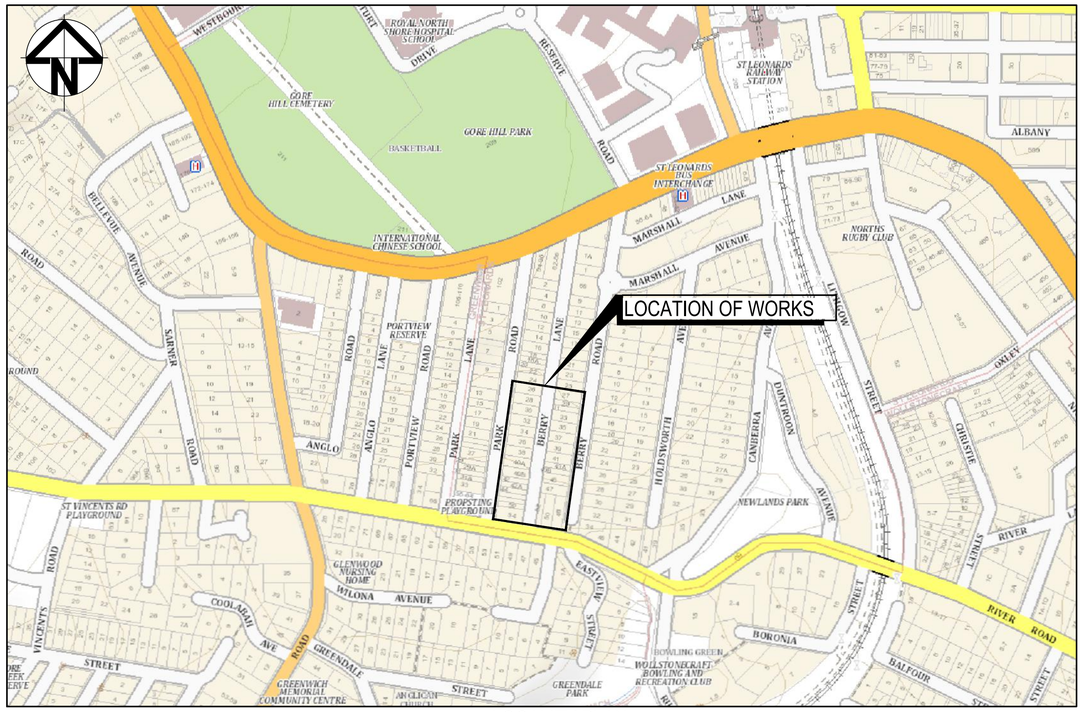
26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

DRAWING LIST



LOCALITY PLAN

Issue	Description	Date
C	ISSUED FOR DA APPROVAL	17-04-23
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

100mm on Original

Client: BERRY ROAD DEVELOPMENT PTY LTD.

Scales

		Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project: 26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title: COVER SHEET AND LOCALITY PLAN

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Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1000

Issue: C

F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1000.dwg

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY LANDPARTNERS, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT AT & L.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

SYM	DESCRIPTION
	AUSPOST BOX
	BENCHMARK
	BIN
	BOLLARD
	BOREHOLE
	BUS STOP SIGN
	FLAG POLE
	GATE
	MAIL BOX
	SEAT
	UNKNOWN SERVICE
	DRAINAGE GULLY PIT
	DRAINAGE MANHOLE
	ELEC FUSE BOX
	ELEC GARDEN LIGHT
	ELEC GREEN PILLAR
	ELEC LIGHT POLE
	ELEC POLE & LIGHT
	ELEC POLE&TRANSFORMER
	ELEC POWER POLE
	ELEC SINGLE PIT
	ELEC STAY POLE
	ELEC TWIN PIT
	FUEL DIP

SYM	DESCRIPTION
	GAS MAIN
	GAS METER
	GAS VALVE
	SEWER LAMPHOLE
	SEWER MANHOLE
	SEWER VENT PIPE
	OPTICAL FIBRE MARKER
	OPTICAL FIBRE PIT
	TELECOM DIST PILLAR
	TELECOM POLE
	TELECOM SINGLE PIT
	TELECOM TWIN PIT
	TRAFFIC JUNCTION BOX
	TRAFFIC LIGHT
	TRAFFIC SIGN
	TRAF SIGNAL CONTROLLER
	SHRUB
	TREE
	WATER AIR VALVE
	WATER HYDRANT
	WATER METER
	WATER PUMP
	WATER STOP VALVE
	WATER TAP

NOTES
1. THE BOUNDARIES HAVE NOT BEEN MARKED ON GROUND
2. ORIGIN OF LEVELS ON A.H.D. IS TAKEN FROM SSM 26101 R.L. 57.103 (A.H.D.) IN CHRISTIE STREET
3. CONTOUR INTERVAL 0.2m
4. CONTOURS ARE INDICATIVE ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
5. KERB LEVELS ARE TO THE TOP OF KERB UNLESS SHOWN OTHERWISE
6. FLOOR LEVELS SHOWN ARE THRESHOLD LEVELS. NO INVESTIGATION OF INTERNAL FLOOR LEVELS HAS BEEN UNDERTAKEN
7. NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE
8. 8/.4/7 DENOTES TREE SPREAD OF 8m, TRUNK DIAMETER OF 0.4m & APPROX HEIGHT OF 7m
9. BEARINGS SHOWN ARE MGA (MAP GRID OF AUSTRALIA) ADD APPROX. 1°00' FOR TRUE NORTH

EXISTING UNDERGROUND SERVICES NOTES

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. AT & L 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.

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE 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.

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA:
   A) AVERAGE RECURRENCE INTERVAL:
   1:100 YEARS ROOFED AREAS TO SURCHARGE PIT
   1:20 YEARS EXTERNAL PAVEMENTS
   (B) RAINFALL INTENSITIES:
   TIME OF CONCENTRATION: MINUTES 5
   1:100 YEARS= 223 mm/hr
   1:20 YEARS= 176 mm/hr
   (C) RUNOFF COEFFICIENTS:
   ROOF AREAS: C_{100} =1.0
   EXTERNAL PAVEMENTS: C_{100} =1.0
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '4' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED.
5. 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.
6. PIPES TO BE INSTALLED TO TYPE HS3 (ROAD) HS2 (LOTS) 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)
7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (2021) AND AS/NZS 3500 3.2 (2021).
8. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
9. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
10. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
12. GRATES AND COVERS SHALL CONFORM TO AS 3996.
13. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 7.5.2.1
14. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
15. 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.

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 100mm 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 CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
4. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES 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 600mm 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.

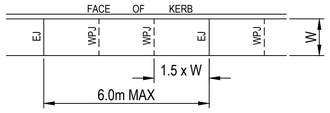
SITEWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
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(2017). (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 RMS. SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051 (UNBOUND), RMS. FORM ACCORDANCE WITH AS 1289 5.2.1(2017) FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m^{3}OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051, 3051.1 AND COMPACTED FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m^{3}OF SUB-BASE COURSE MATERIAL PLACED.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH RMS. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
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.

JOINTING NOTES

PEDESTRIAN PAVEMENT JOINTS

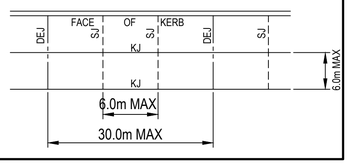
1. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O)
2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
3. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 1.5 x WIDTH OF THE PAVEMENT.
4. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
5. PEDESTRIAN PAVEMENT JOINT DETAIL.



NB: CHECK RELEVANT COUNCIL REQUIREMENTS IF IN PUBLIC ROAD.

VEHICULAR PAVEMENT JOINTS

6. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS. (U.N.O)
7. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS SHOWN ON DRAWINGS.
8. KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES
9. SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 30.0m CENTRES
10. VEHICULAR PAVEMENT JOINT DETAIL.



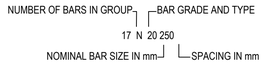
CONCRETE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600(2018) 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 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	32	80	20

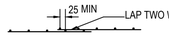
- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
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.M.S. SPECIFICATION R83.
7. REINFORCEMENT SYMBOLS:
   N DENOTES GRADE 450 N BARS TO AS/NZS 4671 GRADE N
   R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS/NZS 4671
   SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS/NZS 4671



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

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



EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
   a. LOCAL AUTHORITY REQUIREMENT
   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 WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
   (B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
   (C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
   (D) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN
   (E) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
   (F) 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.

OTHER MATTERS

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
14. 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 NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

SITEWORKS LEGEND

- EXISTING BOUNDARY
- F73.00 — FINISHED PAVEMENT LEVEL
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- 15.0 — EXISTING CONTOUR
- 73.0 — PROPOSED CONTOUR
- K&G — KERB AND GUTTER
- KO — KERB ONLY
- DD — DISH DRAIN
- PR — PRAM RAMP
- STORMWATER PIT WITH GRATE AND LINE
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- A\1 — STORMWATER PIT REFERENCE NUMBER

SERVICES LEGEND

EXISTING SERVICES	
ELECTRICITY	e
ELECTRICITY OVERHEAD	V
TELECOMMS CONDUITS	t
SEWER SERVICE	s
SEWER RISER MAIN	rm
WATER SERVICE	w
GAS SERVICE	g
STORMWATER	sw
PARKING METER SENSOR	
SERVICES TO BE REMOVED	x
UNKNOWN SERVICE	?

PROPOSED SERVICES	
WATER CONDUITS	W
ELECTRICITY CONDUITS	E
GAS CONDUITS	G
SEWER	S
TELECOMMS CONDUITS	T
TELSTRA PIT	T

NOTE

ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH LANE COVE COUNCIL CONSTRUCTION SPECIFICATIONS. WHERE COUNCIL SPECIFICATIONS DIFFER FROM THE CONSTRUCTION NOTES THE COUNCIL SPECIFICATIONS TAKE PRECEDENCE.

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

100mm on Original

Client: BERRY ROAD DEVELOPMENT PTY LTD.

Scales

Grid MGA94

Height Datum AHD

Drawn	JD
Designed	JD
Checked	SS
Approved	

Project: 26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title: GENERAL NOTES AND LEGEND

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Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1001

Issue: B

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Issue	Description	Date
C	ISSUED FOR DA APPROVAL	17-04-23
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100mm on Original

Bar Scales

0 15 30 45 60 75m

1 : 750 @ A1 1 : 1500 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 750	Drawn	JD
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26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

GENERAL ARRANGEMENT PLAN

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Project - Drawing No.: 22-1013-DAC1002

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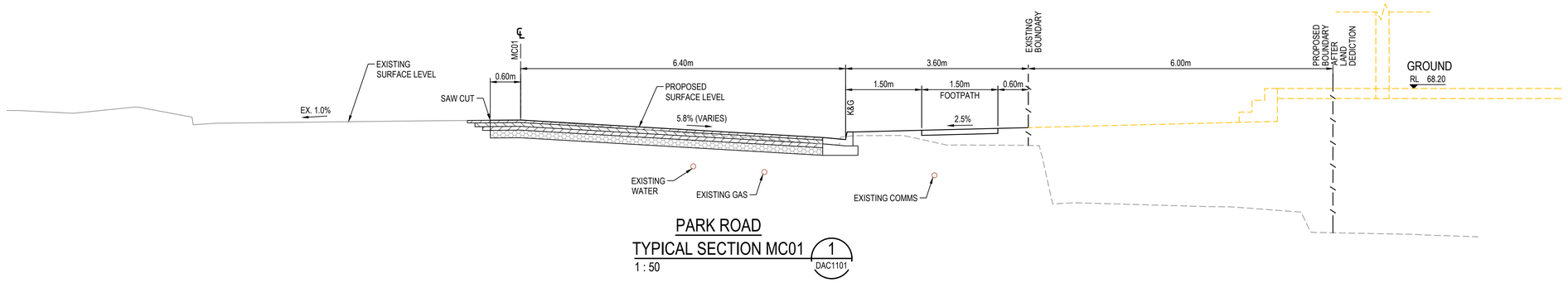
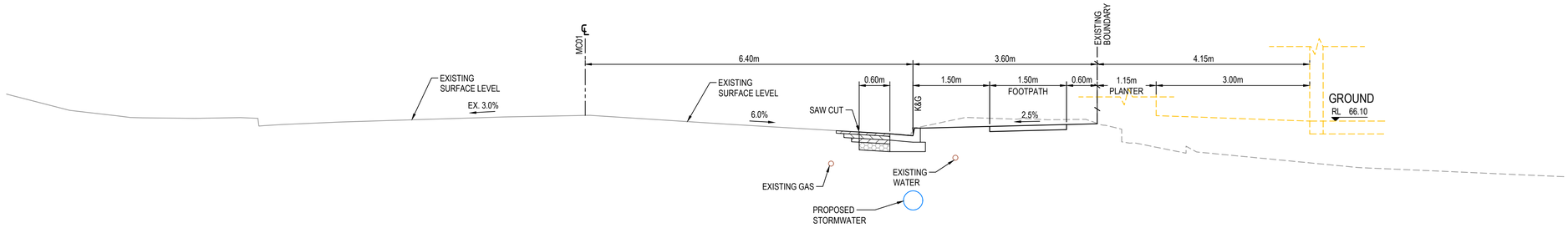
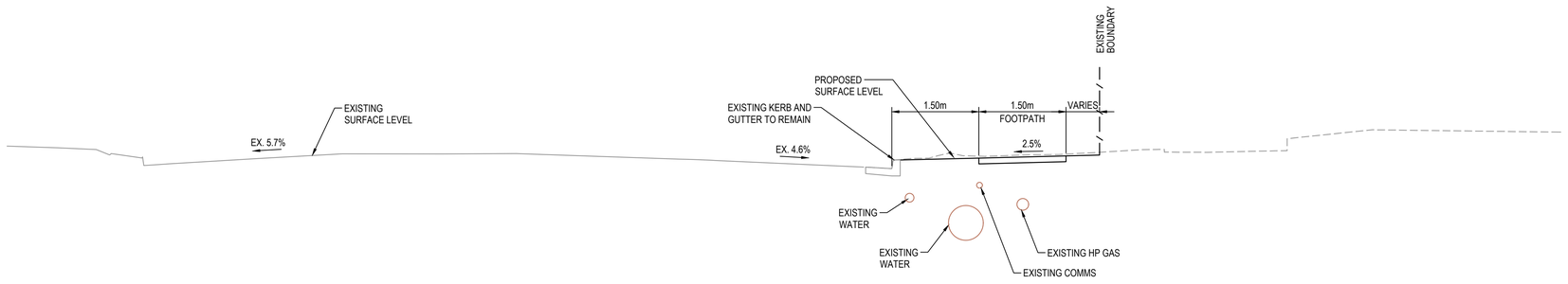


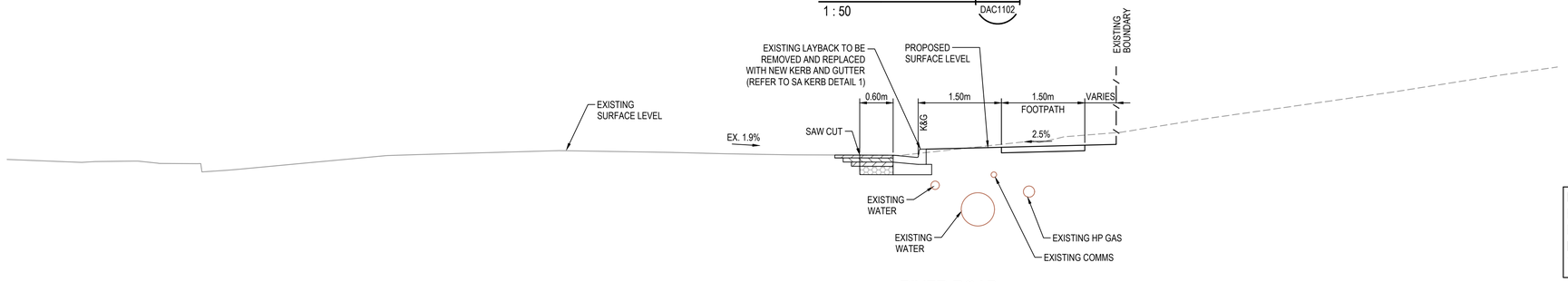
PARK ROAD
TYPICAL SECTION MC01 — 1
1 : 50 — DAC1101



PARK ROAD
TYPICAL SECTION MC01 — 2
1 : 50 — DAC1102



RIVER ROAD
TYPICAL SECTION — 3
1 : 50 — DAC1102



RIVER ROAD
TYPICAL SECTION — 4
1 : 50 — DAC1102

NOTE:
EXISTING SERVICES SHOWN INDICATIVELY BASED ON BYDA.
EXISTING HIGH PRESSURE GAS MAIN AND OTHER SERVICES TO BE INVESTIGATED AT CC STAGE TO ENSURE REQUIRED COVER FROM THE FINISHED SURFACE IS PROVIDED.

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 50	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

TYPICAL SECTIONS SHEET 1

Civil Engineers and Project Managers
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Level 7, 153 Walker Street
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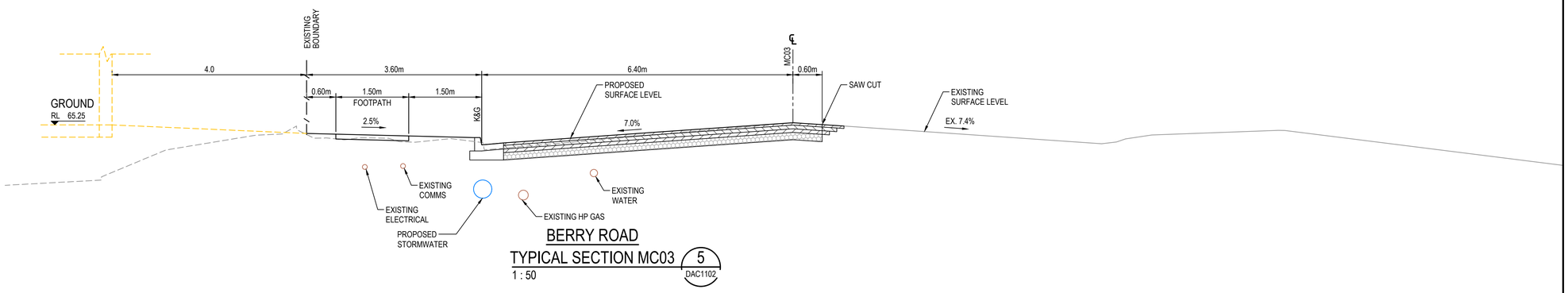
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

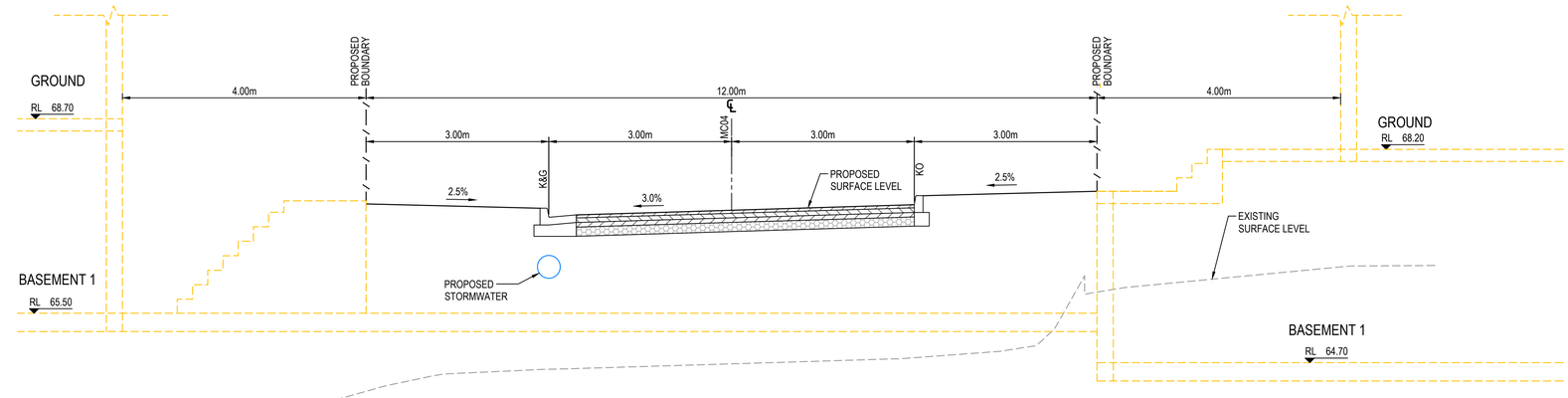
Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION) — A1

Project - Drawing No.: 22-1013-DAC1003 — Issue: B

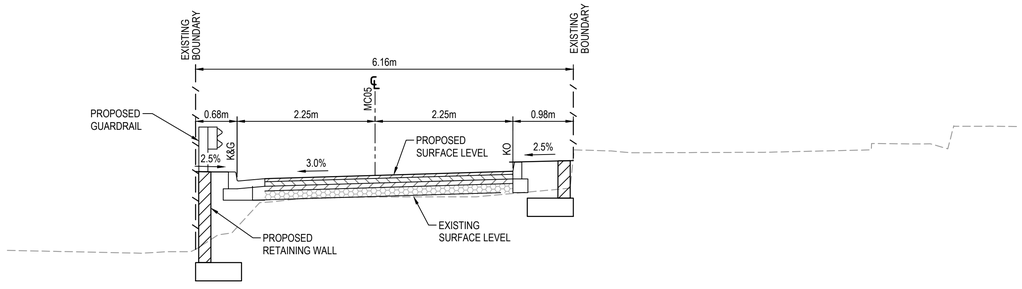
F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1003.dwg



BERRY ROAD
TYPICAL SECTION MC03 5
1 : 50 DAC1102



PROPOSED DCP ROAD
TYPICAL SECTION MC04 6
1 : 50 DAC1101



PROPOSED PARK ROAD CONNECTION
TYPICAL SECTION MC05 7
1 : 50 DAC1102

NOTE:
EXISTING SERVICES SHOWN INDICATIVELY BASED ON BYDA.
EXISTING HIGH PRESSURE GAS MAIN AND OTHER SERVICES TO BE INVESTIGATED AT CC STAGE TO ENSURE REQUIRED COVER FROM THE FINISHED SURFACE IS PROVIDED.

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

Client
BERRY ROAD DEVELOPMENT PTY LTD.

