

**Proposed Subdivision  
230 Sixth Avenue and  
68 Edmondson Avenue, Austral**

## **Section 96 Drawings**

**MMD-369954-C-DR-AB-S96-0001 P4  
Date: 18.09.17**

General Notes	
GN1	All work to be carried out in accordance with Liverpool City 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.

Sitenworks Notes	
SN1	Datum : Australian Height Datum (AHD) Origin of levels : PM44228 Origin of co-ordinates : Mapping Grid Of Australia (MGA) Survey prepared by : Apex Surveying Suite 6, 16 Hill Street Camden NSW 2570 (02) 46 559 485
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 <a href="http://scims.lpi.nsw.gov.au/status_report_frames.html">http://scims.lpi.nsw.gov.au/status_report_frames.html</a>
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's 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. Disposal of waste shall be in a manner approved by the superintendent or as specified in the works contract.

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 allow for the capping off, excavation and removal if required of all redundant existing services in areas affected by works within the contract area, as shown on the drawings unless directed otherwise by 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 and approval 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	Interruption to supply of existing services shall be done so as not to cause any inconvenience to the principal. The contractor is to gain approval from the superintendent for time of interruption - the contractor is responsible for all liaison.
ES6	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.
ES7	Clearance and cover requirements shall be obtained from the relevant service authority before commencement of works and shall be adhered to at all times.
ES8	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.

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 - GeoLogix 160167_Rpt03FinalV01 September 2016
EW3	Strip topsoil to expose naturally occurring engineering material and stockpile on site for reuse as directed by the superintendent.
EW4	All soft, wet or unsuitable material to be removed as directed by the superintendent and replaced with approved fill material.
EW5	All fill material shall be from a source approved by the superintendent and 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 -
location	standard dry density
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 bulking of excavated material. It is the contractors responsibility to make allowances for these items as part of the tender / works.
EW11	No allowance 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.

Stormwater Notes	
SW1	For residential subdivisions and public roads - All Ø375mm to Ø600mm drainage pipes shall be Class 4 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).
SW2	All PVC-u drainage pipes in footways or access ways 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 PVC-u 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.
SW3	All Ø300mm to Ø600mm drainage pipes shall be Class 4 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).
SW4	All pipe junctions up to and including Ø450mm and tapers, shall be via purpose made fittings (UNO).
SW5	Minimum grade to stormwater lines to be 1% (UNO).
SW6	Contractor to supply and install all fittings and specials including various pipe adaptors to ensure proper connection between dissimilar pipework.
SW7	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.
SW8	All in-situ concrete pits to be 32Mpa minimum at 28 days.
SW9	Pits and pipes in areas of salinity hazard shall have increased cover to any reinforcement.
SW10	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.
SW11	Pits deeper than 1000mm shall have step irons installed in accordance with the local or statutory authority requirements.
SW12	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.
SW13	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.
SW14	Where stormwater lines pass under floor slabs DWV grade PVC-u rubber ring joints are to be used (UNO).
SW15	Where subsoil drainage lines pass under floor slabs and vehicular pavements, unslotted PVC-u DWV grade Class SN8 pipe shall be used.
SW16	Provide 3m length of Ø100mm subsoil drainage line or 200 'Nylex' strip drain surrounded with 150mm of 20mm blue metal or gravel, and wrapped in Bidim A24 geotextile filter fabric or approved equivalent, at invert of incoming upstream pipe on each pit.

Asphaltic Concrete Notes	
<b>General</b>	
AC1	Asphaltic concrete mix design, manufacture, placing and compaction shall be in accordance with RMS Specification R116 Asphalt (dense graded and open graded) and AS2150-2005 - Hot Mix Asphalt - A Guide To Good Practice. Annexure R116/1 to be completed by subcontractor and submitted for approval by superintendent 7 days prior to AC works.
AC2	Mineral filler to comply with AS2150 - 2005 - Hot Mix Asphalt - A Guide to Good Practice.
<b>Mix Proportions</b>	
AC3	Job mix - 7mm nominal size aggregate. Minimum bitumen content (%) by (mass of total mass) - 5.1%.
AC4	Mix stability - between 16kn and 36kn as determined by RMS test method T601 - Compaction of Test Specimens of Dense Grade Bituminous Mixtures and T603 - Stability of Dense Grade Bituminous Mixtures.
AC5	Air voids in compacted mix - between 4% of volume and 7% of the mix. Voids filled in binder. 65-80% of air voids in the total mineral aggregate filled by binder in accordance with RMS test method T601 - Compaction of Test Specimens of Dense Grade Bituminous Mixtures, T605 - Maximum Density of Bituminous Plant Mix and T606 - Bulk Density of Compacted Dense Graded Bituminous Mixtures.
AC6	The existing surface to be sealed, shall be dry and broomed before commencement of work to ensure complete removal of all superficial foreign and loose matter.
AC7	All depressions or uneven areas are to be tack-coated and brought up to general level of pavement with asphaltic concrete before laying of main course.
<b>Tack Coat</b>	
AC8	The whole of the area to be sheeted with asphaltic concrete shall be lightly and evenly coated with rapid setting bitumen. Application rate for residual bitumen shall be 0.15 to 0.30 litres/square metre. Application shall be by means of a mechanical sprayer with spray bar.
<b>Primer-sealing</b>	
BS9	Design of sprayed bituminous seals shall be carried out in accordance with the Austroads (NAASRA) publication, "Principles and Practice of Bituminous Surfacing, Volume 1 - Sprayed Work".
BS10	Where not indicated on the drawings, primers and primer-seals shall be designed to remain intact until final sealing takes place, having regard for the traffic and climatic conditions pertaining.
BS11	Unless otherwise specified, binder application rates shall be selected to fill 85% of the theoretical voids of the mat.
<b>Spreading</b>	
BS12	A single coat primer-seal using a suitable cut-back or proprietary binder shall be applied to basecourse material for protection of pavement during construction.
<b>Bitumen Flush Sealing</b>	
BS13	Bitumen flush seals shall be either single or double coat as shown on the drawings, eg 20/10 indicates a double coat flush seal using two applications of bitumen and aggregate, the first aggregate layer being of 20mm nom. size, the second 10mm.
BS14	Cover aggregate shall be spread immediately after spraying of binder. In no case shall spreading be delayed more than 8 minutes (or so that bitumen has cooled such that adhesion of aggregate is compromised).
BS15	All spray records, aggregate supply tonnage and receipts shall be retained and passed onto the superintendent as part of the quality assurance procedures.
<b>Joints</b>	
AC13	The number of joints both longitudinal and transverse shall be kept to a minimum.
AC14	The density and surface finish at joints shall be similar to those of the remainder of the layer.
<b>Compaction</b>	
AC15	All compaction shall be undertaken using self propelled rollers.
AC16	Initial rolling shall be completed before the mix temperature falls below 105°C.
AC17	Secondary rolling shall be completed before the mix temperature falls below 60°C.
AC18	Minimum characteristic value of relative compaction of a lot when tested in accordance with AS2150 - 2005 - Hot Mix Asphalt - A Guide to Good Practice, shall be 95%.
<b>Finished Pavement Properties</b>	
AC19	Finished surfaces shall be smooth, dense and true to shape and shall not vary more than 10mm from the specified plan level at any point and shall not deviate from the bottom of a 3m straight edge laid in any direction by more than 5mm.

