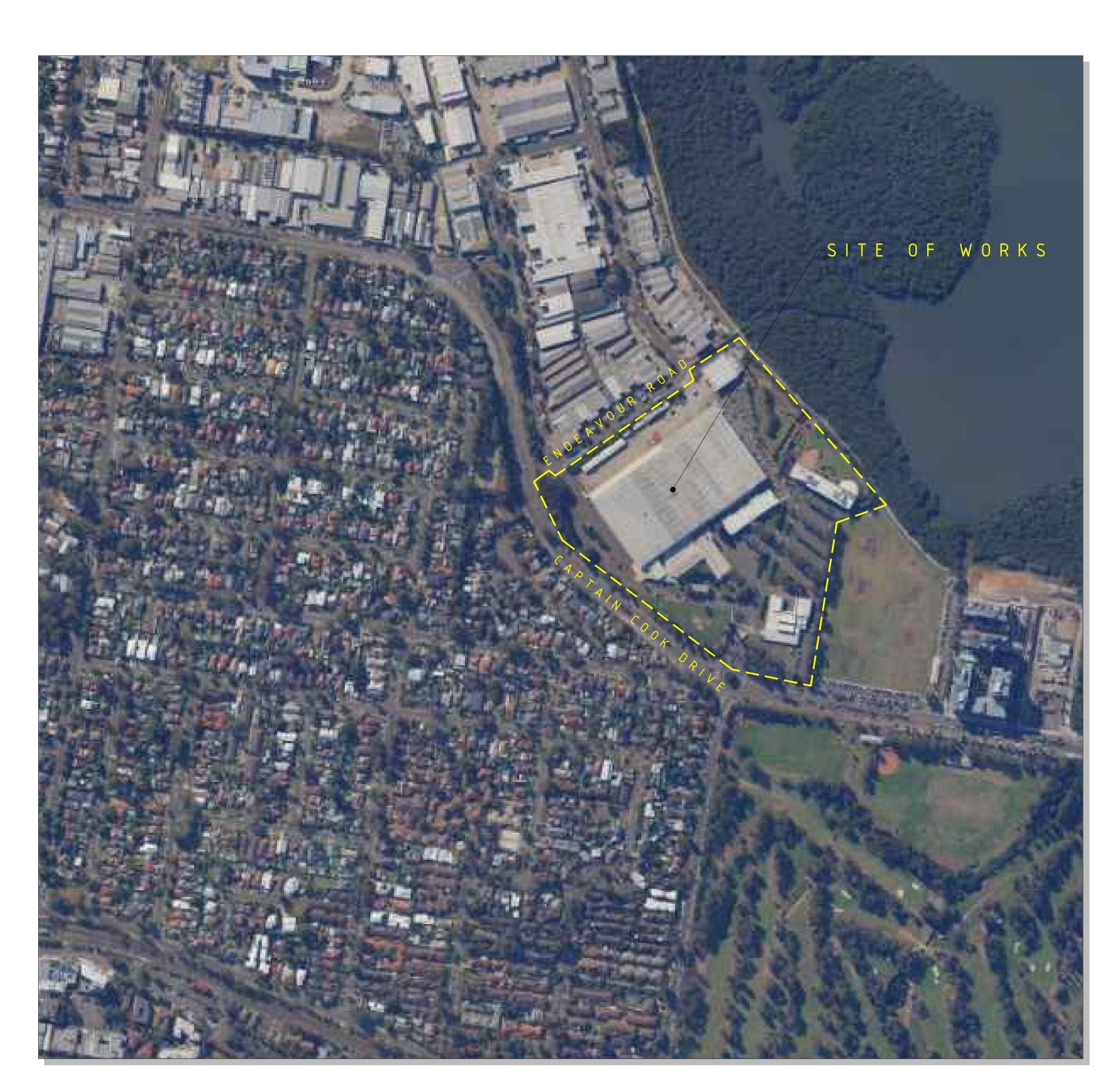
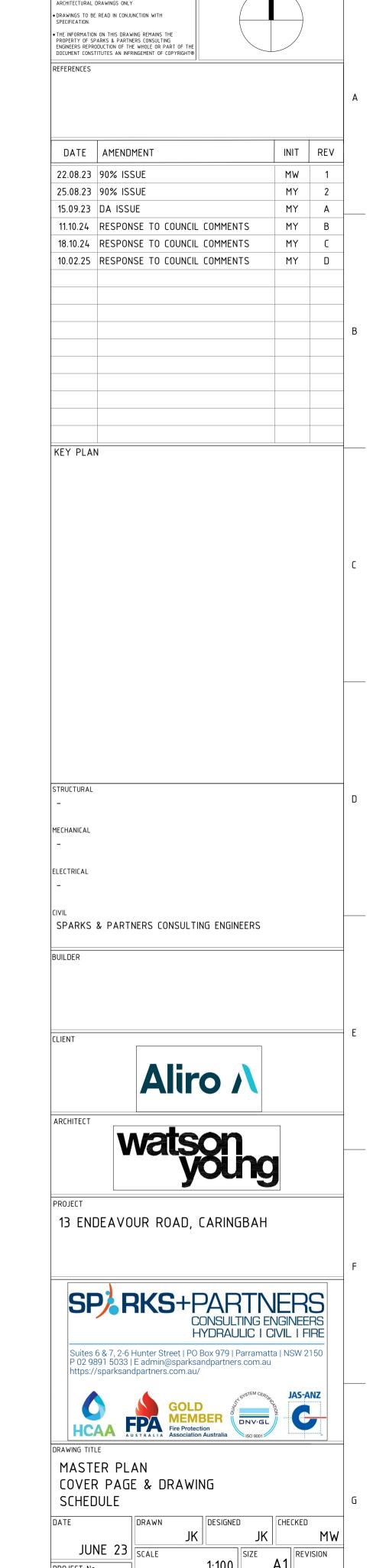
13 ENDEAVOUR ROAD, CARINGBAH



LOCALITY PLAN NOT TO SCALE - COURTESY OF SIX MAPS

DRAWING SCHEDULE DA1101 COVER PAGE & DRAWING SCHEDULE DA1201 SPECIFICATIONS SHEET DA1301 KEY PLAN DA1401 PROPOSED UTILITIES PLAN DA1501 CONSTRUCTION MANAGEMENT PLAN SHEET 1 DA1502 CONSTRUCTION MANAGEMENT PLAN SHEET 2 DA1503 CONSTRUCTION MANAGEMENT PLAN SHEET 3 DA2101 CONCEPT SEDIMENT & EROSION CONTROL PLAN SHEET 1 DA2102 CONCEPT SEDIMENT & EROSION CONTROL PLAN SHEET 2 DA2103 CONCEPT SEDIMENT & EROSION CONTROL PLAN SHEET 3 DA3101 CONCEPT BULK EARTHWORKS CUT TO FILL PLAN DA3501 CONCEPT BULK EARTHWORKS SECTIONS SHEET 1 DA3502 CONCEPT BULK EARTHWORKS SECTIONS SHEET 2 DA4101 CONCEPT STORMWATER & GRADING PLAN - SHEET 1 DA4102 CONCEPT STORMWATER & GRADING PLAN - SHEET 2 DA4301 CONCEPT STORMWATER CATCHMENT PLAN - GENERAL DA4302 CONCEPT STORMWATER CATCHMENT PLAN - WSUD DA4303 EXISTING CATCHMENT PLAN - WOOLOOWARE BAY DA4304 CONCEPT CATCHMENT PLAN - WOOLOOWARE BAY DA4501 CONCEPT SECTIONS DA4701 CONCEPT STORMWATER MANAGEMENT DETAILS DA4802 CONCEPT STORMWATER LONGTITUDINAL SECTIONS - SHEET 2 DA4803 CONCEPT STORMWATER LONGTITUDINAL SECTIONS - SHEET 3 DA4804 CONCEPT STORMWATER LONGTITUDINAL SECTION - SHEET 4 DA4121 CONCEPT STORMWATER & GRADING PLAN DA4131 CONCEPT STORMWATER & GRADING PLAN DA4141 CONCEPT STORMWATER & GRADING PLAN DA4151 CONCEPT STORMWATER & GRADING PLAN - SHEET 1 DA4152 CONCEPT STORMWATER & GRADING PLAN - SHEET 2 DA4153 CONCEPT STORMWATER & GRADING PLAN - SHEET 3 DA4161 CONCEPT STORMWATER & GRADING PLANS - SHEET 1 DA4162 CONCEPT STORMWATER & GRADING PLANS - SHEET 2



DA1101 D

DEVELOPMENT APPLICATION ISSUE 23106 DRAWING NO

SURVEY

1. LEVELS BASED ON SURVEY PREPARED BY: LANDPARTNERS, REF: SY074865.000.1.6, DATE: 06/07/2023

APPROVAL AUTHORITY

1. CIVIL DESIGN IS SUBJECT TO APPROVAL FROM THE FOLLOWING AUTHORITIES:

1.1. SUTHERLAND SHIRE COUNCIL

STORMWATER DESIGN CRITERIA

- 1. DESIGN CRITERIA.
- 1.1. ROOF DRAINAGE 1:20YR ARI 1.2. PIPED DRAINAGE – 1:20YR ARI
- 1.3. OVERLAND FLOWS - GAP FLOW BETWEEN 1:20YR ARI & 1:100YR

DESIGN GUIDES

- 1. SUTHERLAND SHIRE DEVLOPMENT CONTROL PLAN 2015
- 2. SUTHERLAND SHIRE LOCAL ENVIRONMENTAL PLAN 2015
- 3. SUTHERLAND SHIRE ENVIRONMENTAL SPECIFICATION 2009 -STORMWATER MANAGEMENT
- 4. AS1428.1:2009 DESIGN FOR ACCESS AND MOBILITY, PART 1: GENERAL REQUIREMENTS FOR ACCESS - NEW BUILDING WORK
- 5. AS2032:2006 INSTALLATION OF PVC PIPE SYSTEMS
- 6. AS2865:2009 CONFINED SPACES
- 7. AS2890.1:2004 PARKING FACILITIES, PART 1: OFF-STREET CAR PARKING 8. AS2890.2:2002 PARKING FACILITIES, PART 2: OFF-STREET COMMERCIAL VEHICLE FACILITIES
- 9. AS2890.6:2009 PARKING FACILITIES, PART 6: OFF-STREET PARKING FOR PEOPLE WITH DISABILITIES
- 10.AS3500.3:2018 PLUMBING AND DRAINAGE, PART 3: STORMWATER DRAINAGE
- 11. AS3600:2018 CONCRETE STRUCTURES
- 12.AS3725:2007 DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPES
- 13.AS3798:2007 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS
- 14. AS4678:2002 EARTH RETAINING STRUCTURES

DEVELOPMENT APPLICATION (DA) STAGE

- 1. DOCUMENTS ARE PROVIDED FOR DA APPROVAL PURPOSES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION
- 2. STORMWATER DESIGN SHOWN IS CONCEPTUAL ONLY AND SUBJECT TO FINAL DESIGN AT CONSTRUCTION CERTIFICATE STAGE
- FINISHED LEVELS SHOWN ARE CONCEPTUAL ONLY AND SUBJECT TO DETAILED DESIGN AT CONSTRUCTION CERTIFICATE STAGE. FINAL FINISHED LEVELS TO BE ±0.5m FROM LEVELS SHOWN

SAFETY IN DESIGN

- 1. CONTRACTOR SHALL ENSURE ALL ACCESS TO THE TANKS & CHAMBERS
- ARE COMPLETE WITH RELEVANT CONFINED SPACE SIGNAGE. 2. ALL PERSONNEL REQUIRED TO INSPECT AND MAINTAIN SERVICES WITHIN THESE AREAS SHALL BE TRAINED IN ACCORDANCE WITH WHS/OH&S REQUIREMENTS.
- REFER TO RELEVANT SAFETY IN DESIGN REPORT FOR CONSTRUCTION RISK MATRIX

SITE WORKS - GENERAL

- 1. ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH LOCAL COUNCIL, AUSTRALIAN AND AUTHORITY STANDARDS.
- 2. ALL TRENCHING WORKS ARE TO BE RESTORED TO ORIGINAL CONDITION. 3. THE INTEGRITY OF ALL EXISTING AND NEW SERVICES IS TO BE

MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

- 4. ALL PLANS ARE TO BE READ IN CONJUNCTION WITH APPROVED ARCHITECTS, STRUCTURAL ENGINEERS AND OTHER CONSULTANT'S PLANS. ANY DISCREPANCIES ARE TO BE NOTIFIED TO THE ENGINEER FOR CLARIFICATION.
- 5. THE ENGINEER SHALL BE GIVEN A MIN. OF 48 HOURS NOTICE FOR ALL STORMWATER DRAINAGE AND PAVEMENT INSPECTIONS. CONCRETE SHALL NOT BE DELIVERED UNTIL ENGINEERS APPROVAL IS OBTAINED.

SITE WORKS - ACCESS AND SAFETY

- 1. ALL WORKS ARE TO BE UNDERTAKEN IN A SAFE MANNER IN ACCORDANCE WITH ALL STATUTORY AND INDUSTRIAL RELATION REQUIREMENTS.
- 2. ACCESS TO ADJACENT BUILDINGS AND PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- 3. WHERE NECESSARY SAFE PASSAGE SHALL BE PROVIDED FOR VEHICLES AND PEDESTRIANS THROUGH OR ADJACENT TO THE SITE.

