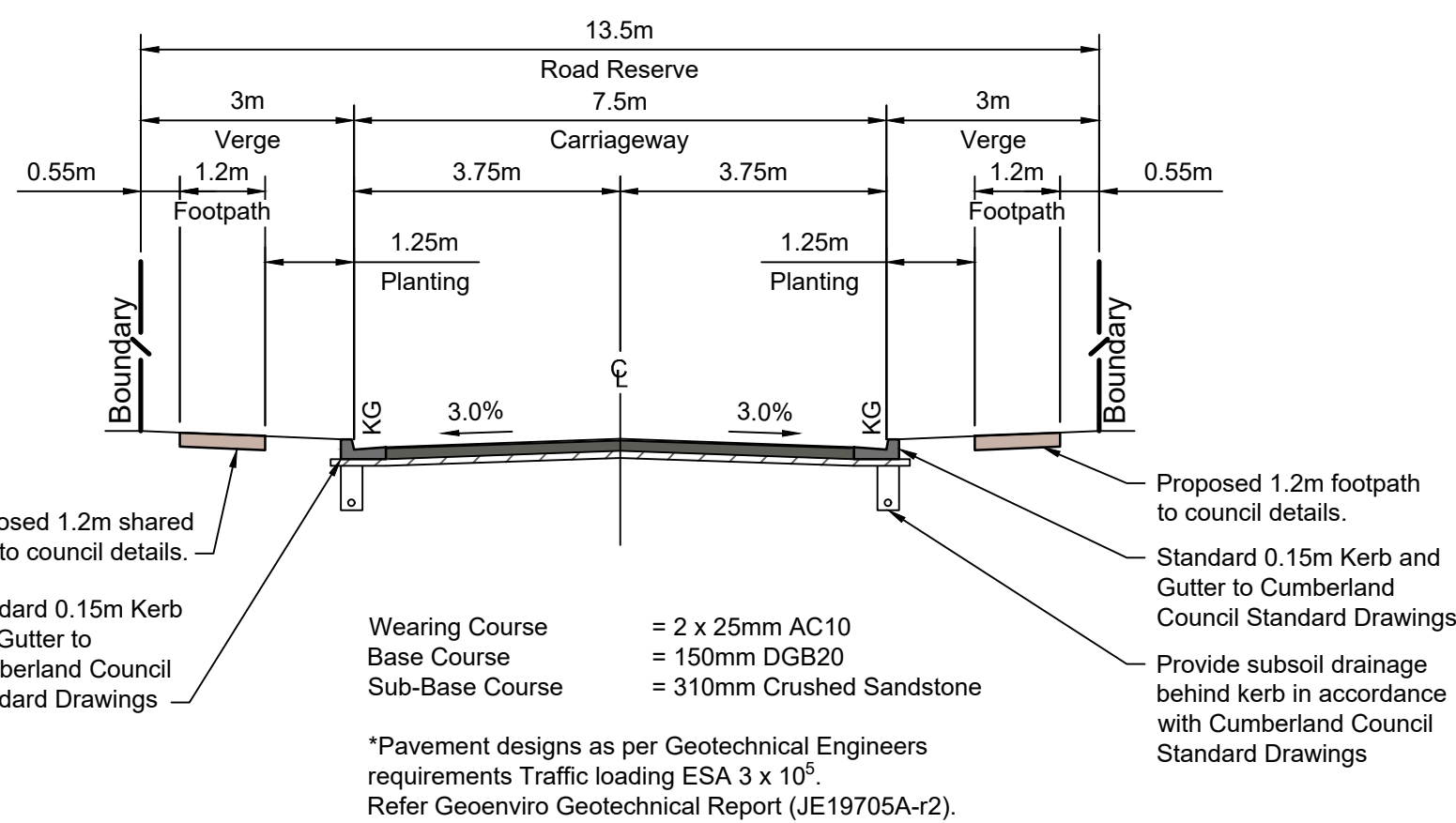
13m Local Road
1:100



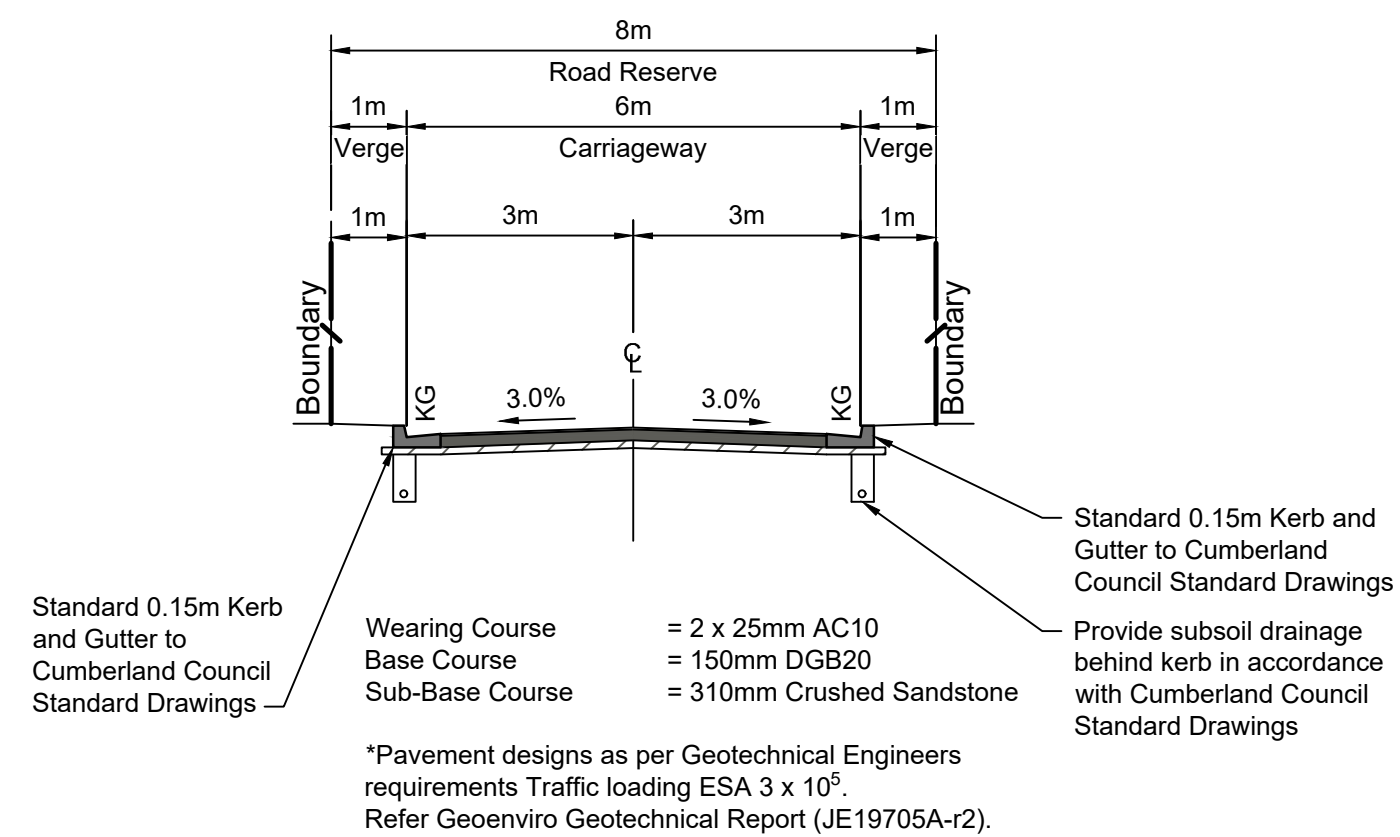
8.0m Laneway
1:100



19m Collector Road
Road 1 (CH0.000 - CH120.000 and CH220.000 - CH320.000)
1:100