Bitumen Sealing Notes	
<b>Pavement Preparation</b>	
BS1	The surface to be sealed shall be dry and broomed before commencement of work to ensure complete removal of all superficial, foreign and loose matter.
BS2	If approved by the superintendent, all depressions or uneven areas are to be tack-coated and brought to general level of pavement with asphaltic concrete before sealing commences.
<b>Material</b>	
BS3	Binder shall be class 170 to AS2008-1997 - Residual Bitumen for Pavements, or approved proprietary material for priming and prime-sealing.
BS4	Aggregate shape, durability and wet to dry strength shall comply to AS2758.2 - 2009 - Aggregates and rock for Engineering Purposes for Class "N" Aggregates.
BS5	A 20kg sample of aggregate proposed for use shall be approved by the superintendent prior to use.
BS6	Aggregates shall be delivered uniformly precoated, excessive or uneven precoating may result in aggregates being rejected.
BS7	For two coat flush seals, the size of the aggregate for the second coat, while normally half that of the first coat, shall be dimensionally compatible with that of the first coat.
BS8	Precoating agents shall be compatible with the aggregates and binder to be used.
<b>Design</b>	
BS9	Design of sprayed bituminous seals shall be carried out in accordance with the Austroads (NAASRA) publication, "Principles and Practice of Bituminous Surfacing, Volume 1 - Sprayed Work".
BS10	Where not indicated on the drawings, primers and primer-seals shall be designed to remain intact until final sealing takes place, having regard for the traffic and climatic conditions pertaining.
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BS15	All spray records, aggregate supply tonnage and receipts shall be retained and passed onto the superintendent as part of the quality assurance procedures.

Concrete Notes	
<b>General</b>	
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	Consolid

## Drawing List

### Drawing Number

MMD-369954-C-DR-AB-S96-0001  
 MMD-369954-C-DR-AB-S96-0002  
 MMD-369954-C-DR-AB-S96-0003  
 MMD-369954-C-DR-AB-S96-0010  
 MMD-369954-C-DR-AB-S96-0020  
 MMD-369954-C-DR-AB-S96-0030  
 MMD-369954-C-DR-AB-S96-0031  
 MMD-369954-C-DR-AB-S96-0070  
 MMD-369954-C-DR-AB-S96-0071  
 MMD-369954-C-DR-AB-S96-0072  
 MMD-369954-C-DR-AB-S96-0073

### Drawing Title

Cover Sheet  
 General Notes Sheet  
 General Legend Sheet  
 General Arrangement Plan  
 Proposed Subdivision Plan  
 Soil and Water Management Plan  
 Soil and Water Management Details  
 Siteworks and Stormwater Management Plan Sheet 1  
 Siteworks and Stormwater Management Plan Sheet 2  
 Siteworks and Stormwater Management Plan Sheet 3  
 Siteworks and Stormwater Management Plan Sheet 4

