

# LEGACY PROPERTY

## 190 RABY ROAD GLEDSDWOOD HILLS

### STAGE 1

### FOR SWC APPROVAL

I, GARY WARREN, OF SMEC AUSTRALIA PTY LTD, CONSULTING SURVEYORS, WOLLONGONG, HEREBY CERTIFY THAT ALL WORKS AS SHOWN IN RED HAVE BEEN EXECUTED AND THAT PIPES HAVE BEEN LAID WITHIN THE EASEMENTS PROVIDED.



REGISTERED SURVEYOR (ID: SU002005)  
DATE SURVEYED 23/01/2026

WAE NOTE: SEE SHEET 1411 FOR FLOOD EXTENT LINES

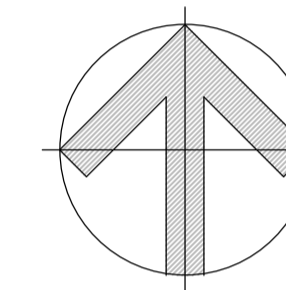


LOCALITY PLAN  
NOT TO SCALE



PREPARED BY:  
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#### DRAWING SCHEDULE

DRAWING NUMBER	DRAWING TITLE	REVISION NUMBER
P00529-CI-SWC-1001	COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE	11 / 11
P00529-CI-SWC-1021	GENERAL NOTES - SHEET 1	6
P00529-CI-SWC-1022	GENERAL NOTES - SHEET 2	6
P00529-CI-SWC-1031	GENERAL ARRANGEMENT PLAN	8
P00529-CI-SWC-1041	STAGING PLAN	6
P00529-CI-SWC-1051	EXISTING SITE SURVEY AND SERVICES	6
P00529-CI-SWC-1061	DEMOLITION AND TREE REMOVAL / RETENTION PLAN	6
P00529-CI-SWC-1101	EROSION AND SEDIMENT CONTROL PLAN - SHEET 1	6
P00529-CI-SWC-1102	EROSION AND SEDIMENT CONTROL PLAN - SHEET 2	8
P00529-CI-SWC-1161	EROSION AND SEDIMENT CONTROL DETAILS	6
P00529-CI-SWC-1201	CUT/FILL EARTHWORKS PLAN	8
P00529-CI-SWC-1201	SITE SECTIONS - SHEET 1	6
P00529-CI-SWC-1232	SITE SECTIONS - SHEET 2	7
P00529-CI-SWC-1233	SITE SECTIONS - SHEET 3	6
P00529-CI-SWC-1234	SITE SECTIONS - SHEET 4	7
P00529-CI-SWC-1235	SITE SECTIONS - SHEET 5	7
P00529-CI-SWC-1301	STORMWATER CATCHMENT PLAN	8
P00529-CI-SWC-1321	CIVIL WORKS AND STORMWATER DRAINAGE PLAN - SHEET 1	7
P00529-CI-SWC-1322	CIVIL WORKS AND STORMWATER DRAINAGE PLAN - SHEET 2	9
P00529-CI-SWC-1351	SIGNAGE, LINEMARKING AND PAVEMENT PLAN	10
P00529-CI-SWC-1361	TURNING PATH PLAN - SHEET 1	10
P00529-CI-SWC-1362	TURNING PATH PLAN - SHEET 2	6
P00529-CI-SWC-1383	TURNING PATH PLAN - SHEET 3	6
P00529-CI-SWC-1384	TURNING PATH PLAN - SHEET 4	6
P00529-CI-SWC-1385	TURNING PATH PLAN - SHEET 5	6
P00529-CI-SWC-1386	TURNING PATH PLAN - SHEET 6	8
P00529-CI-SWC-1387	TURNING PATH PLAN - SHEET 7	4
P00529-CI-SWC-1388	TURNING PATH PLAN - SHEET 8	4
P00529-CI-SWC-1401	CIVIL WORKS AND PAVEMENT DETAILS	6
P00529-CI-SWC-1462	STORMWATER DRAINAGE DETAILS	7
P00529-CI-SWC-1411	BIO-RETENTION BASIN PLAN AND TYPICAL DETAIL	7
P00529-CI-SWC-1412	BIO-RETENTION BASIN DETAILS	7
P00529-CI-SWC-1421	BIO-RETENTION/DETENTION BASIN LONGITUDINAL SECTIONS	7
P00529-CI-SWC-1422	BASIN OUTLET LONGITUDINAL SECTIONS	7
P00529-CI-SWC-1441	STORMWATER LONGITUDINAL SECTIONS - SHEET 1	6
P00529-CI-SWC-1442	STORMWATER LONGITUDINAL SECTIONS - SHEET 2	6
P00529-CI-SWC-1443	STORMWATER LONGITUDINAL SECTIONS - SHEET 3	6
P00529-CI-SWC-1444	STORMWATER LONGITUDINAL SECTIONS - SHEET 4	6
P00529-CI-SWC-1445	STORMWATER LONGITUDINAL SECTIONS - SHEET 5	6
P00529-CI-SWC-1446	STORMWATER LONGITUDINAL SECTIONS - SHEET 6	6
P00529-CI-SWC-1447	STORMWATER LONGITUDINAL SECTIONS - SHEET 7	6
P00529-CI-SWC-1448	STORMWATER LONGITUDINAL SECTIONS - SHEET 8	3
P00529-CI-SWC-1461	STORMWATER DRAINAGE CALCS - SHEET 1	6
P00529-CI-SWC-1462	STORMWATER DRAINAGE CALCS - SHEET 2	6
P00529-CI-SWC-1463	STORMWATER DRAINAGE CALCS - SHEET 3	6
P00529-CI-SWC-1464	STORMWATER DRAINAGE CALCS - SHEET 4	6
P00529-CI-SWC-1465	STORMWATER DRAINAGE CALCS - SHEET 5	6
P00529-CI-SWC-1466	STORMWATER DRAINAGE CALCS - SHEET 6	6
P00529-CI-SWC-1467	STORMWATER DRAINAGE CALCS - SHEET 7	1
P00529-CI-SWC-1501	TYPICAL ROAD CROSS SECTIONS	8
P00529-CI-SWC-1521	ROAD LONGITUDINAL SECTIONS - SHEET 1	8
P00529-CI-SWC-1522	ROAD LONGITUDINAL SECTIONS - SHEET 2	6
P00529-CI-SWC-1523	ROAD LONGITUDINAL SECTIONS - SHEET 3	6
P00529-CI-SWC-1541	ROAD CROSS SECTIONS - SHEET 1	8
P00529-CI-SWC-1542	ROAD CROSS SECTIONS - SHEET 2	6
P00529-CI-SWC-1543	ROAD CROSS SECTIONS - SHEET 3	6
P00529-CI-SWC-1544	ROAD CROSS SECTIONS - SHEET 4	6
P00529-CI-SWC-1545	ROAD CROSS SECTIONS - SHEET 5	5
P00529-CI-SWC-1546	ROAD CROSS SECTIONS - SHEET 6	5
P00529-CI-SWC-1561	KERB RETURN PLAN AND LONGITUDINAL SECTIONS - SHEET 1	6
P00529-CI-SWC-1562	KERB RETURN PLAN AND LONGITUDINAL SECTIONS - SHEET 2	6
P00529-CI-SWC-1563	KERB RETURN PLAN AND LONGITUDINAL SECTIONS - SHEET 3	6
P00529-CI-SWC-1564	KERB RETURN PLAN AND LONGITUDINAL SECTIONS - SHEET 4	6
P00529-CI-SWC-1601	RETAINING WALL LOCALITY PLAN - SHEET 1	8
P00529-CI-SWC-1602	RETAINING WALL LOCALITY PLAN - SHEET 2	8
P00529-CI-SWC-1621	RETAINING WALL ELEVATIONS - SHEET 1	6
P00529-CI-SWC-1622	RETAINING WALL ELEVATIONS - SHEET 2	6
P00529-CI-SWC-1623	RETAINING WALL ELEVATIONS - SHEET 3	6
P00529-CI-SWC-1801	SERVICES COORDINATION PLAN - SHEET 1	6
P00529-CI-SWC-1802	SERVICES COORDINATION PLAN - SHEET 2	8
P00529-CI-SWC-1901	SAFETY IN DESIGN	6