EXISTING UTILITIES

- UTILITY INFORMATION SHOWN ON PLAN DOES NOT DEPICT ANY MORE THAN THE PRESENCE OF A SERVICE BASED ON AVAILABLE DOCUMENTARY EVIDENCE
- 2. THE PRESENCE OF A UTILITY SERVICE, SIZE AND LOCATION SHOULD BE CONFIRMED BY FIELD INSPECTION PRIOR TO THE COMMENCEMENT OF ROAD WORKS, AND THE RELATED UTILITY PLANS OBTAINED BY DIALING 110 OR FAX 130 652 077 (DIAL BEFORE YOU DIG)
- UTILITY LOCATION, SIZE AND DEPTH TO BE CONFIRMED BY SERVICE LOCATING OR NON-DESTRUCTIVE EXCAVATION PRIOR TO CONSTRUCTION. ALL CLASHES WITH PROPOSED SERVICES ARE TO BE RESOLVED
- 4. CAUTION SHOULD BE EXERCISED WHEN WORKING IN THE VICINITY OF ALL UTILITY SERVICES
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE RELEVANT SERVICES AUTHORITIES OF THE WORKS AND VERIFY THE LOCATION OF ALL EXISTING SERVICES PRIOR TO ANY CONSTRUCTION ACTIVITIES COMMENCING
- 6. THE CONTRACTOR SHALL LIAISE AND COORDINATE THE TIMING OF THE CONSTRUCTION OF THE WORKS WITH THE RELEVANT SERVICES CONCURRENTLY AT THIS SITE
- 7. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED TO EXISTING SERVICES AS A RESULT OF THE CONSTRUCTION WORKS

SEDIMENT AND EROSION CONTROL

- 1. THE CONTRACTOR SHALL INSTIGATE ALL SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH COUNCIL AND THE "BLUE BOOK" (MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION, PRODUCED BY THE DEPARTMENT OF HOUSING). THESE MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED.
- 2. THE SEDIMENT & EROSION CONTROL PLAN PRESENTS CONCEPTS ONLY, THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE ESTABLISHMENT & MANAGEMENT OF A DETAILED SCHEME MEETING COUNCIL'S DESIGN, AND ALL OTHER REGULATORY AUTHORITY REQUIREMENTS.
- 3. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE SHALL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
 - a. INSTALL ALL TEMPORARY SEDIMENT FENCES AND BARRIER FENCES. WHERE FENCES ARE ADJACENT TO EACH OTHER THE SEDIMENT FENCE CAN BE INCORPORATED INTO THE BARRIER FENCE.
 - b. CONSTRUCT TEMPORARY STABILISED SITE ACCESS. INCLUDING SHAKE DOWN AND WASH PAD.
 - c. INSTALL SEDIMENT CONTROL MEASURES AS OUTLINED ON THESE SEDIMENT AND CONTROL PLANS (ONCE APPROVED)
- 4. THE CONTRACTOR SHALL UNDERTAKE SITE DEVELOPMENT WORKS SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF MINIMUM WORKABLE SIZE.
- 5. AT ALL TIMES AND IN PARTICULAR DURING WINDY AND DRY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL. TACIFIERS MAY BE USED TO CONTROL DUST DURING EXTENDED PERIODS OF DRY
- WEATHER. 6. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) SHALL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- 7. WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN STABILISED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED OUT
- 8. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE STABILISED / REHABILITATED.
- 9. THE CONTRACTOR SHALL ALLOW FOR THE ESTABLISHMENT OF ANY OTHER EROSION PROTECTION MEASURES (IF APPLICABLE).
- 10.THE CONTRACTOR SHALL REGULARLY INSPECT (MINIMUM TWICE PER WEEK) ALL EROSION AND SEDIMENT CONTROL MEASURES TO ENSURE THEY ARE OPERATING EFFECTIVELY. REPAIRS AND/OR MAINTENANCE SHALL BE UNDERTAKEN REGULARLY AND AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.
- 11. ACCEPTABLE RECEPTORS SHALL BE USED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER. WASTE FROM THESE RECEPTORS SHALL BE DISPOSED OF IN ACCORDANCE WITH REGULATORY AUTHORITY REQUIREMENTS. PAY ALL FEES AND PROVIDE EVIDENCE OF SAFE DISPOSAL.

SEDIMENT BASIN ASSESSMENT

ASSESSMENT AS PER SECTION 4.4, SECTION 6.3.2 (D) AND APPENDIX A OF THE BLUE BOOK.

ASSESSMENT OF EROSION HAZARD

- R-FACTOR 2.000 TO 2.500 MAP 10. APPENDIX B
- SITE GRADIENT (2.9/80) 3.625% SITE CLASSED AS LOW EROSION HAZARD BASED ON A-LINE IN FIGURE 4.6 -
- THEREFORE BASIC MEASURES CAN BE IMPLEMENTED.
- ASSESSMENT OF EXPORT SOIL VOLUME
- R = 2500
- K = 0.075LS = 0.65
- P = 1.2
- C = 1A = 146.25 T/Ha/YR
- DENSITY OF SEDIMENT = 1.9 T/m³
- SITE AREA = 0.275Ha SOIL VOLUME = $21.2m^3/YR < 150CU.M/YR$ WHICH IS THE TRIGGER VALUE FOR A SEDIMENT BASIN

STORMWATER

- 1. ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE FOLLOWING AUSTRALIAN STANDARDS AS2032. AS3500 AND AS3725 AS
- 2. ALL PIPES LESS THAN OR EQUAL TO Ø300mm IN SIZE ARE TO BE SOLVENT WELD-JOINTED uPVC CLASS SN6 U.N.O.
- 3. ALL PIPES Ø375mm OR GREATER IN SIZE ARE TO BE MIN. CLASS 2 REINFORCED CONCRETE PIPE (RCP) WITH SPIGGOT AND SOCKETED JOINT OR VANTAGE PIPE PLUS (VPIPE+) FIBRE REINFORCED CONCRETE (FRC) WITH VANTAGE PIPE PLUS JOINT U.N.O.
- 4. ALL PIPES ARE TO BE LAID AT MIN. 1.0% GRADE U.N.O.
- 5. PIPE BEDDING IS TO BE HS2 UNDER ROADS AND TRAFFICKED AREAS AND SHALL BE H2 IN LANDSCAPED AND PEDESTRIAN TRAFFICKED AREAS U.N.O.
- 6. ALL PIPE BENDS AND JUNCTIONS ARE TO BE MADE WITH EITHER PURPOSE MADE FITTINGS OR STORMWATER DRAINAGE PITS.
- 7. MINIMUM COVER FROM THE OBVERT OF THE STORMWATER PIPE OF 300mm IS TO BE PROVIDED IN LANDSCAPED AREAS AND 300mm IN VEHICULAR TRAFFICKED AREAS U.N.O.
- 8. WHERE MINIMUM COVER CANNOT BE ACHIEVED, CONCRETE ENCASEMENT OF THE AFFECTED PIPE MAY BE UNDERTAKEN WITH 20MPa CONCRETE WITH A MIN. COVER OF 150mm TO ALL SIDES OF THE PIPE. THE CONTRACTOR SHALL CONFIRM THIS REQUIREMENT WITH THE ENGINEER OR SUPERINTENDENT.
- 9. LAID PIPELINES ARE TO HAVE THE FOLLOWING CONSTRUCTED TOLERANCES:
 - a. HORIZONTAL-1:300 ANGULAR DEVIATION FROM REQUIRED ALIGNMENT;
 - b. VERTICAL-1:300 ANGULAR DEVIATION FROM REQUIRED ALIGNMENT.
- 10. ALL DRAINAGE PITS ARE TO BE CAST IN-SITU. PRECAST DRAINAGE PITS MAY BE USED WITH APPROVAL FROM THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A PRECAST PIT INSTALLATION WORK METHOD STATEMENT FOR ASSESSMENT BY THE ENGINEER FOR
- APPROVAL. 11. DRAINAGE PIT COVERS ARE TO BE EITHER GALVANISED STEEL OR CAST IRON CLASS 'B' IN LANDSCAPED AND PEDESTRIAN TRAFFICKED AREAS AND CLASS 'D' IN ALL VEHICULAR TRAFFICKED AREAS U.N.O.
- 12. DRAINAGE PIT COVERS ARE TO BE 'HEELSAFE' TYPE IN ALL PEDESTRIAN TRAFFICKED AREAS U.N.O.
- 13. EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED PRIOR TO COMMENCING WORKS ON SITE.
- 14. PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
- 15. DOWN PIPES CONNECTED DIRECT TO PIPES TO BE CONNECTED AT 45° TO THE FLOW DIRECTION WITH A CLEANING EYE PROVIDED AT GROUND LEVEL.

FINISHED LEVELS

- 1. LEVELS BASED ON SITE SURVEY INFORMATION. THE CONTRACTOR SHALL VERIFY LEVELS PRIOR TO CONSTRUCTION COMMENCEMENT, ANY DISCREPANCIES SHALL BE NOTIFIED TO THE ENGINEER OR SUPERINTENDENT FOR CLARIFICATION
- 2. CARPARK & SERVICE AREA LAYOUT AND GRADES TO COMPLY WITH AS2890.
- 3. DRIVEWAY LAYOUT AND DESIGN TO COMPLY WITH APPROVAL AUTHORITY ACCESS DRIVEWAY DESIGN AND CONSTRUCTION SPECIFICATION.
- 4. ALL CONTOUR LINES & SPOT LEVELS INDICATE FINISHED PAVEMENT LEVELS U.N.O. ON PLAN.
- 5. PERMANENT BATTER SLOPES ARE TO HAVE A MAXIMUM GRADE OF
- 6. ALL FOOTPATHS ARE TO FALL AWAY FROM THE BUILDING AT 2.5%
- NOMINAL. GRADE. 7. ALL PAVEMENTS ARE TO BE SET AT 50mm BELOW THE FINISHED FLOOR LEVEL OF THE WAREHOUSE AND OFFICE AREAS U.N.O

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DATE AMENDMENT INIT REV 22.08.23 90% ISSUE MW 1 15.09.23 DA ISSUE MY A 11.10.24 RESPONSE TO COUNCIL COMMENTS MY B MY (