## Survey Legend

268°02'198.1 Existing boundary, bearing and distance

PINE

SHED

BLOCK WALL

MESH FENCE

+12.26

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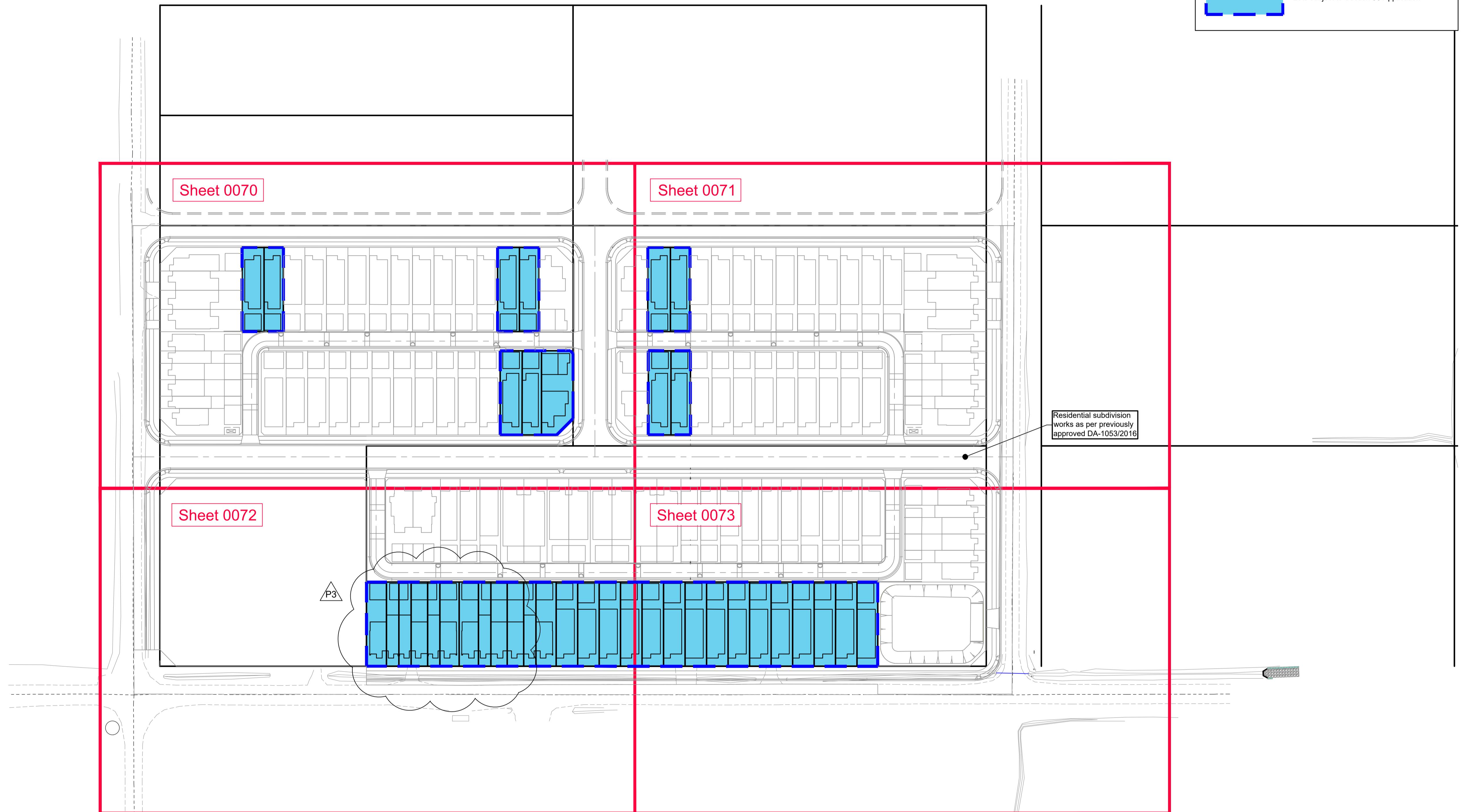
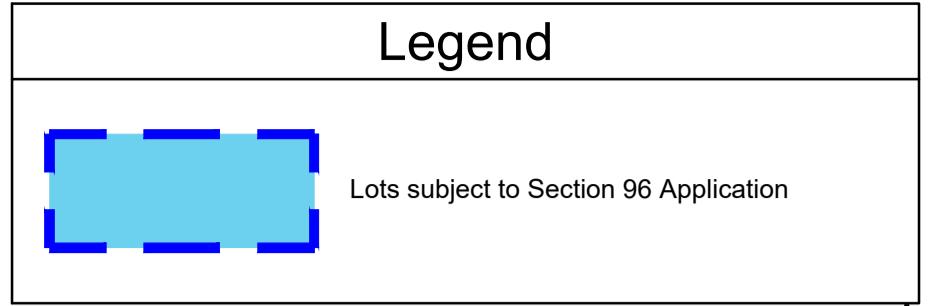
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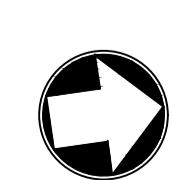
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P4	18.09.17	ADS	Re-issued for Section 96 Approval	DR	AC
P3	12.09.17	ADS	Re-issued for Section 96 Approval	DR	AC
P2	11.08.17	AMP	Issued for Section 96 Approval	DR	AC
P1	30.06.17	AMP	Issued for Information	DR	AC
Rev	Date	Drawn	Description	Ch'k'd	App'd