XREF: CAD File: X:\Projects\3001\35\3001\3567 Gledswood Hills\500 Survey\502 Magriet\WAE\WAE DRAWINGS\STAGE 1 - WAE\SMC WAE P00529-CI-SWC-1001.dwg

Rev.	Date	Revision Description	Drawn	Design	Appd.
11	19.08.2025	ISSUED FOR SWC APPROVAL	AC	MB	JL
10	15.08.2025	ISSUED FOR SWC APPROVAL	AC	MB	JL
9	14.07.2025	ISSUED FOR SWC APPROVAL	AC	AM	JL
8	26.06.2025	ISSUED FOR SWC APPROVAL	AC	AM	JL
7	02.05.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
6	11.04.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
5	19.03.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
4	26.02.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
3	20.12.2024	ISSUED FOR SWC APPROVAL	AC	MB	JZ



DO NOT SCALE		Drawn AC	Date 19.08.2025	Client <b>LEGACY PROPERTY</b>
Disclaimer and Copyright This document may only be used by GDS's Client in accordance with the terms of the retainer. GDS does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.		Drafting Checked JL	Date 19.08.2025	Project <b>190 RABY ROAD, GLEDSDWOOD HILLS</b> <b>STAGE 1</b>
		Design MB	Date 19.08.2025	
Datum AHD		Design Checked RL	Date 19.08.2025	Revision <b>11</b>
Coordinates MGA-2020		Approved JL	Date 19.08.2025	Drawing Number <b>P00529-CI-SWC-1001</b>
Size A1		WAE MODEL COORDS TO MGA94		

**GENERAL**

1. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH CAMDEN COUNCIL STANDARDS.
2. CAMDEN COUNCIL STANDARD DETAILS TO BE USED WHERE POSSIBLE.
3. UTILITY ADJUSTMENTS AT DEVELOPERS EXPENSE.
4. CONDUITS TO BE PLACED WHERE REQUIRED BY THE RELEVANT AUTHORITIES.

**SURVEY NOTES**

1. THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY PROUST & GARDNER AND SMEC, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN.
2. GDS DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS. ALL SITE SET OUT AND CONTROL POINTS ARE TO BE CERTIFIED BY A REGISTERED SURVEYOR.
3. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT GDS.

**EXISTING UNDERGROUND SERVICES NOTES**

1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE. GDS CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
2. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ON SITE INCLUDING HAND EXCAVATION WHERE NECESSARY. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

**BULK EARTHWORKS NOTES**

1. ORIGIN OF LEVELS: REFER SURVEY NOTES
2. STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND STOCK PILE AS DIRECTED BY SUPERINTENDENT.
3. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.
4. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:
 

LOCATION	STANDARD DRY DENSITY (AS 1289 ES.1.1.)
UNDER BUILDING SLABS ON GROUND	98%
UNDER ROADS AND CARPARKS	100%
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	95%
5. FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX.
6. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN -
  - (A) 1 TEST PER 1000m<sup>3</sup> OF FILL PLACED PER 300 LAYER OF FILL.
  - (B) 3 TESTS PER VISIT
  - (C) 1 TEST PER 1000m<sup>3</sup> OF EXPOSED SUBGRADE "LEVEL 1" TESTING SHALL BE TESTING IN ACCORDANCE WITH AS 3798.
7. FILLING TO BE PLACED IN MAXIMUM 150mm - LOOSE LAYERS AND COMPACTED AS SPECIFIED.
8. NO FILLING SHALL TAKE PLACE TO EXPOSED SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF GDS AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.

**EROSION AND SEDIMENT CONTROL NOTES****GENERAL INSTRUCTIONS**

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF COUNCIL, NSW OFFICE OF WATER, DEPARTMENT OF CLIMATE CHANGE, ENERGY, THE ENVIRONMENT AND WATER (NSW), THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR, AND SHALL REPRESENT THE MINIMUM REQUIREMENT ONLY.
2. THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED OR AS OTHERWISE DIRECTED BY THE SUPERINTENDENT. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
  - a. LOCAL AUTHORITY REQUIREMENTS
  - b. EPA REQUIREMENTS
  - c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

**LAND DISTURBANCE**

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
  - a. INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN, REFER DETAIL.
  - b. CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
  - c. INSTALL SEDIMENT BASIN AS SHOWN ON PLAN (D) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
  - d. 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.

**EROSION CONTROL**

7. DURING WINDY WEATHER, LARGE UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

**SEDIMENT CONTROL**

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
10. 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.
11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.
13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

**TREE PROTECTION**

14. THE TREES THAT ARE TO BE RETAINED ARE TO BE PROTECTED DURING ALL WORKS STRICTLY IN ACCORDANCE WITH AS1970-2009 PROTECTION OF TREES ON DEVELOPMENT SITES.
15. AT MINIMUM A 1.8m HIGH CHAIN-WIRE FENCE IS TO BE ERECTED AT LEAST THREE METRES FROM THE BASE OF EACH TREE AND IS TO BE IN PLACE PRIOR TO WORKS COMMENCING TO RESTRICT THE FOLLOWING OCCURRING:
  - 15.1. STOCKPILING OF MATERIALS WITHIN THE ROOT PROTECTION ZONE.
  - 15.2. PLACEMENT OF FILL WITHIN THE ROOT PROTECTION ZONE.
  - 15.3. PARKING OF VEHICLES WITHIN THE ROOT PROTECTION ZONE, AND
  - 15.4. COMPACTION OF SOIL WITHIN THE ROOT PROTECTION ZONE.
16. ALL AREAS WITHIN THE ROOT PROTECTION ZONE ARE TO BE MULCHED WITH COMPOSED LEAF MULCH TO A DEPTH OF NOT LESS THAN 100mm.
17. A SIGN IS TO BE ERECTED INDICATING THE TREES ARE PROTECTED.
18. THE INSTALLATION OF SERVICES WITHIN THE ROOT PROTECTION ZONE IS NOT TO BE UNDERTAKEN WITHOUT PRIOR CONSENT FROM COUNCIL.

