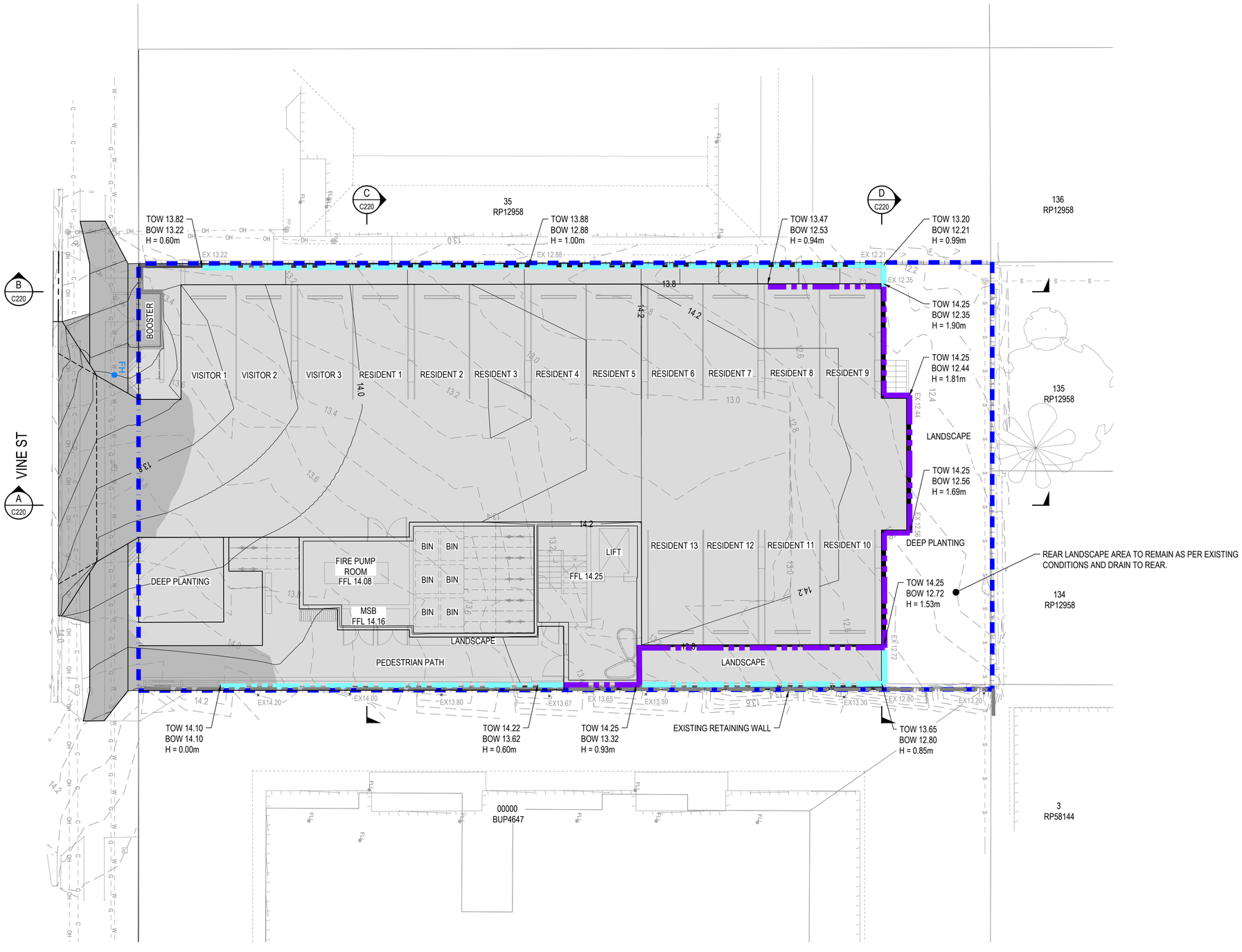
- 13.40 - EXISTING SURFACE CONTOURS
- 14.20 - DESIGN SURFACE CONTOURS
- W — EXISTING WATER
- S — EXISTING SEWER
- OH — EXISTING OVERHEAD ELECTRIC
- C — EXISTING COMMS
- G — EXISTING GAS
- EXISTING KERB
- EXISITNG BUILDING
- EXISITNG FENCE
- PP EXISITNG POWERPOLE
- PROPOSED KERB
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL (BY OTHER)
- PROPOSED RETAINING WALL (INCORPORTATED IN STRUCTURE)
- DEVELOPMENT SITE BOUNDARY
- EARTHWORKS AREA OF FILL
- EARTHWORKS AREA OF CUT