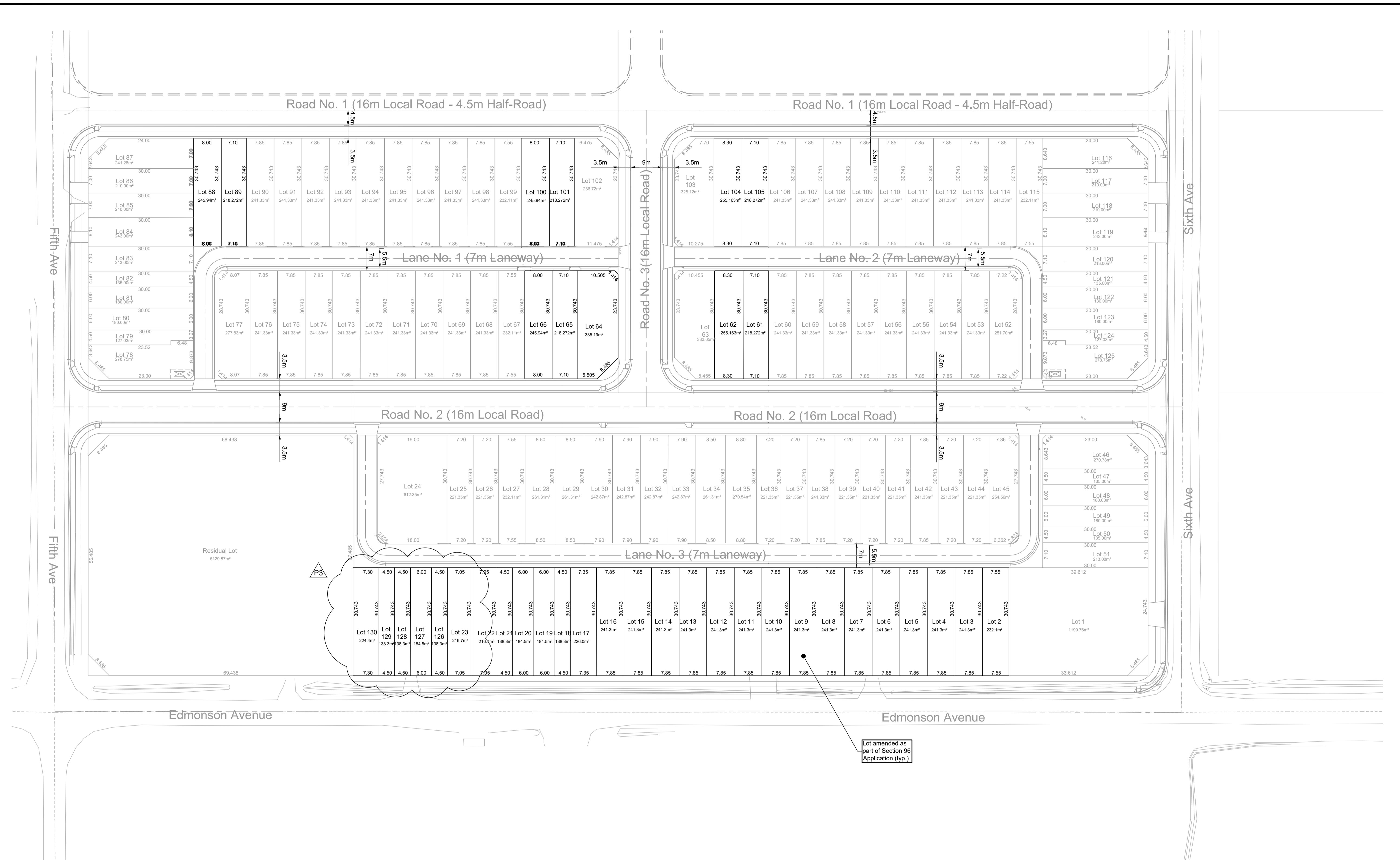


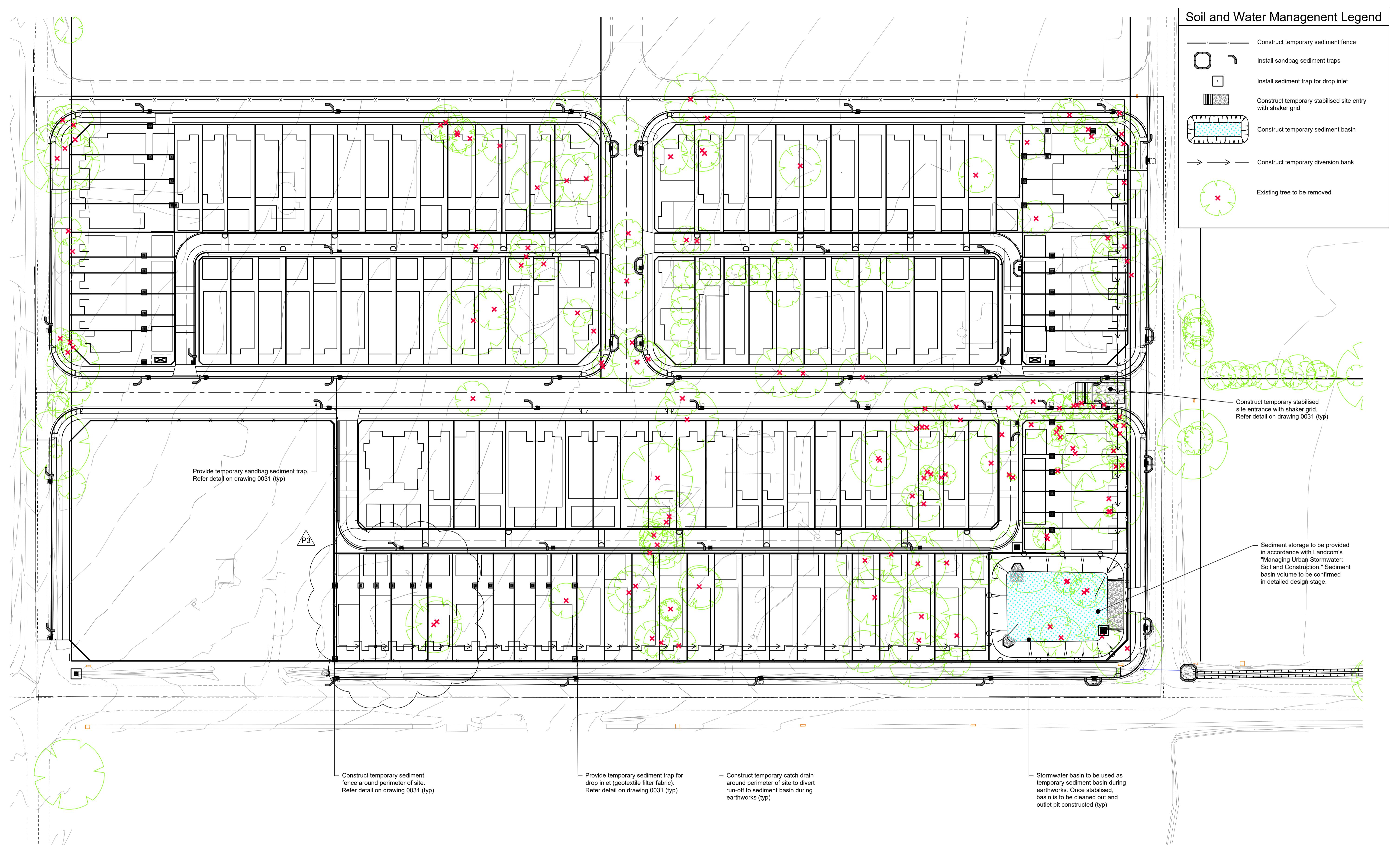
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**Client** Vantage Property Group  
Pty Ltd