13.5m Local Road
Road 2
1:100



8.0m Laneway
Laneway 1
1:100

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NSW 1230, Australia
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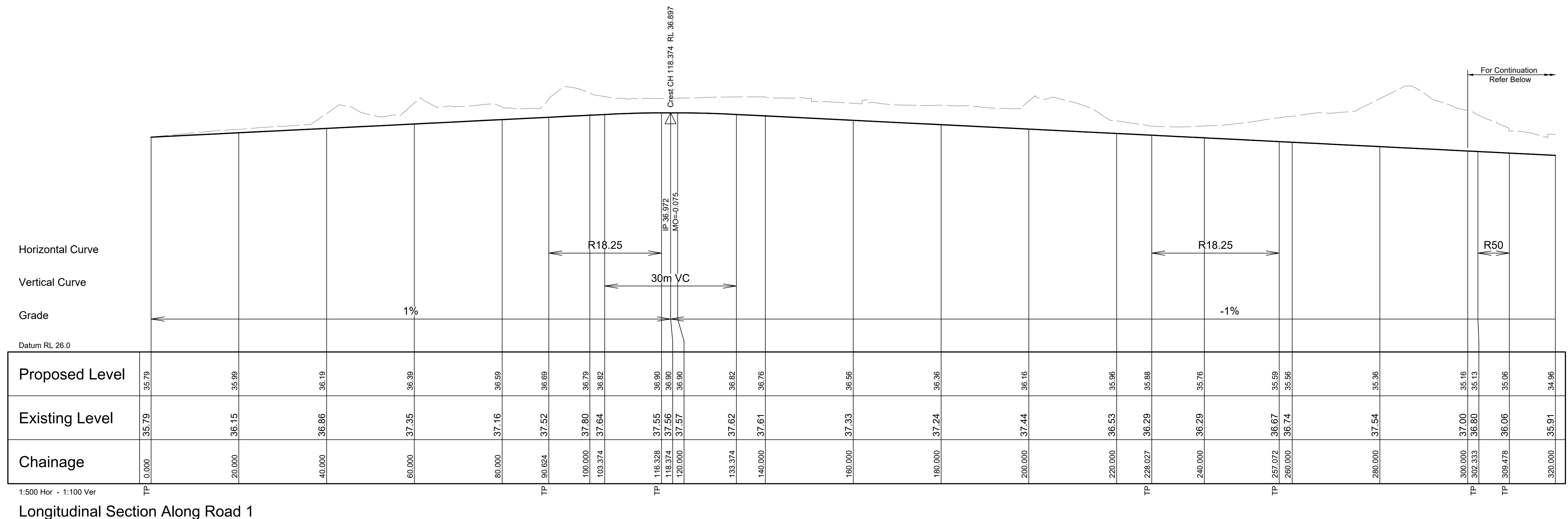