CONCEPT BULK EARTHWORKS SUMMARY	
STRUCTURAL FILLING	
AREA	NETT SOLID FILL
OVERALL FILLING	516.93 cu.m.
EXCAVATION	
AREA	NETT CUT
OVERALL EXCAVATION	8.83 cu.m.

SUMMARY:
i.e. 516.93 cu.m. - 8.83 cu.m. = 508.10 cu.m. MATERIAL TO BE IMPORTED
ASSUMPTIONS:
- ALLOW 200mm FOR PAVEMENT AND BUILDING PAD
- ALLOW 100mm FOR TOP-SOIL STRIP

NOTE:
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EARTHWORKS CONCEPT PLAN

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APPLICATION REF
A007148799

VER.	DESCRIPTION	DATE
P	PRELIMINARY ISSUE	14-10-26

BURCHILLS ENGINEERING SOLUTIONS
GOLD COAST | BRISBANE | TOOWOOMBA
IPSWICH | MORETON BAY
PHONE: +61 7 5509 6400
FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : ZEN GROUP

DRAWING TITLE : EARTHWORKS CONCEPT PLAN

PROJECT : PROPOSED MCU DEVELOPMENT
26-28 VINE STREET
GREENSLOPES, QLD 4120

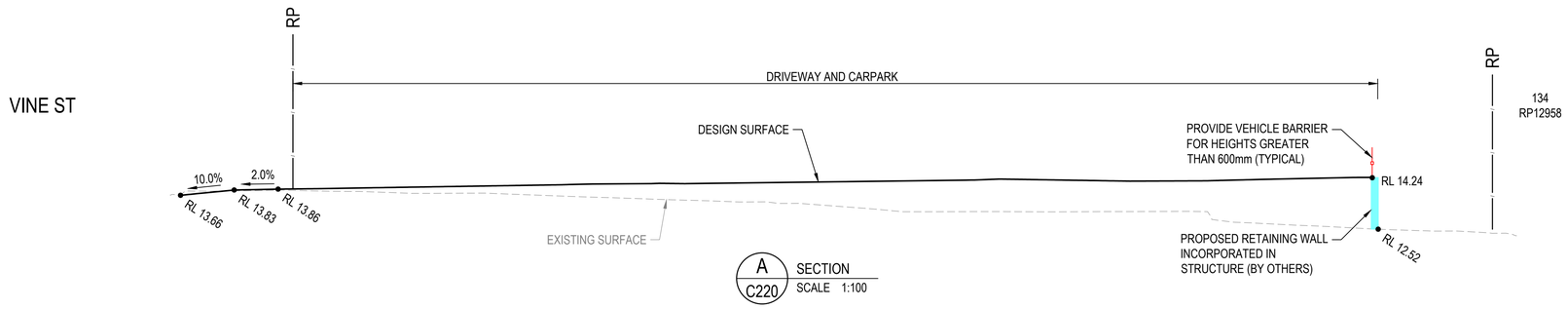
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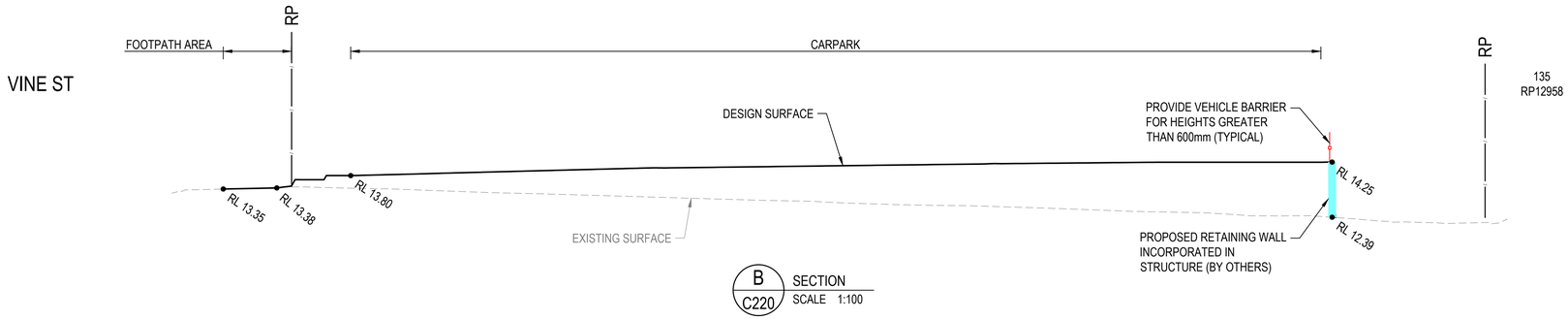
SCALE AT FULL SIZE (A1) :
1 0 1 2 3 4 5m
1 : 100 (FULL SIZE)