Title 230 Sixth Avenue and  
68 Edmondson Avenue, Austral  
General Arrangement Plan

Designed	P.Cavanagh		Eng check	D.Reilly	
Drawn	A Paciben		Coordination	J.Taylor	
Dwg check	A.Singh		Approved	A.Cameron	
Scale at A1 <b>NTS</b>	Status <b>APR</b>	Rev <b>P4</b>	Sec <b>STD</b>		
Drawing Number <b>MMD-369954-C-DR-AB-S96-0010</b>					





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P1	30.06.17	AMP	Issued for Information	DR	AC
Rev	Date	Drawn	Description	Ch'k'd	App'd



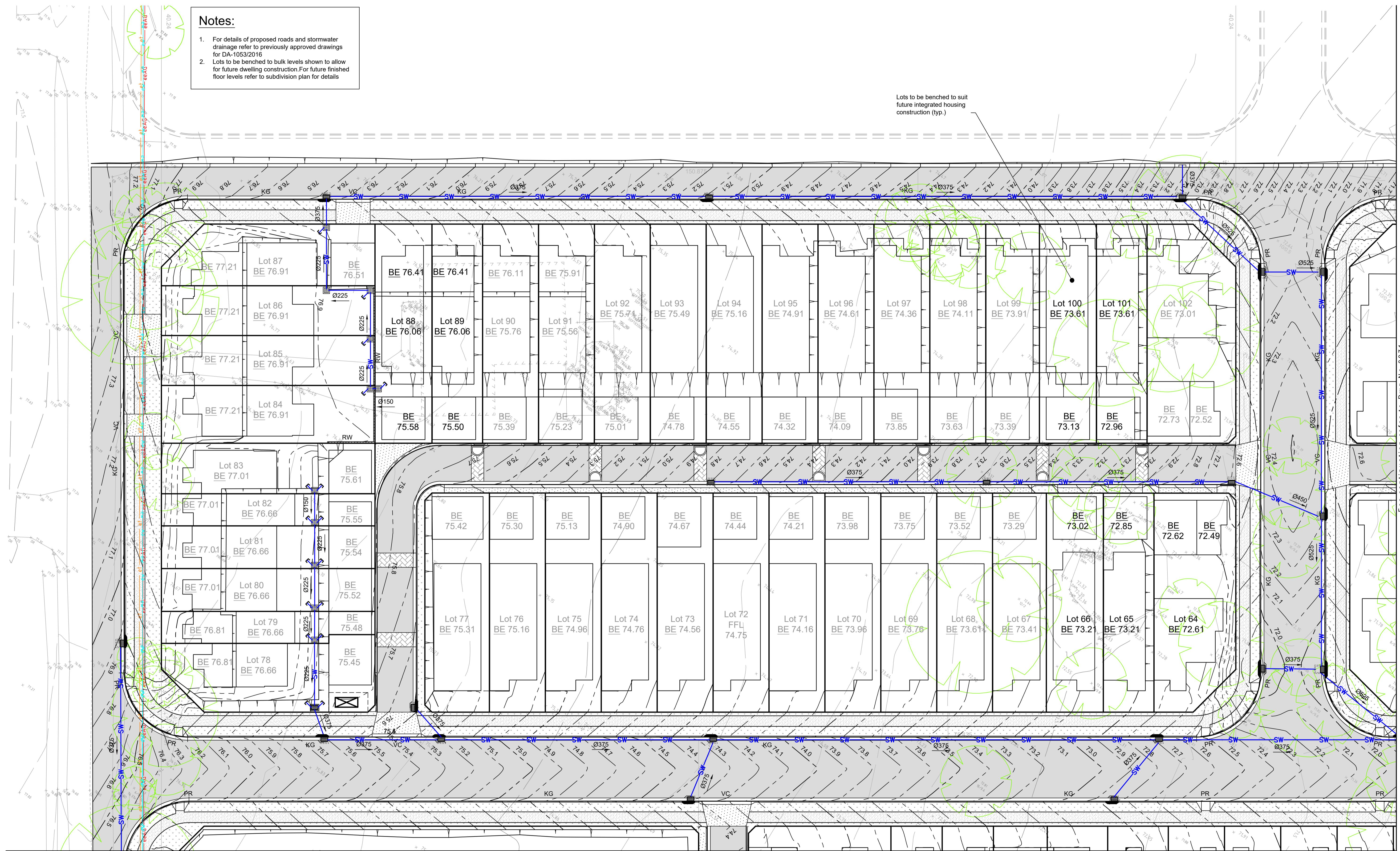
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**Client** Vantage Property Group  
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Title	230 Sixth Avenue and 68 Edmondson Avenue, Austral Soil and Water Management Plan
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Designed	P.Cavanagh		Eng check	D.Reilly	
Drawn	A Paciben		Coordination	J.Taylor	
Dwg check	A.Singh		Approved	A.Cameron	
Scale at A1 <b>1:500</b>	Status <b>APR</b>	Rev <b>P4</b>	Sec <b>STD</b>		
Drawing Number <b>MMD-369954-C-DR-AB-S96-0030</b>					