**CIVIL WORKS NOTES**

1. ORIGIN OF LEVELS: REFER TO SURVEY NOTES
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO THE SUPERINTENDENT.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75).
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO TNSW SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TNSW FORM 3051, COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL BE IN ACCORDANCE WITH COUNCIL ENGINEERING SPECIFICATIONS.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TNSW FORM 3051, AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL BE IN ACCORDANCE WITH COUNCIL ENGINEERING SPECIFICATIONS.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH TNSW FORM 3051 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF THE SUPERINTENDENT.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

**KERBING NOTES**

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O IN REINFORCED CONCRETE NOTES.
2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 175mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).
3. EXPANSION JOINTS (E/J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTERS EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
4. WEAKENED PLANE JOINTS TO BE 3m MIN WIDE AND LOCATED AT 3m CENTERS EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
5. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
6. IN THE REPLACEMENT OF KERB AND GUTTER - EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O. EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE. EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

**STORMWATER DRAINAGE NOTES**

1. STORMWATER DESIGN CRITERIA:
  - (A) ANNUAL EXCEEDANCE PROBABILITIES (AEP):
 

20% (1 IN 5)	MINOR (PIPED) NETWORK
1% (1 IN 100)	MAJOR (OVERLAND FLOW) SYSTEM
  - (B) RAINFALL INTENSITIES:
 

ARR 2019 RAINFALL FROM BUREAU OF METEOROLOGY WEBSITE
--
  - (C) HYDROLOGIC METHOD:
 

DRAINS WITH ARR 2019 PROCEDURES WITH ILSAX METHOD
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2. PIPES 375 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
3. PIPES 300 DIA AND LESS SHALL BE DWV GRADE (CLASS SN8) uPVC WITH SOLVENT WELDED JOINTS.
4. ALL PIPES ARE TO BE UNIFORMLY SUPPORTED ALONG THE LENGTH OF THE BARREL BY SUITABLE FILL MATERIAL. REFER TO BEDDING SUPPORT TABLE.
5. PIPES WITH SOCKETS SHALL BE LAID IN BEDDING WHERE SUITABLE RECESSES HAVE BEEN PROVIDED TO ENSURE PIPES DO NOT BEAR ON THEIR SOCKETS.
6. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
7. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75).
8. REFER TO ASINZS 3725:2007 TABLE B1 FOR REQUIRED FILL DEPTHS ABOVE PIPE BARREL PRIOR TO USE OF COMPACTION MACHINERY OR TRAVERSING OF PIPES BY GENERAL SITE EQUIPMENT.
9. WHERE CONSTRUCTION METHODS REQUIRE HIGHER CLASS PIPE, THE CONTRACTOR SHALL REFER TO AS 3725 (2007) TO DETERMINE THE APPROPRIATE PIPE CLASS. PROPOSED PIPE CLASS SHALL BE REVIEWED BY GDS PRIOR TO INSTALLATION.
10. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF ASINZS 3500.3:2015.
11. PRECAST PITS MAY BE USED EXTERNALLY TO THE BUILDING SUBJECT TO APPROVAL BY THE SUPERINTENDENT.
12. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
13. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
14. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
15. GRATES AND COVERS SHALL CONFORM TO AS 3996.
16. ALL BOX CULVERTS SHALL BE STRUCTURALLY DESIGNED BY THE MANUFACTURER AND DELIVERED TO SITE AS FIT FOR PURPOSE.
17. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
18. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.
19. SUBSOIL DRAINAGE LINES TO BE PLACED AS INDICATED ON DRAWINGS.
20. A MINIMUM OF 3m OF SUBSOIL LINE SHALL BE LAID INTO UPSTREAM SIDE OF COUNCIL PITS.
21. BULKHEADS TO BE PROVIDED FOR STORMWATER DRAINAGE STEEPER THAN 15% GRADE.

**CONCRETE AND REINFORCING NOTES**

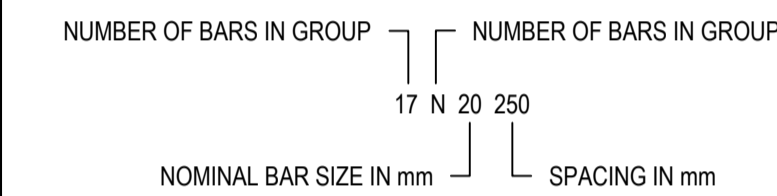
1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. CONCRETE QUALITY
 

ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 Fc MPA AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
- 3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY HYDER CONSULTING.
- 4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
- 5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- 6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.T.A. SPECIFICATION R83.
- 7. REINFORCEMENT SYMBOLS:
 

N	DENOTES GRADE 450 N BARS TO AS 4671 GRADE N
R	DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 4671
SL	DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 4671



THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 4671.

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

**EXISTING AUTHORITIES**

1. ALL WORKS WITHIN EXISTING EASEMENTS TO COMPLY WITH RELEVANT SERVICE AUTHORITY REQUIREMENTS AND GUIDELINES (JEMENA AND TRANSGRID).
2. WORKS ADJACENT TO WATER NSW CANAL TO BE IN ACCORDANCE WITH WATER NSW REQUIREMENTS AND GUIDELINES.
3. NO PUBLIC ACCESS IS PERMITTED INTO THE UPPER CANAL CORRIDOR AT ANY TIME. IF ACCESS IS REQUIRED DURING CONSTRUCTION, ACCESS CONSENT WILL BE REQUIRED FROM WATERNSW.