MASTER PLAN

DESIGNED JUNE 23 SCALE SIZE 1:100

DEVELOPMENT APPLICATION ISSUE

SPECIFICATIONS SHEET

DA1201

STRUCTURAL MECHANICAL SPARKS & PARTNERS CONSULTING ENGINEERS

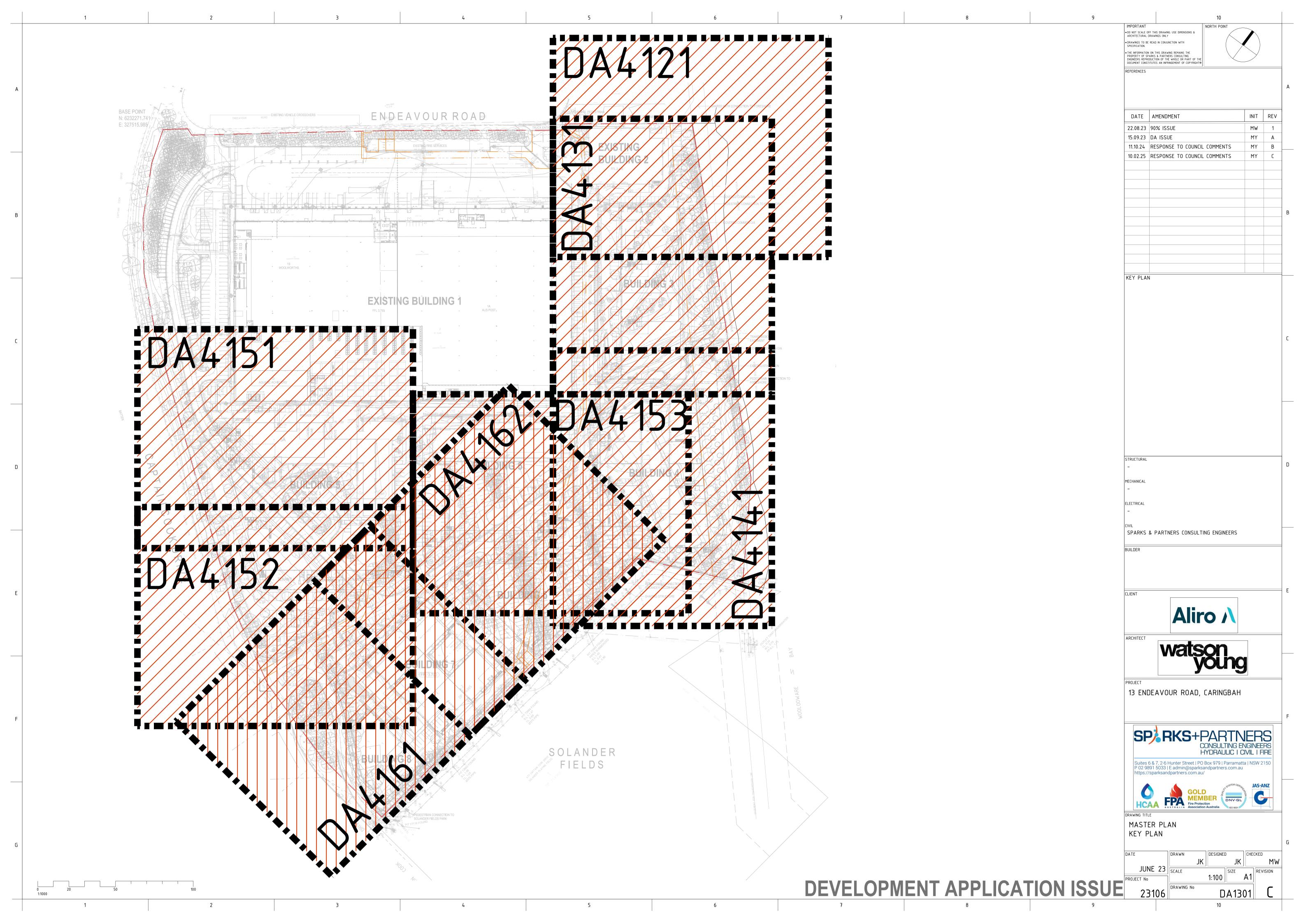
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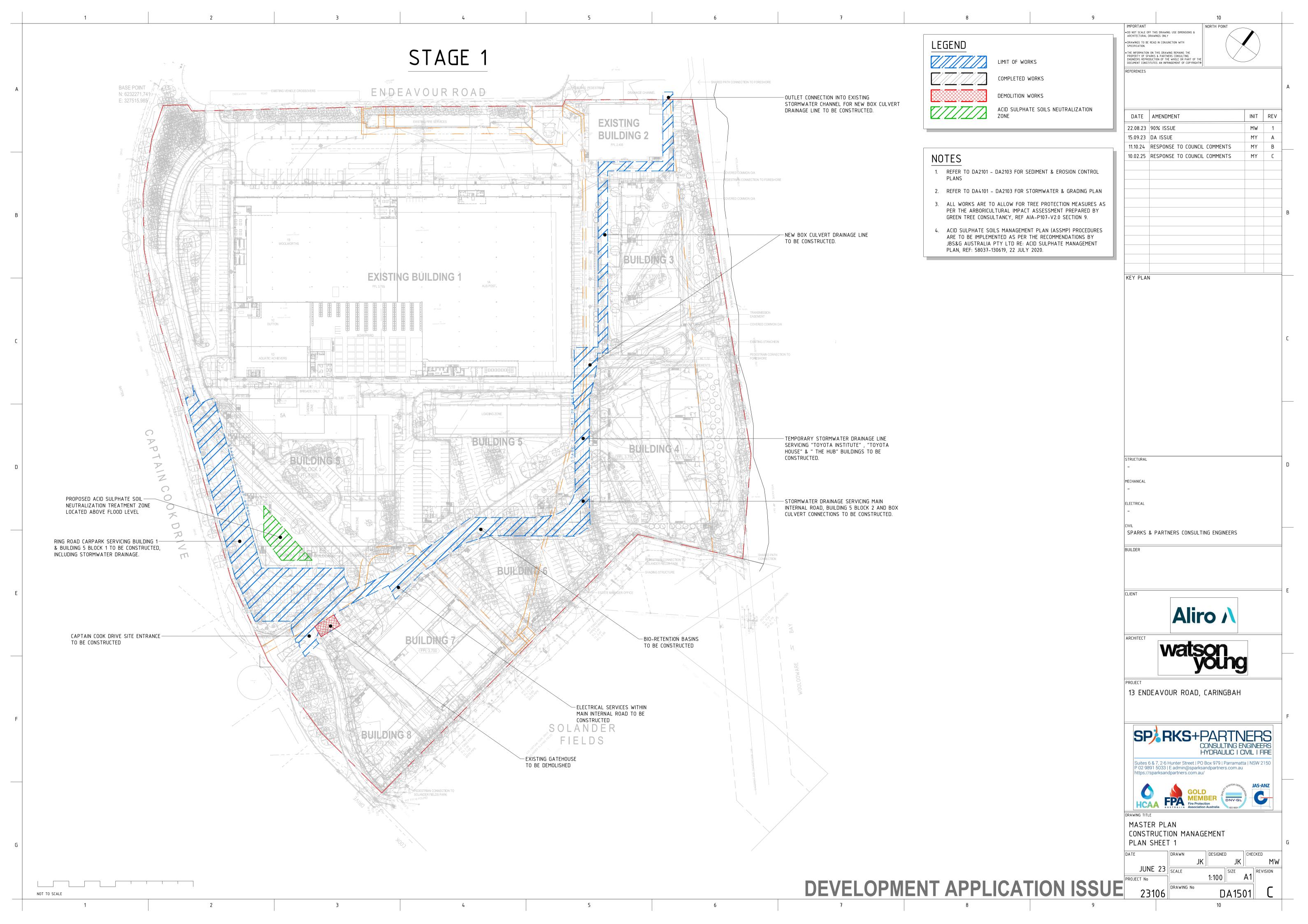
10.02.25 RESPONSE TO COUNCIL COMMENTS

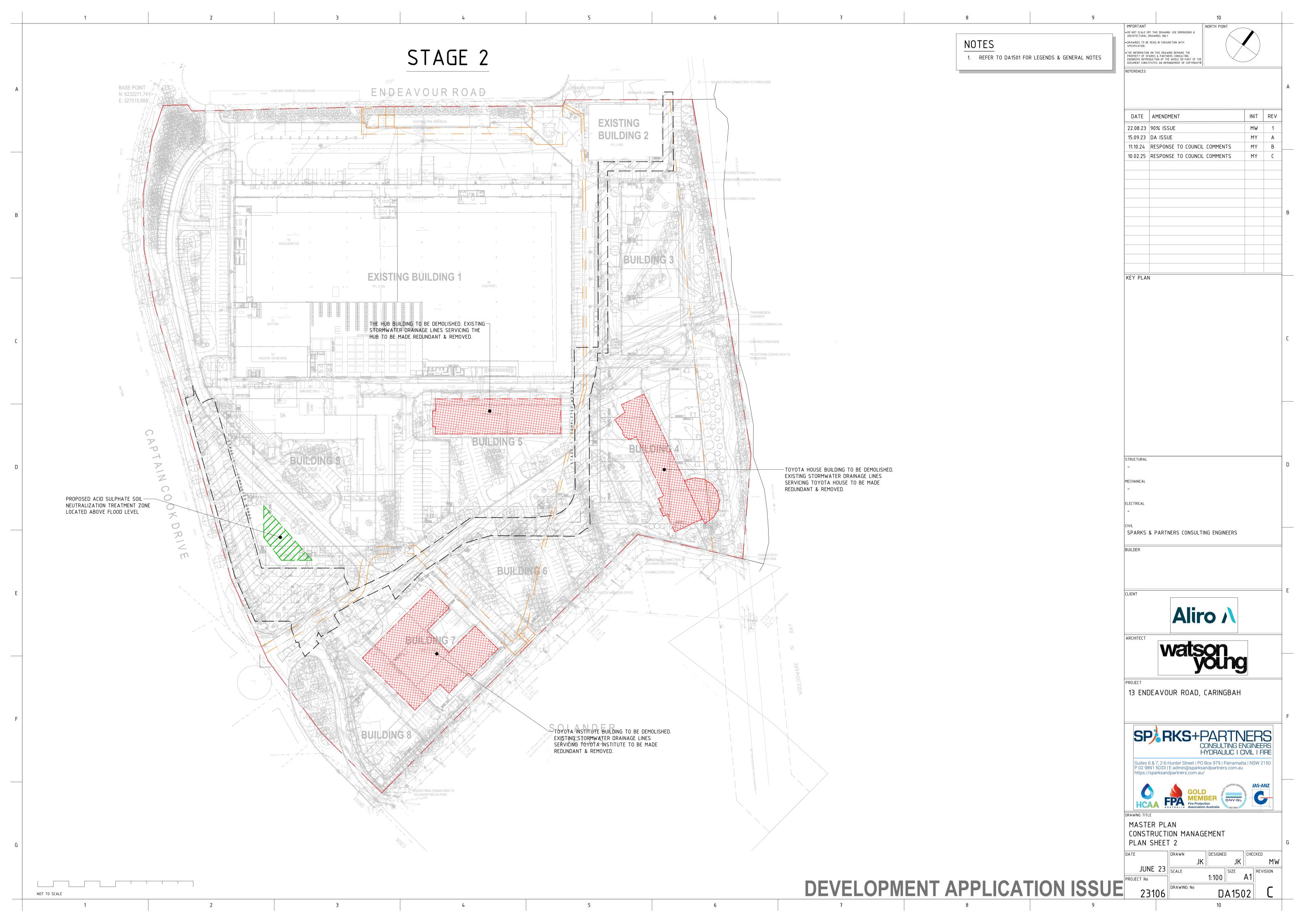
KEY PLAN

13 ENDEAVOUR ROAD, CARINGBAH

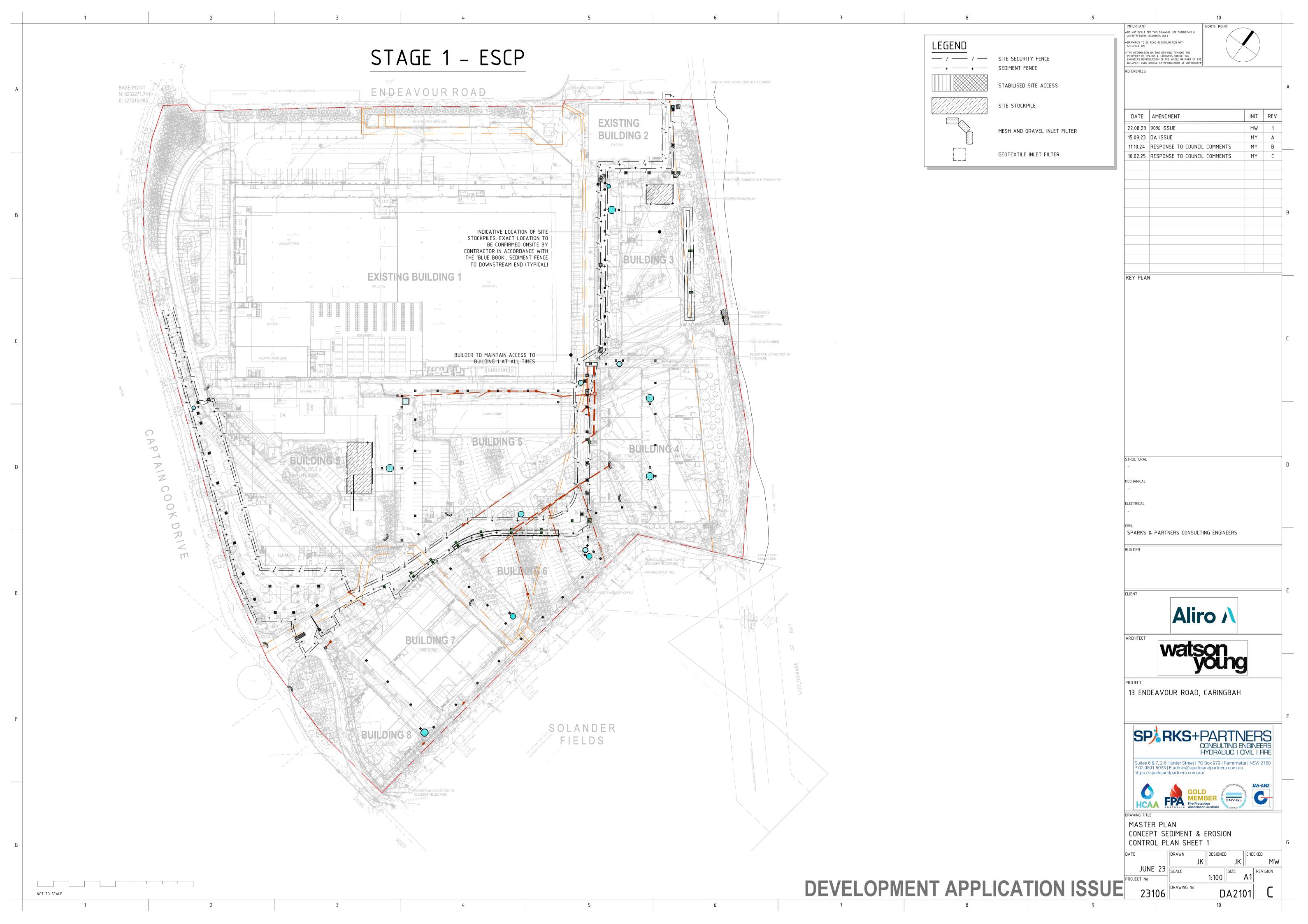
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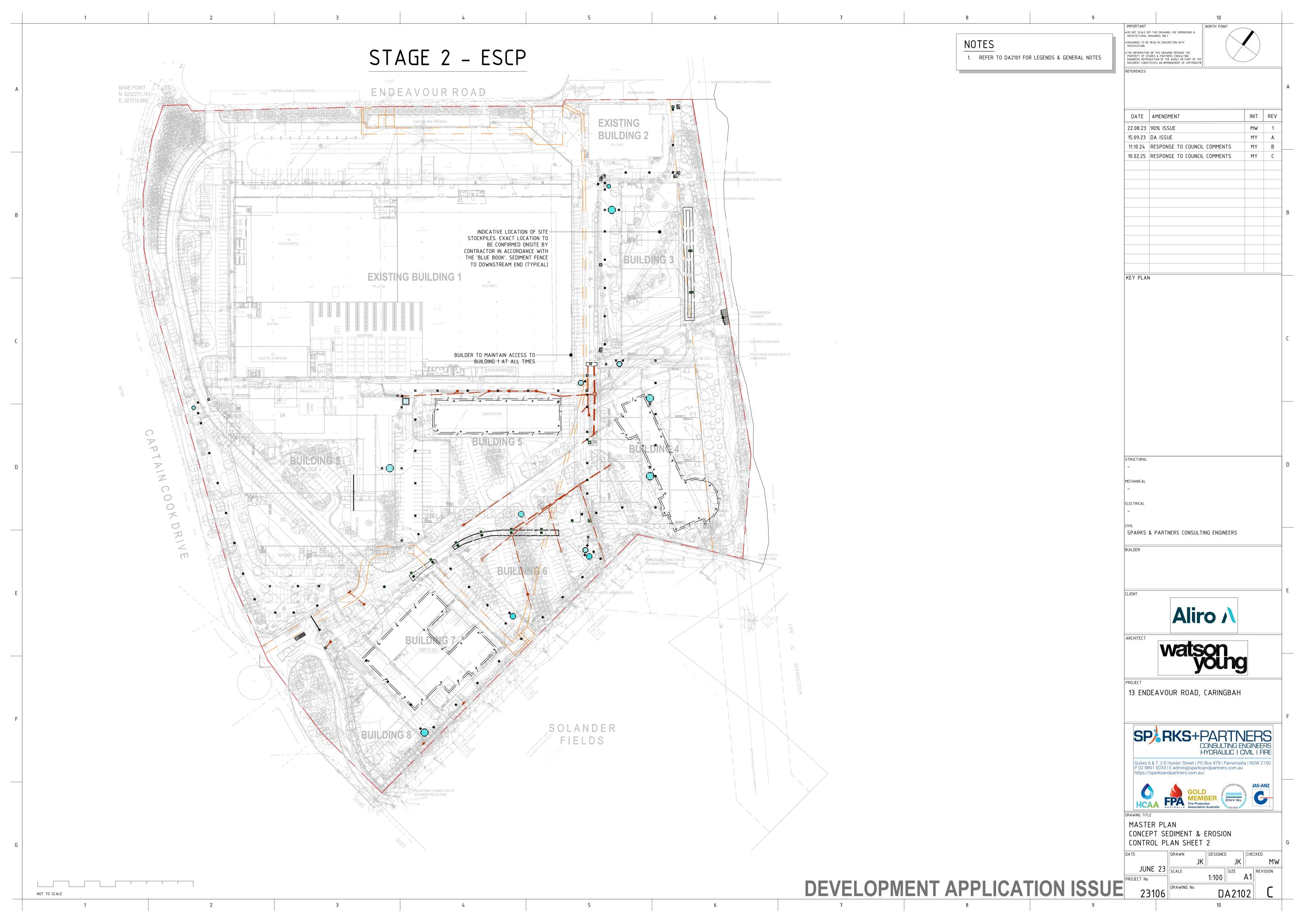