DEVEL. APPLIC. No. :	DATE : 14-10-26
PROJECT LEADER : ROBERTO DI FABIO	DESIGNER : T.N.
DRAFTSPERSON : L.N.	CHECKED : ROBERTO DI FABIO

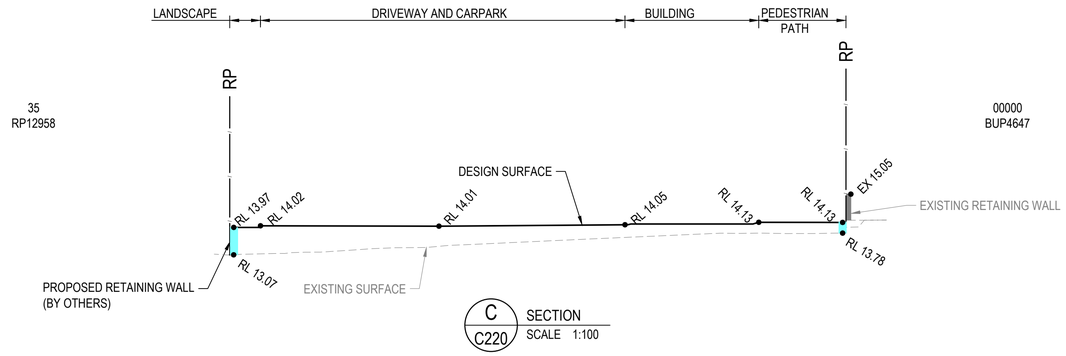
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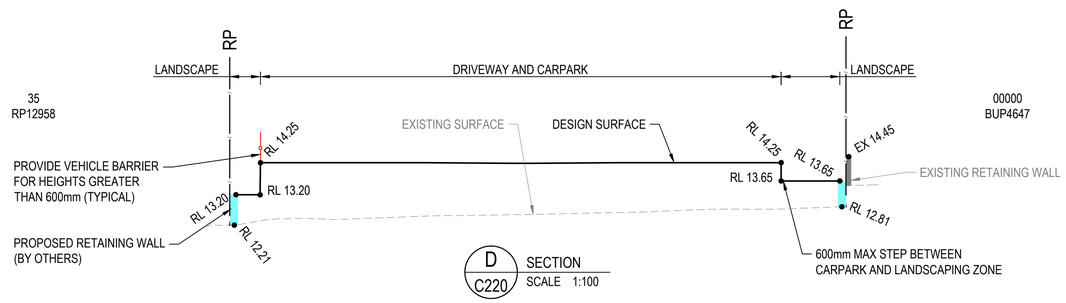
PROJECT No.:	DRAWING No. :	VERSION:
BE230362-DA	C200	P