**BIO-RETENTION FILTER MEDIA SPECIFICATION****MATERIALS:**

BIO-RETENTION FILTER MEDIA, TRANSITION LAYER AND DRAINAGE LAYERS TO BE IN ACCORDANCE WITH CURRENT VERSION OF FAWB DOCUMENT "STORMWATER BIO-FILTRATION SYSTEMS ADOPTION GUIDELINES" AND THE FOLLOWING:

**(A) BIO-RETENTION FILTER MEDIA**

1. BIO-RETENTION MEDIA IS TO BE FREE OF RUBBISH AND DELETERIOUS MATERIAL.
2. BIO-RETENTION FILTER MEDIA SATURATED HYDRAULIC CONDUCTIVITY TO BE MIN. 200MMHR USING TEST METHOD ASTM F1815-06.
3. BIO-RETENTION FILTER MEDIA PARTICLE SIZE DISTRIBUTION IS TO BE AS FOLLOWS:
 

CLAY & SILT	<3%	(<0.05mm)
VERY FINE SAND	5-30%	(0.05-0.15mm)
FINE SAND	10-30%	(0.15-0.25mm)
MEDIUM TO COARSE SAND	40-60%	(0.25-1.0mm)
COARSE SAND	7-10%	(1.0-2.0mm)
FINE GRAVEL	<3%	(2.0-3.4mm)

THE COMBINED PERCENTAGE OF CLAY AND SILT MUST NOT EXCEED 3%(W/W) UNDER ANY CIRCUMSTANCES.
4. BIO-RETENTION FILTER MEDIA IS TO BE TESTED AND COMPLY WITH THE FOLLOWING REQUIREMENTS:
  - a. ORGANIC MATTER CONTENT IN ACCORDANCE WITH AS 4419 AT LEAST 3%(W/W).
  - b. TOTAL NITROGEN (TN) CONTENT <1000mg/kg.
  - c. ORTHOPHOSPHATE (PO) CONTENT <80mg/kg.
  - d. WHERE PLANTS WITH MODERATE PHOSPHOROUS SENSITIVITY ARE TO BE USED, TOTAL PHOSPHOROUS CONCENTRATION SHOULD BE <20mg/kg.
  - e. AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 - PH 5.5-7.5 (PH 1.5 IN WATER).
  - f. ELECTRICAL CONDUCTIVITY (EC) AS SPECIFIED FOR "NATURAL SOILS AND SOILS BLENDS" AS4419 - 1.2ds/m.
  - g. DISPENSABILITY - AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 CATEGORY 1 OR 2.
  - g. TEXTURE - LOAMY SAND AS PER AS4419.

PRIOR TO PLACEMENT OF THE FILTER MEDIA A STATEMENT IS TO BE SUBMITTED FROM A QUALIFIED HORTICULTURIST CONFIRMING THAT THE SOIL IS CAPABLE OF SUPPORTING A HEALTHY VEGETABLE COMMUNITY.

6. TESTS CONFIRMING THE REQUIREMENTS OF ITEMS 1 TO 4 ARE TO BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF FILTER MEDIA.

**(B) TRANSITION LAYER**

1. TRANSITION LAYER MATERIAL SHALL BE A CLEAN, WELL GRADED SAND MATERIAL CONTAINING <2% FINES.
2. THE PARTICLE SIZE DISTRIBUTION OF THE SAND TO BE ASSESSED TO ENSURE.

D15 (TRANSITION LAYER) < 5 x D85 (FILTER MEDIA)

WHERE: D15 (TRANSITION LAYER) IS THE 15TH PERCENTILE PARTICLE SIZE IN THE TRANSITION LAYER MATERIAL (i.e. 15% OF THE SAND IS SMALLER THAN D15mm), AND D85 (FILTER MEDIA) IS THE 85th PERCENTILE PARTICLE SIZE IN THE FILTER MEDIA.

**(C) DRAINAGE LAYER A**

DRAINAGE LAYER MATERIAL IS TO BE CLEAN, FINE GRAVEL, SUCH AS A 2 - 5mm WASHED SCREENING. THE PARTICLE SIZE DISTRIBUTION TO BE:

D15 (DRAINAGE LAYER) < 5 x D85 TRANSITION LAYER)

WHERE: D15 (DRAINAGE LAYER) IS THE 15th TRANSITION LAYER PARTICLE SIZE IN THE TRANSITION LAYER MATERIAL (i.e. 15% OF THE SAND IS SMALLER THAN D15mm), AND D85 (TRANSITION LAYER) IS THE 85th PERCENTILE PARTICLE SIZE IN THE FILTER MEDIA.

**INSTALLATION:**

FILTER MATERIAL IS TO BE LIGHTLY COMPACTED EG. A SINGLE PASS WITH A DRUM LAWN ROLLER. UNDER NO CIRCUMSTANCES SHOULD HEAVY EQUIPMENT OR MULTIPLE PASSES BE MADE. FILTER MEDIA SHOULD BE INSTALLED IN TWO LIFTS UNLESS THE DEPTH IS LESS THAN 500mm.

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Rev.	Date	Revision Description	Drawn	Design	Appd.
6	11.04.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
5	19.03.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
4	26.02.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
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2	29.10.2024	ISSUED FOR SWC APPROVAL	AC	CS	JZ
1	16.08.2024	ISSUED FOR SWC APPROVAL	AC	AM	JZ



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Coordinates	MGA-2020
Size	A1

Drawn	Date	Client	LEGACY PROPERTY	
AC	11.04.2025		Project	190 RABY ROAD, GLEDSWOOD HILLS
Drafting Checked	Date			STAGE 1
JZ	11.04.2025		Title	GENERAL NOTES
Design	Date			SHEET 1
MB	11.04.2025		Revision	6
Design Checked	Date		Drawing Number	P00529-CI-SWC-1021
RL	11.04.2025			
Approved	Date			
JZ	11.04.2025			

## CAMDEN COUNCIL ENGINEERING SPECIFICATIONS

### GENERAL NOTES:

- G1 ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CAMDEN COUNCIL'S ENGINEERING DESIGN AND ENGINEERING CONSTRUCTION SPECIFICATIONS AND TO THE REQUIREMENTS OF THE CERTIFYING AUTHORITY.
- G2 INSPECTIONS BY CERTIFYING AUTHORITY ARE REQUIRED AT THE FOLLOWING STAGES AND THE WORKS APPROVED PRIOR TO CONTINUANCE OF ANY FUTURE WORK:
  - a. FOLLOWING INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES/MEASURES.
  - b. PRIOR TO BACKFILLING PIPELINES, SUBSOIL DRAINS AND DAMS.
  - c. PRIOR TO CASTING OF PITS AND OTHER CONCRETE STRUCTURES, INCLUDING KERB AND GUTTER BUT FOLLOWING PLACEMENT OF FOOTINGS, FORMWORK, AND REINFORCEMENT.
  - d. PRIOR TO PLACEMENT OF SUBBASE AND ALL SUBSEQUENT PAVEMENT LAYERS. A PROOF ROLLER TEST OF EACH PAVEMENT LAYER IS REQUIRED.
  - e. FORMWORKS PRIOR TO POURING CONCRETE IN PARKING AREA FOR FOOTPATH CROSSING AND OTHER ASSOCIATED WORK.
  - f. PRIOR TO BACKFILLING PUBLIC UTILITY CROSSINGS IN ROAD RESERVES.
  - g. FINAL INSPECTIONS AFTER ALL WORKS ARE COMPLETED AND 'WORKS AS EXECUTED' PLANS HAVE BEEN SUBMITTED TO COUNCIL.
- G3 NO TREES ARE TO BE REMOVED UNLESS APPROVAL IS GRANTED BY COUNCIL'S LANDSCAPE COMPLIANCE OFFICER OR AS AUTHORISED BY DEVELOPMENT CONSENT.
- G4 MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
- G5 NO WORK IS TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER/S.
- G6 VEHICULAR ACCESS AND ALL UTILITIES/SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- G7 ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER.
- G8 COUNCIL ENGINEERS HAVE DISCRETION TO VARY, AS CONSIDERED NECESSARY, THE ENGINEERING REQUIREMENTS IN RESPECT OF A PARTICULAR SUBDIVISION OR DEVELOPMENT HAVING REGARD TO THE SITE CONTEXT.