Planning,
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Environment

Title

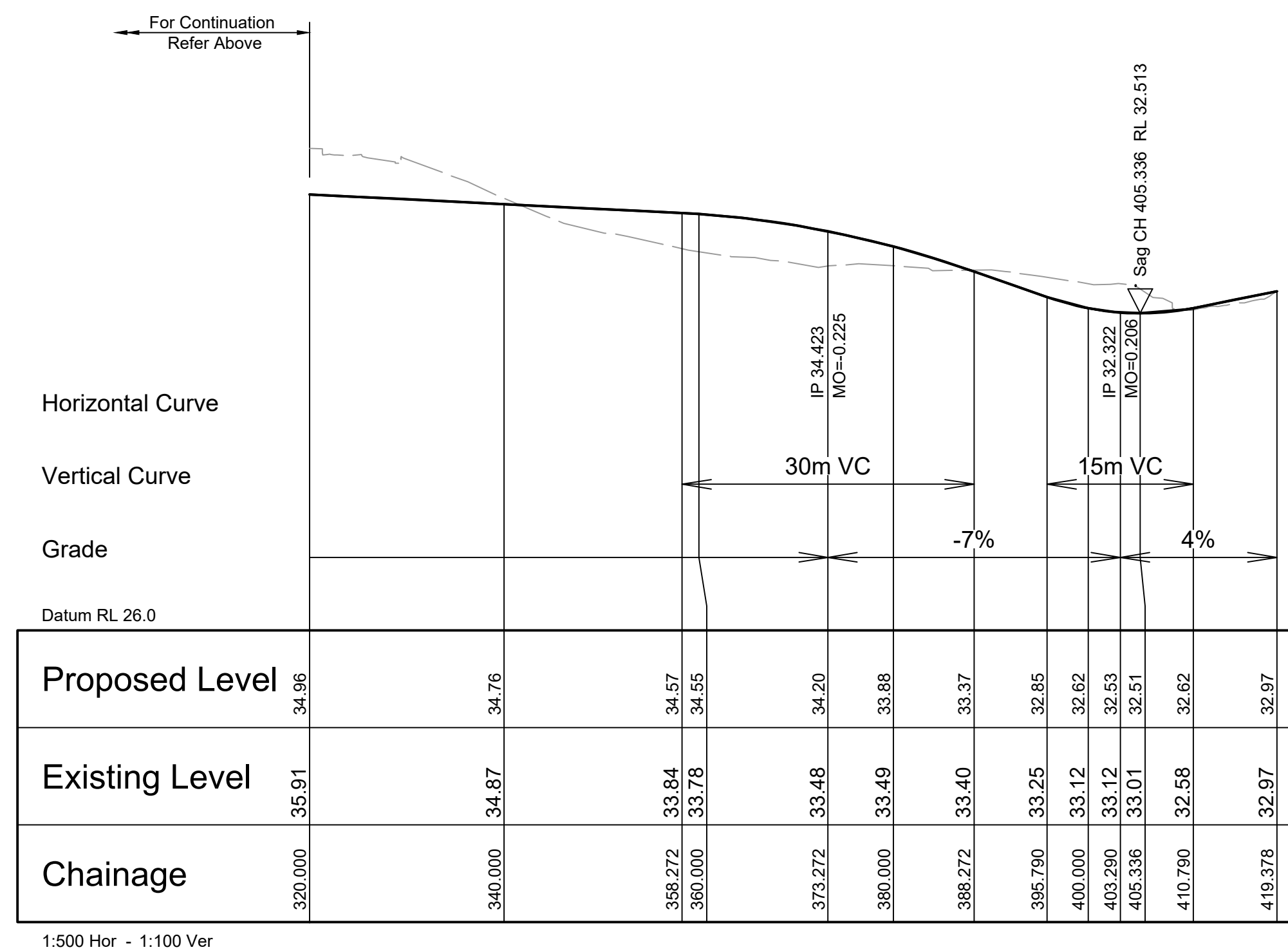
Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
Typical Road Cross Sections
Sheet 2