Scales 1 : 50
Grid MGA94
Height Datum AHD
Drawn JD
Designed JD
Checked SS
Approved

Project
26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title
TYPICAL SECTIONS SHEET 2

Civil Engineers and Project Managers
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Status FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)
A1
Project - Drawing No. 22-1013-DAC1004
Issue B

100mm on Original

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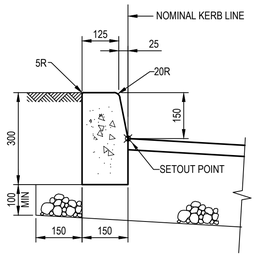
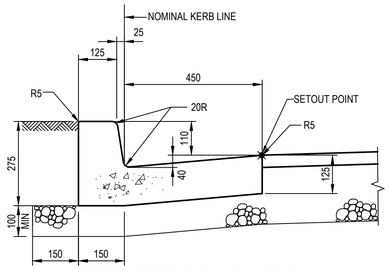


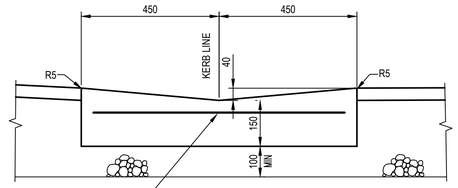
KERB ONLY (KO)

SCALE 1:10



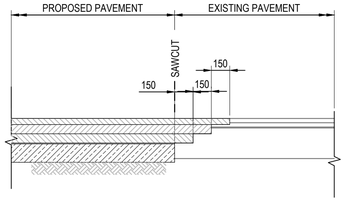
KERB AND GUTTER (K&G)

SCALE 1:10



DISH DRAIN (DD)

SCALE 1:10

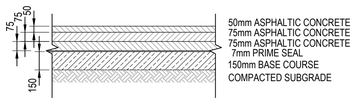


PAVEMENT INTERFACE DETAIL

SECTION A / C102

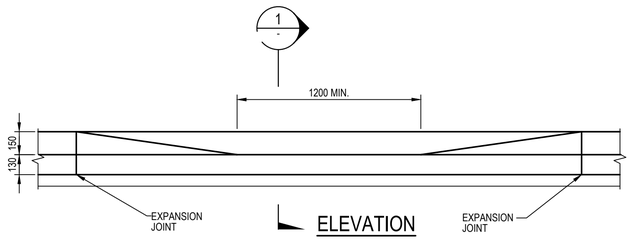
1 : 25

PAVEMENT DETAILS SUBJECT TO DETAILED DESIGN AND GEOTECHNICAL APPROVAL

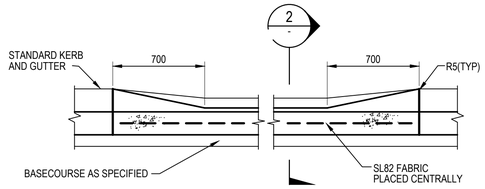


PAVEMENT TYPE 1 DETAIL

1 : 25

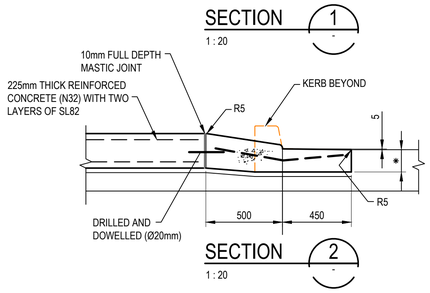


ELEVATION



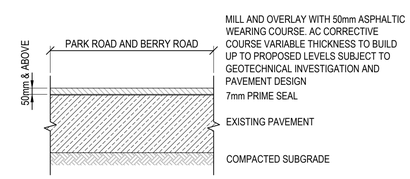
SECTION 1 / -

1 : 20



SECTION 2 / -

1 : 20

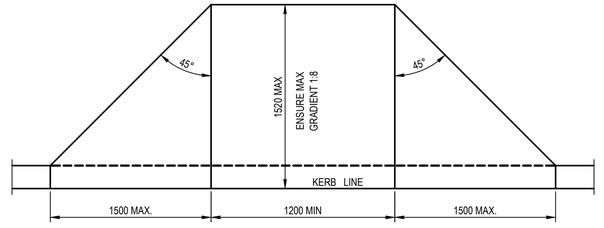


PAVEMENT TYPE 2A DETAIL

MILL AND RESHEET

(WHERE DESIGN LELEVLS ARE ABOVE EXISTING LEVELS)

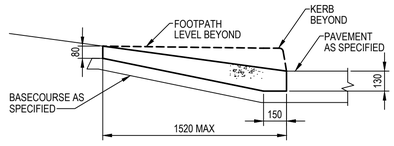
1 : 25



PLAN

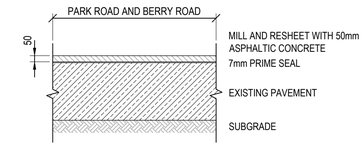
PRAM RAMP (PR)

SCALE 1:20



SECTION 1 / -

1 : 20

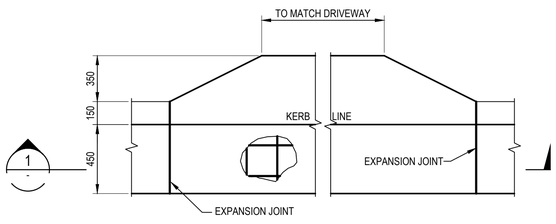


PAVEMENT TYPE 2B DETAIL

MILL AND RESHEET

(WHERE MATCHING EXISTING LEVELS)

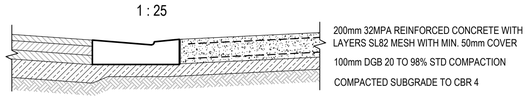
1 : 25



PLAN

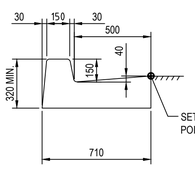
VEHICULAR CROSSING (VC)

SCALE 1:20



PAVEMENT TYPE 3 DETAIL

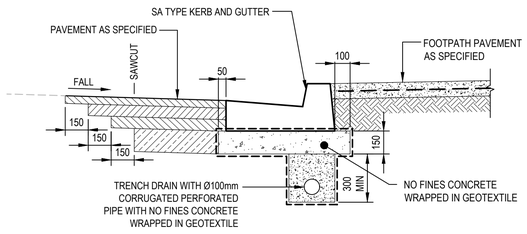
1 : 25



TYPE 'SA' KERB

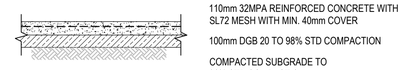
BARRIER KERB AND GUTTER

SCALE 1:20



DETAIL 1 / -

1 : 20



PAVEMENT TYPE 4 DETAIL

1 : 25

NOTE: FOOTPATH AND VEHICLE CROSSING DETAILS TO BE READ IN CONJUNCTION WITH LANE COVE COUNCIL STANDARD DETAILS

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales		Drawn	JD
	AS SHOWN	Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

ROADWORKS DETAILS

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
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ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1005

Issue: B

100mm on Original

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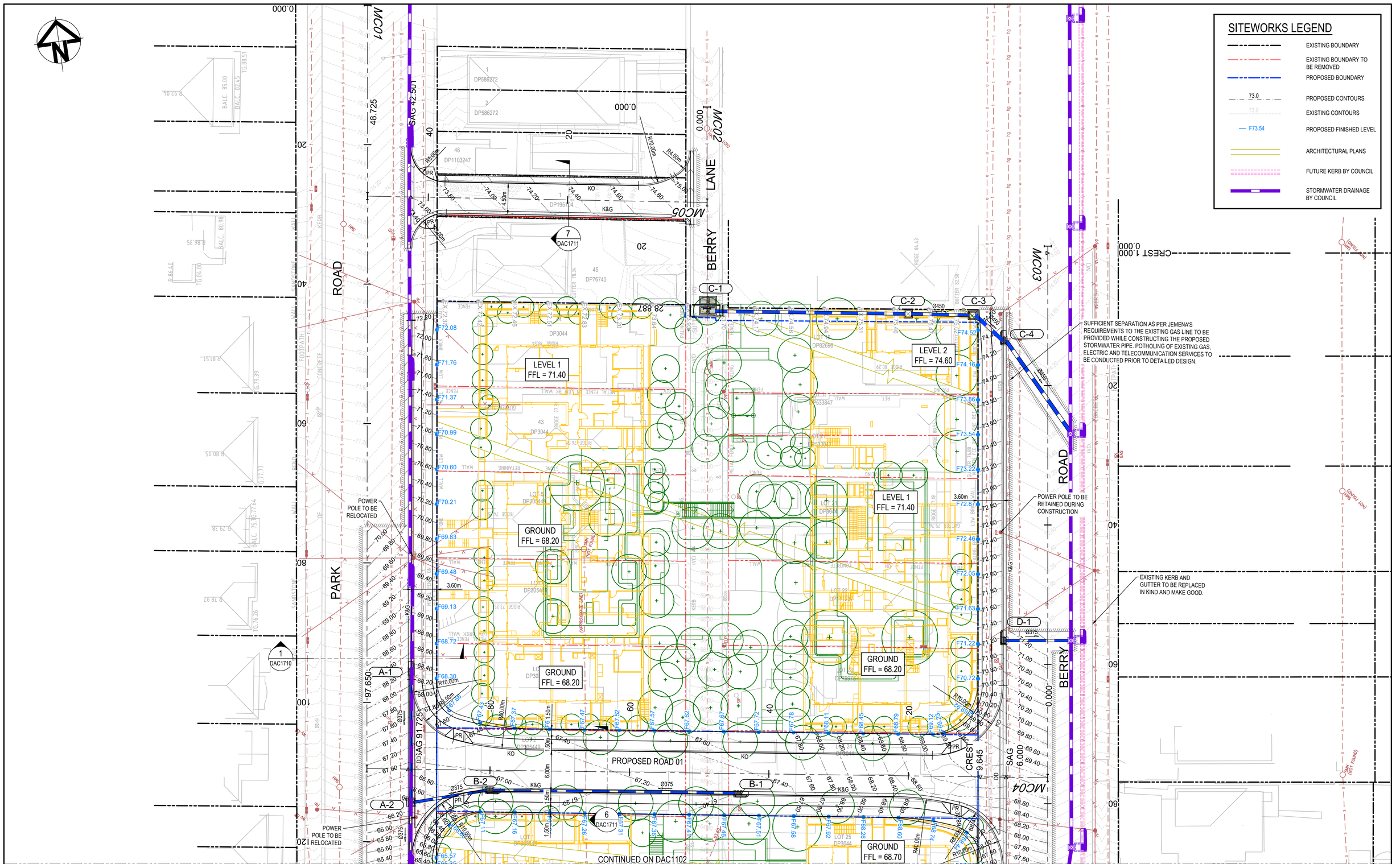

Issue	Description	Date
D	ISSUED FOR DA APPROVAL	17-04-23
C	ISSUED FOR DA APPROVAL	24-02-23
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22
P2	BDY LEVELS UPDATED	02-11-22
P1	ISSUED FOR INFORMATION	26-10-22

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 250
Grid	MGA94
Height Datum	AHD
Drawn	JD
Designed	JCa
Checked	SS
Approved	PW

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
NSW 2060
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www.atl.net.au
ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1101

Issue: D

100mm on Original

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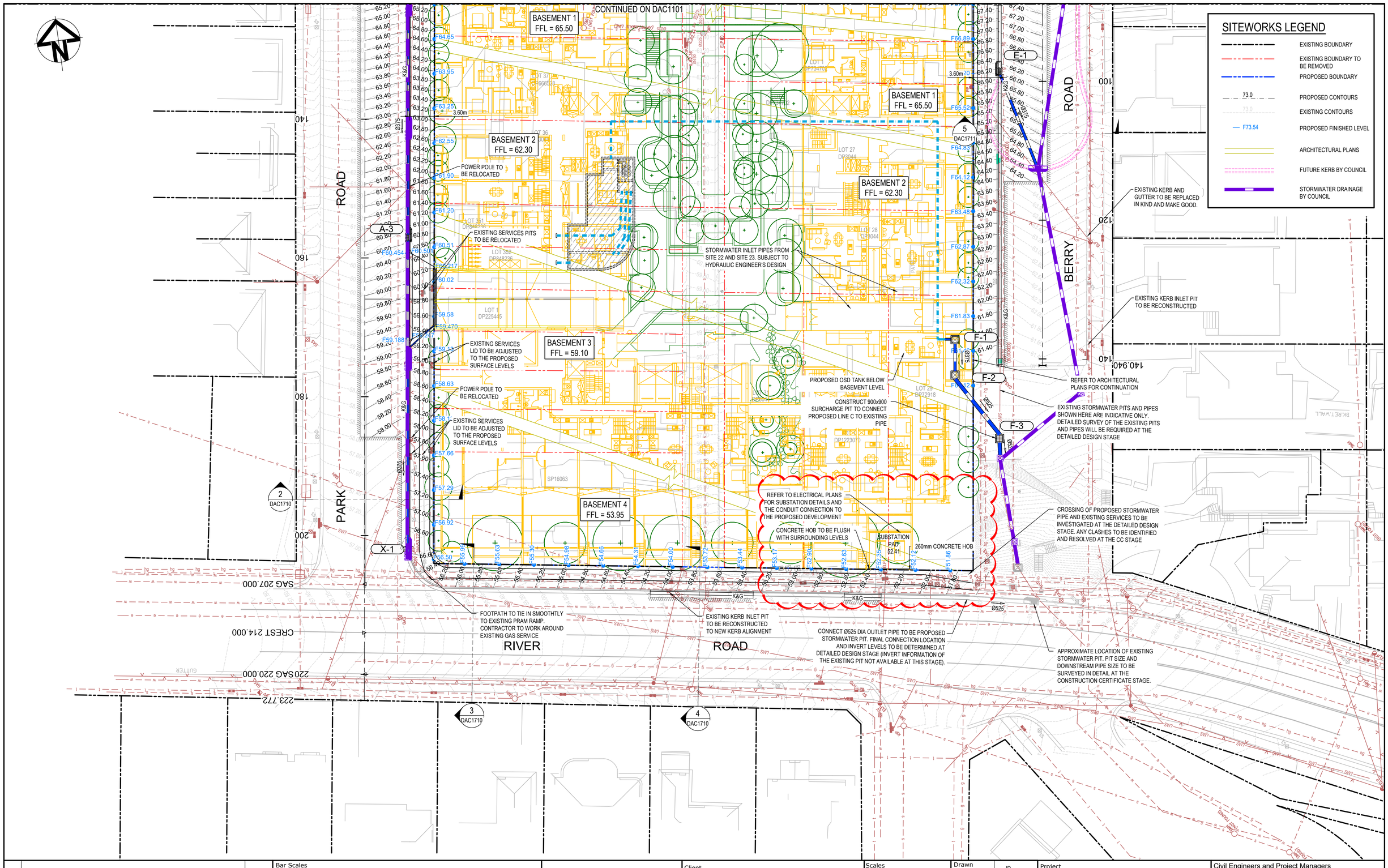

Issue	Description	Date
F	BASEMENT 3 ARCHITECTURAL UPDATED	07-06-23
E	OSD TANK AND DRAINAGE UPDATED. SUBSTATION PAD NOTES ADDED.	28-04-23
D	ISSUED FOR DA APPROVAL	17-04-23
C	ISSUED FOR DA APPROVAL	24-02-23
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22
P2	BDY LEVELS UPDATED	02-11-22
P1	ISSUED FOR INFORMATION	26-10-22

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 250
Grid	MGA94
Height Datum	AHD
Drawn	JD
Designed	JCa
Checked	SS
Approved	PW

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2

Civil Engineers and Project Managers
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NSW 2060
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www.atl.net.au
ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1102

Issue: F

100mm on Original

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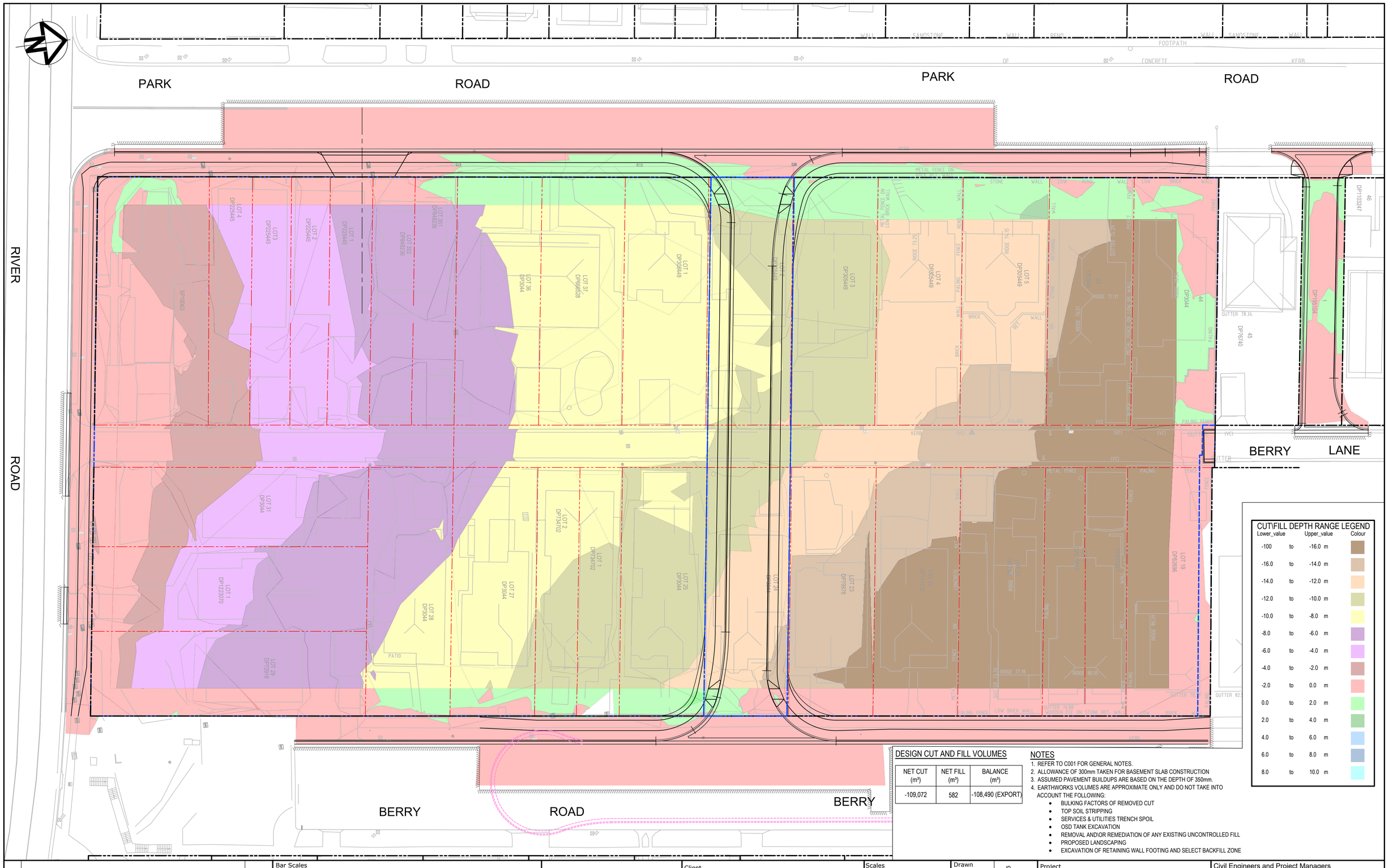

CUT/FILL DEPTH RANGE LEGEND

Lower_value		Upper_value		Colour
-100	to	-16.0	m	
-16.0	to	-14.0	m	
-14.0	to	-12.0	m	
-12.0	to	-10.0	m	
-10.0	to	-8.0	m	
-8.0	to	-6.0	m	
-6.0	to	-4.0	m	
-4.0	to	-2.0	m	
-2.0	to	0.0	m	
0.0	to	2.0	m	
2.0	to	4.0	m	
4.0	to	6.0	m	
6.0	to	8.0	m	
8.0	to	10.0	m	

DESIGN CUT AND FILL VOLUMES

NET CUT (m^3)	NET FILL (m^3)	BALANCE (m^3)
-109,072	582	-108,490 (EXPORT)

NOTES

1. REFER TO C001 FOR GENERAL NOTES.
2. ALLOWANCE OF 300mm TAKEN FOR BASEMENT SLAB CONSTRUCTION
3. ASSUMED PAVEMENT BUILDUPS ARE BASED ON THE DEPTH OF 350mm.
4. EARTHWORKS VOLUMES ARE APPROXIMATE ONLY AND DO NOT TAKE INTO ACCOUNT THE FOLLOWING:
   - BULKING FACTORS OF REMOVED CUT
   - TOP SOIL STRIPPING
   - SERVICES & UTILITIES TRENCH SPOIL
   - OSD TANK EXCAVATION
   - REMOVAL AND\OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
   - PROPOSED LANDSCAPING
   - EXCAVATION OF RETAINING WALL FOOTING AND SELECT BACKFILL ZONE

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 250	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

BULK EARTHWORKS PLAN

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Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1201

Issue: B

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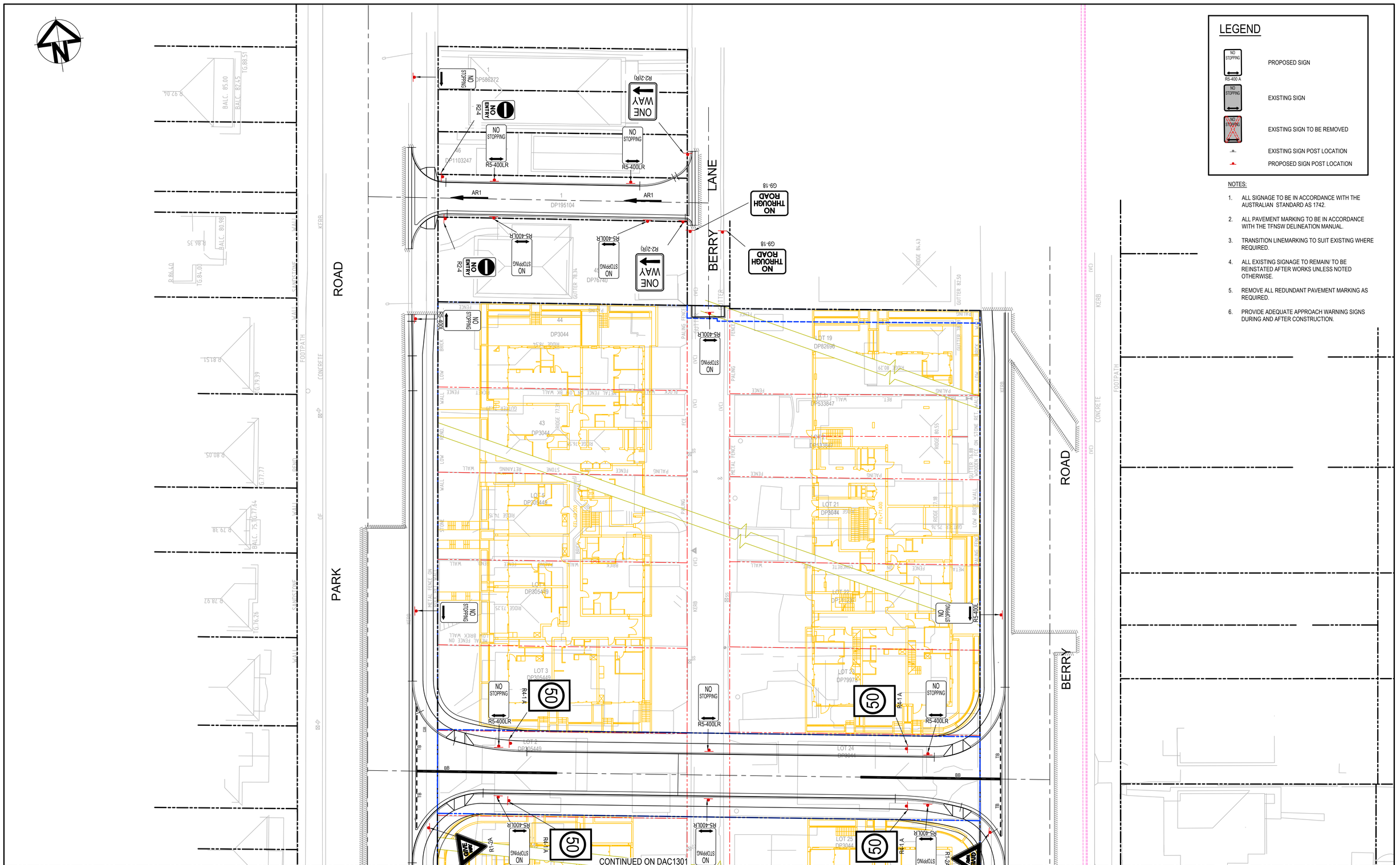

Issue	Description	Date
C	ISSUED FOR DA APPROVAL	17-04-23
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 250
Grid	MGA94
Height Datum	AHD
Drawn	JD
Designed	JD
Checked	SS
Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

SIGNAGE AND LINEMARKING PLAN SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
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Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1301

Issue: C

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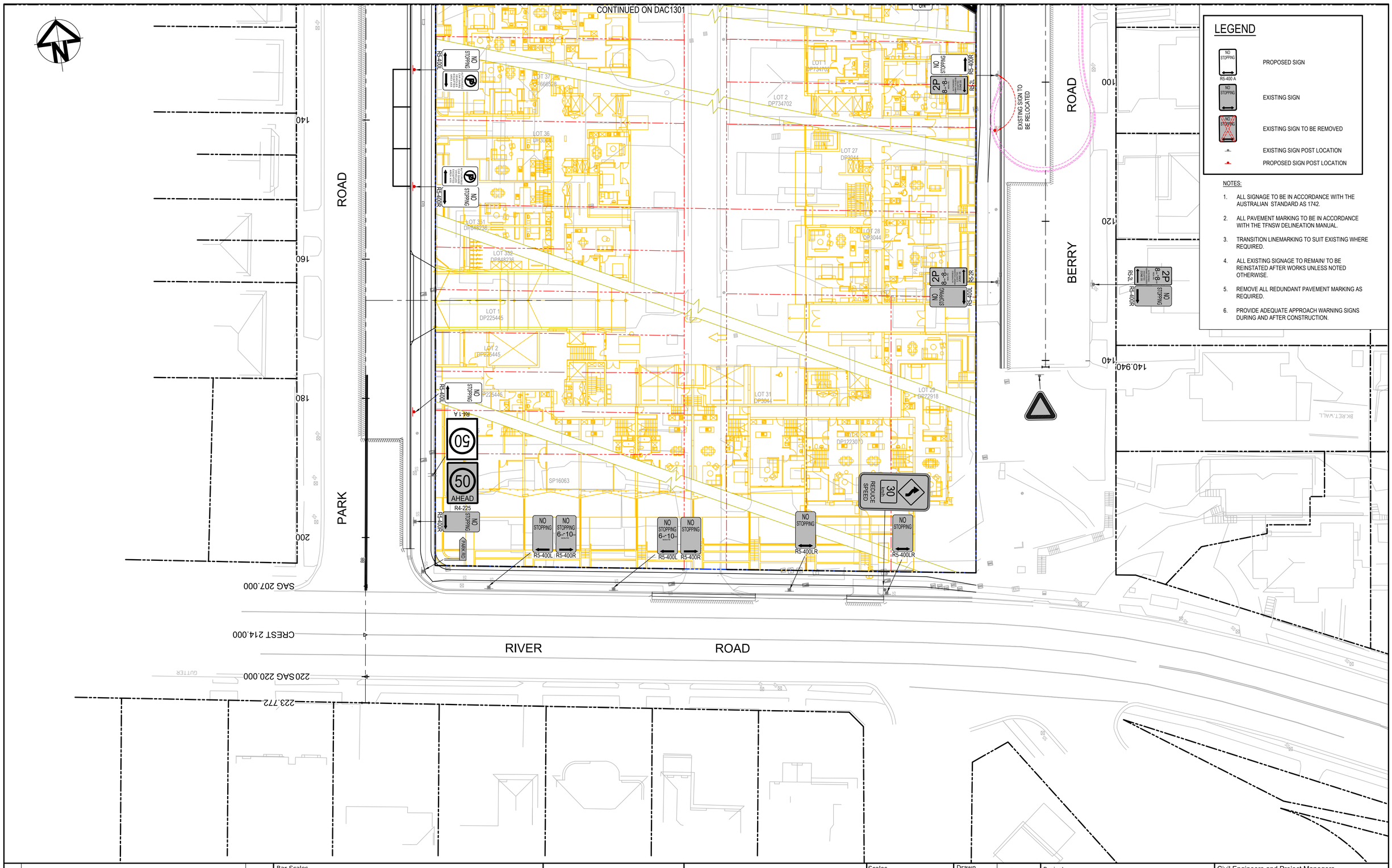

Issue	Description	Date
D	BASEMENT 3 ARCHITECTURAL UPDATED	07-06-23
C	ISSUED FOR DA APPROVAL	17-04-23
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 250
Grid	MGA94
Height Datum	AHD
Drawn	JD
Designed	JD
Checked	SS
Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

SIGNAGE AND LINEMARKING PLAN SHEET 2

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www.atl.net.au
ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION) — A1