### EARTHWORKS NOTES:

- E1 EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION TESTING RESULTS FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200 mm.
- E2 COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 95% FOR SITE FILLING AND 100% FOR ROAD PAVEMENT SUBGRADES HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289.5.3.1 OR AS.1289.5.1.1. THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'. WHERE IT IS PROPOSED TO USE TEST METHOD AS1289.5.8.1 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS.
- E3 THE SUITABLE QUALIFIED GEOTECHNICAL ENGINEER SHALL HAVE A LEVEL 1 RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS', AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS BY WRITTEN NOTIFICATION.
- E4 IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1(V):4(H), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE COUNCIL.
- E5 ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50 mm TO ASSIST WITH ADHESION OF TOPSOIL TO BATTER FACE.
- E6 PROVIDE MINIMUM 150 mm AND MAXIMUM 300 mm TOPSOIL WITH ON FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 14 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.
- E7 THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PRODUCED BY LANDCOM.
- E8 A MINIMUM 1 METRE WIDE, CONTINUOUS STRIP OF COUCH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS AND OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE AND SHALL BE MAINTAINED AND REPLACED AS REQUIRED DURING THE CONSTRUCTION MAINTENANCE PERIOD.

## CAMDEN COUNCIL ENGINEERING SPECIFICATIONS (CONT'D)

### ROADWORKS NOTES:

- R1 SUBGRADES AND SUBBASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
- R2 SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE).
- R3 150 X 50 H.D. GALVANISED STEEL KERB OUTLETS TO BE PLACED IN ALL KERB TYPES ON LOW SIDE OF LOTS. PROVIDE SUITABLE ADAPTOR TO ALLOW CONNECTION OF 90 mm DIAMETER STORMWATER PIPE.
- R4 LIFLESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS AND WHERE REQUIRED BY COUNCIL.
- R5 SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING INTEGRAL ENERGY, TELSTRA AND SYDNEY WATER.
- R6 PROPOSED UTILITIES AND SERVICES CROSSING EXISTING ROADS SHALL BE PROVIDED FOR USING A TRENCHLESS TECHNIQUE SO AS NOT TO DAMAGE THE EXISTING SURFACE. ALL SERVICE CONDUITS UNDER ROADS MUST BE LAID TO A MINIMUM DEPTH OF 750 mm.
- R7 CONCRETE FOOTPATH CONSTRUCTION IS TO BE BONDED WITH COUNCIL PENDING COMPLETION OF UTILITY/SERVICES AND SURROUNDING DWELLINGS.
- R8 ALL TEMPORARY ROADS MUST BE TEMPORARILY SEALED WITH A SINGLE COAT FLUSH SEAL.
- R9 ALL PERMANENT ROADS MUST BE SEALED WITH A SINGLE COAT FLUSH SEAL AND 50 mm OF AC TO BE APPLIED IN TWO 25 mm THICK LAYERS. THE FINAL AC LAYER IS TO BE AC 10 AND IS TO BE BONDED WITH COUNCIL AND PLACED FOLLOWING APPROVAL FROM COUNCIL.
- R10 SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS1742.2 'TRAFFIC CONTROL DEVICES FOR GENERAL USE'. RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM TO AS1906 'RETRO-REFLECTIVE MATERIALS AND DEVICES FOR ROAD TRAFFIC CONTROL PURPOSES'. ALL APRONS AND KERB FACE ON CENTRAL ISLANDS OF ROUNDABOUTS AND ALL OTHER ISLANDS TO BE DELINEATED BY REFLECTIVE WHITE MARKING. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE PLAN APPROVED BY THE LOCAL TRAFFIC COMMITTEE.
- R11 ALL LOT AND HOUSE NUMBERS MUST BE STENCILLED ON KERB FACE.
- R12 STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE CONTRACTOR.

### STORMWATER NOTES:

- S1 ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED.
- S2 ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BE BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- S3 DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED TO ALL DOWNSTREAM PITS.
- S4 ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS.
- S5 ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 1.2-METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.
- S6 CONCRETE IS TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- S7 ALL INTERALLOTMENT DRAINAGE MUST HAVE A MINIMUM PIPE DIAMETER OF 150 mm AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- S8 ALL INTERALLOTMENT DRAINAGE LINES MUST BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS MUST BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.
- S9 INTERALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SYDNEY WATER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTERALLOTMENT DRAINAGE LINES.
- S10 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORKS AS EXECUTED' DRAWINGS.
- S11 ALL PLANS (BOTH DESIGN AND WAE) ARE TO CLEARLY DELINEATE THE EXTENT/LOCATION OF FLOOD LINES INCLUDING THE 5% AEP, 1% AEP AND PMF.
- S12 ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
- S13 PIT LINTELS ARE TO BE STENCILLED WITH APPLICABLE DISTINCTION STENCIL AVAILABLE FROM COUNCIL.
- S14 CATCH DRAINS MUST BE CONSTRUCTED AS REQUIRED BY THE APPROVED PLANS OR THE PRINCIPAL CERTIFYING AUTHORITY.
- S15 SOIL AND WATER MANAGEMENT PLANS ARE TO BE PREPARED FOR ALL DISTURBED SITES AND ADHERED TO AT ALL TIMES DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.

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Rev.	Date	Revision Description	Drawn	Design	Appd.
6	11.04.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
5	19.03.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
4	26.02.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
3	20.12.2024	ISSUED FOR SWC APPROVAL	AC	MB	JZ
2	29.10.2024	ISSUED FOR SWC APPROVAL	AC	CS	JZ
1	16.08.2024	ISSUED FOR SWC APPROVAL	AC	AM	JZ