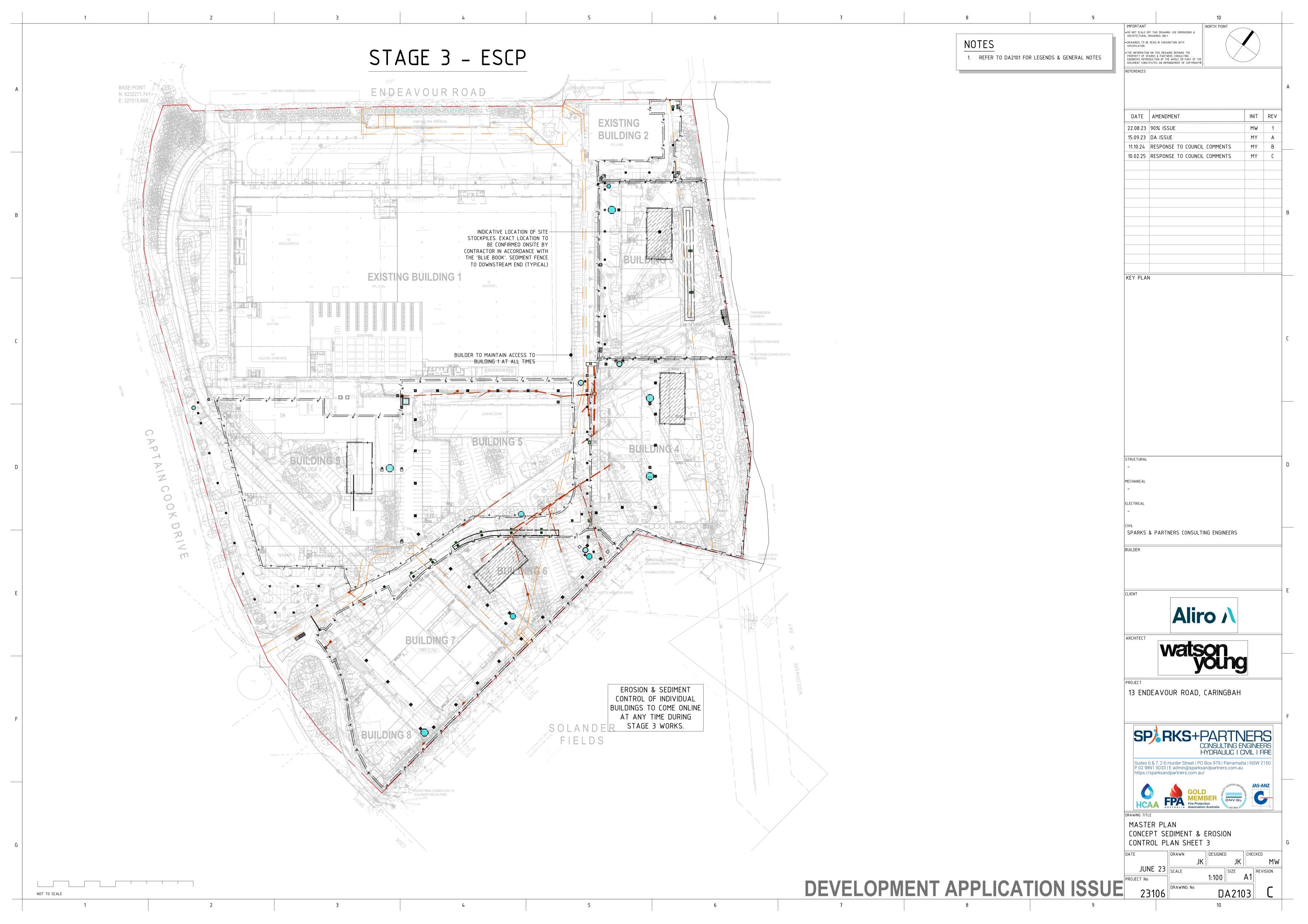














NOT TO SCALE



BULK EARTHWORKS NOTES

- 1. BULK EARTHWORKS ARE TO BE TO BE UNDERTAKEN IN ACCORDANCE WITH AS3798-2007, GUIDELINES ON EARTHWORKS
- 2. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR SPECIFIC SITE CONDITIONS AND WORKS
- 3. CUT TO FILL DEPTHS SHOWN ARE BASED ON LEVELS AND PAVEMENT THICKNESS' IN COMPARISON TO SURVEY REFERENCED IN

 $FILL = 46,443 m^3$

- 4. STRIPPING OF THE FOLLOWING SURFACES HAS BEEN TAKEN INTO
 - EXISTING EXTERNAL HARDSTAND = 200mm - EXISTING WAREHOUSE/OFFICE SLABS = 200mm EXISTING VEGETATION = 200mm
- BULKING & COMPACTION OF THE MATERIAL, TEMPORARY SEDIMENT BASIN, DETAILED EXCAVATION, TRENCHING EXCAVATION, GROUND
- TAKEN FROM FINISHED SURFACE:
 - WAREHOUSE BUILDING PAD
 - OFFICE BUILDING PAD
 - 300mm (TOPSOIL OR OTHER LANDSCAPING)
 - ASPHALT ROAD AREA
- 6. THE CONTRACTOR SHALL VERIFY LEVELS PRIOR TO CONSTRUCTION
- ENGINEER OR SUPERINTENDENT FOR CLARIFICATION.
- 7. REFER TO C3501 FOR BULK EARTHWORKS SECTIONS

DATE AMENDMENT 22.08.23 90% ISSUE 15.09.23 DA ISSUE 11.10.24 RESPONSE TO COUNCIL COMMENTS 10.02.25 RESPONSE TO COUNCIL COMMENTS

KEY PLAN

INIT REV

MW 1

MY A

MY B

MY C

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• DRAWINGS TO BE READ IN CONJUNCTION WITH

- FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.
- METHODOLOGY.
- C1201 RESULTING IN THE FOLLOWING CUT TO FILL VOLUMES:

 $CUT = 6,420 \text{m}^3$ TOTAL CUT / FILL = 40,022m³

- ACCOUNT IN THE ABOVE VOLUME CALCULATIONS:
- 5. VOLUMES DETAILED ABOVE DO NOT TAKE INTO ACCOUNT IMPROVEMENT WORKS, OR PAVEMENT PRE-LOADING
- 6. VOLUMES BASED ON THE FOLLOWING PAVEMENT THICKNESS'
 - 270mm (170mm SLAB + 100mm SUB-BASE)
- 270mm (170mm SLAB + 100mm SUB-BASE) HARDSTAND AREA
- 270mm (170mm SLAB + 100mm SUB-BASE) LANDSCAPE AREAS
- 410mm (30mm ASPHALT + 180mm BASE + 200mm SUB-BASE)
- COMMENCEMENT, ANY DISCREPANCIES SHALL BE NOTIFIED TO THE

SPARKS & PARTNERS CONSULTING ENGINEERS

Aliro A

MECHANICAL

13 ENDEAVOUR ROAD, CARINGBAH



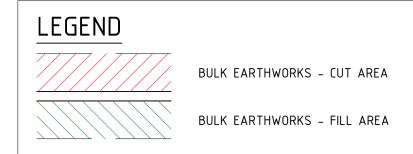
MASTER PLAN CONCEPT BULK EARTHWORKS CUT TO FILL PLAN

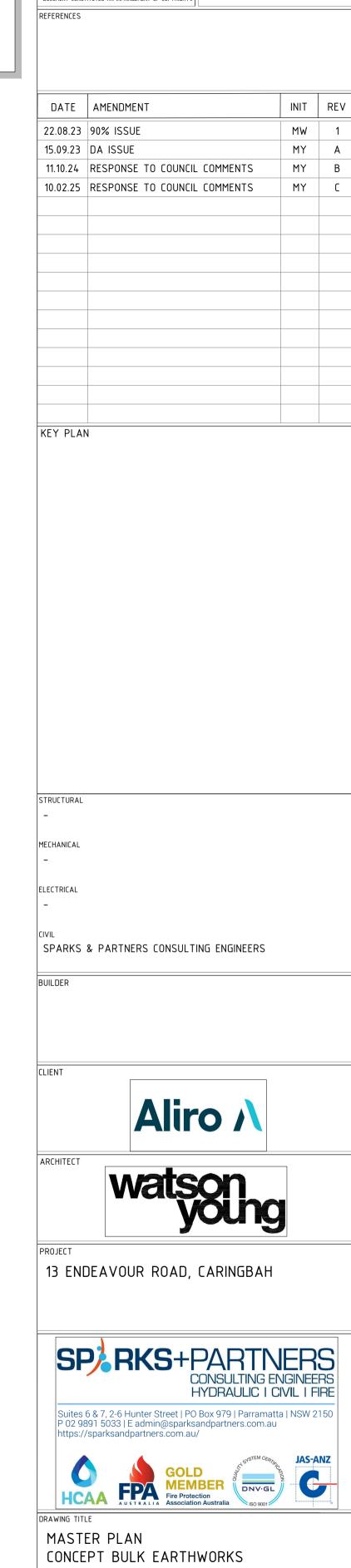
JUNE 23 SCALE SIZE REVISION 1:100 DA3101