Designed	A.Singh	Eng check	B. Soo
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Scale at A1	Status	Rev	Security
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Drawing Number 405675-MMD-00-XX-DR-C-0252			

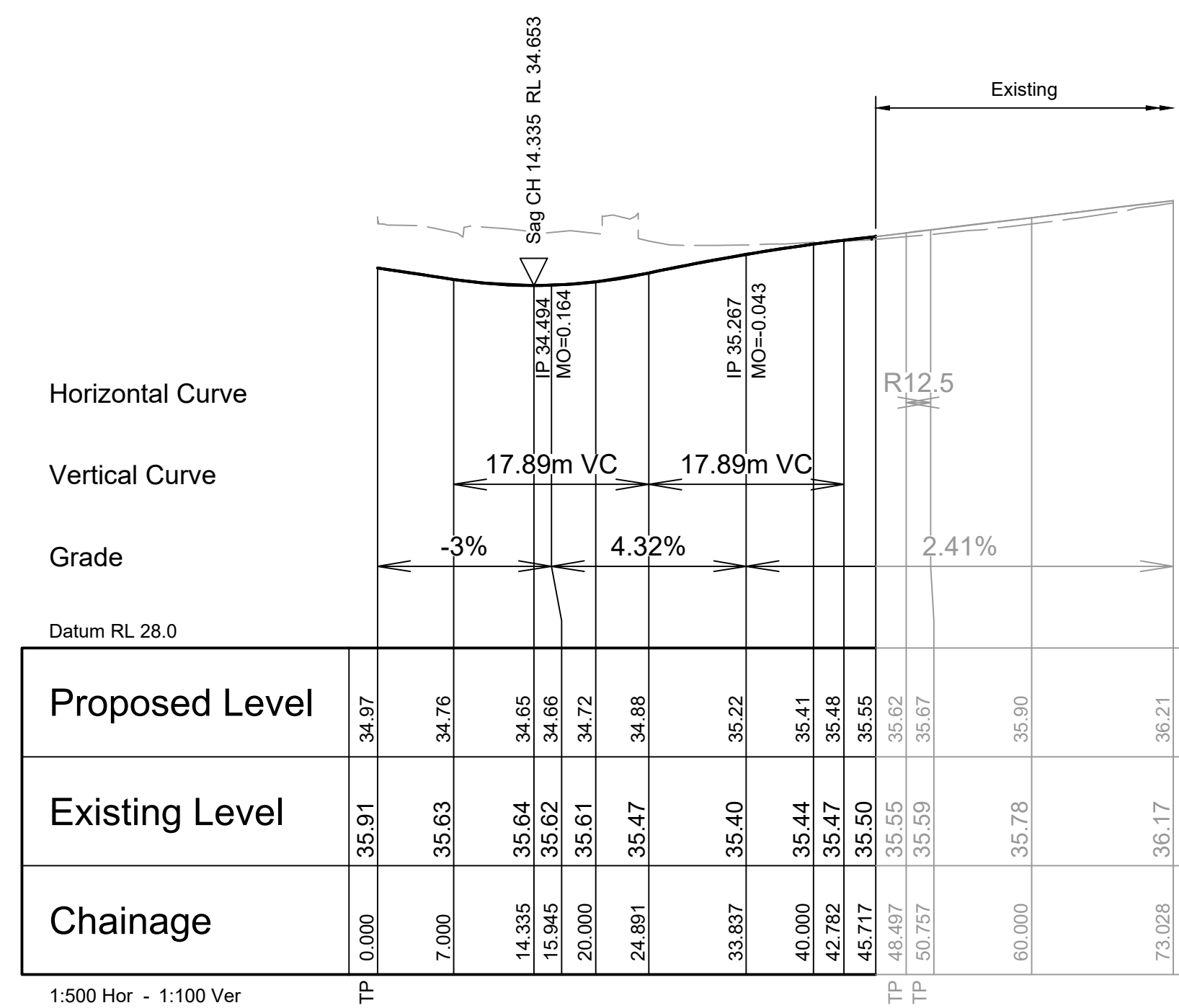
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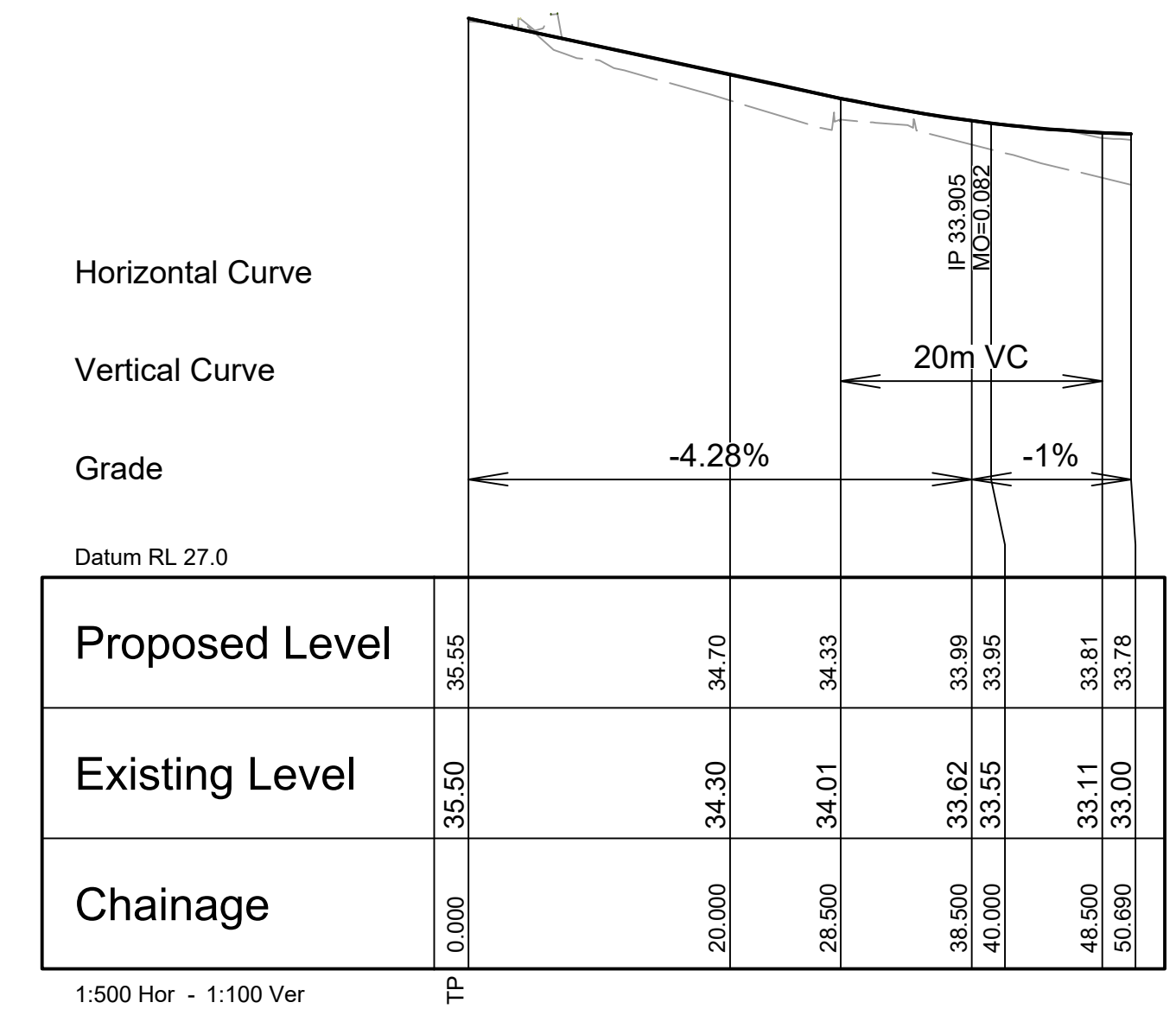
Longitudinal Section Along Road 1