NOTE:
ALL RETAINING WALL CONSTRUCTION ADJACENT TO BOUNDARIES TO BE CONFIRMED DURING DETAILED DESIGN STAGE, TAKING INTO CONSIDERATION AVAILABLE SPACE FOR TEMPORARY EARTHWORKS BATTERS, NEIGHBOURING STRUCTURES AND APPROPRIATE GEOTECHNICAL ADVICE.





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GOLD COAST | BRISBANE | TOOWOOMBA
IPSWICH | MORETON BAY
PHONE: +61 7 5509 6400
FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT :
ZEN GROUP

DRAWING TITLE :
CONCEPT EARTHWORKS SECTIONS

PROJECT :
PROPOSED MCU DEVELOPMENT
26-28 VINE STREET
GREENSLOPES, QLD 4120

PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
1 0 1 2 3 4 5m
1 : 100 (FULL SIZE)

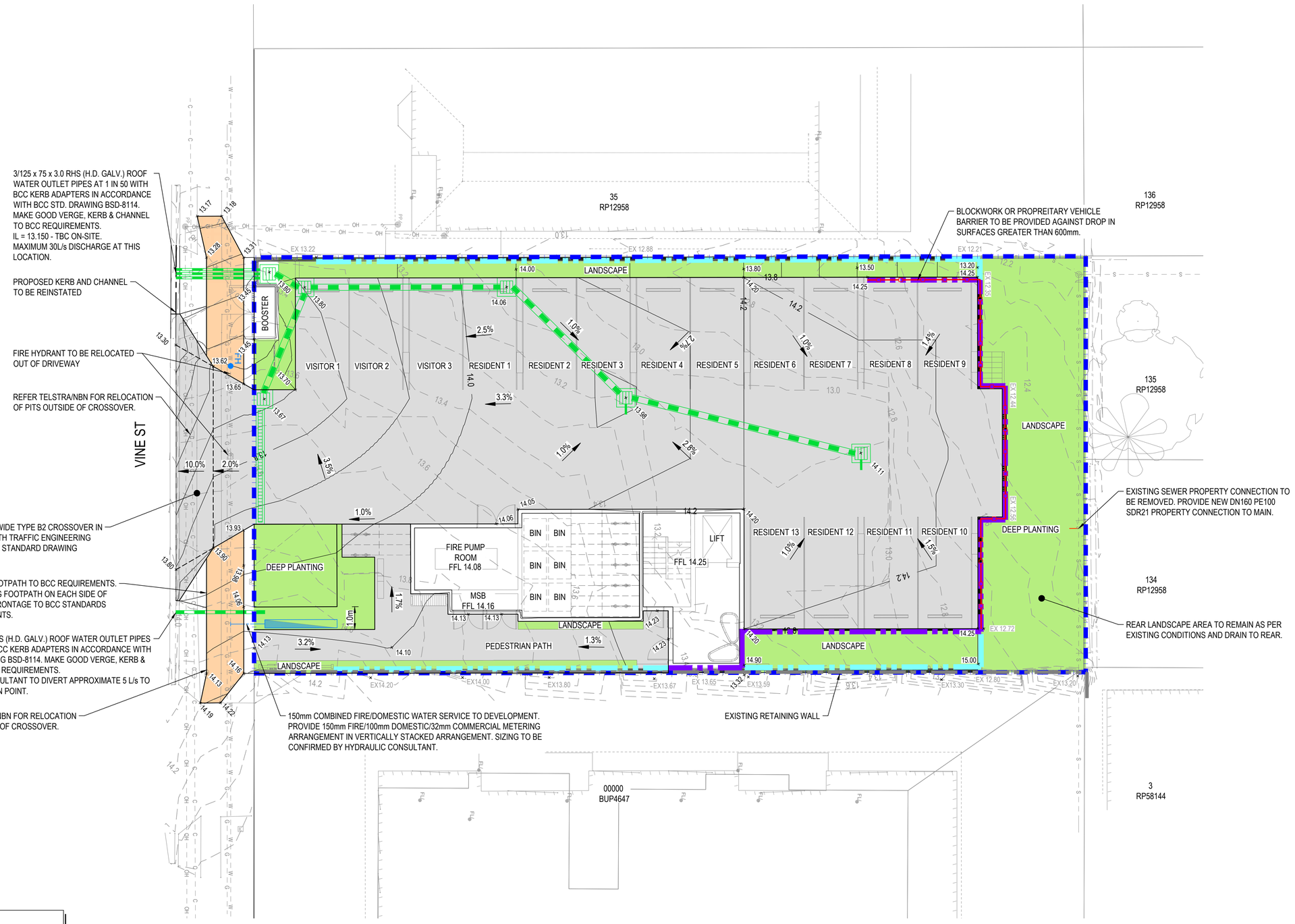
DEVEL. APPLIC. No. :	DATE : 14-10-26
PROJECT LEADER : ROBERTO DI FABIO	DESIGNER : T.N.
DRAFTSPERSON : L.N.	CHECKED : ROBERTO DI FABIO