DESIGNED

DEVELOPMENT APPLICATION ISSUE







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BULK EARTHWORKS DESIGN SURFACE LEVEL	2.451	3.430	000	3.430	3.159	3.387	00,00	0.4.0	3.430	3.430	3.430	3.430	3.430	۲۹۶	975 8	3.430	3.430	3.430	3.430	3.430	3.229	3.139	3.234	3.404	3.480	3.480	3.480	3.392	3.197	3.449	2,480	3.480	2,995
EXISTING SURFACE LEVEL	2.787	3.212	2 0E1	1.05	3.089	3.148	0 77.0	0.140	3.155	3.175	3.000	2.901	2.689	7 631		4	2.345	2.364	2.354	2.247	2.386	2.217	1.922	2.244	2.393	1.861	1.917	2.069	2.001	1.877	1.775	1.754	1686
CHAINAGE	0.000	10.000		000.07	30.000	40.000		000.00	000.09	70.000	80.000	90.000	100.000	110 000		6 6	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	טטט טטצ
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BULK EARTHWORKS DESIGN SURFACE LEVEL	2.626	2.772	77 / 6	3.4 †	3.480	3.480	0076	0.460	3.480	3.480	3.480	3.480	3.480	087 8	197.	3.430	3.430	3.430	3.430	3.430	3.430	3.430	3.430	3.430	3.430	3.430	1.855	1.892	1.874	1.908	1.873	1.495	
EXISTING SURFACE LEVEL	2.584	2.016	780 6	7.084	2.195	1.923	7704	101	1.841	1.828	1.885	1.891	1.947	1899	1950	1.770	2.763	4.182	4.142	4.321	3.808	3.626	3.783	3.931	2.841	2.743	2.927	2.998	3.182	2.045	2.022	1.764	
CHAINAGE	0.000	10.000	000	000.07	30.000	40.000	000	0000	000.09	70.000	80.000	90.000	100.000	110 000	120 000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	284.580	
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BULK EARTHWORKS DESIGN SURFACE LEVEL	3.371	3.547	0000	3.388	3.272	3.217		0.4500	3.480	3.480	3.480	3.279	3.191		0£7 £		3.430	3.430	3.430	3.325													
EXISTING SURFACE LEVEL	3.393	3.463	7676	3.427	2.336	2.257	000	0.7.7	2.324	2.299	2.440	2.233	2.033		2 152		2.169	2.204	2.109	2.154	3.054												
CHAINAGE	0.000	10.000	000	000.07	30.000	40.000		0000	000.09	70.000	80.000	90.000	100.000	110 000	120 000	130.000	140.000	150.000	160.000	170.000	176.673												
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DEVELOPMENT APPLICATION ISSUE

DA3502

DESIGNED

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SIZE

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A1 REVISION .