Longitudinal Section Along Road 1

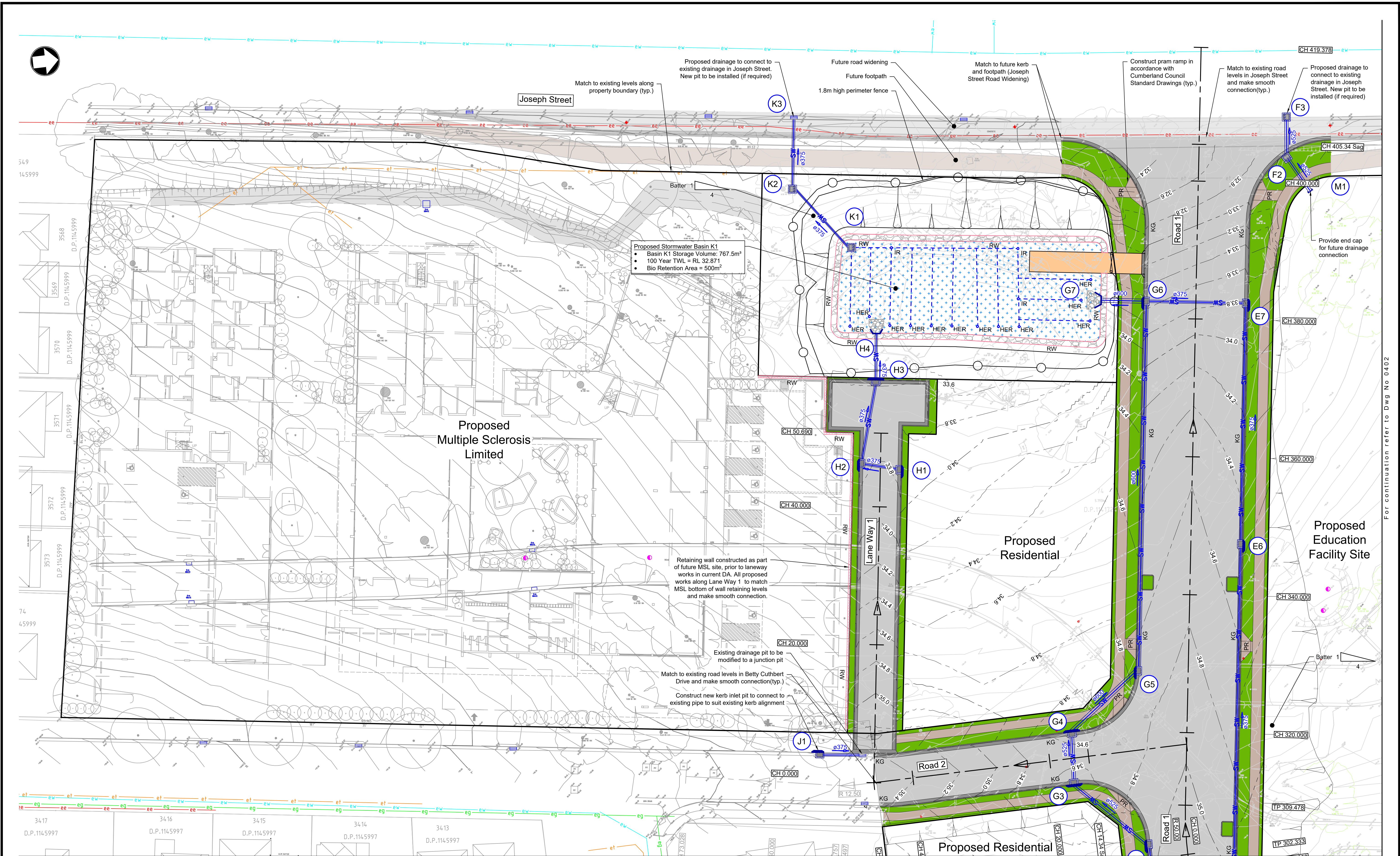


Longitudinal Section Along Road 2



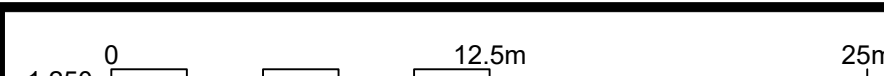
Longitudinal Section Along Lane Way 1

[illegible]



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P3	18/06/2021	BS	Issued for Information	ADS	JW
P2	03/04/2020	ADS	ISSUED FOR DA SUBMISSION	ADS	JW