APPROVED FOR AND ON BEHALF OF
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:
BE230362-DA	C220	P

LEGEND

- EXISTING SURFACE CONTOURS
- DESIGN SURFACE CONTOURS
- EXISTING WATER
- EXISTING SEWER
- EXISTING OVERHEAD ELECTRIC
- EXISTING COMMS
- EXISTING GAS
- EXISTING KERB
- EXISITNG BUILDING
- EXISITNG FENCE
- EXISITNG POWERPOLE
- DEVELOPMENT SITE BOUNDARY
- PROPOSED STORMWATER PIPE
- PROPOSED STORMWATER PIT
- PROPOSED SEWER
- PROPOSED WATER
- PROPOSED WATER METER
- PROPOSED KERB
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL (BY OTHER)
- PROPOSED RETAINING WALL (INCORPORTATED IN STRUCTURE)
- PROPOSED CONCRETE PAVEMENT
- PROPOSED FOOTPATH AREA
- PROPOSED LANDSCAPE AREA



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CONCEPT ACCESS DRAINAGE & SERVICE PLAN

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FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : ZEN GROUP

DRAWING TITLE : CONCEPT ACCESS DRAINAGE & SERVICE PLAN

PROJECT : PROPOSED MCU DEVELOPMENT
26-28 VINE STREET
GREENSLOPES, QLD 4120

PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
1 0 1 2 3 4 5m
1 : 100 (FULL SIZE)

DEVEL. APPLIC. No. :	DATE : 14-10-26
PROJECT LEADER : ROBERTO DI FABIO	DESIGNER : T.N.
DRAFTSPERSON : L.N.	CHECKED : ROBERTO DI FABIO

APPROVED FOR AND ON BEHALF OF
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:
BE230362-DA	C300	P