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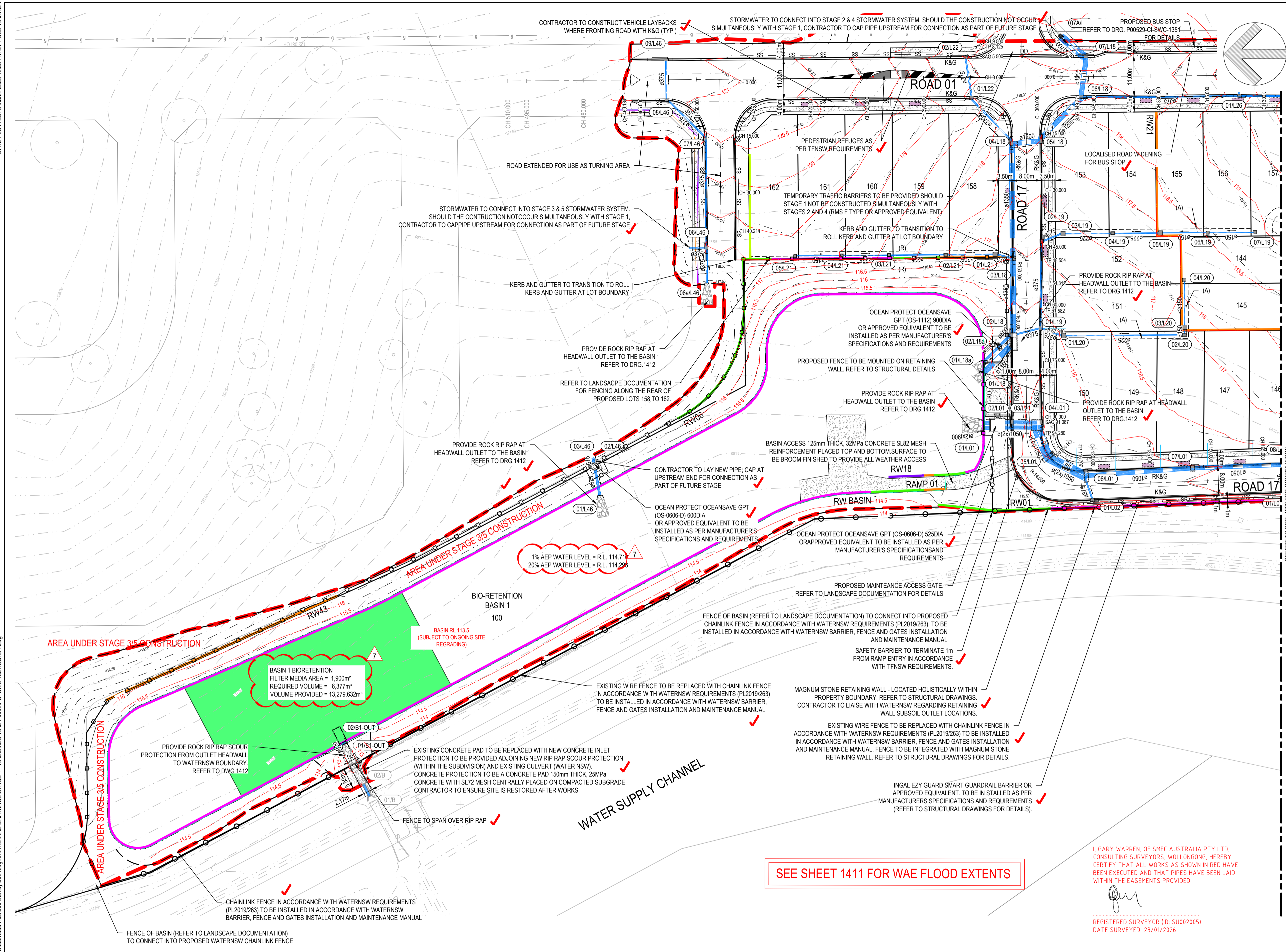
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Drawn AC	Date 11.04.2025	Client <b>LEGACY PROPERTY</b>
Drafting Checked JZ	Date 11.04.2025	Project 190 RABY ROAD, GLEDSDOOD HILLS
Design MB	Date 11.04.2025	STAGE 1
Design Checked RL	Date 11.04.2025	Title GENERAL NOTES
Approved JZ	Date 11.04.2025	Revision <b>6</b>
Drawing Number P00529-CI-SWC-1022		





### LEGEND

- EXTENT OF WORKS
- 101 EXISTING CONTOUR
- 101 PROPOSED CONTOUR
- FENCE (AS PER WATER NSW REQUIREMENTS)
- CHAINLINK FENCE FOR VEGETATION TO BE REHABILITATED
- PROPOSED TRAFFIC BARRIER
- BASIN FENCING
- RK&G ROLL KERB AND GUTTER
- K&G KERB AND GUTTER
- DD DISH DRAIN
- KO KERB ONLY
- PROPOSED RETAINING WALL (UP TO 0.50m) (LOT WIDTH <12.5m)
- PROPOSED RETAINING WALL (0.50m TO 1.00m)
- PROPOSED RETAINING WALL (1.00m TO 1.50m)
- PROPOSED RETAINING WALL (1.50m TO 2.80m)
- PROPOSED 1:4 BATTER (MAX HEIGHT 0.50m)
- 100 YEAR WATER LEVEL BOUNDARY
- PROPOSED STORMWATER PIPE
- SS PROPOSED SUBSOIL
- PROPOSED KERB OUTLET
- EXISTING STORMWATER PIPE
- EXISTING EASEMENT
- STORMWATER PITS
- STORMWATER HEAD WALL
- STORMWATER PIPE END CAP
- STORMWATER PIT LABEL
- (A) EASEMENT FOR DRAINAGE (2.00m WIDE)
- (R) EASEMENT FOR RETAINING WALL (0.90m WIDE)
- INDICATIVE BIN LOCATIONS

- ### NOTES:
1. REFER DRG. 1021 FOR GENERAL NOTES.
  2. GAS MAIN DEPTHS AND COVERS TBC WITH POTHOLING.
  3. HDPE PROTECTION SLABS TO BE PROVIDED OVER JEMENA GAS MAINS IN LARGE RURAL LOTS.
  4. PRIOR TO CONSTRUCTION, PIPELINE EASEMENT TO BE CLEARLY DELINEATED ON SITE BY TEMPORARY FENCING (OR OTHER MEANS AS AGREED BY APA), AND CLEARLY MARKED AS A HAZARDOUS WORK ZONE / RESTRICTED AREA.
  5. IN AREA DENOTED AS HIGH PRESSURE GAS PIPELINE RIGHT OF WAY, CONTRACTOR TO SEEK AUTHORISATION FROM PIPELINE OPERATOR PRIOR TO WORKS.
  6. FOR INFRASTRUCTURE AT THE BOUNDARY BETWEEN STAGE 1, 2 AND 4, THE DESIGN ASSUMES THAT THE STAGES WILL BE CONSTRUCTED SIMULTANEOUSLY. SHOULD THIS NOT OCCUR, CONTRACTOR TO CAP STORMWATER UPSTREAM, TERMINATE ROADS AND FOOTPATHS AND PROVIDE TEMPORARY BATTERS TO FUTURE STAGE.
  7. REFER TO LANDSCAPE PLANS BY "PLACE DESIGN GROUP" FOR LANDSCAPE AND TREE PLANTING.
  8. WHERE STORMWATER INTERFACES WITH RETAINING WALLS, AND FENCING, CONTRACTOR TO ENSURE THAT THE STORMWATER INFRASTRUCTURE IS INSTALLED BETWEEN FOOTINGS.
  9. SUBSOIL DRAINAGE (ADJACENT TO ROADS OR RETAINING WALLS), TO CONNECT INTO NEAREST STORMWATER PIT. IF NO STORMWATER PIT AVAILABLE, CONTRACTOR TO PROVIDE KERB OUTLET. RETAINING WALL SUBSOILS TO OUTLET INTO A SEPARATE KERB OUTLET.
  10. REFER TO COUNCIL STANDARD DRAWINGS FOR PROPOSED RESIDENTIAL DRIVEWAYS TO LOTS 110-111. REFER TO COUNCIL INDUSTRIAL DRIVEWAY STANDARD DRAWINGS FOR BASIN ACCESS RAMP, HARDSTANDS AND ENTRIES INTO THE WATER NSW CORRIDOR.
  11. FUTURE DRIVEWAY LOCATIONS TO CONSIDER STORM WATER PIT LOCATIONS WHERE PITS ARE LOCATED GREATER THAN 2m FROM THE ELONGATION OF THE PERPENDICULAR LOT BOUNDARY.