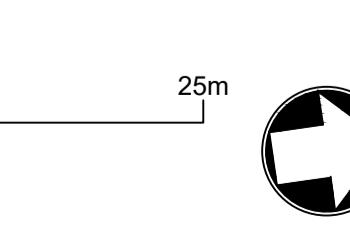




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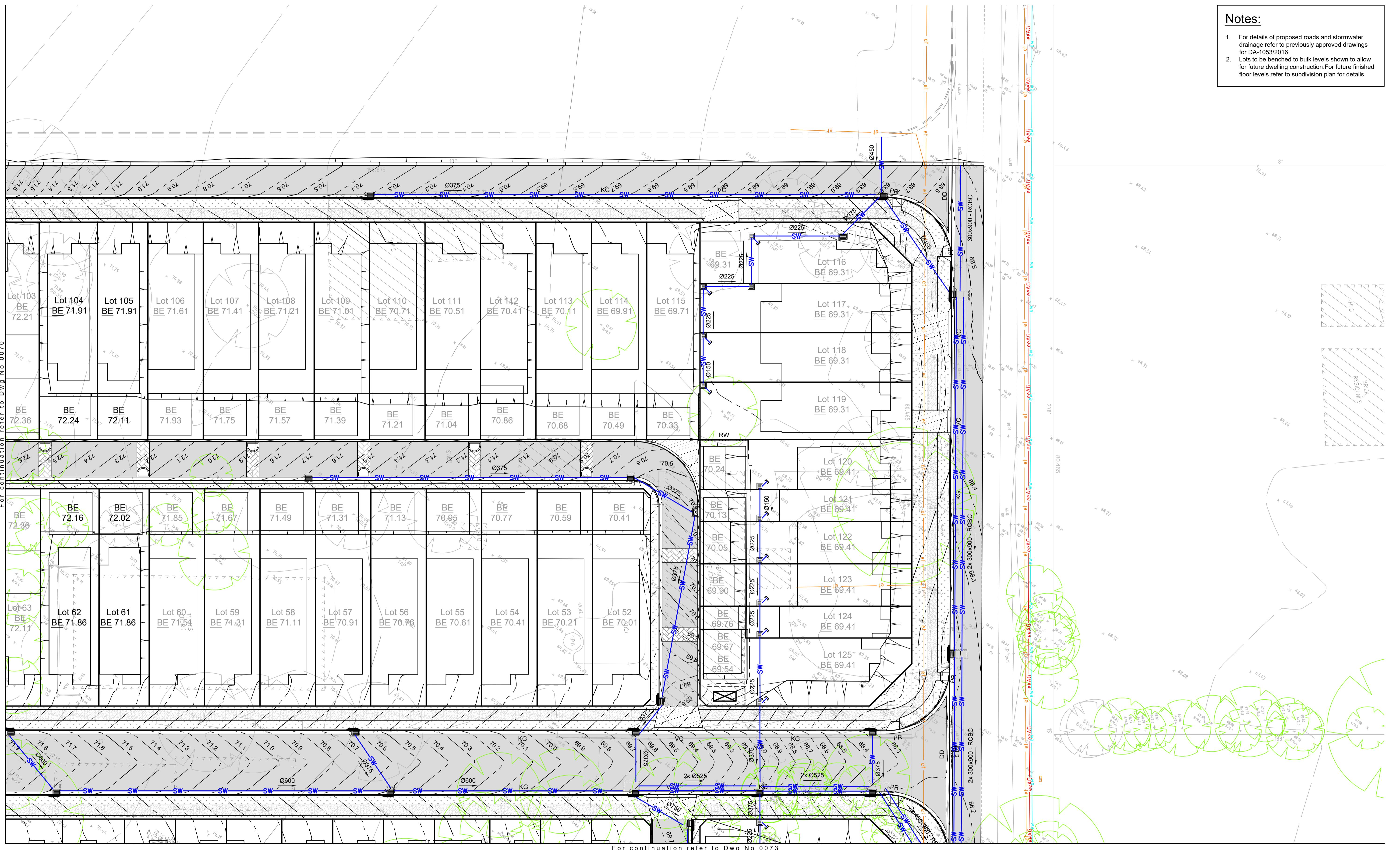
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Client  
**Vantage Property Group  
Pty Ltd**

Title  
**230 Sixth Avenue and  
68 Edmondson Avenue, Austral  
Situworks and Stormwater  
Management Plan  
Sheet 1**

Designed	P.Cavanagh	Eng check	D.Reilly
Drawn	A.Paciben	Coordination	J.Taylor
Dwg check	A.Singh	Approved	A.Cameron
Scale at A1	1:250	Status	Rev P4 Sec STD
Drawing Number	MMD-369954-C-DR-AB-S96-0070		