P1	24/01/2020	GAP	Issued for Information	AS	JW
Rev	Date	Drawn	Description	Ch'k'd	App'd



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NSW 1230, Australia
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T +61 (0)2 9098 6800
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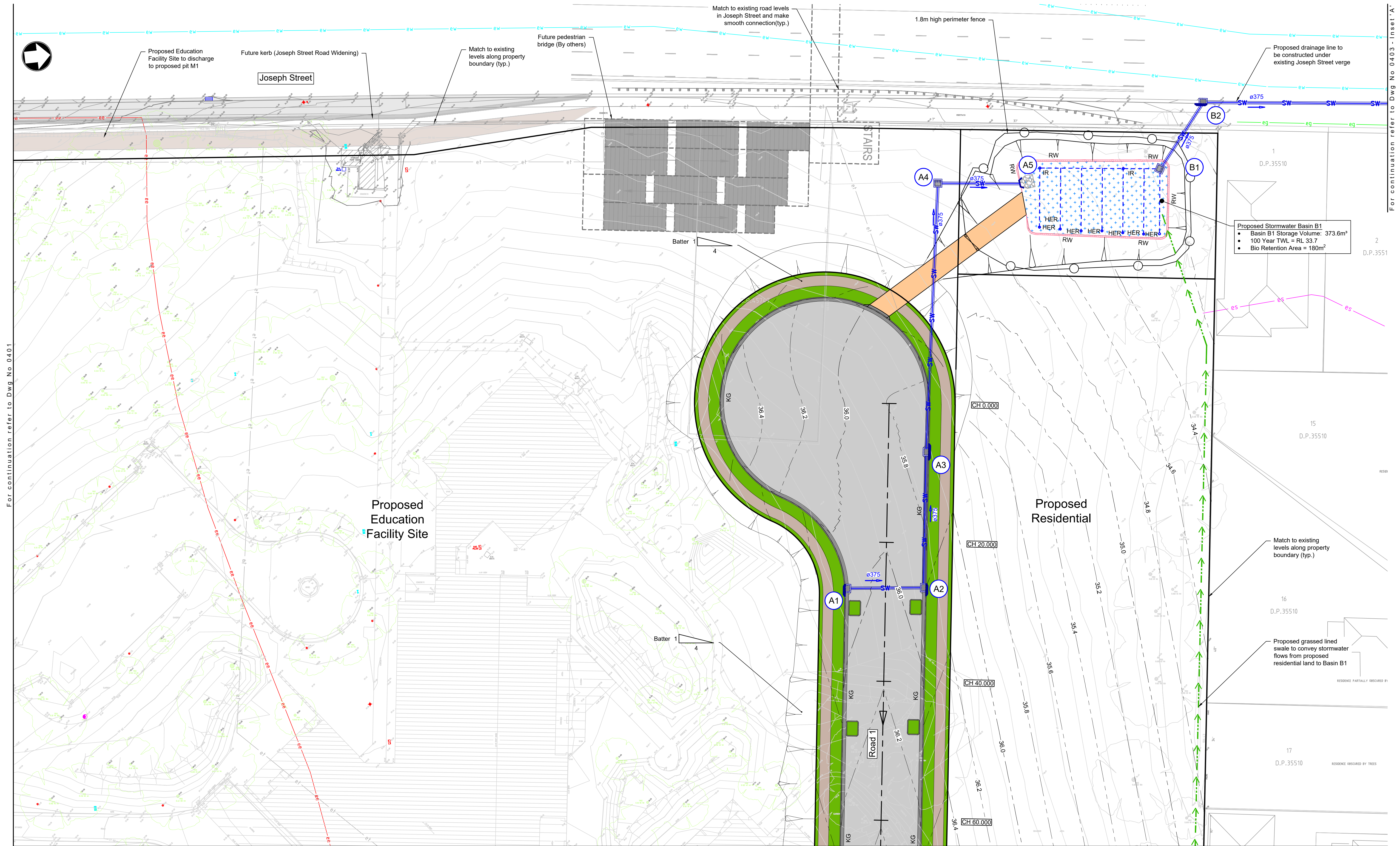
Planning,
Industry &
Environment