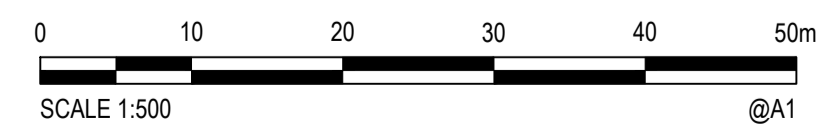
SEE SHEET 1411 FOR WAE FLOOD EXTENTS

GARY WARREN, OF SMC AUSTRALIA PTY LTD, CONSULTING SURVEYORS, WOLLONGONG, HEREBY CERTIFY THAT ALL WORKS AS SHOWN IN RED HAVE BEEN EXECUTED AND THAT PIPES HAVE BEEN LAID WITHIN THE EASEMENTS PROVIDED.

*[Signature]*  
REGISTERED SURVEYOR (ID: SU002005)  
DATE SURVEYED: 23/01/2026

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Rev.	Date	Revision Description	Drawn	Design	Appd.
7	02.05.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
6	11.04.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
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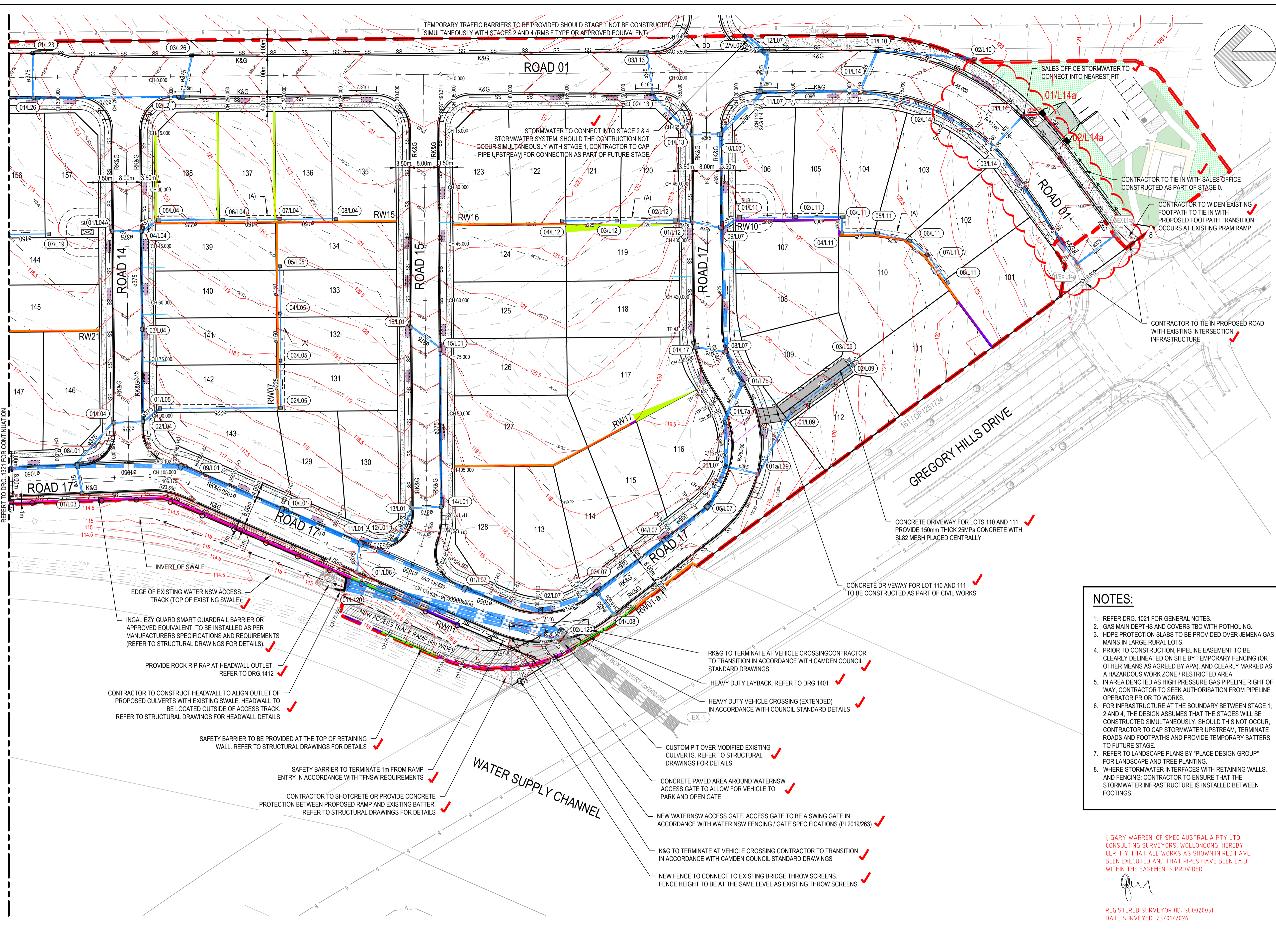
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Datum: AHD  
 Coordinates: -MGA-2020  
 Size: A1

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AC	02.05.2025	LEGACY PROPERTY
Drafting Checked	Date	Project
JL	02.05.2025	190 RABY ROAD, GLEDSDOOD HILLS
Design	Date	Title
MB	02.05.2025	STAGE 1
Design Checked	Date	Revision
RL	02.05.2025	CIVIL WORKS AND STORMWATER DRAINAGE PLAN - SHEET 1
Approved	Date	Drawing Number
JL	02.05.2025	P00529-CI-SWC-1321

DATE PLOTTED: 26 February 2025 5:07 PM BY: GUS WARREN  
 REF: CAD File: X:\Projects\300135\30013567 Gledswood Hills\500 Survey\502 Magnat\WAE\WAE DRAWINGS\STAGE 1 - WAE\SWC\WAE P00529-CI-SWC-1321.GDA\A4.dwg