Project - Drawing No.: 22-1013-DAC1302 — Issue: D

100mm on Original

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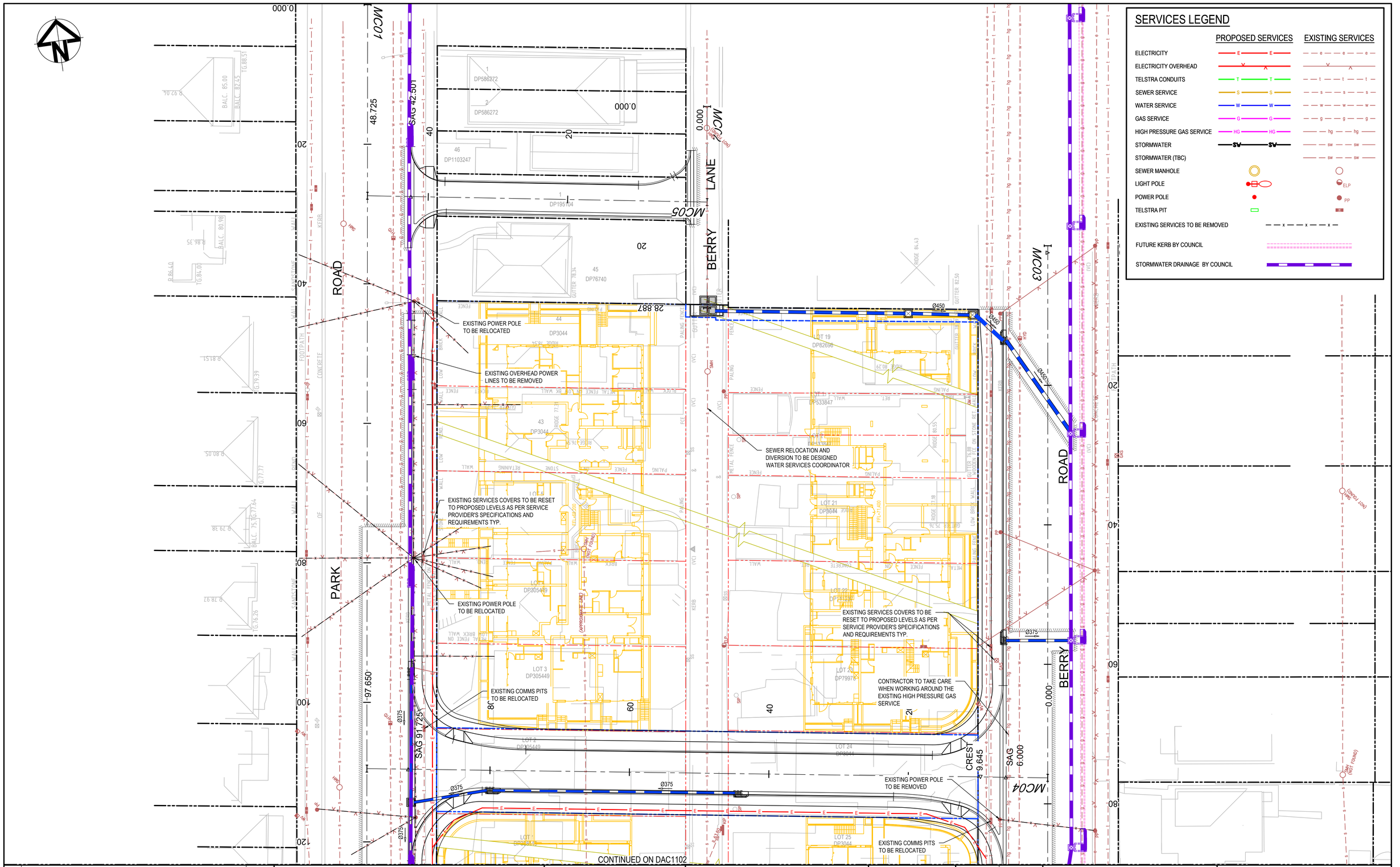

Issue	Description	Date
C	ISSUED FOR DA APPROVAL	17-04-23
C	ISSUED FOR DA APPROVAL	24-02-23
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 250
Grid	MGA94
Height Datum	AHD
Drawn	JD
Designed	JCa
Checked	SS
Approved	PW

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

UTILITIES COORDINATION PLAN SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
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E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1350

Issue: C

F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1350.dwg

CONTINUED ON DAC1101

EXISTING SERVICES COVERS TO BE RESET TO PROPOSED LEVELS AS PER SERVICE PROVIDER'S SPECIFICATIONS AND REQUIREMENTS TYP.

ALLOWANCE TO BE MADE FOR NEW ELECTRICAL CONDUIT TO REPLACE OVERHEAD LINES. DETAIL DESIGN TO BE CARRIED OUT BY ELECTRICAL CONTRACTOR

SEWER RELOCATION AND DIVERSION TO BE DESIGNED WATER SERVICES COORDINATOR

EXISTING COMMS PITS TO BE RELOCATED AS PER SERVICE PROVIDER'S SPECIFICATIONS AND REQUIREMENTS

EXISTING SERVICES COVERS TO BE RESET TO PROPOSED LEVELS AS PER SERVICE PROVIDER'S SPECIFICATIONS AND REQUIREMENTS TYP.

CONTRACTOR TO TAKE CARE WHEN WORKING AROUND THE EXISTING HIGH PRESSURE GAS SERVICE

SERVICES LEGEND

	PROPOSED SERVICES	EXISTING SERVICES
ELECTRICITY	E E	e e e
ELECTRICITY OVERHEAD		
TELSTRA CONDUITS	T T	t t t
SEWER SERVICE	S S	s s s
WATER SERVICE	W W	w w w
GAS SERVICE	G G	g g g
HIGH PRESSURE GAS SERVICE	HG HG	hg hg
STORMWATER	SW SW	sw sw
STORMWATER (TBC)		sw sw
SEWER MANHOLE		
LIGHT POLE		ELP
POWER POLE		PP
TELSTRA PIT		
EXISTING SERVICES TO BE REMOVED		
FUTURE KERB BY COUNCIL		
STORMWATER DRAINAGE BY COUNCIL		

Issue	Description	Date
E	BASEMENT 3 ARCHITECTURAL UPDATED	07-06-23
D	OSD TANK AND DRAINAGE UPDATED	28-04-23
C	ISSUED FOR DA APPROVAL	17-04-23
C	ISSUED FOR DA APPROVAL	24-02-23
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 250
Grid	MGA94
Height Datum	AHD
Drawn	JD
Designed	JCa
Checked	SS
Approved	PW

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

UTILITIES COORDINATION PLAN SHEET 2

Civil Engineers and Project Managers

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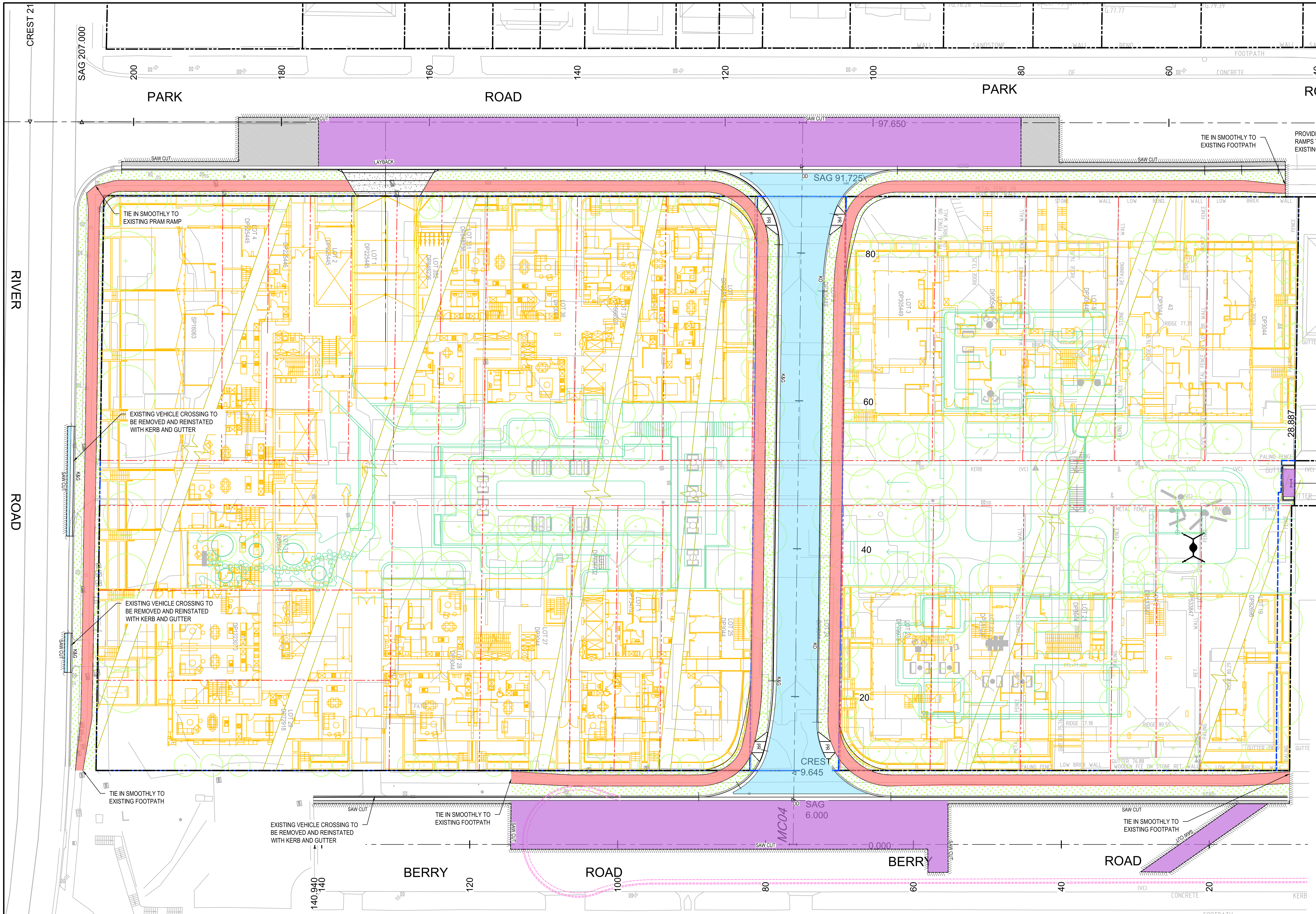
Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION) — A1

Project - Drawing No.: 22-1013-DAC1351 — Issue: E

100mm on Original

F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1351.dwg



PAVEMENT LEGEND

PAVEMENT TYPE 1
NEW FULL DEPTH ASPHALTIC PAVEMENT (5.0x106 ESA's), SUBGRADE CBR = 6%
- 50mm ASPHALTIC CONCRETE (AC14, C450) ON
- 75mm ASPHALTIC CONCRETE (AC20, C450) ON
- 75mm ASPHALTIC CONCRETE (AC20, C450) ON
- 7mm PRIME SEAL ON
- 150mm BASECOURSE (DGB20) ON COMPACTED SUBGRADE

PAVEMENT TYPE 2A
MILL EXISTING ASPHALT AND RE-SHEET WITH 50MM ASPHALTIC CONRETE (AC14, C450) ON TACK COAT ON EXISTING PROFILED PAVEMENT.
WHERE THE PAVEMENT BUILD UP IS OVER 50MM, PAVEMENT DETAILS SUBJECT TO GEOTECHNICAL INVESTIGATION AND/OR AS APPROVED BY THE COUNCIL

PAVEMENT TYPE 2B
MILL EXISTING ASPHALT AND RE-SHEET WITH 50MM ASPHALTIC CONRETE (AC14, C450) ON TACK COAT ON EXISTING PROFILED PAVEMENT.

PAVEMENT TYPE 3
REINFORCED CONCRETE VEHICULAR CROSSING IN ACCORDANCE WITH LANE COVE COUNCIL STANDARD DETAILS

PAVEMENT TYPE 4
CONCRETE FOOTPATH IN ACCORDANCE WITH LANE COVE COUNCIL STANDARD DETAILS

LANDSCAPE AREA
TO LANDSCAPE ARCHITECT PLAN

Issue	Description	Date
D	BASEMENT 3 ARCHITECTURAL UPDATED	07-06-23
C	ISSUED FOR DA APPROVAL	24-02-23
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

Client
BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 250	Drawn	JD
		Designed	JCa
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	PW

Project
26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title
PAVEMENT PLAN

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Status
FOR APPROVAL
(NOT TO BE USED FOR CONSTRUCTION)
A1

Project - Drawing No. 22-1013-DAC1401
Issue D

100mm on Original

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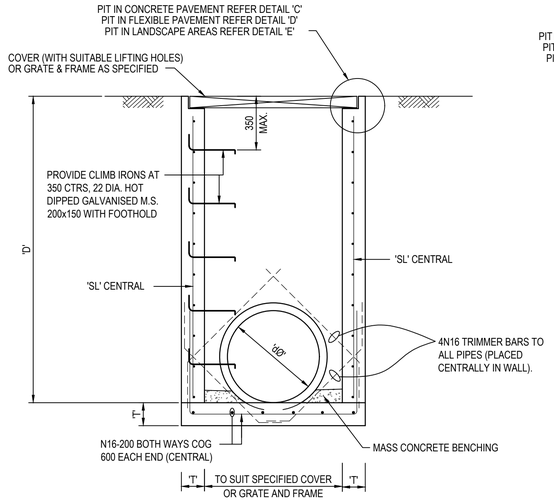
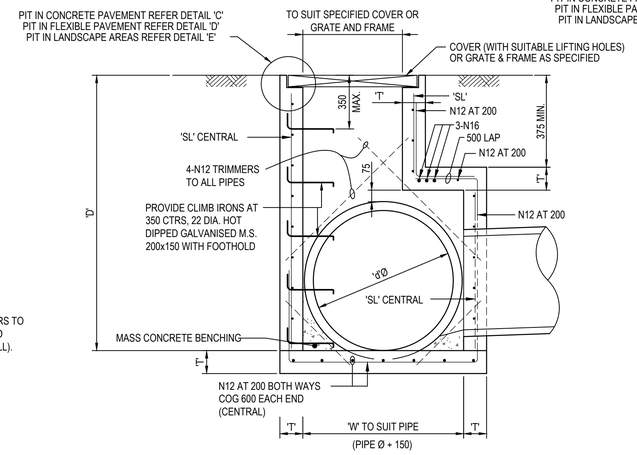


PIT TYPE 'A' DETAIL
SURFACE INLET PIT
FOR PIPES UP TO 525Ø

SCALE: 1:20

PIPE DIA. 'øØ'	WIDTH 'W'	DEPTH 'D'	WALL 'T'	FABRIC/COV 'SL'
375	900	800	150	SL72
	900	1200	150	SL72
	900	1600	150	SL72
	900	2000	150	SL72
	900	2400	150	SL72
450	900	800	150	SL72
	900	1200	150	SL72
	900	1600	150	SL72
	900	2000	150	SL72
	900	2400	150	SL72
525	900	800	150	SL72
	900	1200	150	SL72
	900	1600	150	SL72
	900	2000	150	SL72
	900	2400	150	SL72

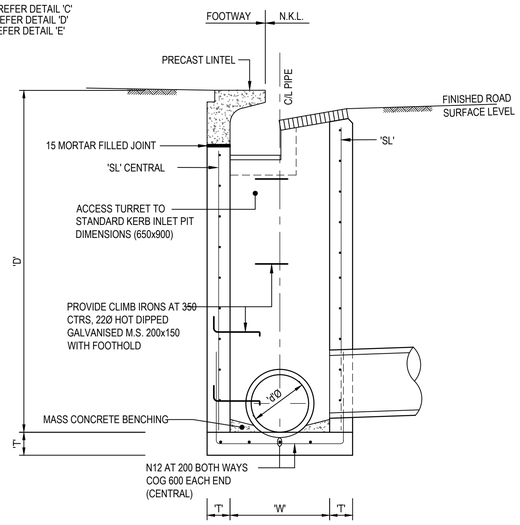


PIT TYPE 'B' DETAIL
SURFACE INLET PIT
FOR PIPES FROM 600Ø TO 1200Ø

(ENLARGED CHAMBER)

SCALE: 1:20

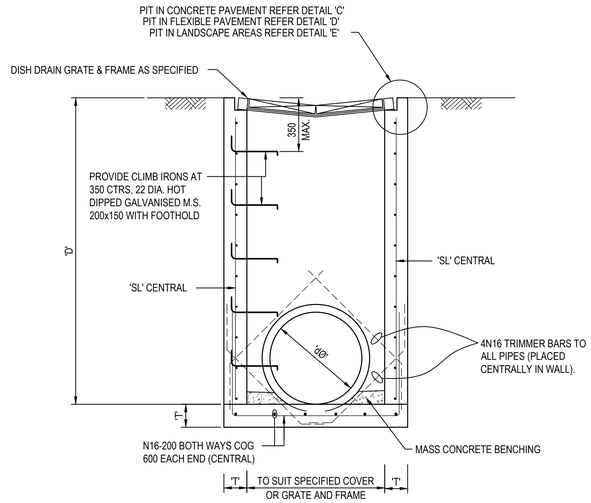
PIPE DIA. 'øØ'	WIDTH 'W'	DEPTH 'D'	WALL 'T'	FABRIC/COV 'SL'
600	900	1200	150	SL72
	900	1600	150	SL72
	900	2000	150	SL72
	900	2400	150	SL72
675	940	1200	150	SL72
	940	1600	150	SL72
	940	2000	150	SL72
	940	2400	150	SL72
750	1020	1200	150	SL72
	1020	1600	150	SL72
	1020	2000	150	SL72
	1020	2400	150	SL72
825	1100	1600	150	SL72
	1100	2000	150	SL72
	1100	2400	150	SL72
900	1180	1600	150	SL72
	1180	2000	150	SL72
	1180	2400	150	SL72
1050	1345	1600	150	SL92
	1345	2000	150	SL92
	1345	2400	150	SL92
1200	1510	2000	150	SL102
	1510	2400	150	SL102
	1510	2800	150	SL102



PIT TYPE 'C' DETAIL
STANDARD GRATED KERB INLET PIT
FOR PIPES UPTO 525Ø

SCALE: 1:20

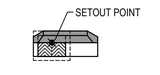
PIPE DIA. 'øØ'	WIDTH 'W'	DEPTH 'D'	WALL 'T'	FABRIC/COV 'SL'
375	900	800	150	SL72
	900	1200	150	SL72
	900	1600	150	SL72
	900	2000	150	SL72
	900	2400	150	SL72
450	900	800	150	SL72
	900	1200	150	SL72
	900	1600	150	SL72
	900	2000	150	SL72
	900	2400	150	SL72
525	900	800	150	SL72
	900	1200	150	SL72
	900	1600	150	SL72
	900	2000	150	SL72
	900	2400	150	SL72



PIT TYPE 'D' DETAIL
SURFACE INLET PIT
FOR PIPES UP TO 525Ø

SCALE: 1:20

PIPE DIA. 'øØ'	WIDTH 'W'	DEPTH 'D'	WALL 'T'	FABRIC/COV 'SL'
375	900	800	150	SL72
	900	1200	150	SL72
	900	1600	150	SL72
	900	2000	150	SL72
	900	2400	150	SL72
450	900	800	150	SL72
	900	1200	150	SL72
	900	1600	150	SL72
	900	2000	150	SL72
	900	2400	150	SL72
525	900	800	150	SL72
	900	1200	150	SL72
	900	1600	150	SL72
	900	2000	150	SL72
	900	2400	150	SL72

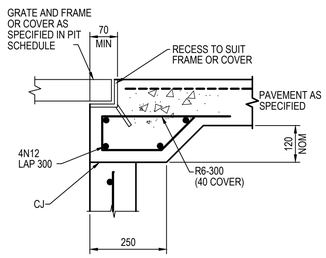


KERB INLET PIT
SCALE 1:100

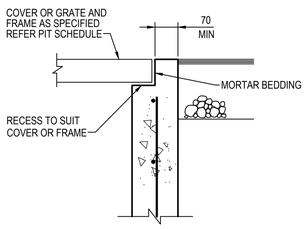
SURFACE INLET PIT
SCALE 1:100

JUNCTION PIT
SCALE 1:100

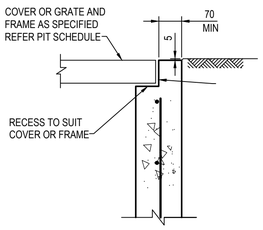
STORMWATER PIT
SETOUT POINTS



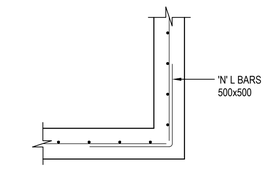
DETAIL "C"
SCALE 1:10



DETAIL "D"
SCALE 1:10



DETAIL "E"
SCALE 1:10



TYPICAL CORNER DETAIL
SCALE 1:20

NOTE

1. FOR PIT SIZE REFER TO TABLE (900 MIN LONG).
2. REINFORCING MESH IS TO BE BENT TO LAP 300 AROUND ALL CORNERS. VERTICAL BARS ARE NOT TO BE CUT. ALTERNATELY PROVIDE N12 "L" BARS (500x500) AT 400 VERTICAL CTS.
3. COMPRESSIVE STRENGTH (F'c) FOR CAST IN SITU CONCRETE SHALL BE A MINIMUM 32 MPa AT 28 DAYS.
4. TOP OF BENCHING SHALL BE ½ OF OUTLET PIPE DIAMETER.
5. 100mm SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDE ADJACENT TO INLET PIPES.
6. ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP.
7. PIT GRATE TO BE 'WELDLOK' GULLY GRATE GG 78-50 OR APPROVED EQUIVALENT.
8. DURING INSTALLATION OF GRATE AND FRAME CONTRACTOR IS TO ENSURE CLEARANCE BETWEEN LINTEL AND OPENED GRATE (REFER TO INSTALLATION TOLERANCE).
9. PROVIDE STEP IRONS AS INDICATED FOR PITS DEEPER THAN 1200.
10. N12 AT 200 CENTRAL MAY BE USED IN LIEU OF MESH. LAP 500 AT CORNERS
11. CONCRETE STRENGTH - UNLESS NOTED OTHERWISE

ELEMENT	f'c MPa (28 DAYS)	SLUMP	MAX AGG SIZE	CEMENT TYPE
PITS	32	80mm	20mm	GP

12. COVER - UNLESS NOTED OTHERWISE

ELEMENT	INTERIOR	EXTERIOR
PITS		45mm
SLAB TOP	45mm	45mm
SLAB BOTTOM	45mm	45mm
BEAM TOP		
BEAM BOTTOM		
BEAM SIDE		
COLUMNS		

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 100 200 400 600 800 1000mm

1 : 10 @ A1 1 : 20 @ A3

0 500 1000 1500 2000mm

1 : 20 @ A1 1 : 40 @ A3

Client: BERRY ROAD DEVELOPMENT PTY LTD.