Title

Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
Siteworks Plan
Sheet 1

Designed	A.Singh	Eng check	B. Soo
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Dwg check	A.Singh	Approved	J.Wukowic
Scale at A1	Status	Rev	Security
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Drawing Number 405675-MMD-00-XX-DR-C-0401			

For continuation refer to Dwg No 0401



For continuation refer to Dwg No 0404

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Rev	Date	Drawn	Description	Ch'k'd	App'd
P5	09/07/2021	BS	Issued for Information	ADS	JW
P4	02/07/2021	BS	Issued for Information	ADS	JW
P3	18/06/2021	BS	Issued for Information	ADS	JW
P2	03/04/2020	ADS	ISSUED FOR DA SUBMISSION	ADS	JW
P1	24/01/2020	GAP	Issued for Information	AS	JW

1:250 0 12.5m 25m



Level 10, 383 Kent Street
Sydney, NSW 2000
Australia
NSW 1230, Australia
PO Box Q1678, QVB Sydney
T +61 (0)2 9098 6800
W www.mottmac.com

Client



Planning,
Industry &
Environment

Title

Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
Siteworks Plan
Sheet 2

Designed	A.Singh	Eng check	B. Soo
Drawn	B.Sayasane	Coordination	T.Loder
Dwg check	A.Singh	Approved	J.Wukowic
Scale at A1	1:250	Status	PRE
Drawing Number	405675-MMD-00-XX-DR-C-0402	Rev	P5
		Security	STD

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Level 10, 383 Kent Street
Sydney, NSW 2000
Australia
NSW 1230, Australia
PO Box Q1678, QVB Sydney
T +61 (0)2 9098 6800
W www.mottmac.com

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**Planning,
Industry &
Environment**

Title

Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
Siteworks Plan
Sheet 3

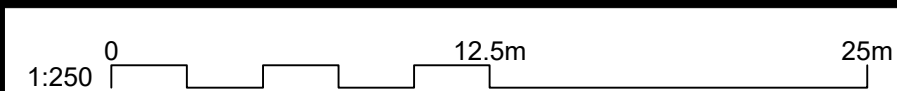
Designed	A.Singh	Eng check	B. Soo
Drawn	B.Sayasane	Coordination	T.Loder
Dwg check	A.Singh	Approved	J.Wukowic
Scale at A1	1:250	Status	PRE
		Rev	P5
		Security	STD
Drawing Number 405675-MMD-00-XX-DR-C-0403			



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Preliminary - Not for Construction

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Rev	Date	Drawn	Description	Ch'k'd	App'd



Level 10, 383 Kent Street
Sydney, NSW 2000
Australia
NSW 1230, Australia
PO Box Q1678, QVB Sydney
T +61 (0)2 9098 6800
W www.mottmac.com

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Planning,
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Title

Proposed Subdivision
80 Betty Cuthbert Drive, Lidcombe
Civil Works
Siteworks Plan
Sheet 4

Designed	A.Singh	Eng check	B. Soo
Drawn	B.Sayasane	Coordination	T.Loder
Dwg check	A.Singh	Approved	J.Wukowic
Scale at A1	1:250	Status	PRE
		Rev	P5
		Security	STD
Drawing Number 405675-MMD-00-XX-DR-C-0404			