LEGEND	
	EXTENT OF WORKS
	EXISTING CONTOUR
	PROPOSED CONTOUR
	FENCE (AS PER WATER NSW REQUIREMENTS)
	CHAINLINK FENCE FOR VEGETATION TO BE REHABILITATED
	PROPOSED TRAFFIC BARRIER
	BASIN FENCING
	ROLL KERB AND GUTTER
	KERB AND GUTTER
	DISH DRAIN
	KERB ONLY
	PROPOSED RETAINING WALL (UP TO 0.50m) (LOT WIDTH <12.5m)
	PROPOSED RETAINING WALL (0.50m TO 1.00m)
	PROPOSED RETAINING WALL (1.00m TO 1.50m)
	PROPOSED RETAINING WALL (1.50m TO 2.80m)
	PROPOSED 1:4 BATTER (MAX HEIGHT 0.50m)
	100 YEAR WATER LEVEL BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED SUBSOIL
	PROPOSED KERB OUTLET
	EXISTING STORMWATER PIPE
	EXISTING EASEMENT
	STORMWATER PITS
	STORMWATER HEAD WALL
	STORMWATER PIPE END CAP
	STORMWATER PIT LABEL
	EASEMENT FOR DRAINAGE (2.00m WIDE)
	EASEMENT FOR RETAINING WALL (0.90m WIDE)
	INDICATIVE BIN LOCATIONS

**NOTES:**

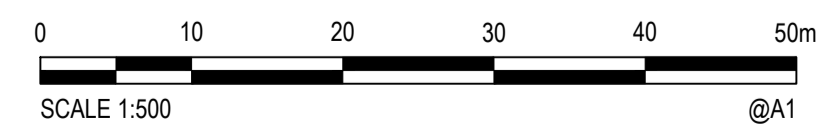
- REFER DRG. 1021 FOR GENERAL NOTES.
- GAS MAIN DEPTHS AND COVERS TBC WITH POTHOILING.
- HDPE PROTECTION SLABS TO BE PROVIDED OVER JEMENA GAS MAINS IN LARGE RURAL LOTS.
- PRIOR TO CONSTRUCTION, PIPELINE EASEMENT TO BE CLEARLY DELINEATED ON SITE BY TEMPORARY FENCING (OR OTHER MEANS AS AGREED BY APA), AND CLEARLY MARKED AS A HAZARDOUS WORK ZONE / RESTRICTED AREA.
- IN AREA DENOTED AS HIGH PRESSURE GAS PIPELINE RIGHT OF WAY, CONTRACTOR TO SEEK AUTHORISATION FROM PIPELINE OPERATOR PRIOR TO WORKS.
- FOR INFRASTRUCTURE AT THE BOUNDARY BETWEEN STAGE 1, 2 AND 4, THE DESIGN ASSUMES THAT THE STAGES WILL BE CONSTRUCTED SIMULTANEOUSLY. SHOULD THIS NOT OCCUR, CONTRACTOR TO CAP STORMWATER UPSTREAM, TERMINATE ROADS AND FOOTPATHS AND PROVIDE TEMPORARY BATTERS TO FUTURE STAGE.
- REFER TO LANDSCAPE PLANS BY "PLACE DESIGN GROUP" FOR LANDSCAPE AND TREE PLANTING.
- WHERE STORMWATER INTERFACES WITH RETAINING WALLS, AND FENCING, CONTRACTOR TO ENSURE THAT THE STORMWATER INFRASTRUCTURE IS INSTALLED BETWEEN FOOTINGS.
- SUBSOIL DRAINAGE (ADJACENT TO ROADS OR RETAINING WALLS), TO CONNECT INTO NEAREST STORMWATER PIT. IF NO STORMWATER PIT AVAILABLE, CONTRACTOR TO PROVIDE KERB OUTLET. RETAINING WALL SUBSOILS TO OUTLET INTO A SEPARATE KERB OUTLET.
- REFER TO COUNCIL STANDARD DRAWINGS FOR PROPOSED RESIDENTIAL DRIVEWAYS TO LOTS 110-111. REFER TO COUNCIL INDUSTRIAL DRIVEWAY STANDARD DRAWINGS FOR BASIN ACCESS RAMP, HARDSTANDS AND ENTRIES INTO THE WATER NSW CORRIDOR.
- FUTURE DRIVEWAY LOCATIONS TO CONSIDER STORM WATER PIT LOCATIONS WHERE PITS ARE LOCATED GREATER THAN 2m FROM THE ELONGATION OF THE PERPENDICULAR LOT BOUNDARY.
- REDUNDANT SALES CENTRE DRAINAGE INFRASTRUCTURE IS TO BE DECOMMISSIONED CONCURRENTLY WITH THE REMOVAL OF THE TEMPORARY SALES CENTRE ACCESS FROM GREGORY HILLS DRIVE. REFER TO STAGES 2 & 4 SWC APPROVED CIVIL DESIGNS FOR DETAILS ON THE TEMPORARY ACCESS DECOMMISSIONING.

I, GARY WARREN, OF SMEC AUSTRALIA PTY LTD, CONSULTING SURVEYORS, WOLLONGONG, HEREBY CERTIFY THAT ALL WORKS AS SHOWN IN RED HAVE BEEN EXECUTED AND THAT PIPES HAVE BEEN LAID WITHIN THE EASEMENTS PROVIDED.

*Gary Warren*  
 REGISTERED SURVEYOR (ID: SU002005)  
 DATE SURVEYED 23/01/2026

**FOR SWC APPROVAL**  
 NOT TO BE USED FOR CONSTRUCTION PURPOSES

Rev.	Date	Revision Description	Drawn	Design	Appd.
9	15.08.2025	ISSUED FOR SWC APPROVAL	AC	AM	JL
8	26.06.2025	ISSUED FOR SWC APPROVAL	AC	AM	JL
7	02.05.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
6	11.04.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
5	19.03.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
4	26.02.2025	ISSUED FOR SWC APPROVAL	AC	MB	JZ
3	20.12.2024	ISSUED FOR SWC APPROVAL	AC	MB	JZ
2	29.10.2024	ISSUED FOR SWC APPROVAL	AC	CS	JZ
1	16.08.2024	ISSUED FOR SWC APPROVAL	AC	AM	JZ



PREPARED BY:

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Datum: AHD  
 Coordinates: -MGA-2020-  
 Size: A1

Drawn	Date	Client
AC	15.08.2025	LEGACY PROPERTY
Drafting Checked	Date	Project
JL	15.08.2025	190 RABY ROAD, GLEDSDOOD HILLS
Design	Date	Title
MB	15.08.2025	STAGE 1
Design Checked	Date	Revision
RL	15.08.2025	CIVIL WORKS AND STORMWATER DRAINAGE PLAN - SHEET 2
Approved	Date	Drawing Number
JL	15.08.2025	P00529-CI-SWC-1322