Scales: AS SHOWN
Grid: MGA94
Height Datum: AHD

Drawn: JD
Designed: JD
Checked: SS
Approved:

Project: 26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title: TYPICAL STORMWATER DETAILS

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Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)
A1

Project - Drawing No.: 22-1013-DAC1510
Issue: B

100mm on Original

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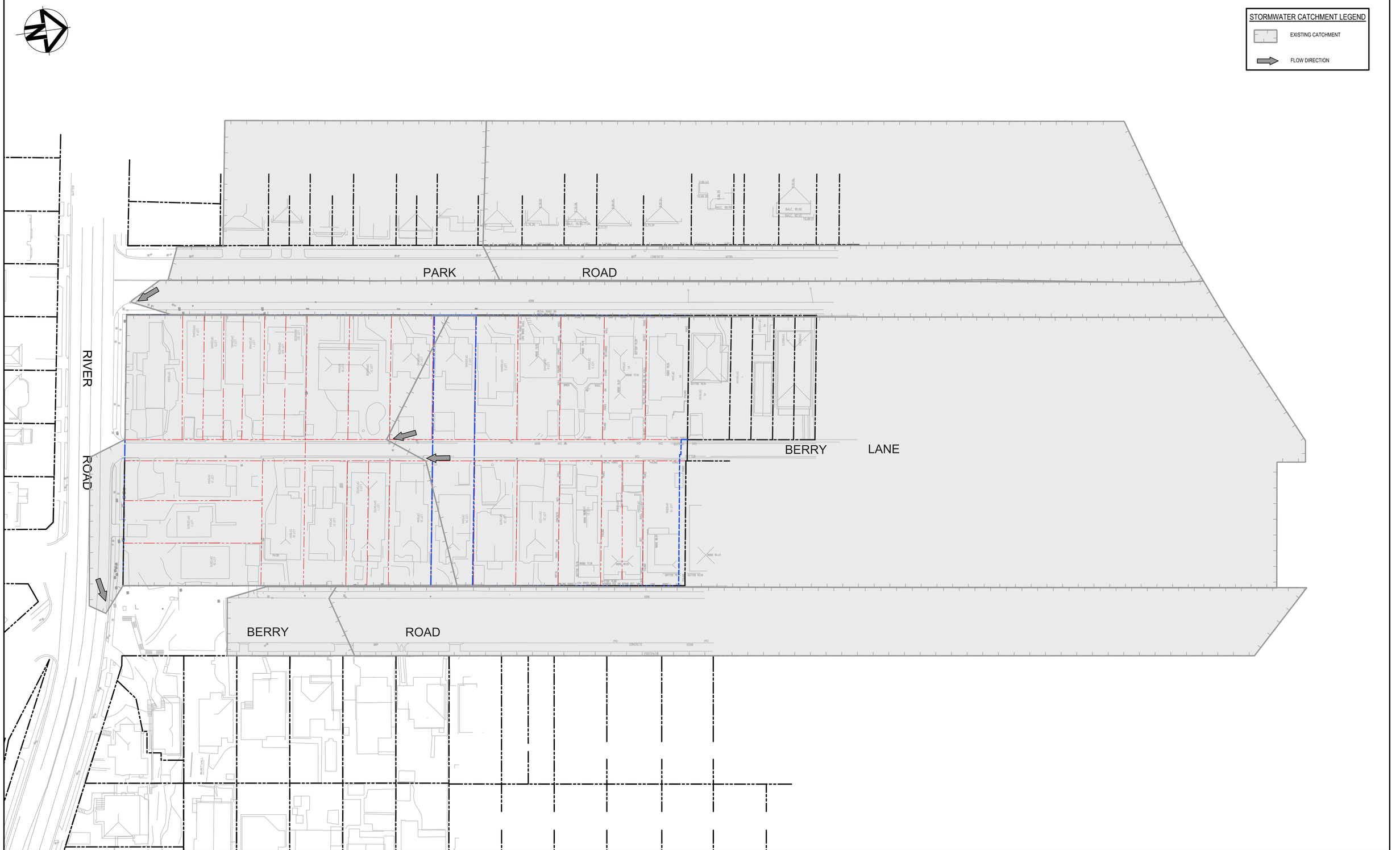

Issue	Description	Date
C	ISSUED FOR DA APPROVAL	24-02-23
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 500
Grid	MGA94
Height Datum	AHD
Drawn	JD
Designed	JCa
Checked	SS
Approved	PW

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

EXISTING CATCHMENT PLAN

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ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1520

Issue: C

100mm on Original

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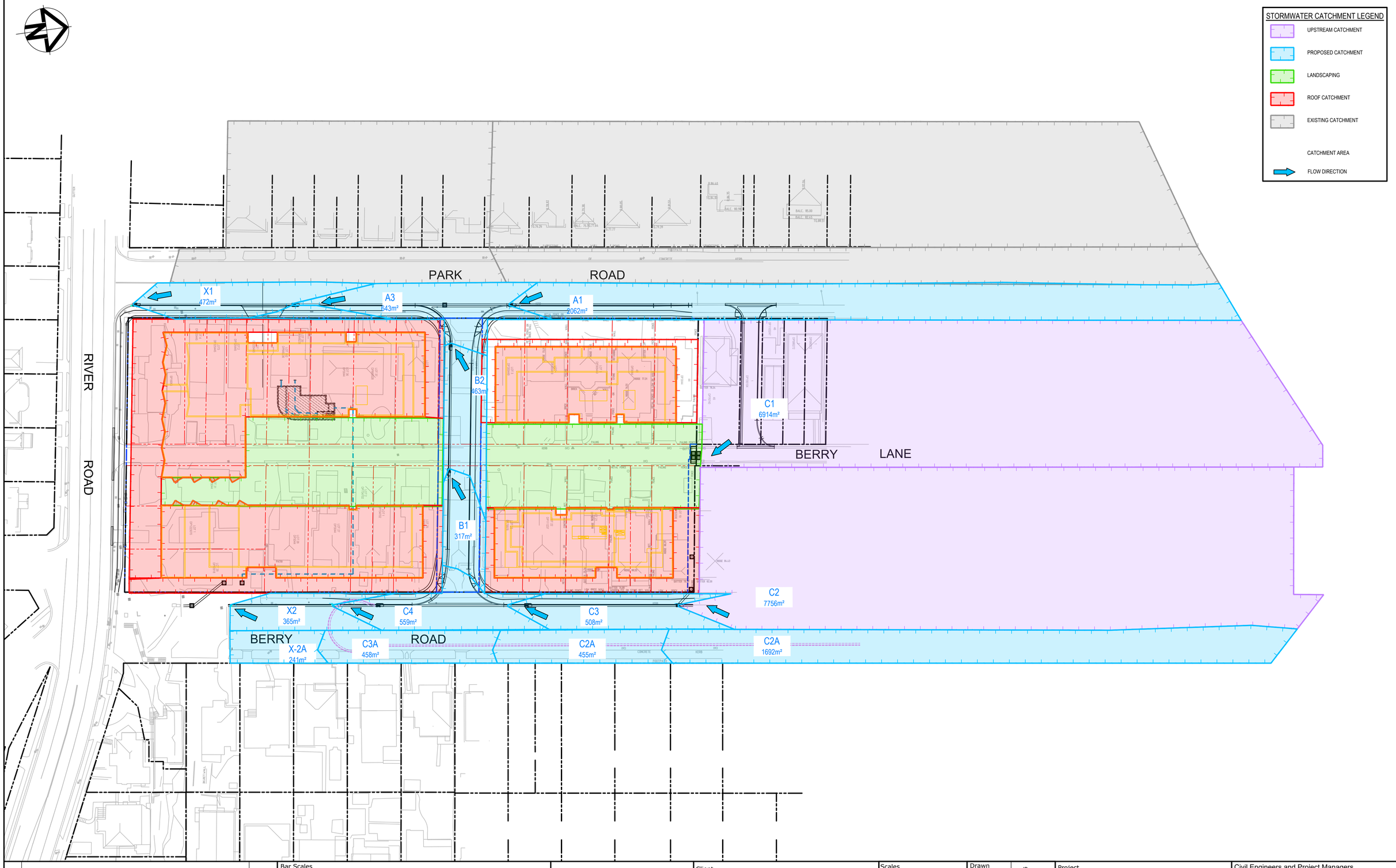

Issue	Description	Date
C	ISSUED FOR DA APPROVAL	24-02-23
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 500	Drawn	JD
		Designed	JCa
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	PW

Project

26-50 PARK RD, 27-47 BERRY RD,
48-54 RIVER RD,
NSW 2065 (AREA 22 & 23)

Title

PROPOSED CATCHMENT PLAN

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Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1521

Issue: C

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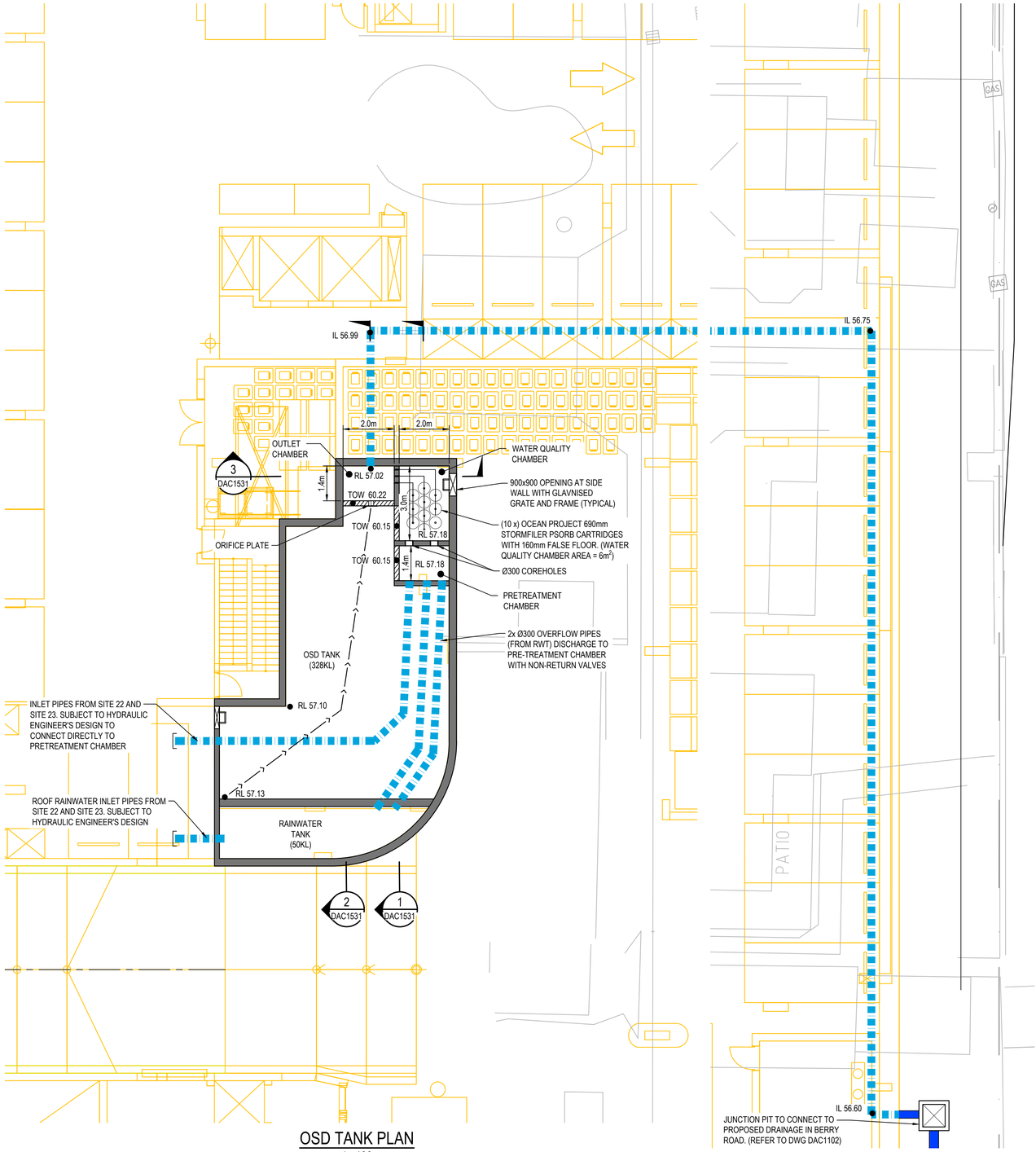


OSD TANK PLAN
1 : 100

OSD TANKS - CALCULATIONS

SITE AREA = 1.164 ha
PSD: 140L/s/ha x 1.164 ha = 162.4 l/s (Q_{100})
SSR: 0.025m³/m² x 11640 m² = 291.0m³

$DISCHARGE_{TANK} = Q_{TOTAL\ PSD} - Q_{CARTRIDGES}$ = 162.4 l/s - 9.0 l/s = 153.4 l/s

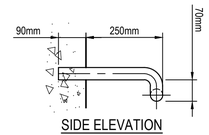
ORIFICE = Ø250mm (HEAD HEIGHT = 2.0m)

NOTE : ON SITE DETENTION DESIGNED TO SUIT PSD AND VOLUME REQUIREMENTS ADOPTED FROM LANE COVE COUNCILS REQUIREMENTS. REFER CIVIL REPORT FOR DETAILS.
ORIFICE EQUATION: $Q=CA(2gh)^{0.5}$

PRE-TREATMENT CHAMBER $Q_{3\text{-}MTH}$ FLOW

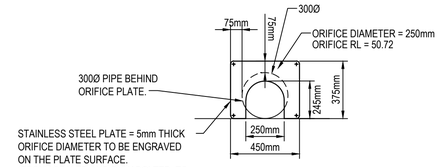
Q = C x I x A x (1/360)
= (1.0) x (96.8 x 0.5) x 1.164 x (1/360)
= 0.156 m^3/s
= 156 L/s

ORIFICE EQUATION: $Q=CA(2gh)^{0.5}$
$0.156 = 0.61 \times A \times (2 \times 9.8 \times 1.2)^{0.5}$
$A = 0.0472m^2$
Ø = 245mm
300Ø PENETRATION IS SUFFICIENT

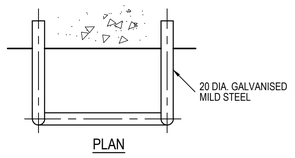


SIDE ELEVATION

FRONT ELEVATION

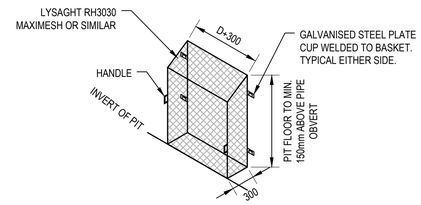


OSD ORIFICE PLATE DETAIL
1 : 20



PLAN

STEP IRON DETAIL
NTS



SCREEN MESH DETAILS
NOT TO SCALE

Issue	Description	Date
E	BASEMENT 3 ARCHITECTURAL UPDATED	07-06-23
D	ISSUED FOR DA APPROVAL	28-04-23
C	ISSUED FOR DA APPROVAL	17-04-23
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales
0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

Client
BERRY ROAD DEVELOPMENT PTY LTD.

Scales	AS SHOWN	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project
26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title
PROPOSED OSD/RAINWATER TANK PLAN AND DETAILS

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Status
FOR APPROVAL
(NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.
22-1013-DAC1530

Issue
E

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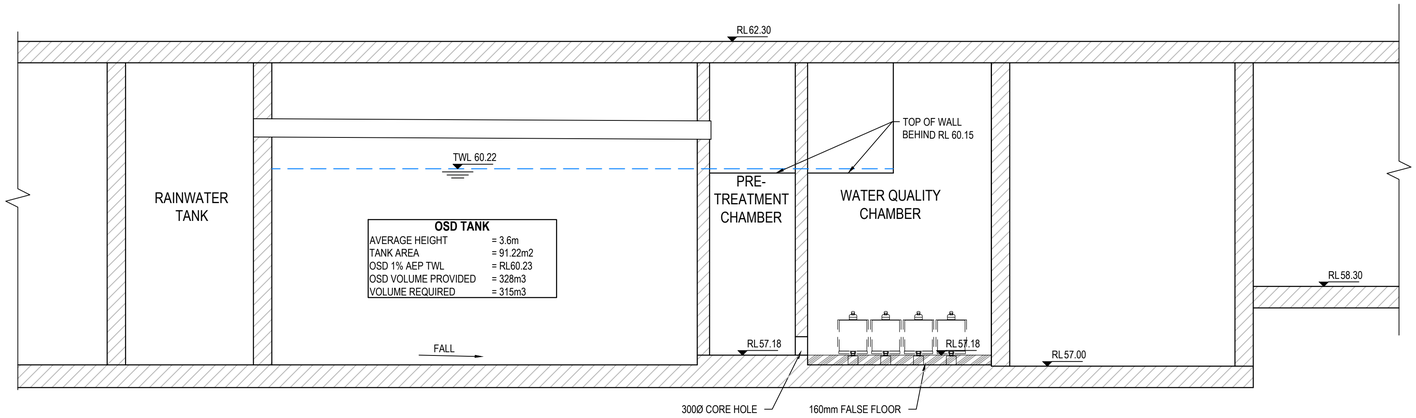
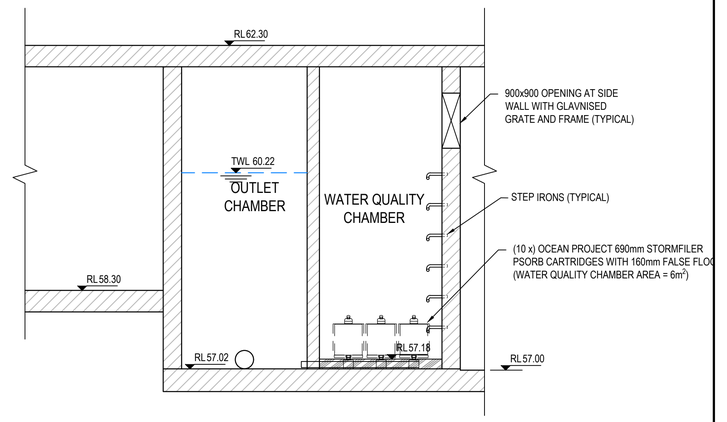
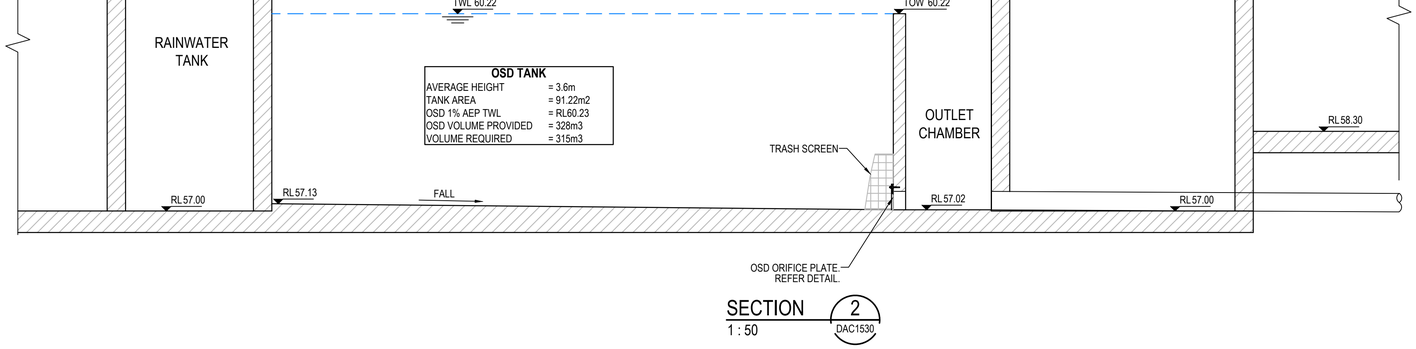


SECTION 1 (DAC1530)
1 : 50



SECTION 3 (DAC1530)
1 : 50



SECTION 2 (DAC1530)
1 : 50

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	28-04-23
A	ISSUED FOR DA APPROVAL	17-04-23

Bar Scales

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

100mm on Original

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	AS SHOWN	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

PROPOSED OSD/RAINWATER TANK SECTIONS

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ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1531

Issue: B

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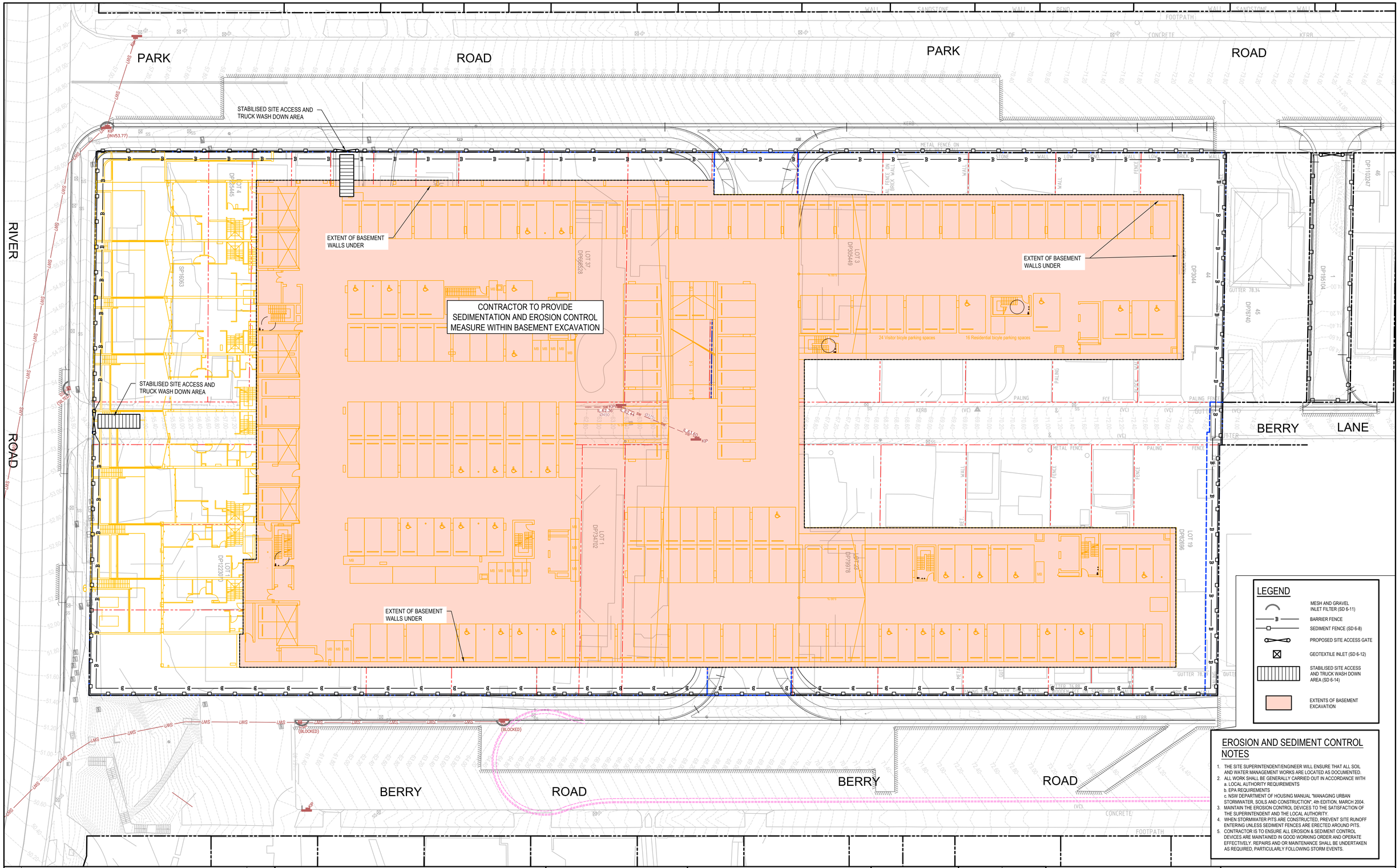

LEGEND

- MESH AND GRAVEL INLET FILTER (SD 6-11)
- BARRIER FENCE
- SEDIMENT FENCE (SD 6-8)
- PROPOSED SITE ACCESS GATE
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- EXTENTS OF BASEMENT EXCAVATION

EROSION AND SEDIMENT CONTROL NOTES

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. 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.

Issue	Description	Date
C	ISSUED FOR DA APPROVAL	17-04-23
C	SITE ACCES LOCATIONS UPDATED	13-02-23
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1 : 250
Grid	MGA94
Height Datum	AHD
Drawn	JD
Designed	JD
Checked	SS
Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

EROSION AND SEDIMENT CONTROL PLAN

Civil Engineers and Project Managers

at&l

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Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

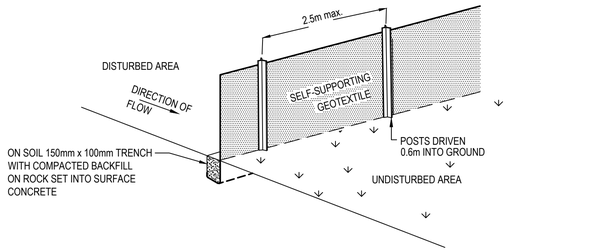
A1

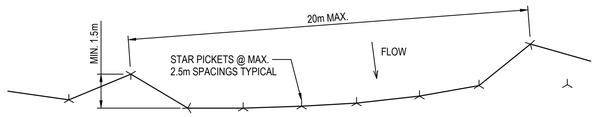
Project - Drawing No.: 22-1013-DAC1601

Issue: C

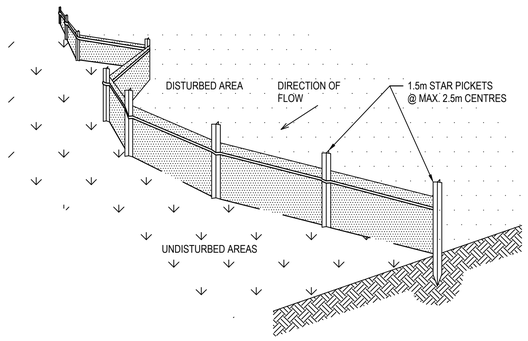
100mm on Original

F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1601.dwg

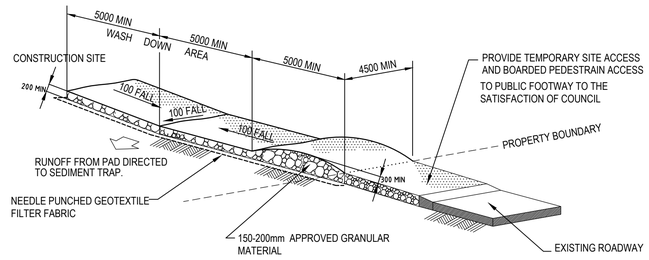




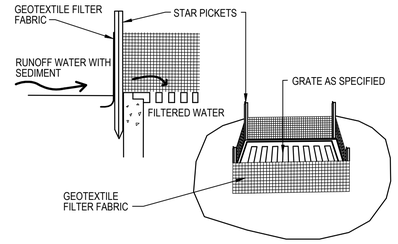
PLAN



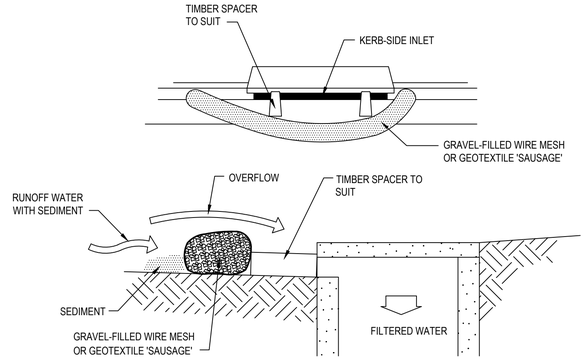
SEDIMENT FENCE (SD 6-8)
NTS



STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA
NTS



GEOTEXTILE FILTER PIT SURROUND (SD 6-12)
NTS



MESH AND GRAVEL INLET FILTER (SD 6-11)
NTS

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

Client: BERRY ROAD DEVELOPMENT PTY LTD.