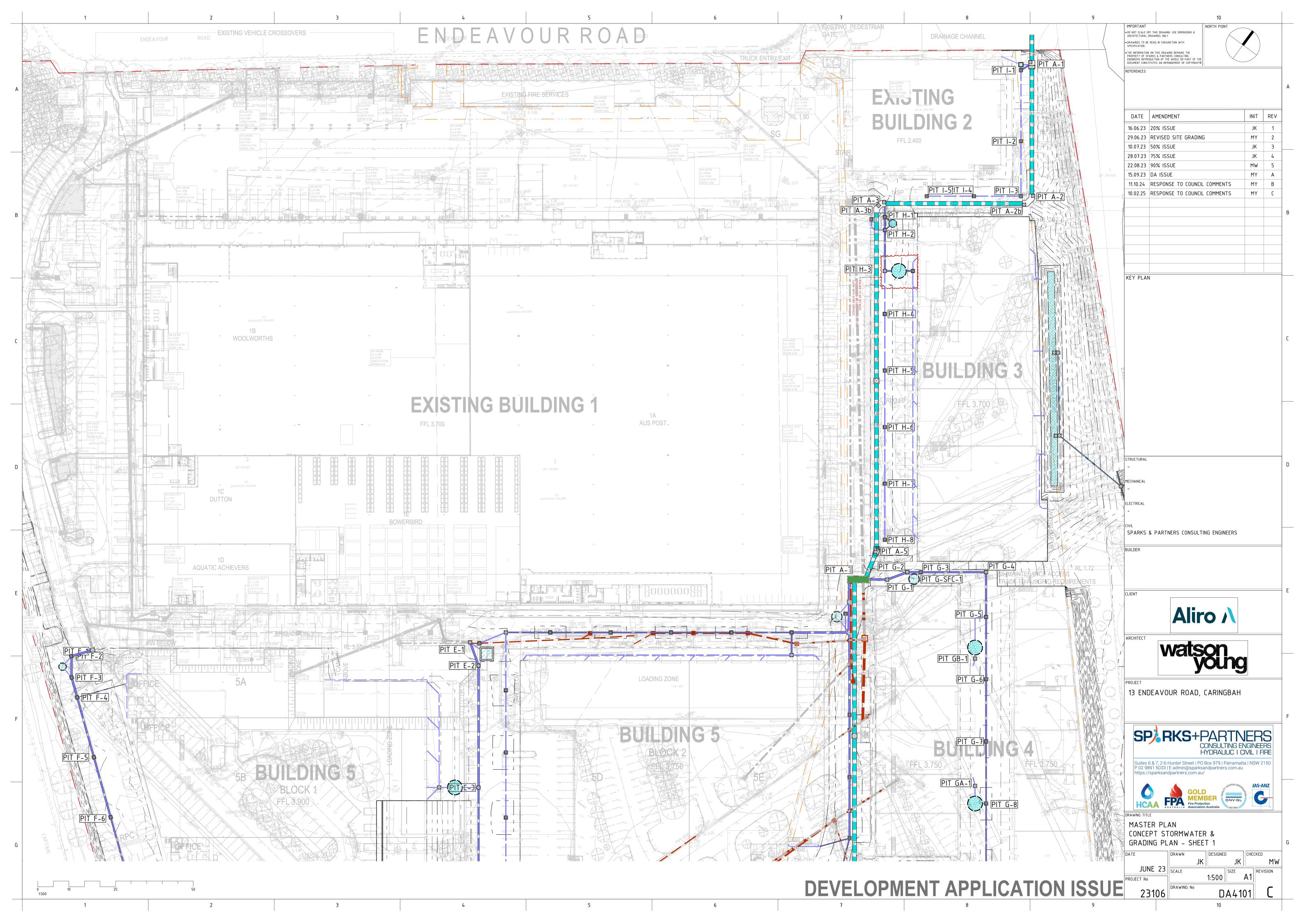
SECTIONS SHEET 2

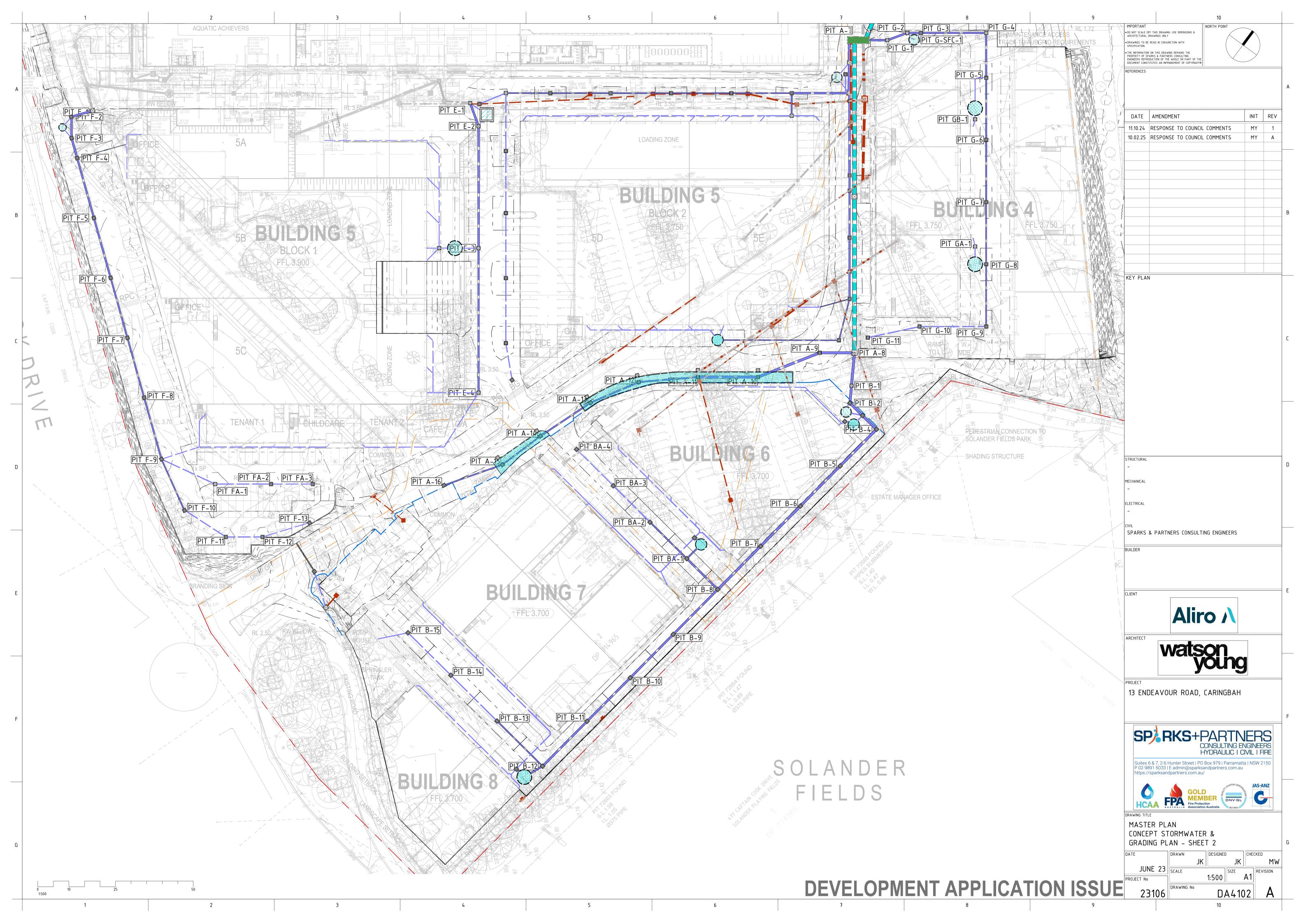
JUNE 23 SCALE

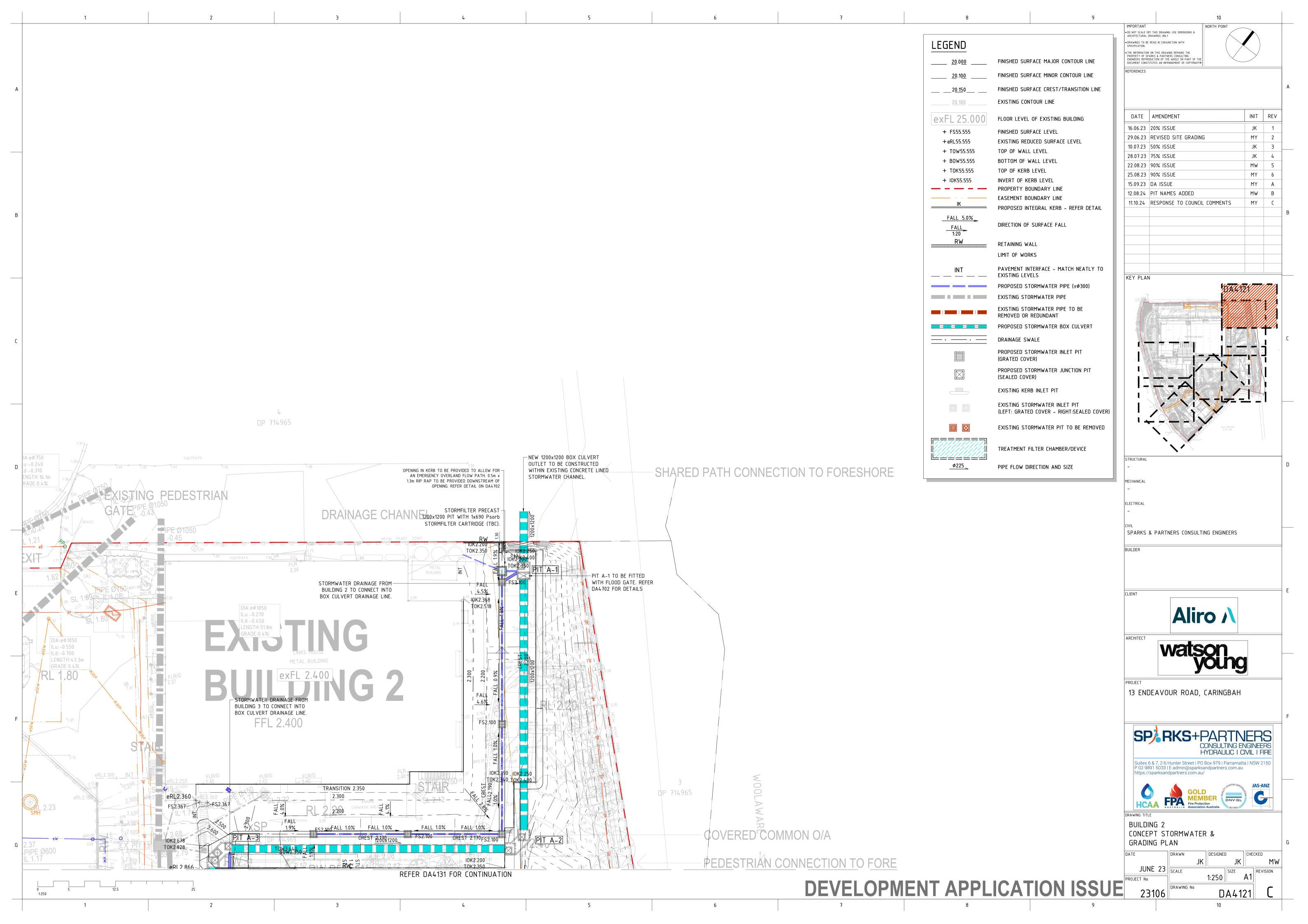
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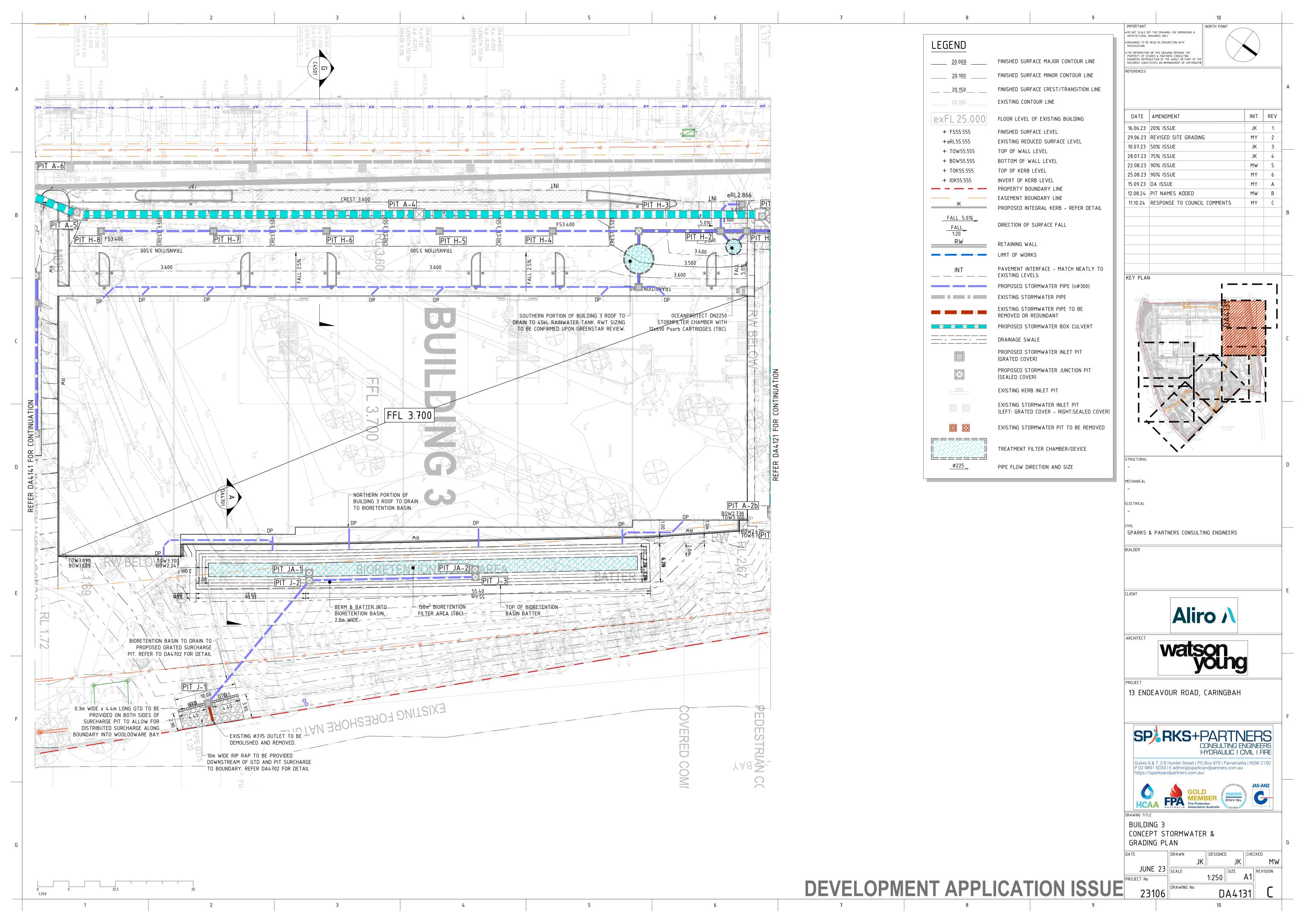
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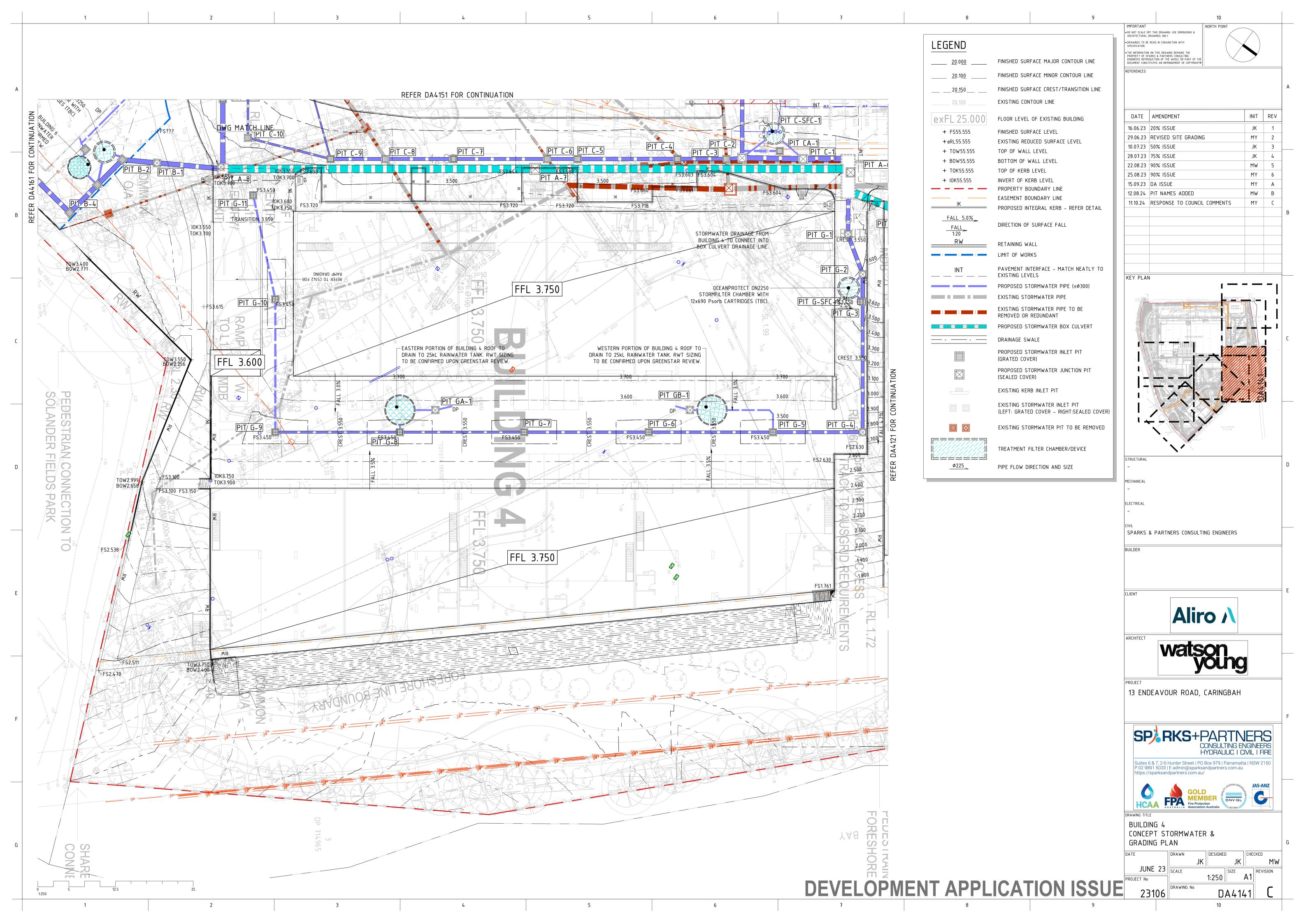
DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATION.