## Notes:

1. For details of proposed roads and stormwater drainage refer to previously approved drawings for DA-1053/2016
  2. Lots to be benched to bulk levels shown to allow for future dwelling construction. For future finished floor levels refer to subdivision plan for details

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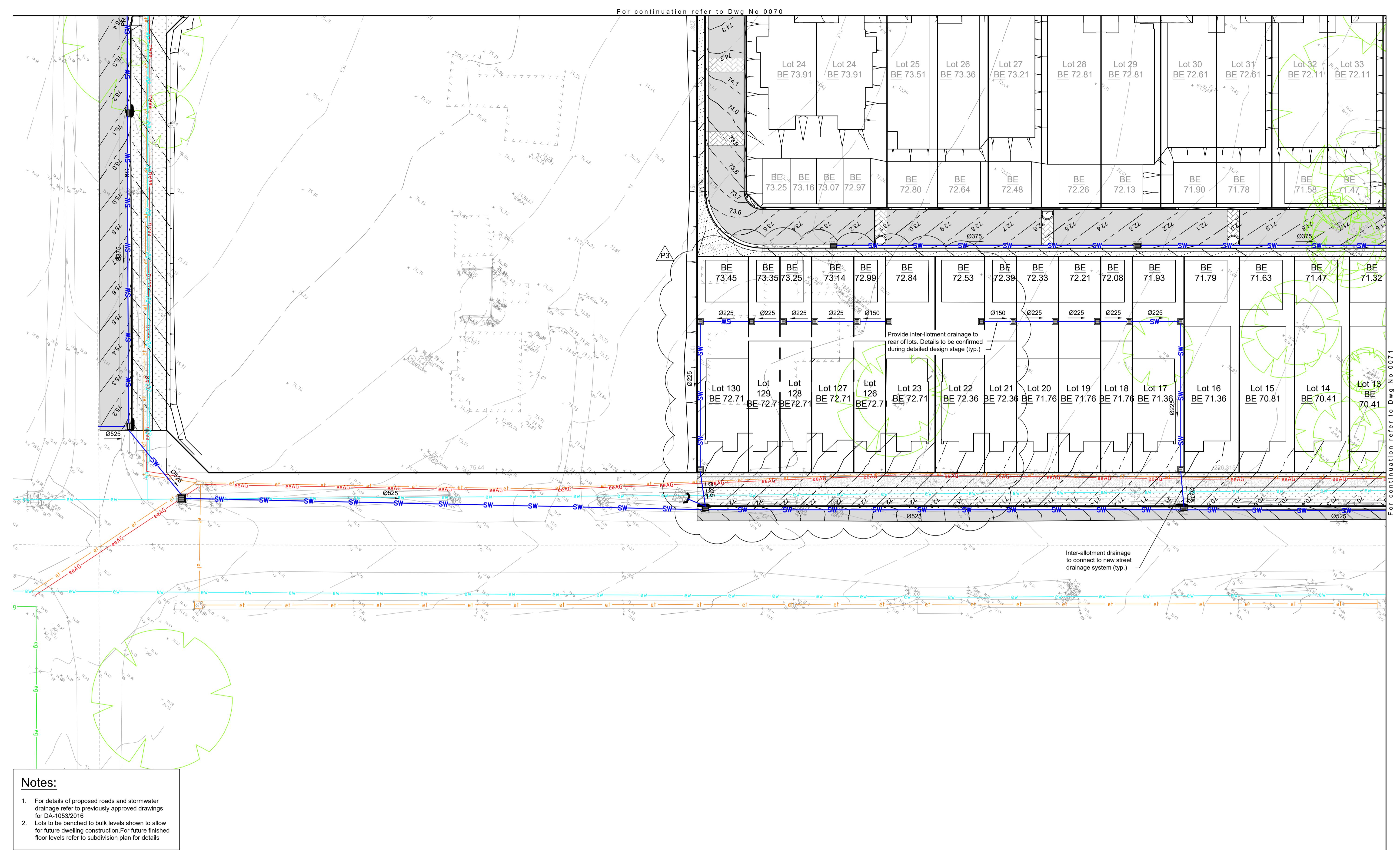
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Client  
**Vantage Property Group  
Pty Ltd**

Title  
**230 Sixth Avenue and  
68 Edmondson Avenue, Austral  
Siteworks and Stormwater  
Management Plan  
Sheet 2**

Designed	P.Cavanagh		Eng check	D.Reilly	
Drawn	A Paciben		Coordination	J.Taylor	
Dwg check	A.Singh		Approved	A.Cameron	
Scale at A1 1:250		Status APR	Rev P4	Sec STD	
Drawing Number <b>MMD-369954-C-DR-AB-S96-0071</b>					



## Notes:

1. For details of proposed roads and stormwater drainage refer to previously approved drawings for DA-1053/2016
  2. Lots to be benched to bulk levels shown to allow for future dwelling construction. For future finished floor levels refer to subdivision plan for details

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P3	12.09.17	ADS	Re-issued for Section 96 Approval	DR	AC
P2	11.08.17	AMP	Issued for Section 96 Approval	DR	AC
P1	30.06.17	AMP	Issued for Information	DR	AC
Rev	Date	Drawn	Description	Ch'k'd	App'd