Scales: NTS
Grid: MGA94
Height Datum: AHD

Drawn	JD
Designed	JD
Checked	SS
Approved	

Project: 26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title: EROSION AND SEDIMENT CONTROL DETAILS

Civil Engineers and Project Managers
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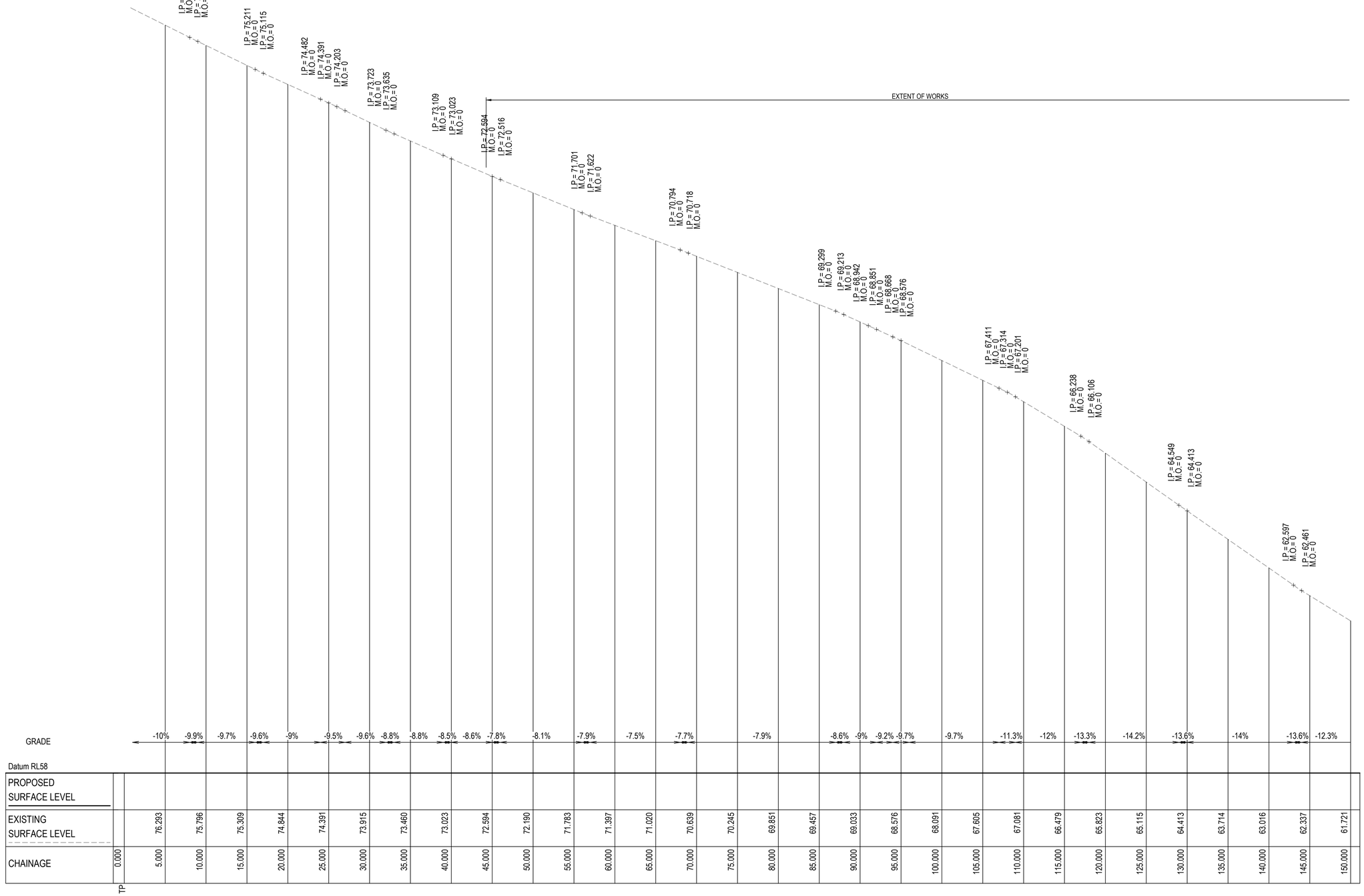
Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1602

Issue: B

F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1602.dwg



MC01 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

Client
BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:250 H 1:50 V	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project
26-50 PARK RD, 27-47 BERRY RD,
48-54 RIVER RD,
NSW 2065 (AREA 22 & 23)

Title
MC01 ROAD LONG SECTIONS
SHEET 1

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Status
FOR APPROVAL
(NOT TO BE USED FOR CONSTRUCTION)

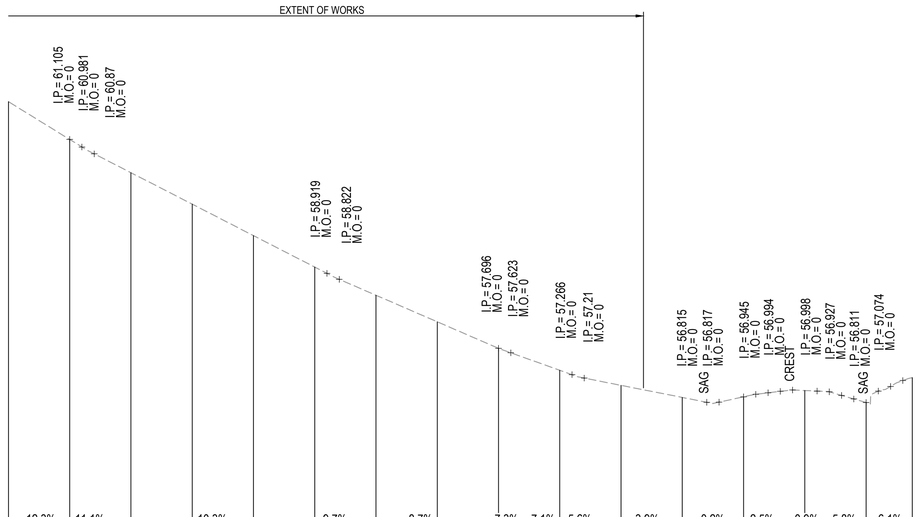
A1

Project - Drawing No.
22-1013-DAC1701

Issue
B

100mm on Original

F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1701.dwg



GRADE		-12.3%	-11.1%		-10.3%		-9.7%	-8.7%		-7.3%	-7.1%	-5.6%	-3.9%	0.2%	2.5%	-0.9%	-5.8%	6.1%	
Datum RL54																			
PROPOSED SURFACE LEVEL																			
EXISTING SURFACE LEVEL	61.721	61.105	60.562	60.049	59.535	59.022	58.562	58.129	57.696	57.338	57.092	56.894	56.904	57.007	56.811	57.217			
CHAINAGE	150.000	155.000	160.000	165.000	170.000	175.000	180.000	185.000	190.000	195.000	200.000	205.000	210.000	215.000	220.000	223.772			

MC01 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

Client
BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:250 H 1:50 V	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project
26-50 PARK RD, 27-47 BERRY RD,
48-54 RIVER RD,
NSW 2065 (AREA 22 & 23)

Title
MC01 ROAD LONG SECTIONS
SHEET 2

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ABN 96 130 882 405

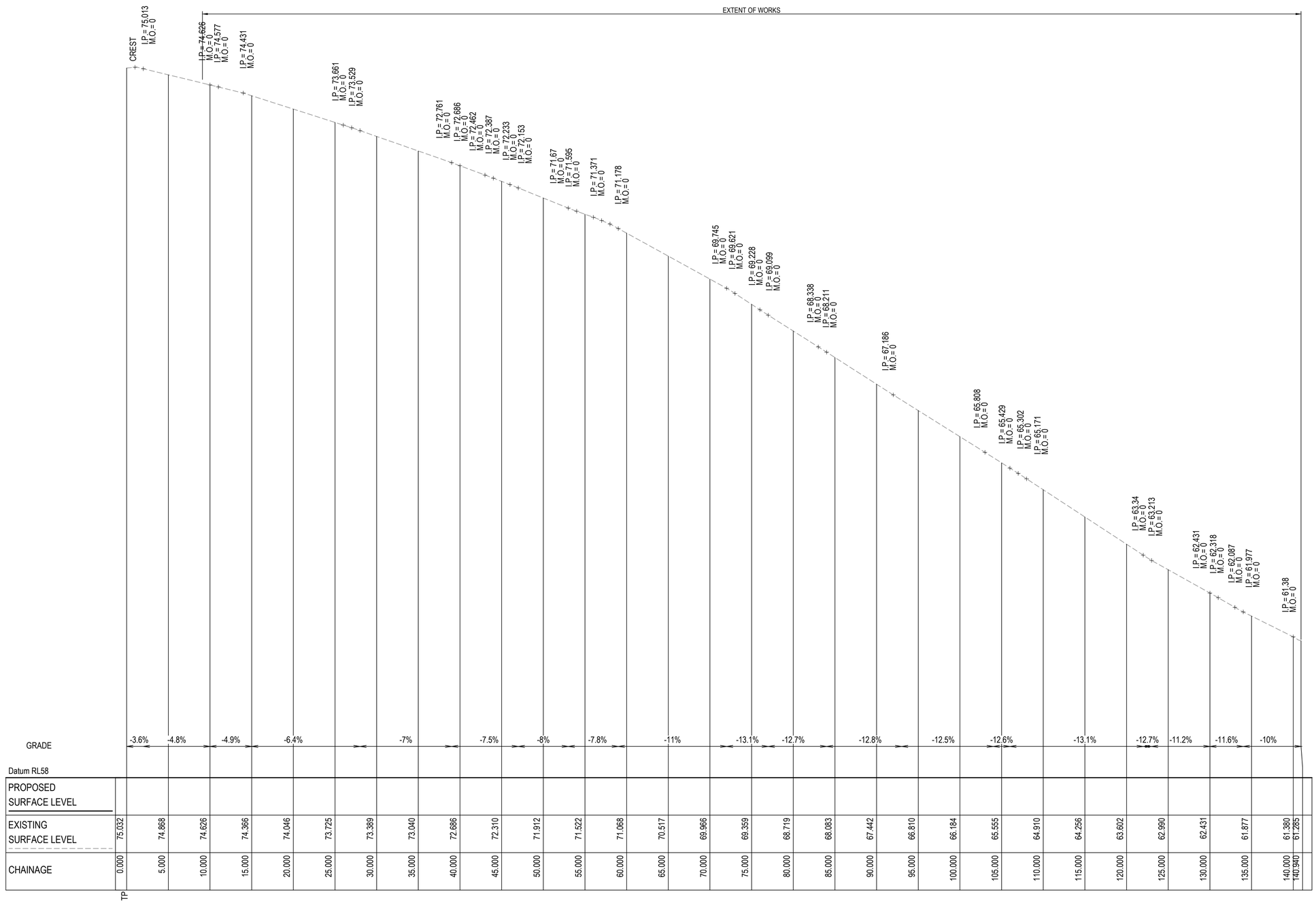
Status
FOR APPROVAL
(NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.
22-1013-DAC1702

Issue
B

F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1702.dwg



MC03 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

Client
BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:250 H 1:50 V	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project
26-50 PARK RD, 27-47 BERRY RD,
48-54 RIVER RD,
NSW 2065 (AREA 22 & 23)

Title
MC03 ROAD LONG SECTIONS
SHEET 1

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ABN 96 130 882 405

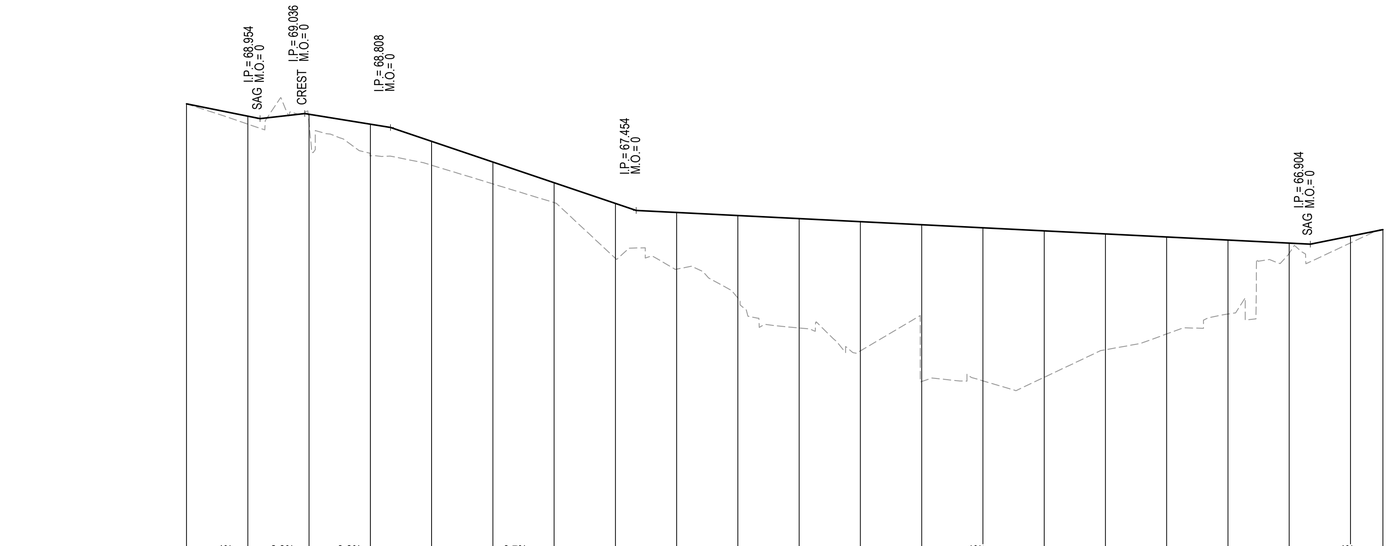
Status
FOR APPROVAL
(NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.
22-1013-DAC1703

Issue
B

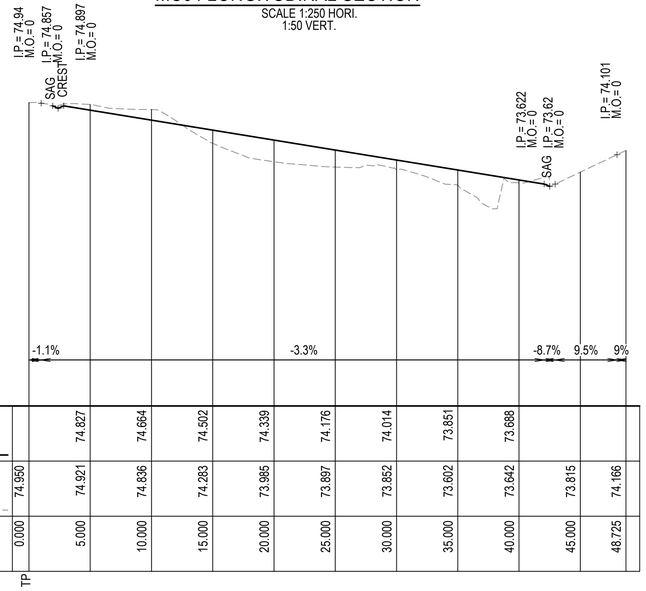
F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1703.dwg



	TP																					
PROPOSED SURFACE LEVEL	69.194	68.994	69.024	68.862	68.582	68.244	67.907	67.569	67.421	67.371	67.321	67.271	67.221	67.171	67.121	67.071	67.021	66.971	66.921	67.035	67.141	
EXISTING SURFACE LEVEL	69.193	68.863	68.872	68.344	68.193	67.887	67.582	66.673	66.495	66.025	65.536	65.162	64.662	64.673	64.731	65.180	65.439	65.764	66.757	66.924	67.141	
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	97.650	

MC04 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.



	TP										
PROPOSED SURFACE LEVEL		74.827	74.664	74.502	74.339	74.176	74.014	73.851	73.688		
EXISTING SURFACE LEVEL	74.950	74.921	74.836	74.283	73.985	73.897	73.852	73.602	73.642	73.815	74.166
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	48.725

MC05 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

Client
BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:250 H 1:50 V	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project
26-50 PARK RD, 27-47 BERRY RD,
48-54 RIVER RD,
NSW 2065 (AREA 22 & 23)

Title
MC04 AND MC05
ROAD LONG SECTIONS
SHEET 1

Civil Engineers and Project Managers
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Level 7, 153 Walker Street
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ABN 96 130 882 405

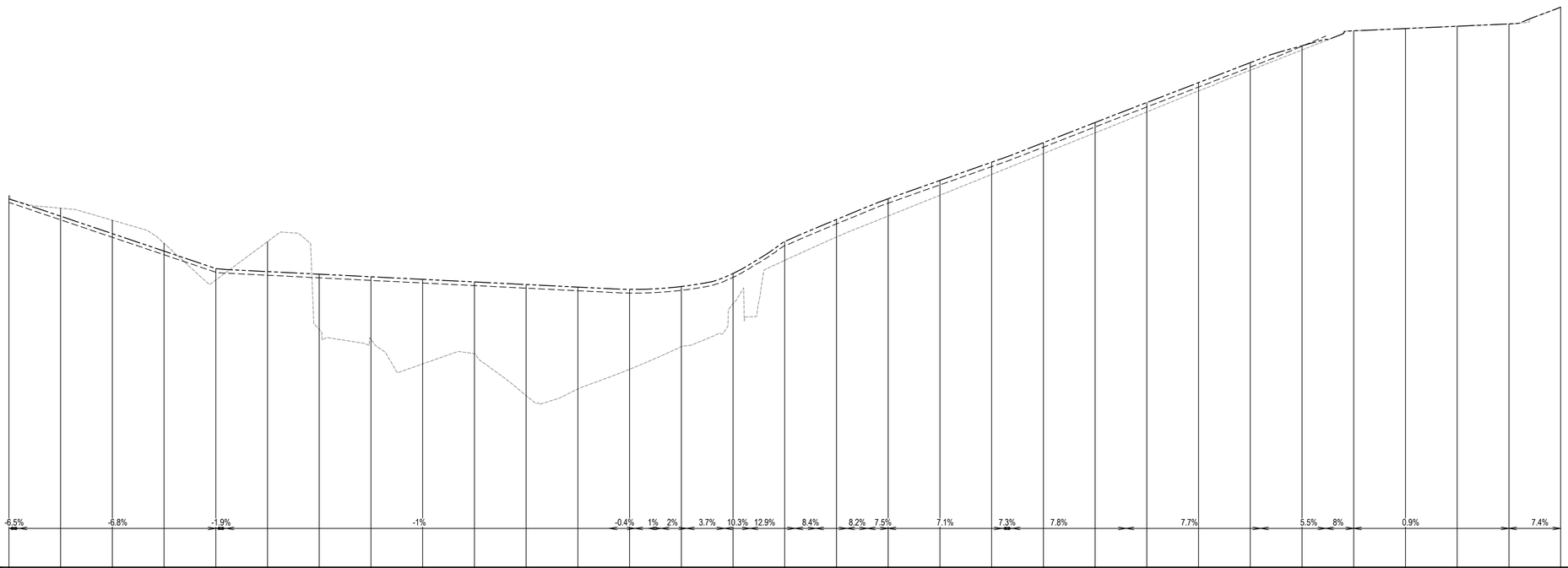
Status
FOR APPROVAL
(NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.
22-1013-DAC1704

Issue
B

F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1704.dwg



Datum RL62

PROPOSED BOUNDARY LEVEL	69.122	68.788	68.450	68.113	67.775	67.716	67.666	67.616	67.566	67.516	67.466	67.416	67.373	67.428	67.679	68.298	68.724	69.126	69.479	69.832	70.209	70.599	70.986	71.371	71.796	72.083	72.373	72.416	72.461	72.505	72.829
PROPOSED TOP OF KERB	69.051	68.717	68.380	68.042	67.705	67.646	67.596	67.546	67.496	67.446	67.396	67.346	67.301	67.355	67.607	68.213	68.639	69.040	69.393	69.746	70.123	70.513	70.900	71.285	71.670	72.075					
EXISTING SURFACE LEVEL	69.163	68.942	68.710	68.264	67.553	66.296	66.598	66.405	65.932	66.130	65.319	65.447	65.827	66.265	67.095	67.933	68.385	68.792	69.193	69.595	69.998	70.399	70.803	71.210	71.609	72.003	72.373	72.416	72.461	72.505	72.829
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	105.000	110.000	115.000	120.000	125.000	130.000	135.000	140.000	145.000	150.000

AREA 22 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

Client
BERRY ROAD DEVELOPMENT PTY LTD.

Scales 1:250 H, 1:50 V
Grid MGA94
Height Datum AHD

Drawn	JD
Designed	JD
Checked	SS
Approved	

Project
26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title
AREA 22 BOUNDARY LONG SECTION SHEET 1

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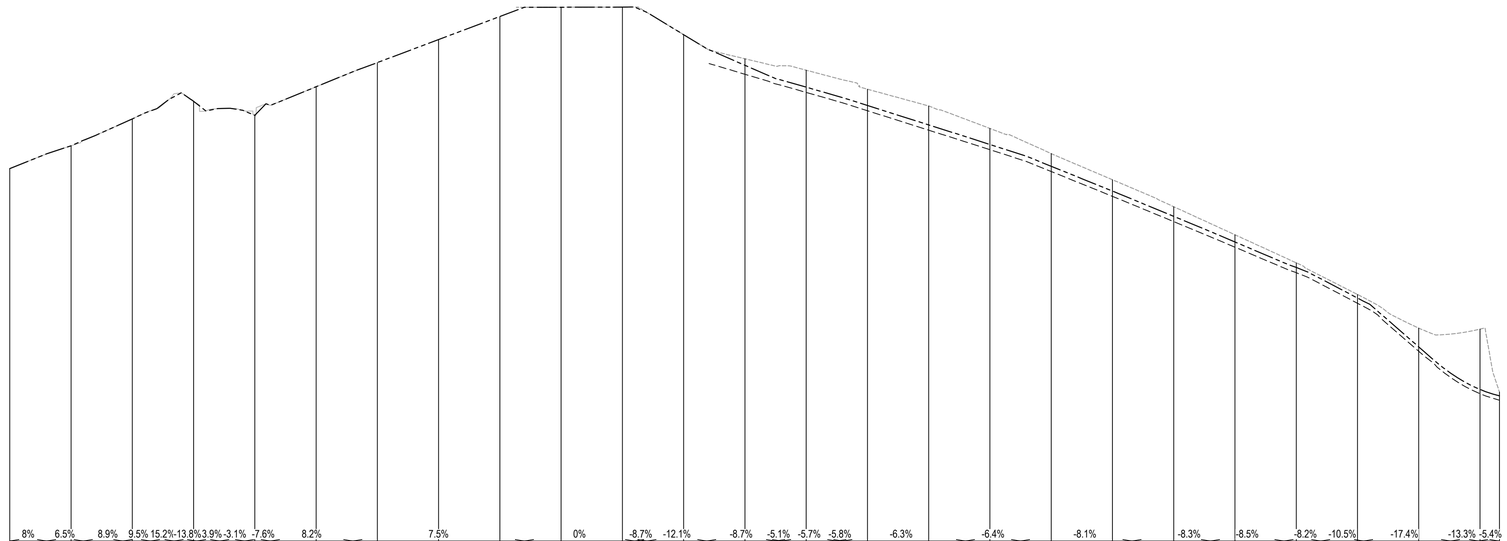
ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)
A1
Project - Drawing No.: 22-1013-DAC1710
Issue: B

F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1710.dwg



Datum RL66

PROPOSED BOUNDARY LEVEL	72.829	73.202	73.640	73.928	73.699	74.165	74.560	74.936	75.312	75.463	75.465	75.015	74.516	74.159	73.860	73.542	73.223	72.867	72.462	72.050	71.632	71.216	70.717	69.920	69.226	69.122
PROPOSED TOP OF KERB													74.370	74.073	73.774	73.457	73.138	72.782	72.377	71.964	71.546	71.131	70.632	69.857	69.158	69.052
EXISTING SURFACE LEVEL	72.829	73.202	73.640	73.928	73.699	74.165				75.463	75.465	75.015	74.622	74.436	74.125	73.852	73.465	73.075	72.648	72.208	71.750	71.292	70.776	70.227	70.210	69.183
CHAINAGE	150.000	155.000	160.000	165.000	170.000	175.000	180.000	185.000	190.000	195.000	200.000	205.000	210.000	215.000	220.000	225.000	230.000	235.000	240.000	245.000	250.000	255.000	260.000	265.000	270.000	271.589

AREA 22 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

Client
BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:250 H 1:50 V	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project
26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title
AREA 22 BOUNDARY LONG SECTION SHEET 2

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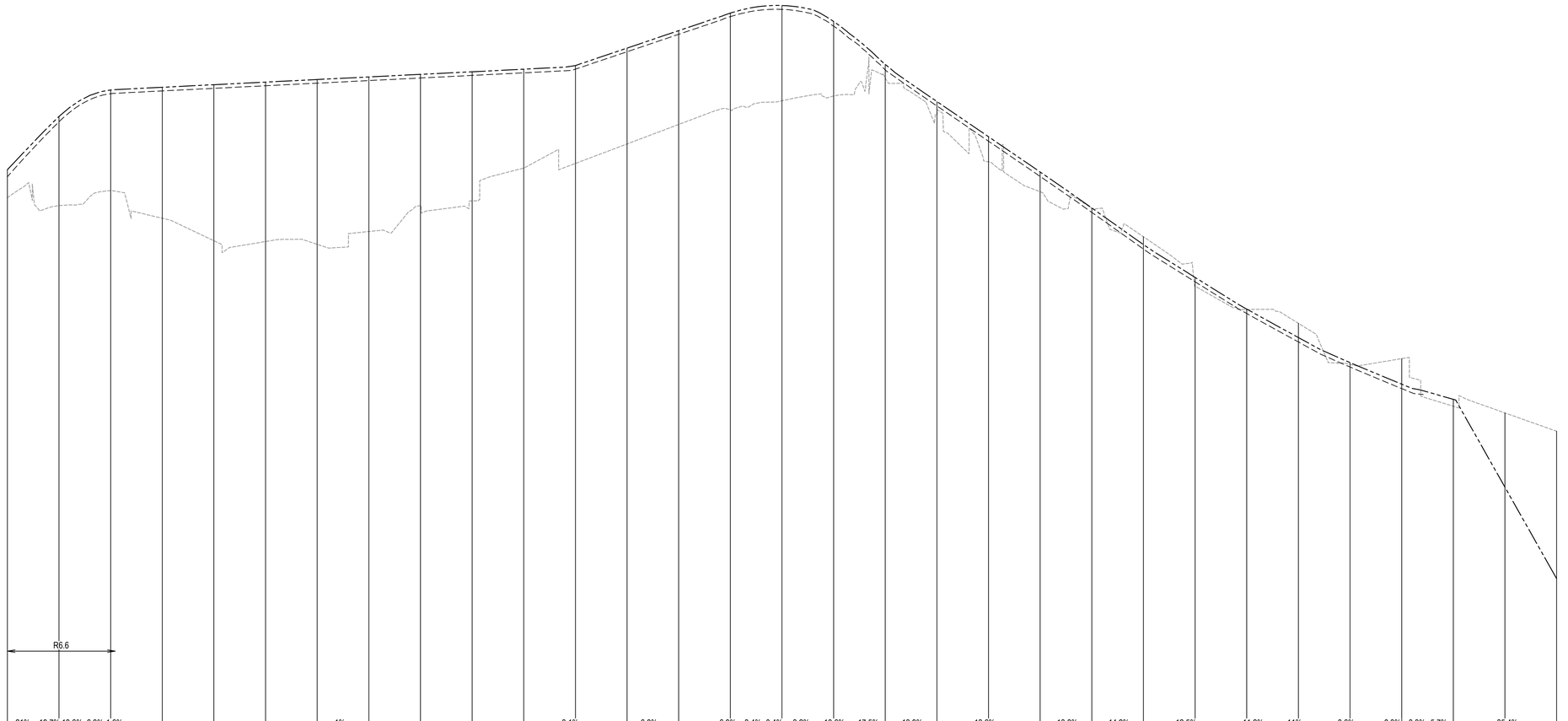
Status
FOR APPROVAL
(NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.
22-1013-DAC1711

Issue
B

F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1711.dwg



HORIZONTAL R6.6

VC LENGTH

GRADE 21% 19.7% 13.6% 6.9% 1.6% 1% 3.1% 6.8% 6.9% 3.4% 0.4% -3.2% -13.6% -17.5% -13.9% -13.6% -13.8% -14.2% -12.5% -11.2% -11% -8.6% -8.3% -3.3% -5.7% -35.4%

Datum RL54

PROPOSED BOUNDARY LEVEL	65.567	66.597	67.109	67.162	67.212	67.262	67.312	67.362	67.412	67.462
PROPOSED TOP OF KERB	65.431	66.494	67.037	67.091	67.141	67.191	67.241	67.291	67.341	67.391
EXISTING SURFACE LEVEL	65.026	64.872	65.164	64.627	64.193	64.177	64.122	64.370	64.874	64.962
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000

PROPOSED BOUNDARY LEVEL	67.512	67.583	67.920	68.258	68.597	68.744	68.436	67.606	66.886	66.204
PROPOSED TOP OF KERB	67.441	67.512	67.850	68.187	68.530	68.668	68.346	67.493	66.801	66.119
EXISTING SURFACE LEVEL	65.598	65.688	66.065	66.442	66.724	66.901	66.993	67.343	66.634	65.718
CHAINAGE	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000

PROPOSED BOUNDARY LEVEL	65.522	64.826	64.116	63.482	62.869	62.319	61.834	61.416	61.123	59.422	57.653
PROPOSED TOP OF KERB	65.436	64.740	64.031	63.397	62.784	62.233	61.748	61.331			
EXISTING SURFACE LEVEL	65.139	64.820	64.269	63.303	62.863	62.594	61.799	61.911	60.989	60.860	60.505
CHAINAGE	100.000	105.000	110.000	115.000	120.000	125.000	130.000	135.000	140.000	145.000	150.000

AREA 23 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

100mm on Original

Client
BERRY ROAD
DEVELOPMENT PTY LTD.