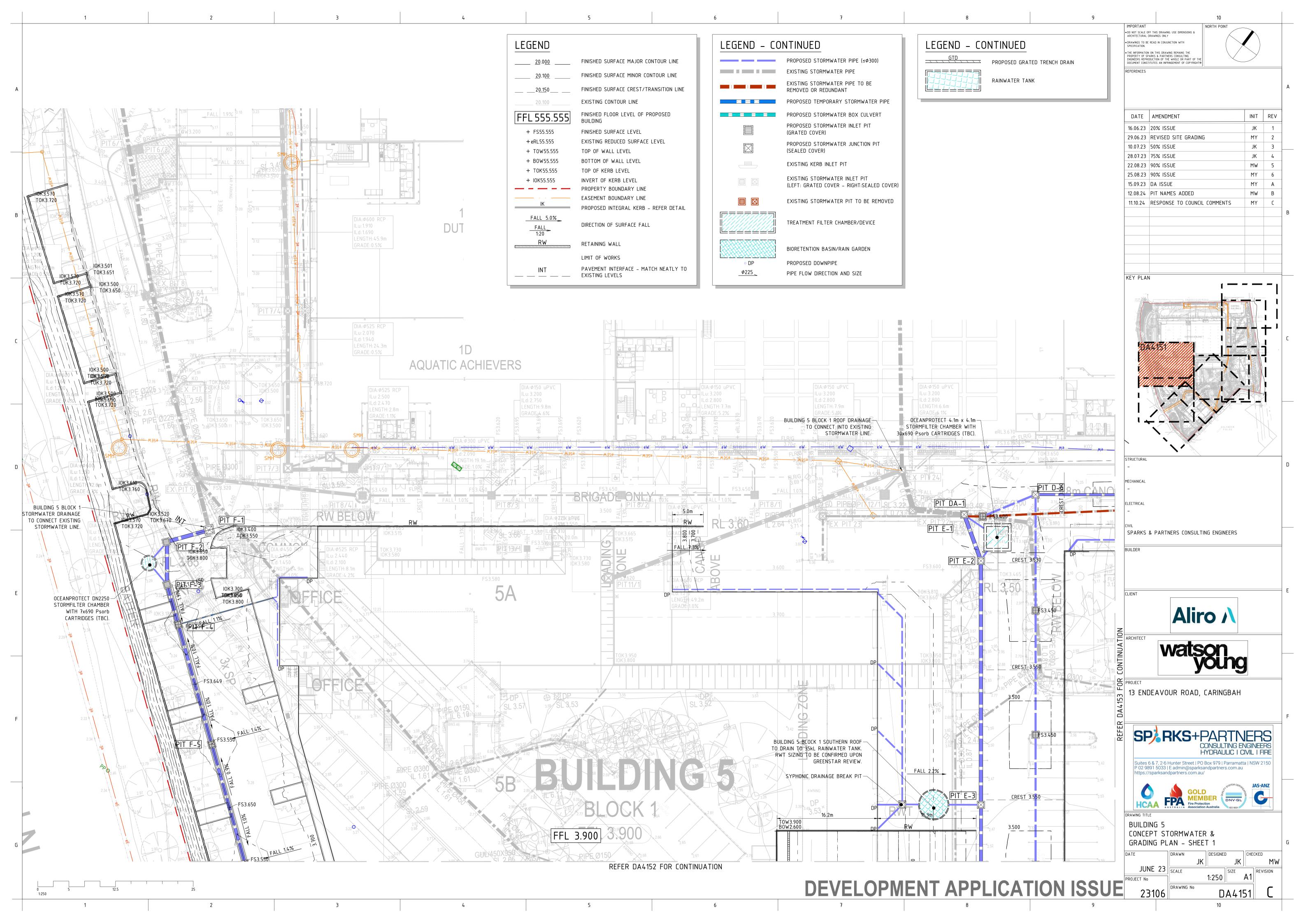


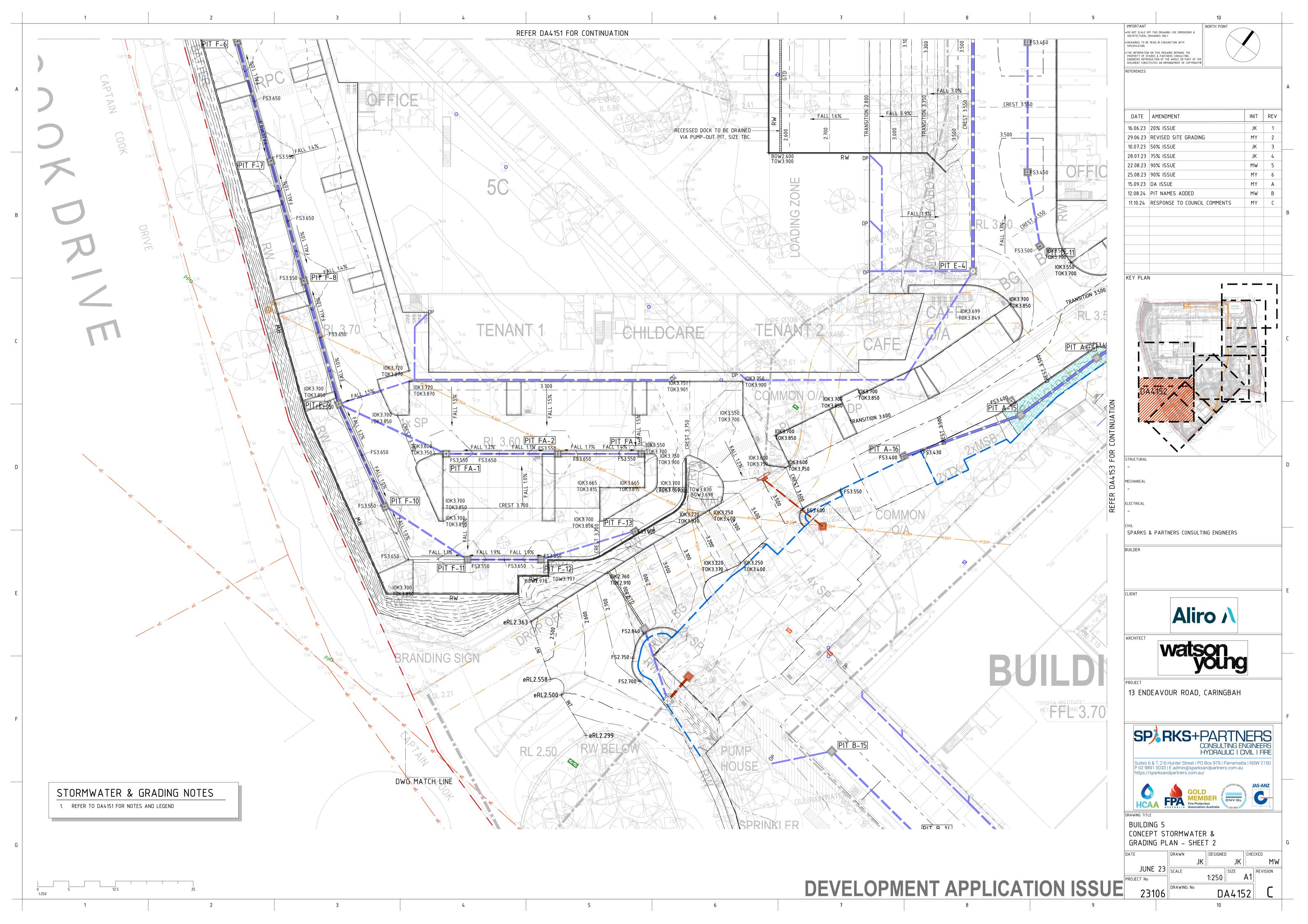


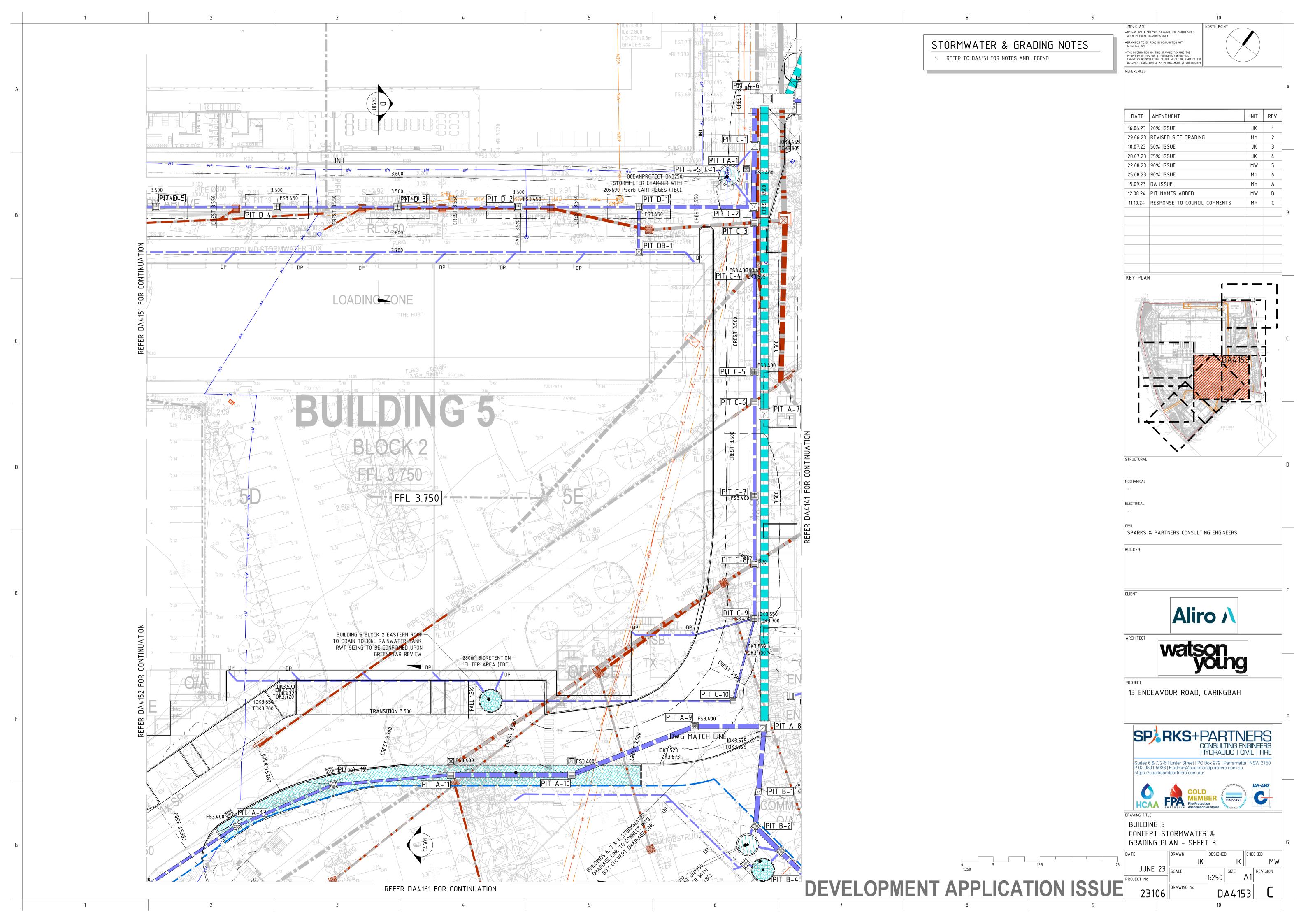


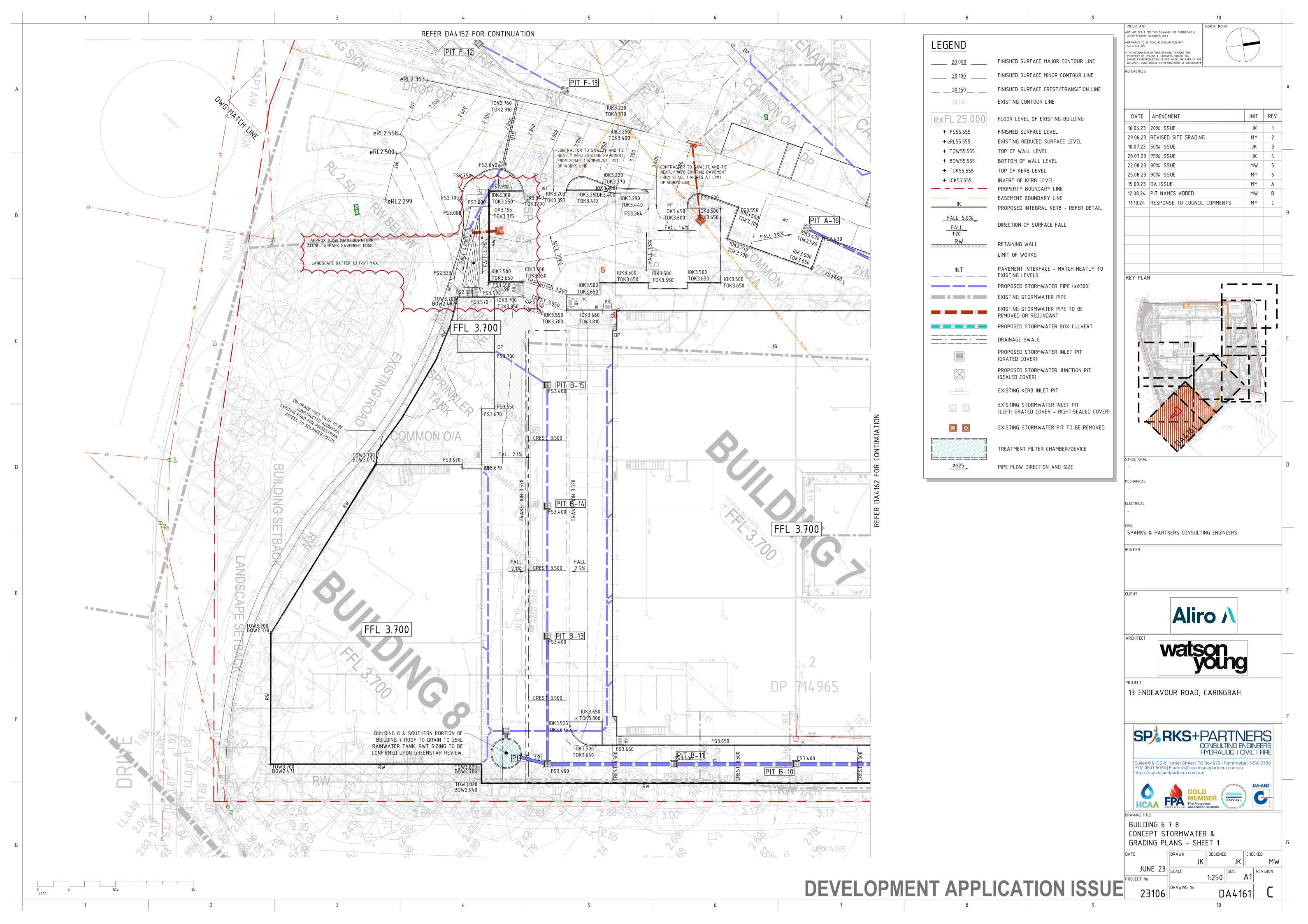


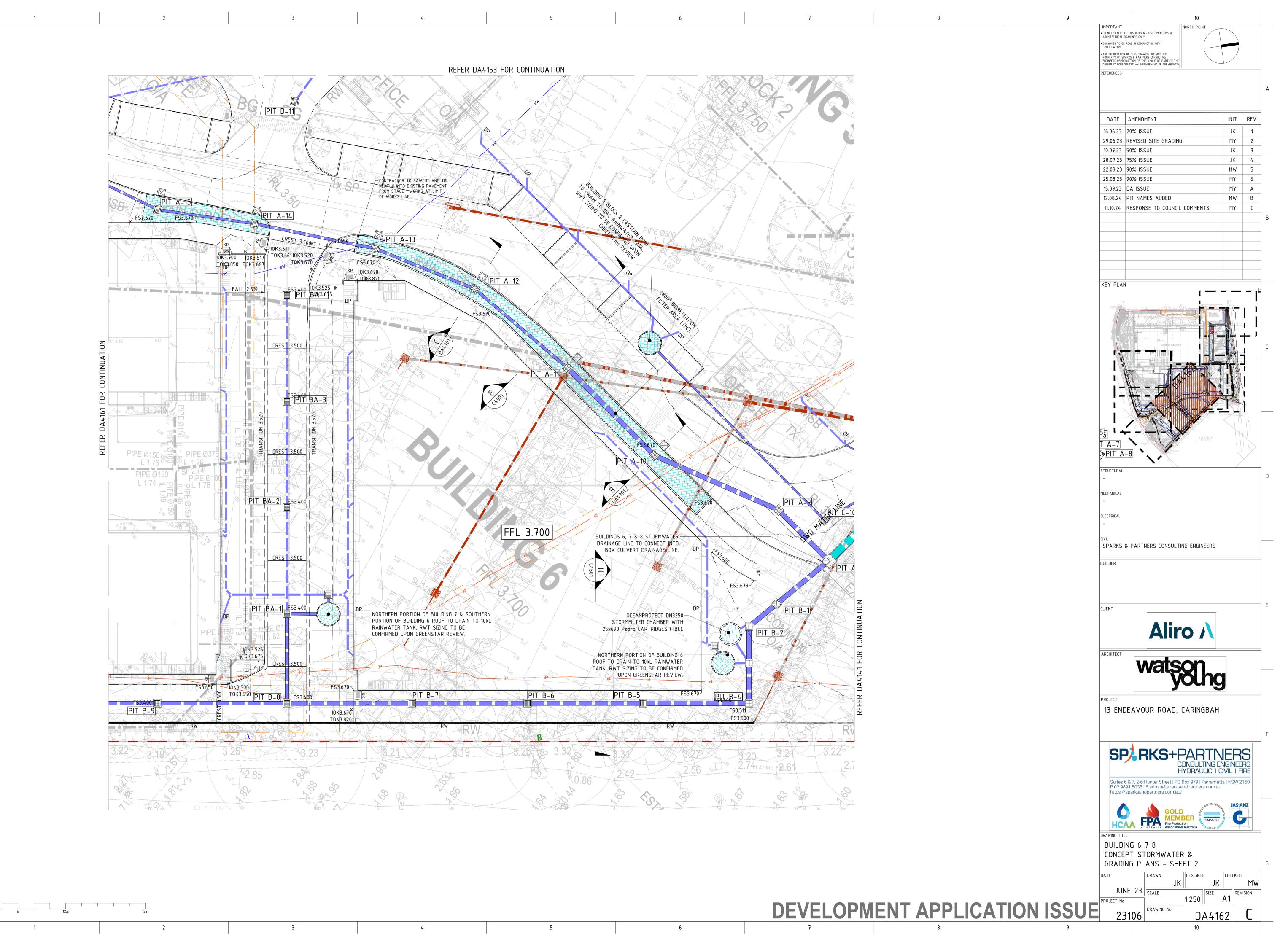


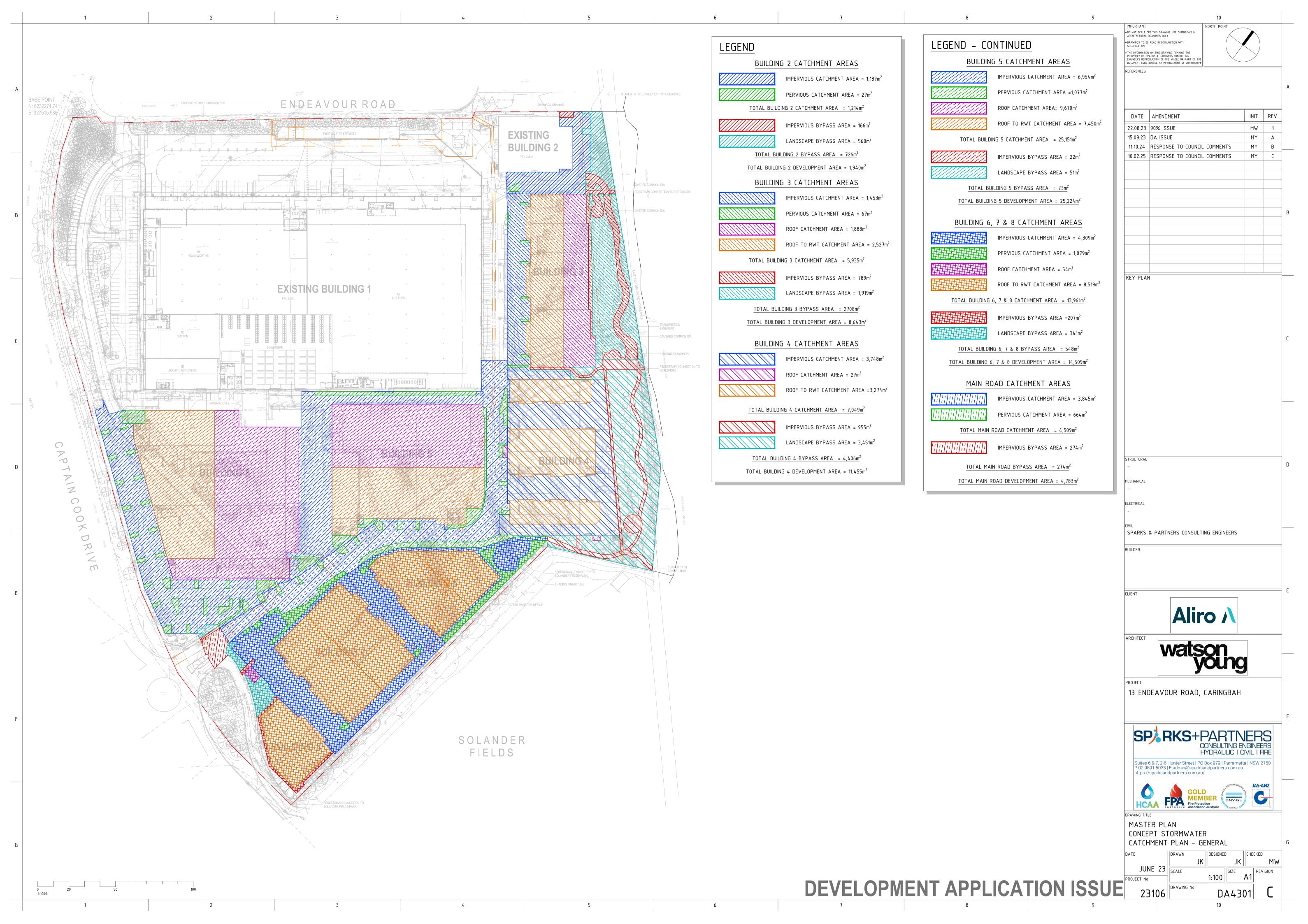


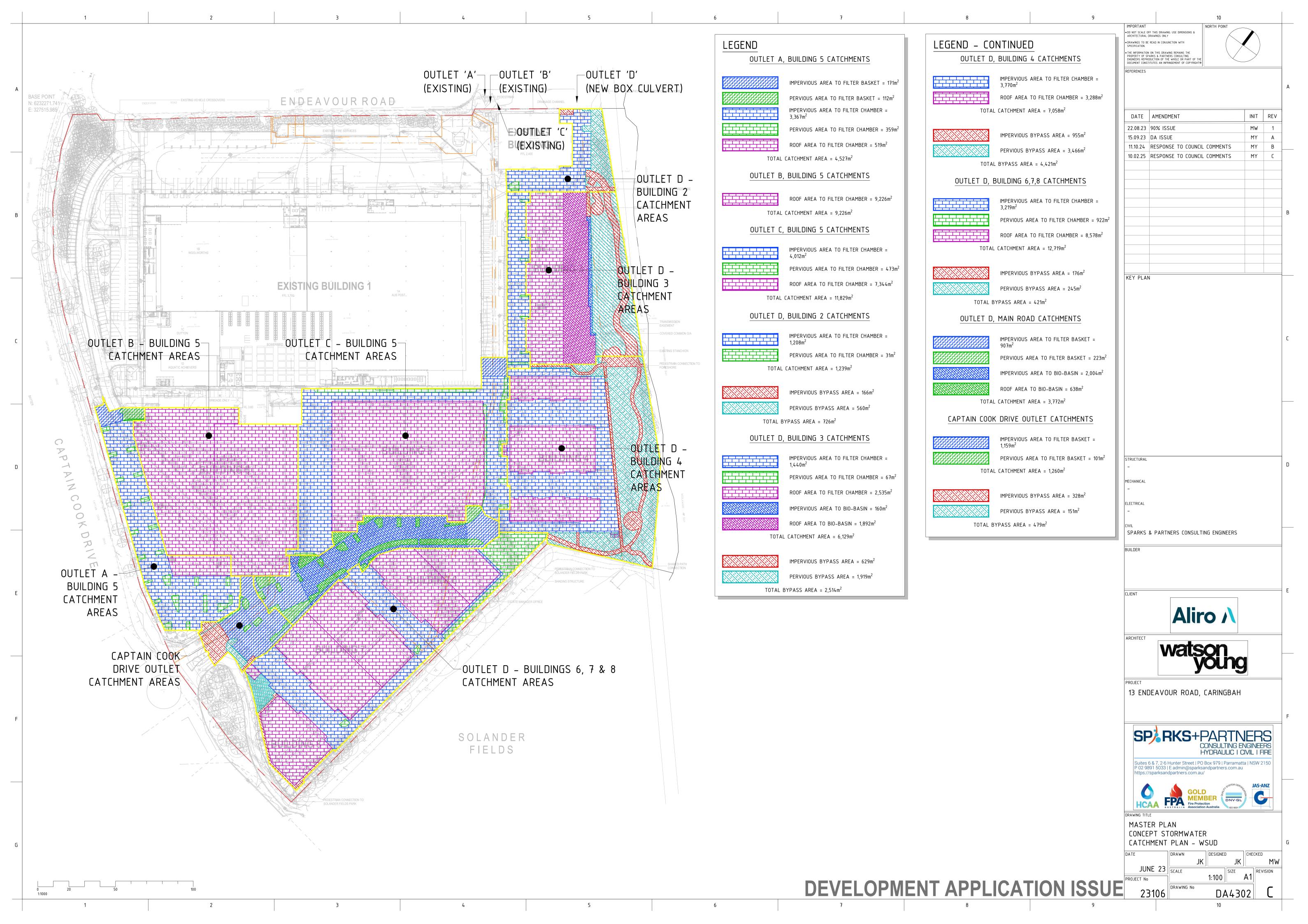


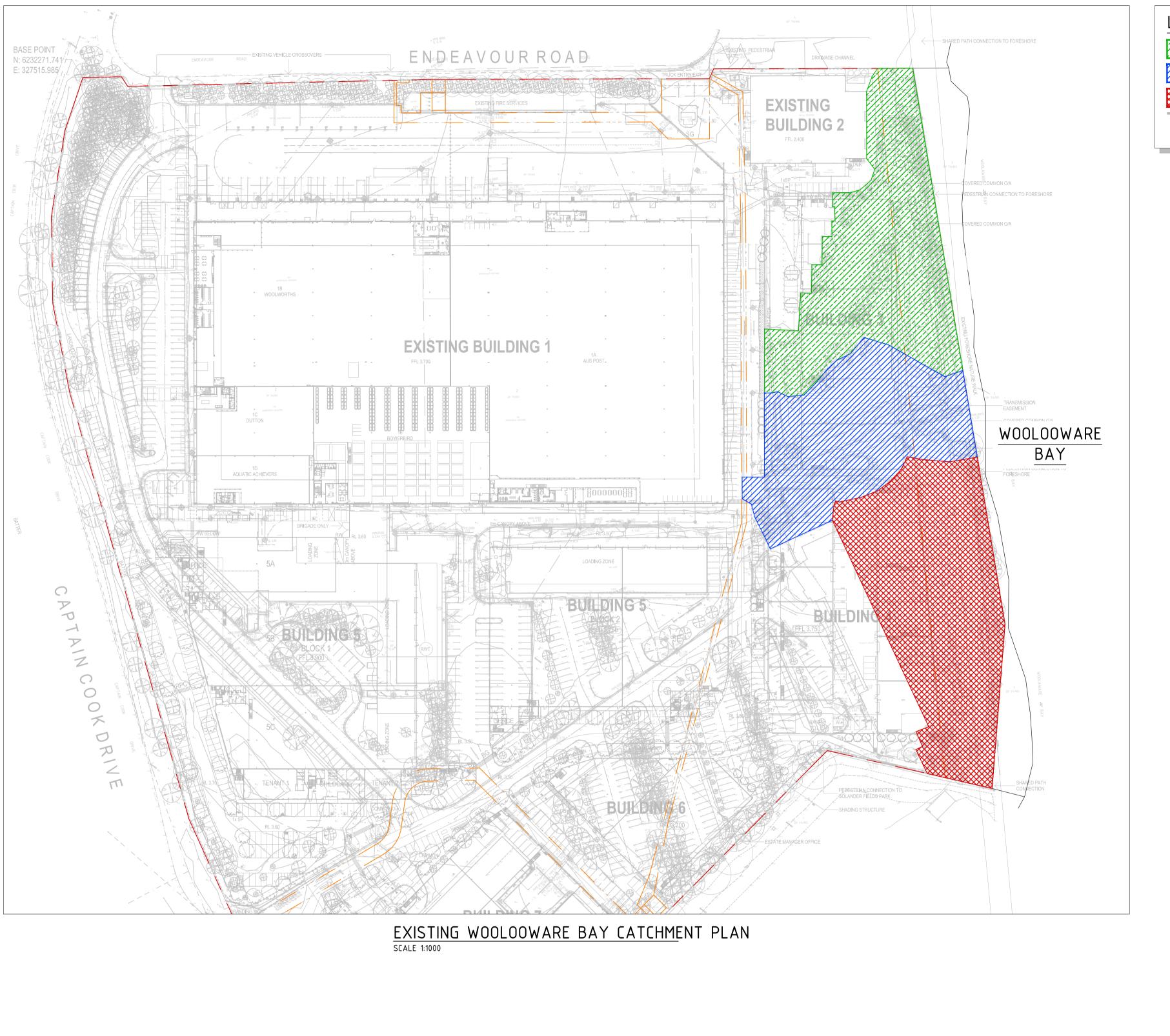












WOOLOOWARE BAY EXISTING NORTHERN
SHEET FLOW CATCHMENT AREA = 5,327m²
WOOLOOWARE BAY EXISTING 375¢ OUTLET
CATCHMENT AREA = 4,564m²
WOOLOOWARE BAY EXISTING SOUTHERN
SHEET FLOW CATCHMENT AREA = 5,916m²

TOTAL AREA DRAINING TO WOOLOOWARE
BAY = 15,807m²

DATE AMENDMENT INIT REV 11.10.24 RESPONSE TO COUNCIL COMMENTS MY A 17.10.24 RESPONSE TO COUNCIL COMMENTS MY B 10.02.25 RESPONSE TO COUNCIL COMMENTS MY C KEY PLAN SPARKS & PARTNERS CONSULTING ENGINEERS

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 DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATION.

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Aliro A

watson

13 ENDEAVOUR ROAD, CARINGBAH



MASTER PLAN
EXISTING CATCHMENT PLAN WOOLOOWARE BAY

DATE DRAWN DESIGNED

DEVELOPMENT APPLICATION ISSUE