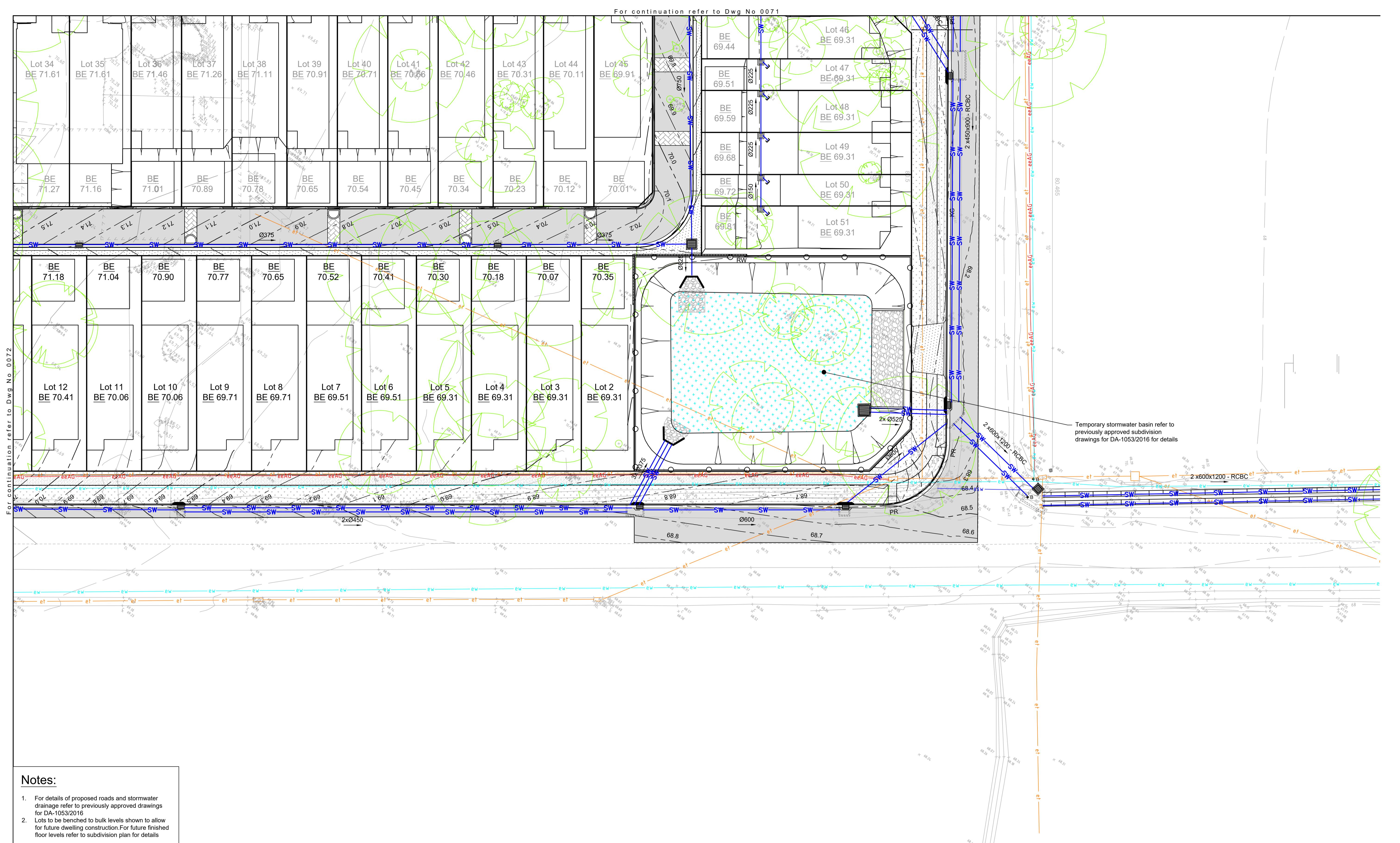
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**Client** Vantage Property Group  
Pty Ltd

**Title** 230 Sixth Avenue and  
68 Edmondson Avenue, Austral  
Siteworks and Stormwater  
Management Plan  
Sheet 3

Designed	P.Cavanagh		Eng check	D.Reilly	
Drawn	A Paciben		Coordination	J.Taylor	
Dwg check	A.Singh		Approved	A.Cameron	
Scale at A1 1:250	Status APR	Rev P4	Sec STD		
Drawing Number <b>MMD-369954-C-DR-AB-S96-0072</b>					



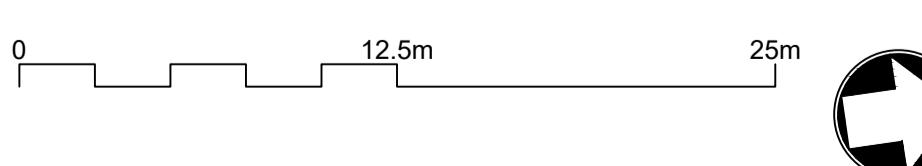
#### Notes:

1. For details of proposed roads and stormwater drainage refer to previously approved drawings for DA-1053/2016
2. Lots to be bunched to bulk levels shown to allow for future dwelling construction. For future finished floor levels refer to subdivision plan for details

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Client  
Vantage Property Group  
Pty Ltd

Title  
230 Sixth Avenue and  
68 Edmondson Avenue, Austral  
Sitemarks and Stormwater  
Management Plan  
Sheet 4

Designed	P.Cavanagh	Eng check	D.Reilly
Drawn	A.Pacibeni	Coordination	J.Taylor
Dwg check	A.Singh	Approved	A.Cameron
Scale at A1	1:250	Status	APR
Drawing Number		Rev	P4
		Sec	STD

MMD-369954-C-DR-AB-S96-0073