Scales	1:250 H 1:50 V	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project
26-50 PARK RD, 27-47 BERRY RD,
48-54 RIVER RD,
NSW 2065 (AREA 22 & 23)

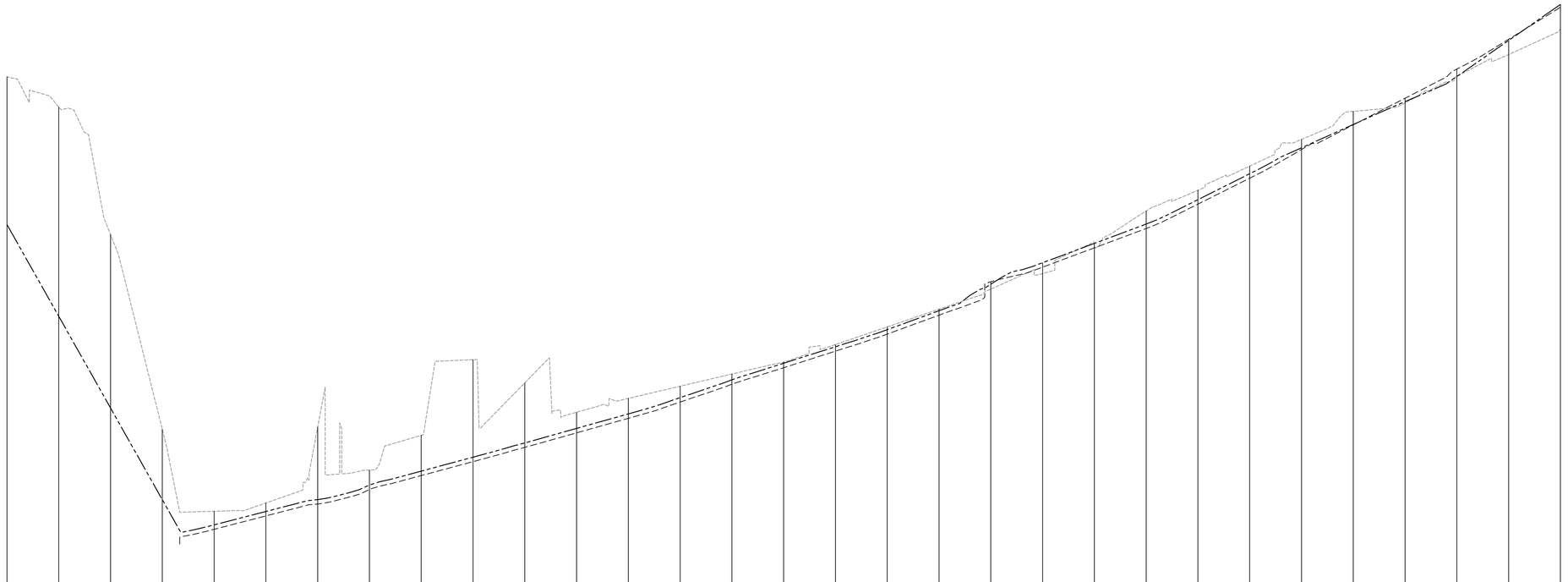
Title
AREA 23 BOUNDARY
LONG SECTION
SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

Status
FOR APPROVAL
(NOT TO BE USED FOR CONSTRUCTION)
A1

Project - Drawing No.
22-1013-DAC1712

Issue
B



HORIZONTAL

VC LENGTH

GRADE: -35.4% · 4.6% · 5.2% · 5.3% 2.2% · 5.1% · 9% · 4.5% · 5.4% · 5.9% · 5.6% · 7% · 6.8% · 6% · 6.4% · 6.7% · 7.2% · 7.3% · 6.8% · 11.6% · 12.8% · 4.2% · 7.5% · 7.5% · 7.57.57.99.1% · 10% · 11.4% · 9% · 8.6% · 13.9%

Datum RL48

PROPOSED BOUNDARY LEVEL	57.653	55.884	54.115	52.346	51.860	52.118	52.348	52.628	52.897	53.166	53.440	53.721	54.001	54.314	54.659
PROPOSED TOP OF KERB					51.775	52.033	52.263	52.543	52.811	53.080	53.355	53.635	53.916	54.229	54.573
EXISTING SURFACE LEVEL	60.505	59.921	57.461	53.704	52.123	52.283	53.745	52.916	53.587	55.047	54.600	54.033	54.300	54.535	54.771
CHAINAGE	150.000	155.000	160.000	165.000	170.000	175.000	180.000	185.000	190.000	195.000	200.000	205.000	210.000	215.000	220.000

PROPOSED BOUNDARY LEVEL	54.978	55.297	55.626	55.992	56.502	56.917	57.290	57.664	58.134	58.635	59.135	59.584	60.025	60.511	61.205	61.899
PROPOSED TOP OF KERB	54.893	55.211	55.541	55.906	56.551	56.832	57.205	57.578	58.048	58.549	59.102	59.577	60.091	60.654	61.229	61.845
EXISTING SURFACE LEVEL	55.001	55.339	55.680	56.021	56.408	56.708	57.184	57.916	58.316	58.782	59.296	59.837	60.002	60.513	60.933	61.426
CHAINAGE	225.000	230.000	235.000	240.000	245.000	250.000	255.000	260.000	265.000	270.000	275.000	280.000	285.000	290.000	295.000	300.000

AREA 23 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

100mm on Original

Client
BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:250 H 1:50 V	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project
26-50 PARK RD, 27-47 BERRY RD,
48-54 RIVER RD,
NSW 2065 (AREA 22 & 23)

Title
AREA 23 BOUNDARY
LONG SECTION
SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

Status
FOR APPROVAL
(NOT TO BE USED FOR CONSTRUCTION)
A1

Project - Drawing No.
22-1013-DAC1713

Issue
B

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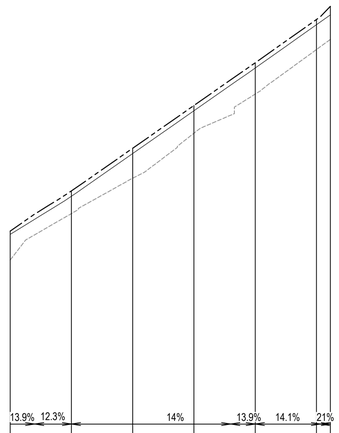

Datum RL58							
PROPOSED BOUNDARY LEVEL	61.899	62.554	63.251	63.949	64.645	65.353	65.567
PROPOSED TOP OF KERB	61.845	62.469	63.166	63.864	64.560	65.267	65.431
EXISTING SURFACE LEVEL	61.426	62.185	62.761	63.497	64.135	64.862	65.026
CHAINAGE	300.000	305.000	310.000	315.000	320.000	325.000	326.127

AREA 23 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

Client
BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:250 H 1:50 V	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project
26-50 PARK RD, 27-47 BERRY RD,
48-54 RIVER RD,
NSW 2065 (AREA 22 & 23)

Title
AREA 23 BOUNDARY
LONG SECTION
SHEET 3

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

Status
FOR APPROVAL
(NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.
22-1013-DAC1714

Issue
B

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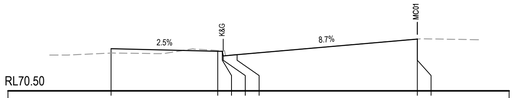
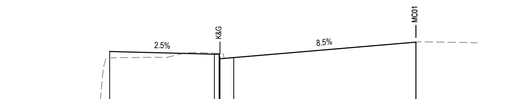


RL70.50

	71.877	71.790 71.790 71.640 71.680	72.190 72.190
	71.732	71.818 71.809 71.811 71.683	72.190 72.190
-10.000		-6.515 -6.365 -6.335 -5.885	0.000 0.000

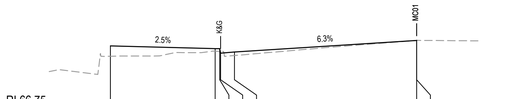
CH 50



RL67.50

	70.330	70.245 70.245 70.095 70.135	70.639 70.639
	70.124	70.277 70.271 70.270 70.133	70.639 70.639
-10.000		-6.580 -6.430 -6.400 -5.950	0.000 0.000

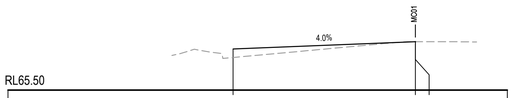
CH 70



RL66.75

	68.852	68.767 68.767 68.617 68.657	69.033 69.033
	68.516	68.682 68.676 68.675 68.539	69.033 69.033
-10.000		-6.580 -6.430 -6.400 -5.950	0.000 0.000

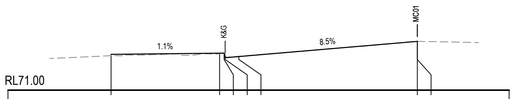
CH 90



RL65.50

	66.845		67.081 67.081
	66.565		67.081 67.081
-5.950			0.000 0.000

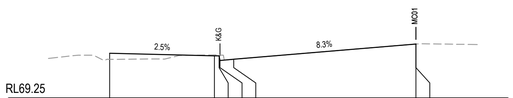
CH 110



RL71.00

	72.169	72.207 72.207 72.057 72.097	72.594 72.594
	72.125	72.194 72.225 72.224 72.106	72.594 72.594
-10.000		-6.455 -6.305 -6.275 -5.825	0.000 0.000

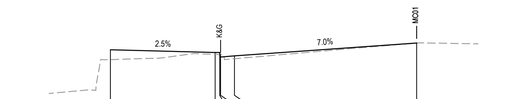
CH 45



RL69.25

	70.720	70.635 70.635 70.485 70.525	71.020 71.020
	70.523	70.666 70.661 70.660 70.522	71.020 71.020
-10.000		-6.580 -6.430 -6.400 -5.950	0.000 0.000

CH 65



RL66.75

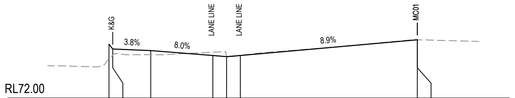
	69.235	69.150 69.150 69.000 69.040	69.457
	68.917	69.088 69.082 69.081 68.945	69.457
-10.000		-6.580 -6.430 -6.400 -5.950	0.000

CH 85

RL66.00

	67.340		67.605 67.605
	67.149		67.605 67.605
-5.950			0.000 0.000

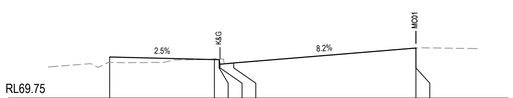
CH 105



RL72.00

	73.768 73.610 73.563	73.401 73.361 73.401	73.915 73.915
	73.306 73.412 73.429	73.506 73.342 73.401	73.915 73.915
-10.065 -9.942 -8.704		-6.676 -6.226 -5.776	0.000 0.000

CH 30



RL69.75

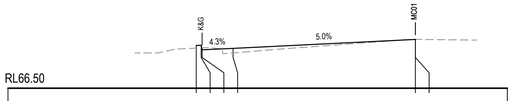
	71.106	71.020 71.020 70.870 70.910	71.397 71.397
	70.931	71.045 71.038 71.039 70.908	71.397 71.397
-10.000		-6.580 -6.430 -6.400 -5.950	0.000 0.000

CH 60

RL66.75

	69.589	69.503 69.503 69.353 69.393	69.851 69.851
	69.317	69.483 69.488 69.486 69.351	69.851 69.851
-10.000		-6.580 -6.430 -6.400 -5.950	0.000 0.000

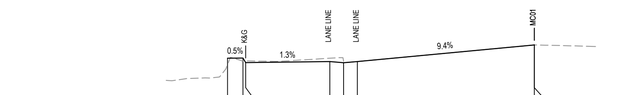
CH 80



RL66.50

	67.897 67.891 67.792 67.796		68.091 68.091
	67.806 67.813 67.815 67.650		68.091 68.091
-7.152 -6.993 -6.961 -5.950			0.000 0.000

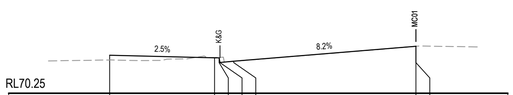
CH 100



RL72.00

PROPOSED SURFACE LEVEL	73.961 73.963 73.815	73.850 73.810 73.850	74.391 74.391
EXISTING SURFACE LEVEL	73.743 73.872 73.871	73.959 73.862 73.850	74.391 74.391
CENTRELINE OFFSET	-10.016 -9.509 -9.424	-6.677 -6.227 -5.777	0.000 0.000

CH 25



RL70.25

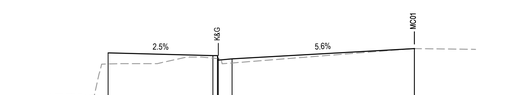
	71.490	71.405 71.405 71.255 71.295	71.783 71.783
	71.332	71.416 71.422 71.423 71.293	71.783 71.783
-10.000		-6.578 -6.428 -6.398 -5.948	0.000 0.000

CH 55

RL67.25

	69.942	69.856 69.856 69.706 69.746	70.245 70.245
	69.721	69.886 69.881 69.879 69.743	70.245 70.245
-10.000		-6.580 -6.430 -6.400 -5.950	0.000 0.000

CH 75



RL65.75

	68.437	68.351 68.351 68.201 68.241	68.576 68.576
	68.076	68.267 68.253 68.251 68.108	68.576 68.576
-10.000		-6.580 -6.430 -6.400 -5.950	0.000 0.000

CH 95

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:100	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

PUBLIC DOMAIN MC01 PARK ROAD CROSS SECTIONS SHEET 1

Civil Engineers and Project Managers

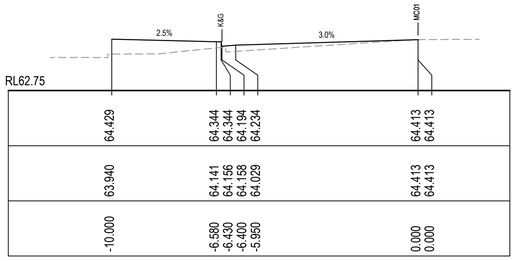
at&l

Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

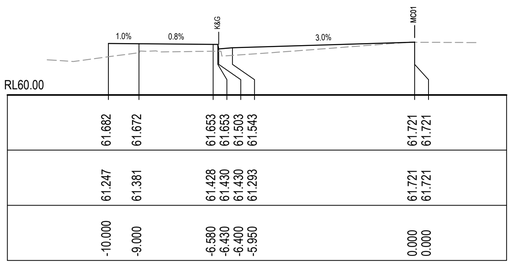
Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION) — A1

Project - Drawing No.: 22-1013-DAC1750 — Issue: B

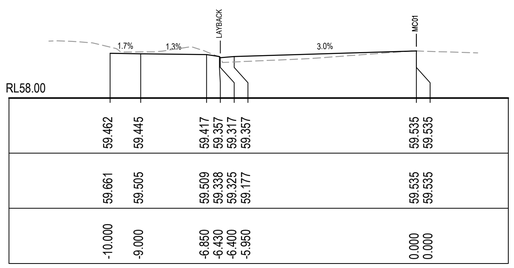
F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1750.dwg



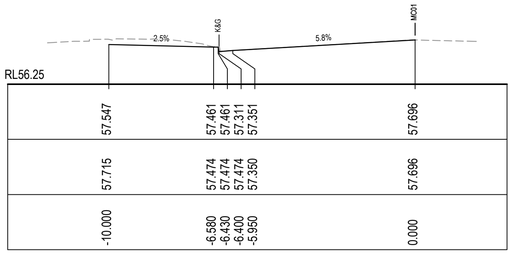
CH 130



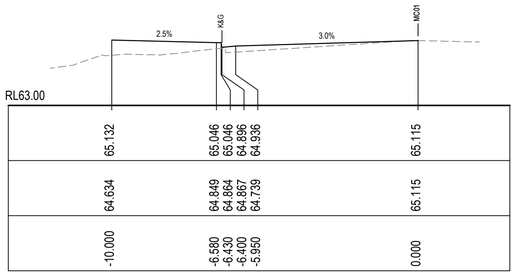
CH 150



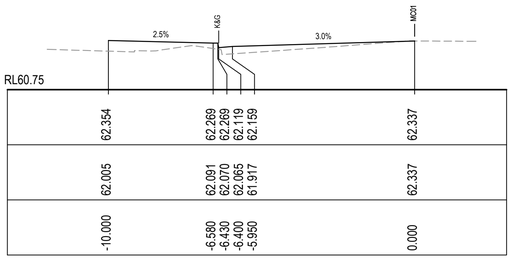
CH 170



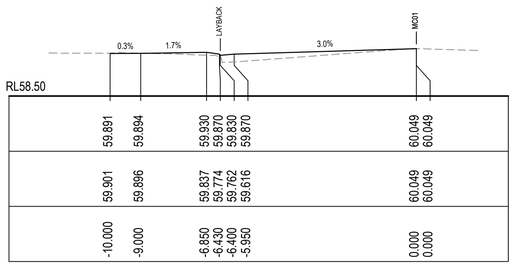
CH 190



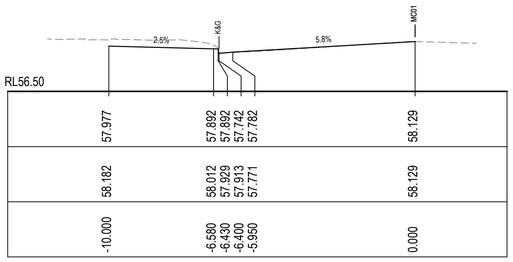
CH 125



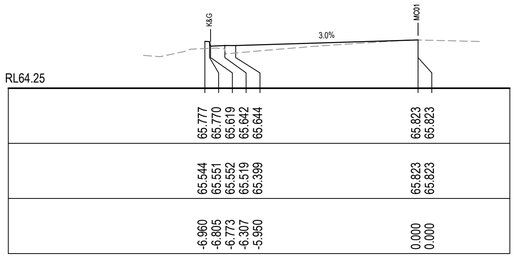
CH 145



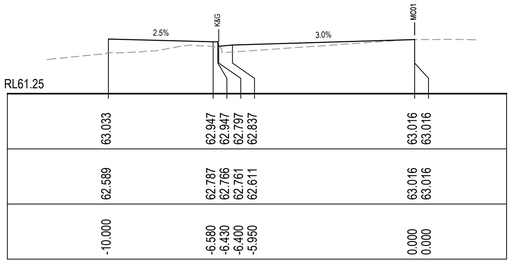
CH 165



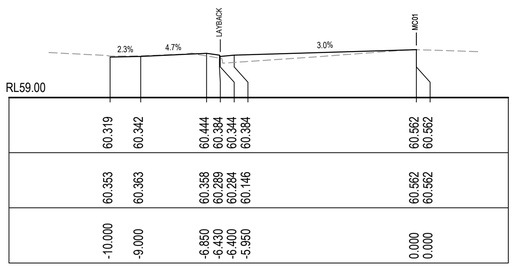
CH 185



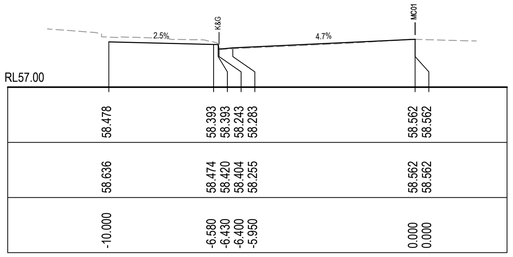
CH 120



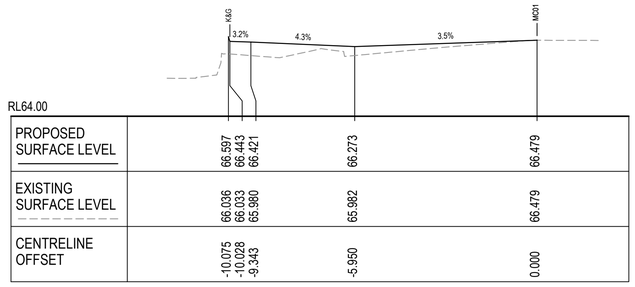
CH 140



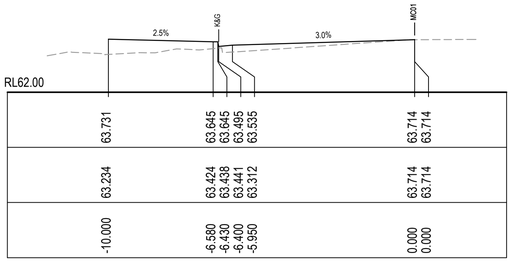
CH 160



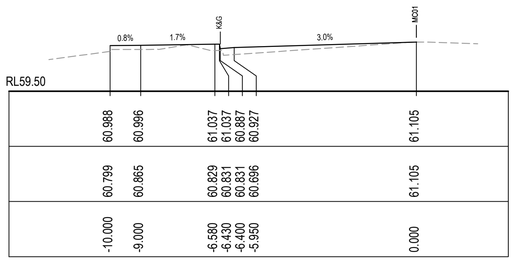
CH 180



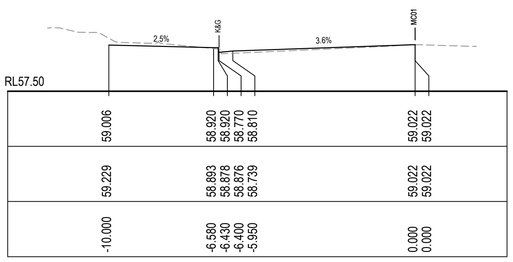
CH 115



CH 135



CH 155



CH 175

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:100
Grid	MGA94
Height Datum	AHD
Drawn	JD
Designed	JD
Checked	SS
Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

PUBLIC DOMAIN MC01
PARK ROAD
CROSS SECTIONS
SHEET 2

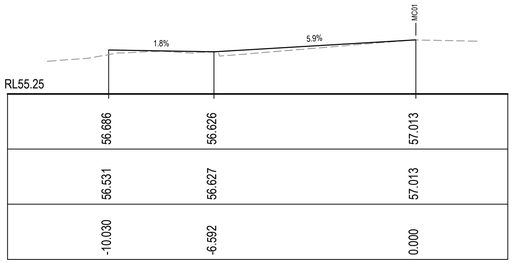
Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION) — A1

Project - Drawing No.: 22-1013-DAC1751 — Issue: B

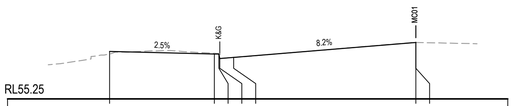
100mm on Original

F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1751.dwg



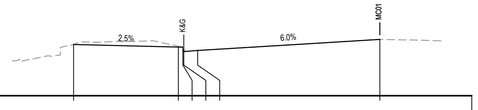
RL55.25			
	56.686	56.626	57.013
	56.531	56.627	57.013
	-10.030	-6.592	0.000

CH 202



RL55.25						
	56.801	56.715	56.715	56.565	57.092	57.092
	56.717	56.738	56.730	56.726	57.092	57.092
	-10.000	-6.580	-6.430	-6.400	0.000	0.000

CH 200



RL55.50					
PROPOSED SURFACE LEVEL	57.174	57.088	57.088	56.938	56.978	57.338
EXISTING SURFACE LEVEL	57.176	57.119	57.100	57.100	56.977	57.338
CENTRELINE OFFSET	-10.000	-6.580	-6.430	-6.400	-5.950	0.000

CH 195

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales 1:100

Grid MGA94

Height Datum AHD

Drawn	JD
Designed	JD
Checked	SS
Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

PUBLIC DOMAIN MC01 PARK ROAD CROSS SECTIONS SHEET 3

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

Status FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No. 22-1013-DAC1752

Issue B

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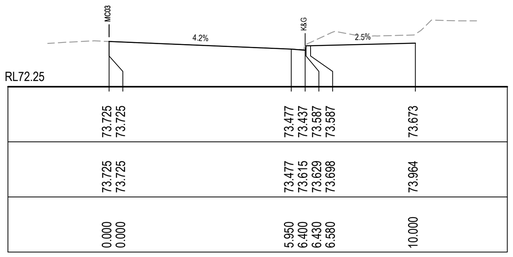
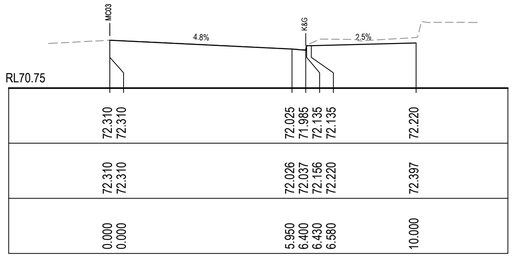
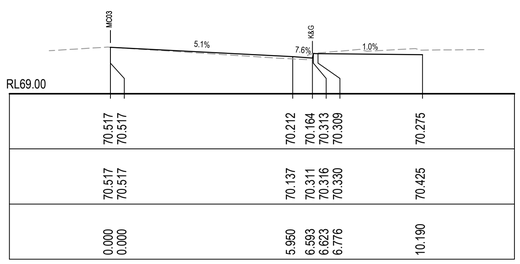


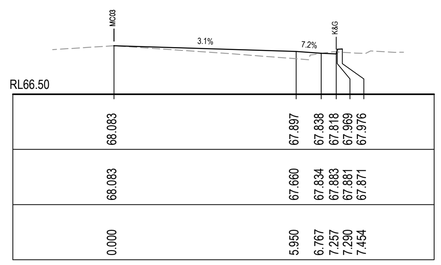
CH 25



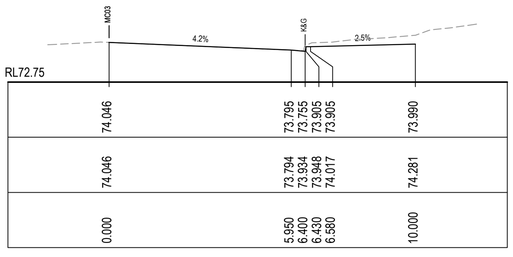
CH 45



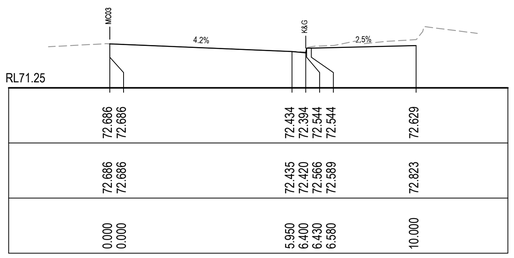
CH 65



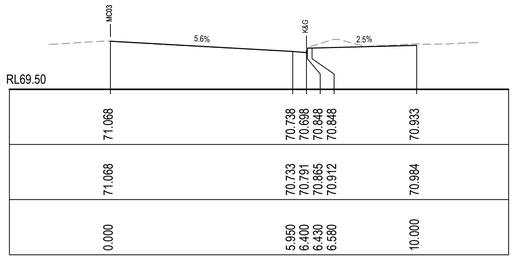
CH 85



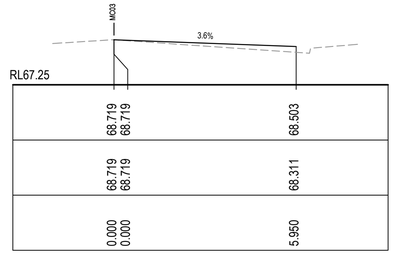
CH 20



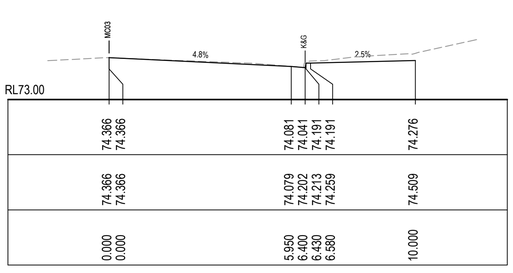
CH 40



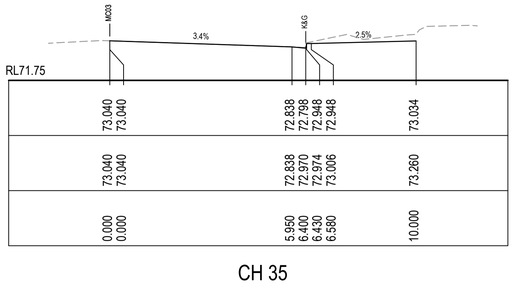
CH 60



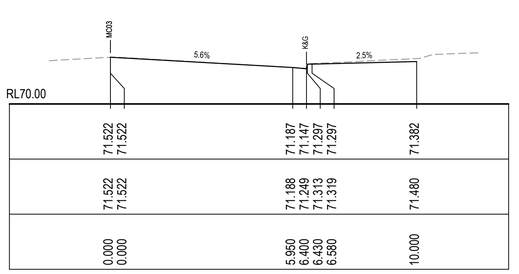
CH 80



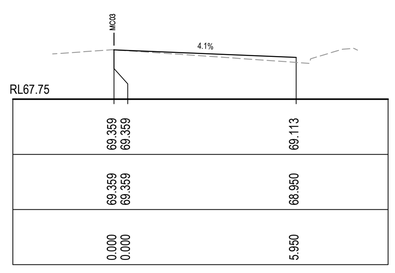
CH 15



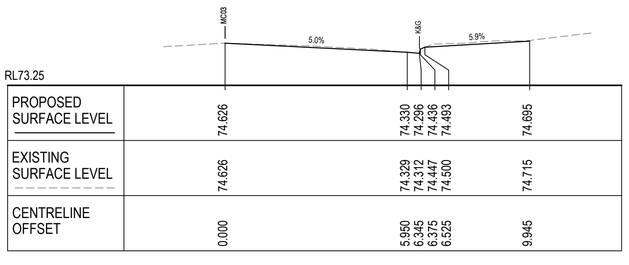
CH 35



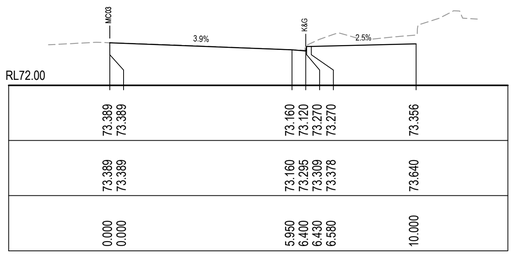
CH 55



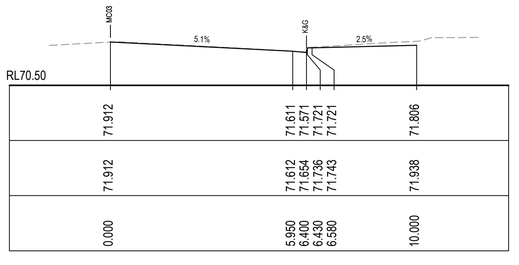
CH 75



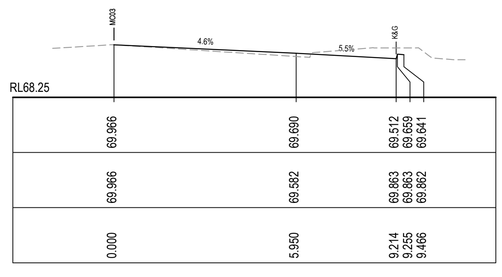
CH 10



CH 30



CH 50



CH 70

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:100	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

PUBLIC DOMAIN MC03 BERRY ROAD CROSS SECTIONS SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

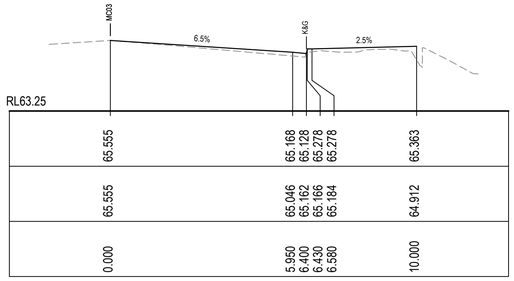
A1

Project - Drawing No.: 22-1013-DAC1753

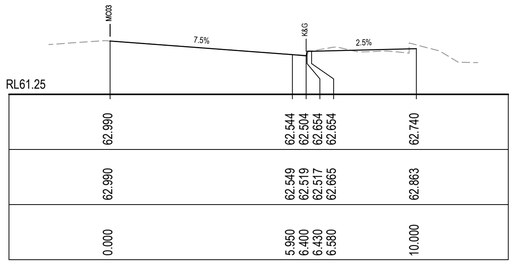
Issue: B

100mm on Original

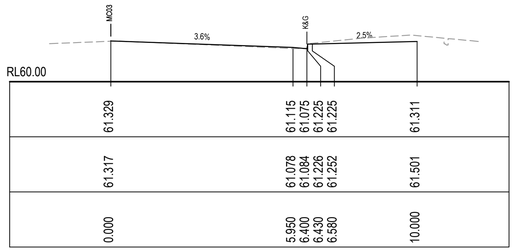
F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1753.dwg



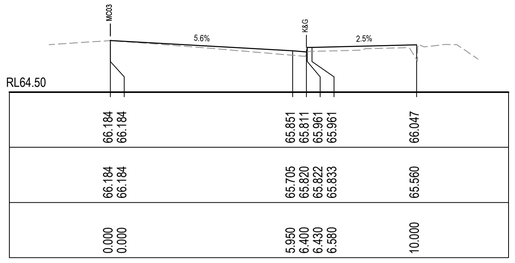
CH 105



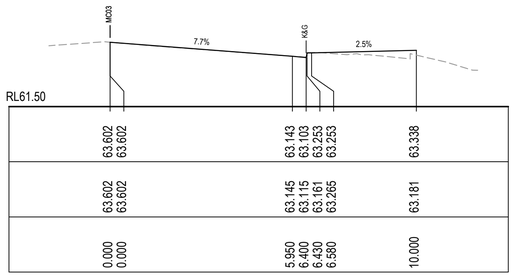
CH 125



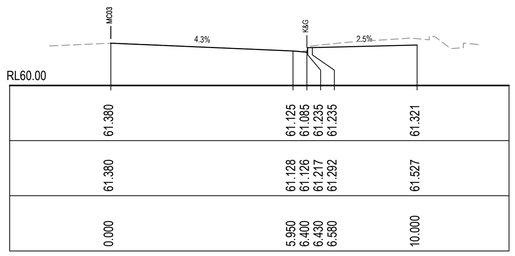
CH 140.5



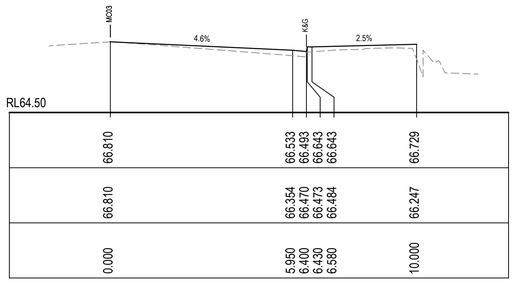
CH 100



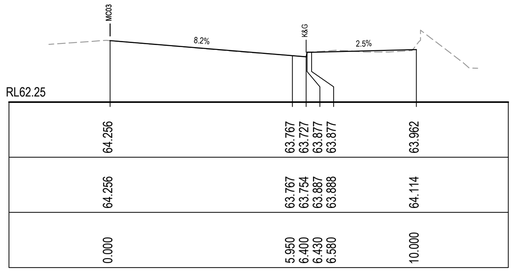
CH 120



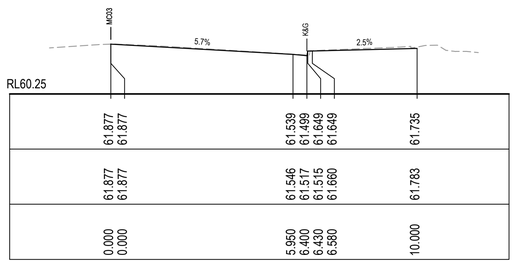
CH 140



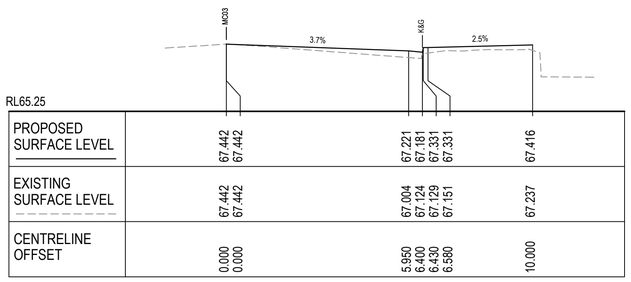
CH 95



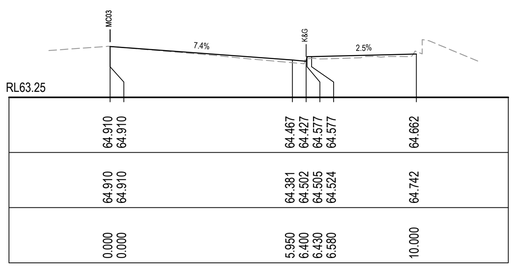
CH 115



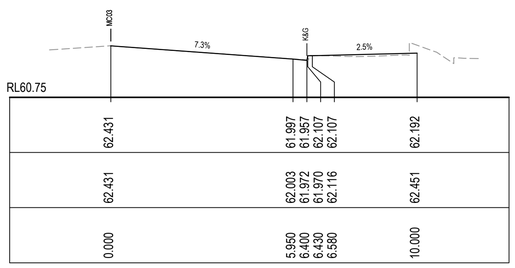
CH 135



CH 90



CH 110



CH 130

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:100
Grid	MGA94
Height Datum	AHD
Drawn	JD
Designed	JD
Checked	SS
Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

PUBLIC DOMAIN MC03
BERRY ROAD
CROSS SECTIONS
SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
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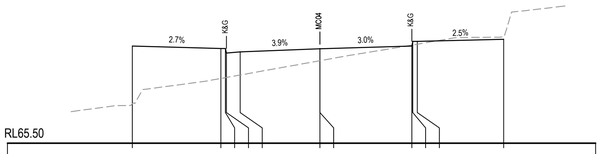
www.atl.net.au
ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION) — A1

Project - Drawing No.: 22-1013-DAC1754 — Issue: B

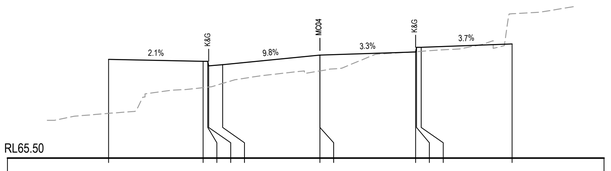
F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1754.dwg



RL65.50

68.671	68.592	68.592	68.442	68.481	68.582	68.582	68.672	68.822	68.822	68.892
66.787	67.613	67.640	67.645	67.726	68.193	68.193	68.699	68.704	68.730	68.970
-6.123	-3.234	-3.084	-3.054	-2.603	0.000	0.000	3.000	3.030	3.180	6.000

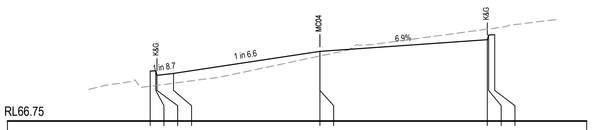
CH 20



RL65.50

68.722	68.657	68.658	68.508	68.550	68.862	68.862	68.964	69.114	69.115	69.225
66.959	67.799	67.816	67.819	67.937	68.344	68.344	68.972	68.974	68.985	70.210
-6.902	-3.813	-3.661	-3.630	-3.173	0.000	0.000	3.125	3.156	3.308	6.274

CH 15



RL66.75

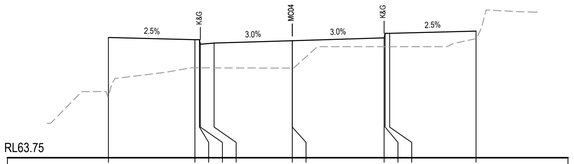
68.381	68.389	68.241	68.303	69.024	69.024	69.403	69.555	69.570
67.886	67.910	67.915	67.985	68.872	68.872	69.749	69.754	69.781
-5.542	-5.358	-5.321	-4.780	0.000	0.000	5.468	5.507	5.708

CH 10

RL67.50

PROPOSED SURFACE LEVEL	68.954	69.418
EXISTING SURFACE LEVEL	68.795	69.265
CENTRELINE OFFSET	0.000	3.656

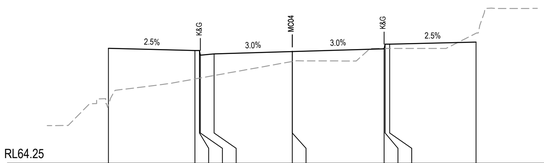
CH 6



RL63.75

67.673	67.603	67.603	67.453	67.493	67.569	67.569	67.659	67.809	67.809	67.880
65.789	66.683	66.683	66.682	66.661	66.673	66.673	67.373	67.373	67.373	67.633
-6.000	-3.180	-3.030	-3.000	-2.550	0.000	0.000	3.000	3.030	3.180	6.000

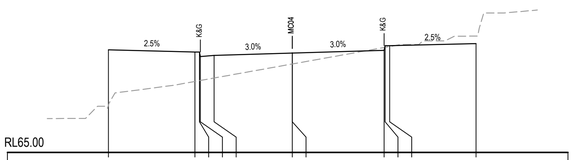
CH 35



RL64.25

68.011	67.940	67.940	67.790	67.830	67.907	67.907	67.997	68.147	68.147	68.217
66.166	67.012	67.039	67.044	67.125	67.582	67.582	68.008	68.008	68.008	68.504
-6.000	-3.180	-3.030	-3.000	-2.550	0.000	0.000	3.000	3.030	3.180	6.000

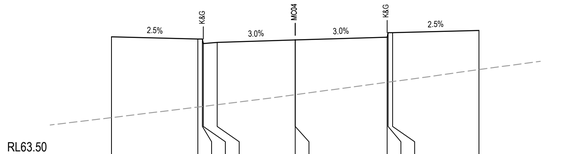
CH 30



RL65.00

68.348	68.278	68.278	68.128	68.168	68.244	68.244	68.334	68.484	68.484	68.555
66.543	67.317	67.344	67.350	67.430	67.887	67.887	68.425	68.431	68.458	68.799
-6.000	-3.180	-3.030	-3.000	-2.550	0.000	0.000	3.000	3.030	3.180	6.000

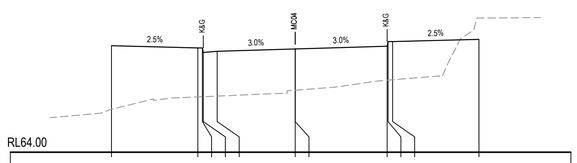
CH 25



RL63.50

67.425	67.355	67.355	67.205	67.245	67.321	67.321	67.411	67.561	67.561	67.632
64.787	65.133	65.151	65.155	65.210	65.536	65.536	65.940	65.944	65.965	66.356
-6.000	-3.180	-3.030	-3.000	-2.550	0.000	0.000	3.000	3.030	3.180	6.000

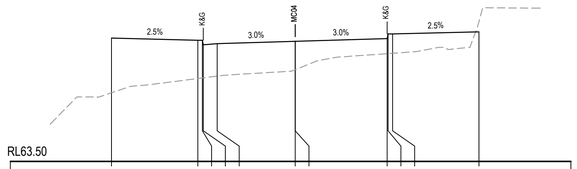
CH 50



RL64.00

67.475	67.405	67.405	67.255	67.295	67.371	67.371	67.461	67.611	67.611	67.682
65.401	65.806	65.812	65.813	65.832	66.025	66.025	66.350	66.353	66.365	68.380
-6.000	-3.180	-3.030	-3.000	-2.550	0.000	0.000	3.000	3.030	3.180	6.000

CH 45



RL63.50

67.525	67.455	67.455	67.305	67.345	67.421	67.421	67.511	67.661	67.661	67.732
65.741	66.207	66.226	66.230	66.287	66.495	66.495	67.018	67.020	67.030	68.066
-6.000	-3.180	-3.030	-3.000	-2.550	0.000	0.000	3.000	3.030	3.180	6.000

CH 40

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

100mm on Original

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:100	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

PUBLIC DOMAIN MC04 PROPOSED DCP ROAD CROSS SECTIONS SHEET 1

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
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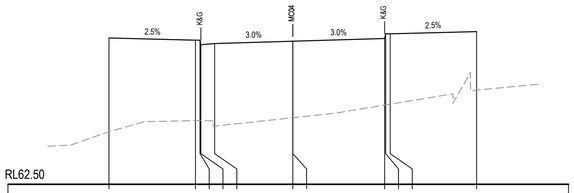
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION) — A1

Project - Drawing No.: 22-1013-DAC1755

Issue: B

F:\22-1013 Park Road St Leonards\6.0 Drgs\Civil\Final\1000 DA\22-1013-DAC1755.dwg

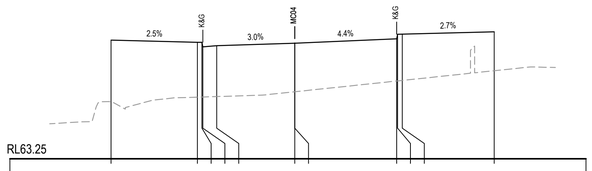


RL62.50

67.275	67.205	67.205	67.055	67.095	67.171	67.171
64.217	64.582	64.585	64.585	64.401	64.673	64.673
-6.000	-3.180	-3.030	-3.000	-2.550	0.000	0.000

67.261	67.411	67.411	67.482			
65.087	65.092	65.117	65.574			
3.000	3.030	3.180	6.000			

CH 65

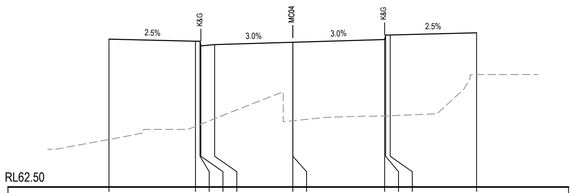


RL63.25

67.125	67.055	67.055	66.905	66.945	67.021	67.021
65.120	65.263	65.268	65.269	65.282	65.439	65.439
-6.000	-3.180	-3.030	-3.000	-2.550	0.000	0.000

67.167	67.317	67.317	67.397		
65.790	65.793	65.809	66.125		
3.327	3.358	3.509	6.510		

CH 80

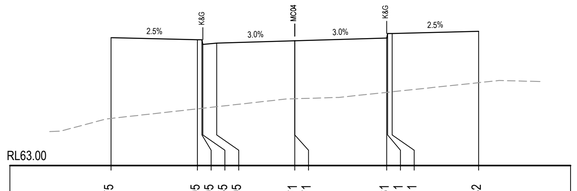


RL62.50

67.325	67.255	67.255	67.105	67.145	67.221	67.221
64.052	64.476	64.536	64.549	64.729	64.662	64.662
-6.000	-3.180	-3.030	-3.000	-2.550	0.000	0.000

67.311	67.461	67.461	67.532		
64.819	64.820	64.826	66.170		
3.000	3.030	3.180	6.000		

CH 60

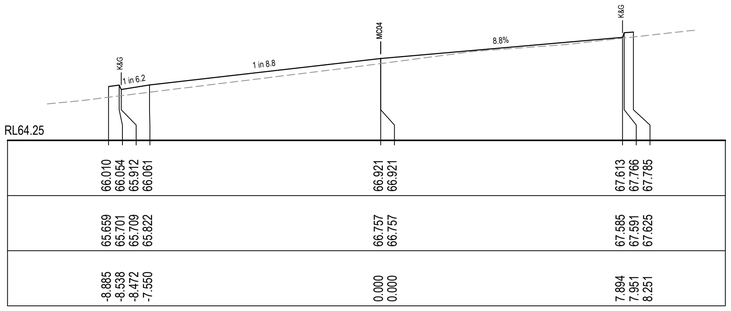


RL63.00

67.175	67.105	67.105	66.955	66.995	67.071	67.071
64.539	64.851	64.868	64.871	64.921	65.180	65.180
-6.000	-3.180	-3.030	-3.000	-2.550	0.000	0.000

67.161	67.311	67.311	67.382		
65.389	65.392	65.408	65.705		
3.000	3.030	3.180	6.003		

CH 75



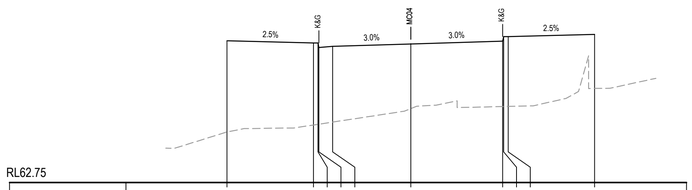
RL64.25

66.010	66.054	65.912	66.061			
65.659	65.701	65.709	65.822			
-8.885	-8.538	-8.472	-7.550			

66.921	66.921				
66.757	66.757				
0.000	0.000				

67.613	67.766	67.785			
67.585	67.591	67.625			
7.894	7.951	8.251			

CH 90

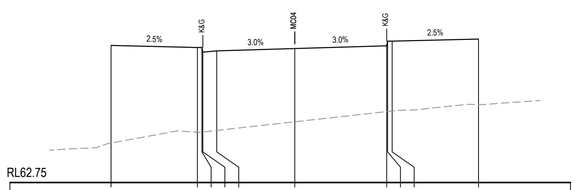


RL62.75

PROPOSED SURFACE LEVEL	67.375	67.305	67.305	67.155	67.195	67.271
EXISTING SURFACE LEVEL	64.398	64.626	64.649	64.653	64.722	65.162
CENTRELINE OFFSET	-6.000	-3.180	-3.030	-3.000	-2.550	0.000

67.361	67.511	67.511	67.582
65.229	65.230	65.233	65.822
3.000	3.030	3.180	6.000

CH 55

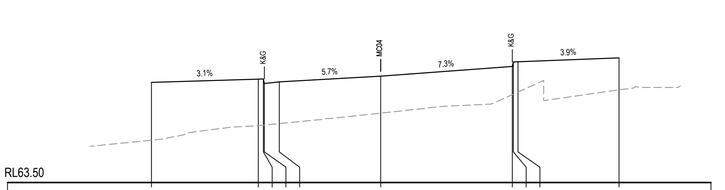


RL62.75

67.225	67.155	67.155	67.005	67.045	67.121	67.211
64.037	64.378	64.395	64.398	64.448	64.731	65.063
-6.000	-3.180	-3.030	-3.000	-2.550	0.000	3.000

67.361	67.361	67.432	
65.067	65.083	65.293	
3.030	3.180	6.000	

CH 70



RL63.50

66.765	66.875	66.880	66.731	66.784	66.971	67.287
64.881	65.356	65.372	65.375	65.422	65.764	66.368
-7.486	-3.995	-3.831	-3.799	-3.311	0.000	4.298

67.437	67.439	67.567	
66.382	66.452	66.522	
4.329	4.484	7.781	

CH 85

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:100	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

PUBLIC DOMAIN MC04 PROPOSED DCP ROAD CROSS SECTIONS SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION) — A1

Project - Drawing No.: 22-1013-DAC1756 — Issue: B

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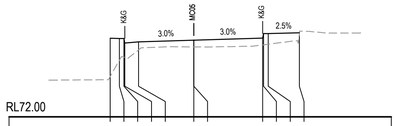

74.565	74.558	74.558	74.408	74.448	74.502	74.502	74.569	74.719	74.719	74.745
73.316	73.846	73.948	73.938	74.185	74.283	74.283	74.348	74.352	74.371	74.746
-2.730	-2.430	-2.280	-2.250	-1.800	0.000	0.000	2.250	2.280	2.430	3.449

CH 15

74.728	74.720	74.720	74.570	74.610	74.664	74.732	74.882	74.882	74.908
74.643	74.597	74.423	74.420	74.730	74.836	74.779	74.777	74.767	74.836
-2.730	-2.430	-2.280	-2.250	-1.800	0.000	2.250	2.280	2.430	3.463

CH 10

74.891	74.883	74.883	74.733	74.773	74.827	74.827	75.030	75.181	75.188
74.697	74.703	74.706	74.706	74.810	74.921	74.921	75.394	75.393	75.390
-2.730	-2.430	-2.280	-2.250	-1.800	0.000	0.000	3.524	3.558	3.730

CH 5

PROPOSED SURFACE LEVEL	74.881	74.947	74.949	74.800	74.843	74.892
EXISTING SURFACE LEVEL	74.742	74.756	74.768	74.770	74.837	74.930
CENTRELINE OFFSET	-2.730	-2.485	-2.326	-2.294	-1.830	0.000

CH 3

73.915	73.907	73.907	73.757	73.797	73.851	73.919	74.069	74.069	74.093
73.019	73.076	73.075	73.063	73.333	73.602	73.559	73.544	73.469	74.021
-2.730	-2.430	-2.280	-2.250	-1.800	0.000	2.250	2.280	2.430	3.391

CH 35

74.077	74.070	74.070	73.920	73.960	74.014	74.014	74.081	74.231	74.231	74.256
73.024	73.034	73.052	73.068	73.392	73.852	73.852	74.547	74.534	74.469	74.304
-2.730	-2.430	-2.280	-2.250	-1.800	0.000	0.000	2.250	2.280	2.430	3.406

CH 30

74.240	74.232	74.232	74.082	74.122	74.176	74.176	74.244	74.394	74.394	74.419
73.085	73.106	73.121	73.123	73.486	73.897	73.897	73.972	73.975	73.989	74.478
-2.730	-2.430	-2.280	-2.250	-1.800	0.000	0.000	2.250	2.280	2.430	3.420

CH 25

74.403	74.395	74.395	74.245	74.285	74.339	74.407	74.557	74.557	74.582
73.138	73.318	73.371	73.375	73.758	73.985	74.027	74.030	74.043	74.620
-2.730	-2.430	-2.280	-2.250	-1.800	0.000	2.250	2.280	2.430	3.434

CH 20

73.271	73.381	73.623	74.025	74.180
73.338	73.487	73.727	74.165	74.171
-4.370	-2.706	0.000	4.804	4.866

CH 42

73.636	73.646	73.498	73.561	73.688	73.832	73.983	73.986
73.363	73.379	73.382	73.428	73.642	73.887	73.891	73.907
-3.209	-3.031	-2.996	-2.475	0.000	2.842	2.877	3.048

CH 40

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:100	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD,
48-54 RIVER RD,
NSW 2065 (AREA 22 & 23)

Title

PUBLIC DOMAIN MC05
PARK ROAD CONNECTION
CROSS SECTIONS
SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

Status
FOR APPROVAL
(NOT TO BE USED FOR CONSTRUCTION)
A1

Project - Drawing No.
22-1013-DAC1757

Issue
B

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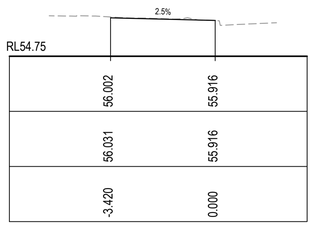
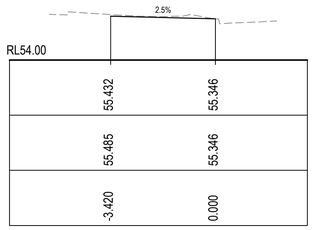
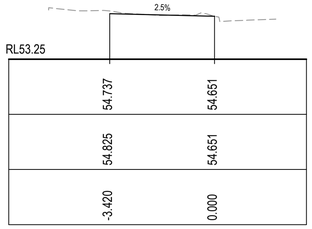


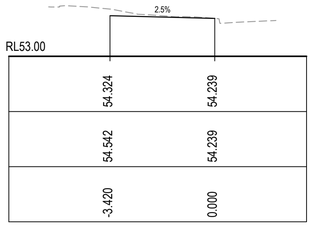
CH 11



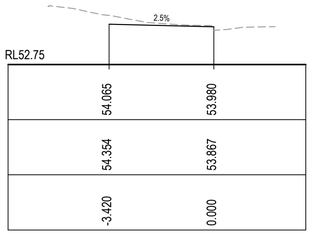
CH 19



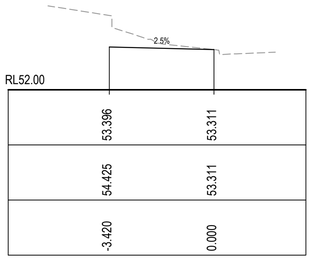
CH 30



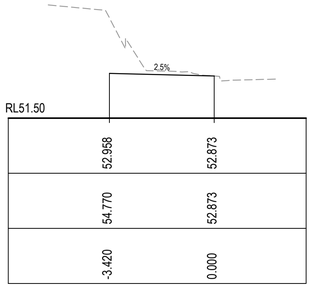
CH 36



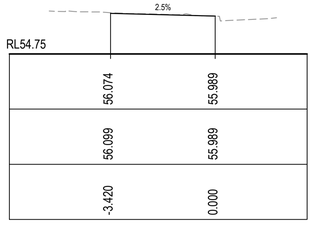
CH 40



CH 52



CH 60



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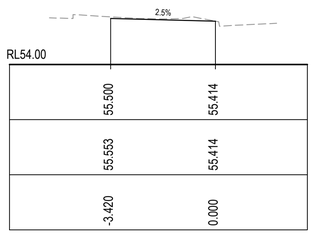

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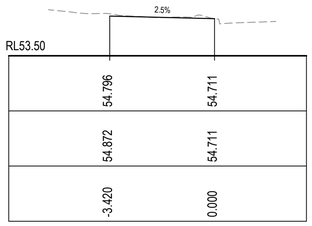

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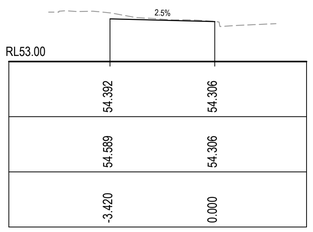
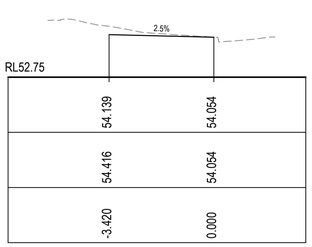


CH 35



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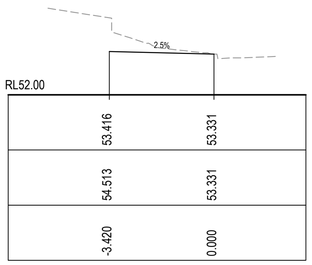

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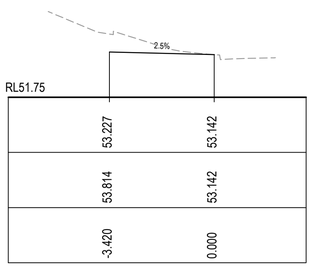

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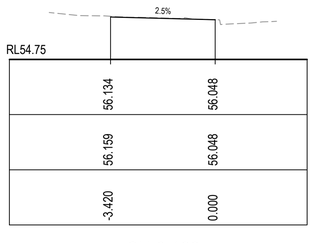
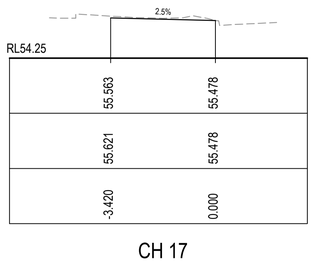
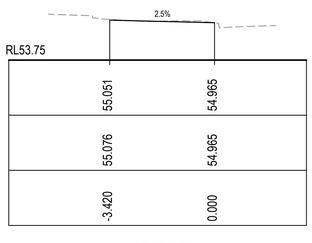


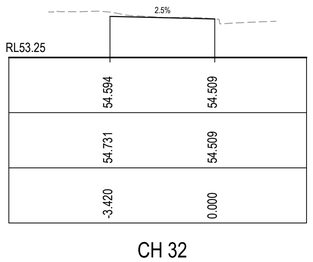
CH 9.122



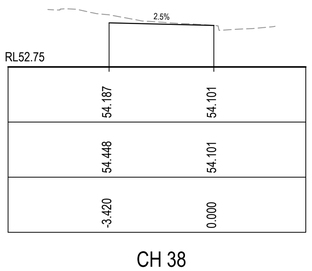
CH 17



CH 25



CH 32



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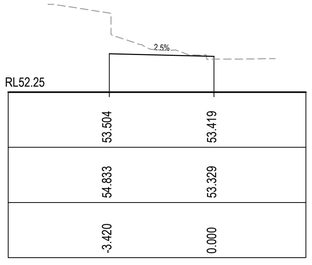
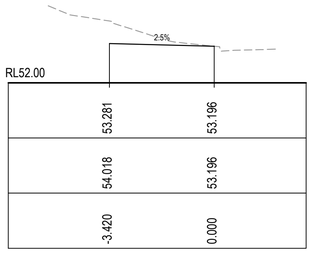
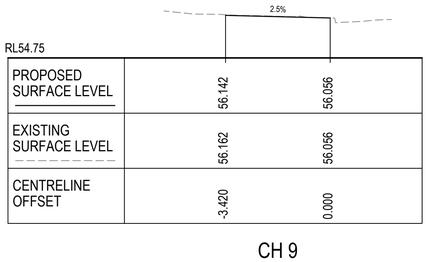


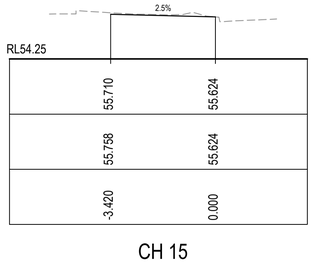
CH 50



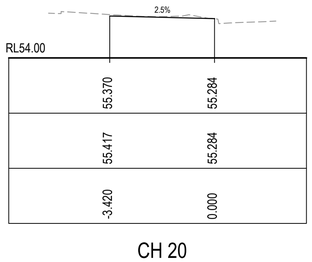
CH 54



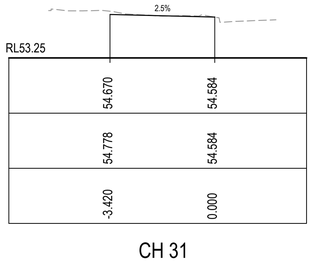
CH 9



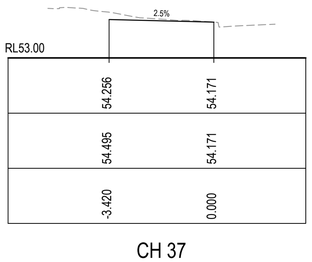
CH 15



CH 20



CH 31



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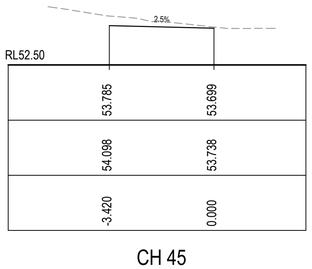

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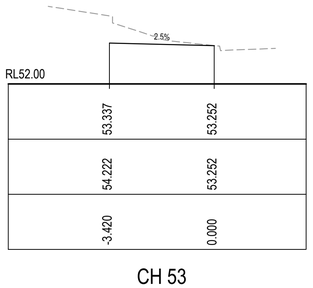

CH 53

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:100	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

PUBLIC DOMAIN
RIVER ROAD
CROSS SECTIONS
SHEET 1

Civil Engineers and Project Managers
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ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1758

Issue: B

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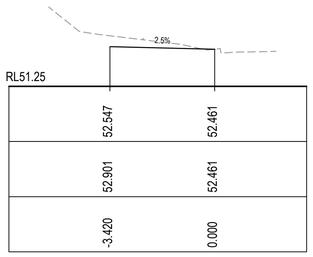
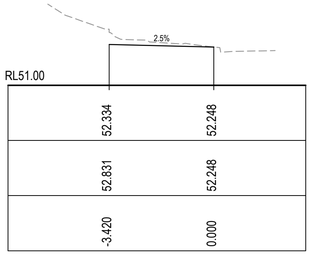
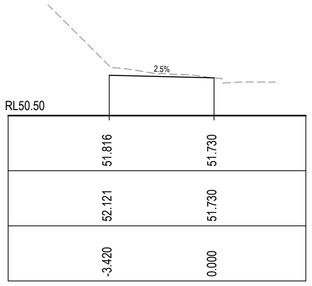


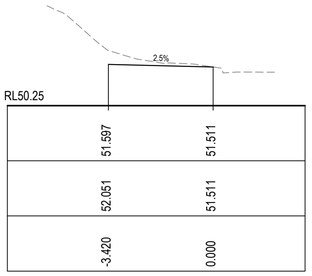
CH 67



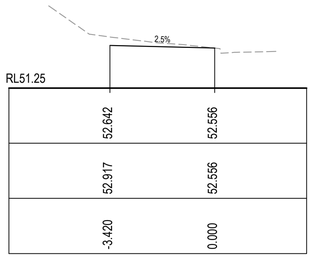
CH 72



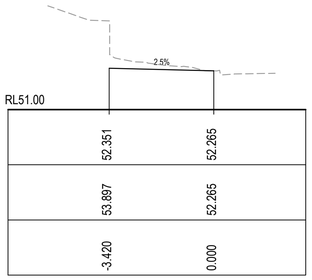
CH 82



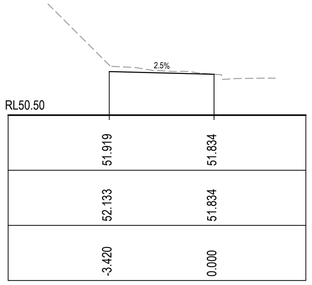
CH 86.6



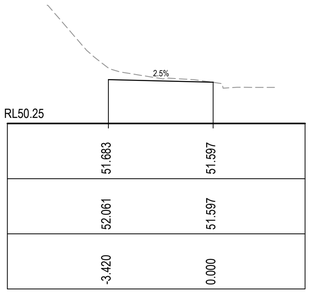
CH 66



CH 71



CH 80



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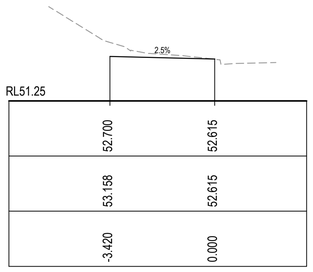
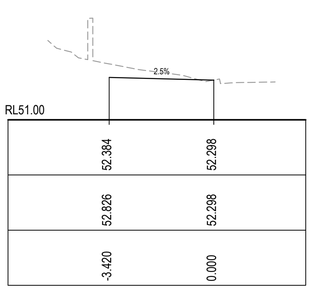
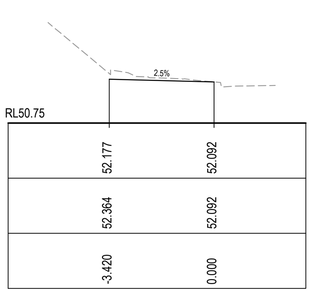


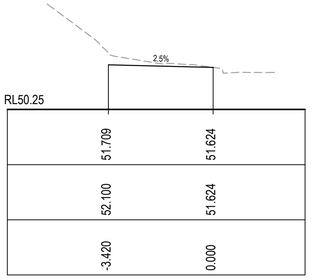
CH 65



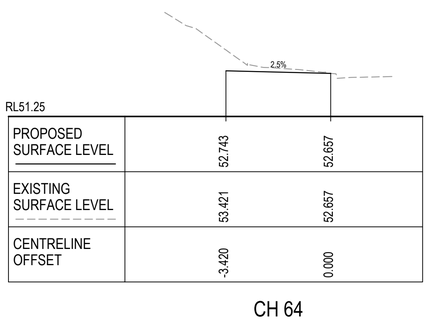
CH 70



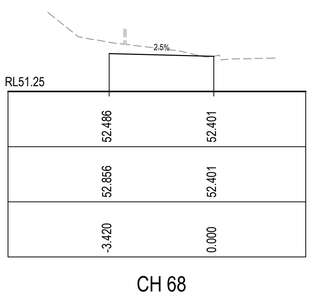
CH 75



CH 84.456



CH 64



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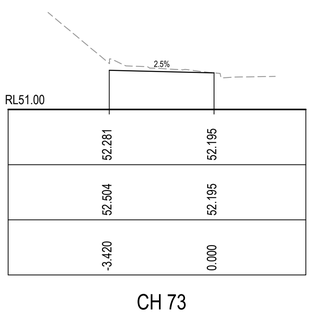
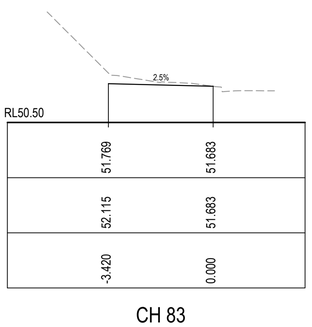


CH 73



CH 83

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

100mm on Original

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:100	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

PUBLIC DOMAIN
RIVER ROAD
CROSS SECTIONS
SHEET 2

Civil Engineers and Project Managers
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ABN 96 130 882 405

Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION) — A1

Project - Drawing No.: 22-1013-DAC1759 — Issue: B

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PARK ROAD

PARK ROAD

REFER TO MLA TRANSPORT PLANNING DRAWINGS FOR ENTRY/EXIT VEHICLE TURNPATHS

5.4m 6.0m 5.4m

BERRY ROAD

BERRY ROAD

BERRY LANE

NO THROUGH ROAD G9-18

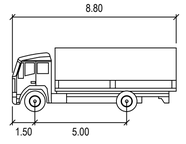
NO THROUGH ROAD G9-18

EXISTING SIGN TO BE RELOCATED

LEGEND

VEHICLE BODY ENVELOPE

0.5m VEHICLE BODY CLEARANCE ENVELOPE



MRV

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 34.0

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:250	Drawn	JD
		Designed	JD
Grid	MGA94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

PROPOSED TURN PATH PLANS

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Status: FOR APPROVAL (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1801

Issue: B

100mm on Original

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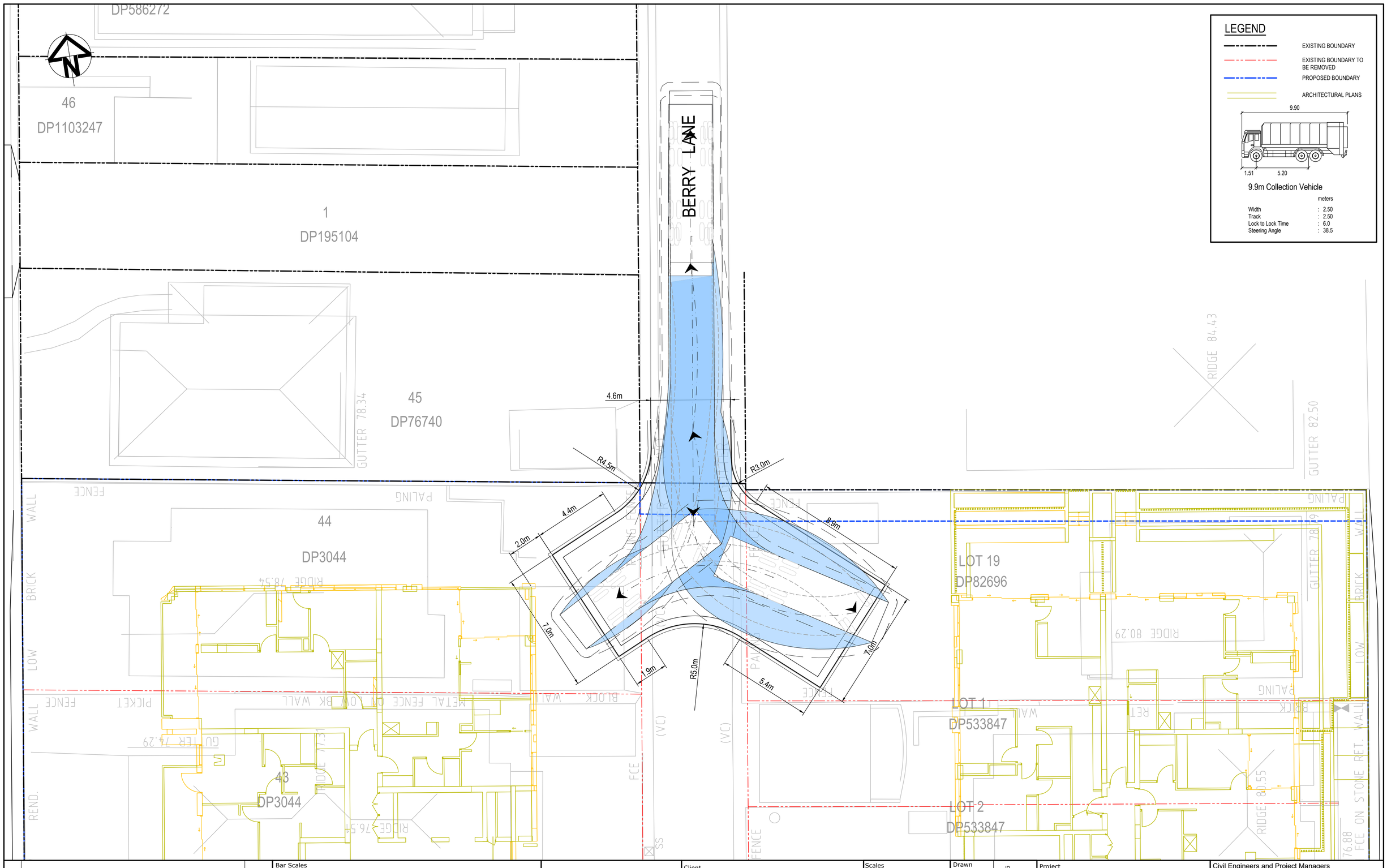

LEGEND

- EXISTING BOUNDARY
- EXISTING BOUNDARY TO BE REMOVED
- PROPOSED BOUNDARY
- ARCHITECTURAL PLANS

9.9m Collection Vehicle

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 38.5

Issue	Description	Date
B	ISSUED FOR DA APPROVAL	23-11-22
A	ISSUED FOR DA APPROVAL	11-11-22

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

100mm on Original

Client

BERRY ROAD DEVELOPMENT PTY LTD.

Scales	1:100	Drawn	JD
		Designed	JD
Grid	MGA 94	Checked	SS
Height Datum	AHD	Approved	

Project

26-50 PARK RD, 27-47 BERRY RD, 48-54 RIVER RD, NSW 2065 (AREA 22 & 23)

Title

PROPOSED BERRY LANE Y-HEAD TURNING OPTION 9.9m VEHICLE

Civil Engineers and Project Managers

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ABN 96 130 882 405

Status: FOR INFORMATION (NOT TO BE USED FOR CONSTRUCTION)

A1

Project - Drawing No.: 22-1013-DAC1802

Issue: B

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