QMS RISK & OPPORTUNITIES REGISTER
SAFETY IN DESIGN – NORMAL DESIGN RISKS - CIVIL

Design Element	Associated risks & opportunities	Raw risk assessment		Raw risk rating	Treatment Measures to avoid, minimize or treat the risk.	Responsibility	Residual risk rating
		Likelihood	Consequence				
CONSTRUCTION PHASE							
SITE ACCESS	Unsafe site access and egress point, restricted access, flooding, unauthorised access from persons or animals	L	M	L-M	Prepare site specific Construction Traffic Management Plan and Workplace Health and Safety Management Plan	Principal Contractor	L
CLEARING & DEMOLITION	Removal of existing structures, decommission of services, vegetation clearing and fauna management	M	H	M-H	Contractor to obtain Demolition Permit, arrange all service disconnections with asset owner and carry out vegetation works in accordance with Vegetation and Fauna Management Plan	Principal Contractor	L
EXISTING SERVICES	Distrub or damage existing services and infrastructure, overhead powerlines, work adjacent to existing services, existing service relocations	M	H	M-H	Client to commission detailed site survey and service potholing at critical locations. Contractor to undertake Dial Before You Dig and service verification with service authoritiy providers and undertake additional potholing prior to construction	Client and Principal Contractor	L-M
EXCAVATION & TRENCHING	Unstable existing slopes and landslip, steep cut profiles, deep trench excavations, working at heights, intercept water table, dispersive soils, acid sulphate soils	M	H	M-H	Client to commission a geotechnical investigation and contractors to undertake own investigations. Temporary and final earthworks profiles confirmed by client's geotechnical consultant. Temporary earthworks profile to be confirmed by Contractor's geotechnical consultant. Contractor to provide temporary benching, fencing, stabilisation and shoring.	Client and Principal Contractor	L
MATERIALS HANDLING	Manual handling, handling and disposal of sharps, repeative work processeds, hazardous substances	H	M	M-H	Contractor or provide a site specific Workplace Health and Safety Management Plan including Material Safety Data Sheets	Principal Contractor	L
PLANT & EQUIPMENT	Operation of plant and machinery, site access by visitors, material deliveries and waste removal	M	H	M-H	Contractor or provide a site specific Workplace Health and Safety Management Plan including register of operator machinery tickets. Contractor to maintain a site visitor register and provide site specific induction to all visitors	Principal Contractor	L
OPERATIONAL PHASE							
ROADS & PATHWAYS	General road safety, flood free access, pedestrian and cyclist injuries, inadequate signage	L	H	M	Design, approvals and construction undertaken in accordance with Australian, State Government and Local Authority standards, codes, guidelines and best practice	Asset Owner	L
STORMWATER / FLOODING	Hazard from storm and flood water depths and velocities, ponding and access to inlets, outlets and basins	M	H	M-H	Design, approvals and construction undertaken in accordance with Australian, State Government and Local Authority standards, codes, guidelines and best practice	Asset Owner	L
WATER & SEWER	Blockages, contamination, interruption to service, access to fittings, confined space access	L	M	L-M	Design, approvals and construction undertaken in accordance with Australian, State Government and Local Authority standards, codes, guidelines and best practice	Asset Owner	L
WALLS & FENCING	Risk of falls, unauthoried access from persons and animals, structural failure	M	M	M	Design, approvals and construction undertaken in accordance with Australian, State Government and Local Authority standards, codes, guidelines and best practice	Asset Owner	L
MAINTENANCE PHASE							
ROADS & PATHWAYS	All as for construction and operation phases					Asset Owner	
STORMWATER / FLOODING	All as for construction and operation phases					Asset Owner	
WATER & SEWER	All as for construction and operation phases					Asset Owner	
WALLS & FENCING	All as for construction and operation phases					Asset Owner	
REFURBISHMENT PHASE							
ROADS & PATHWAYS	All as for construction and operation phases					Asset Owner	
STORMWATER / FLOODING	All as for construction and operation phases					Asset Owner	
WATER & SEWER	All as for construction and operation phases					Asset Owner	
WALLS & FENCING	All as for construction and operation phases					Asset Owner	
DEMOLITION PHASE							
ROADS & PATHWAYS	All as for construction and operation phases					Asset Owner	
STORMWATER / FLOODING	All as for construction and operation phases					Asset Owner	
WATER & SEWER	All as for construction and operation phases					Asset Owner	
WALLS & FENCING	All as for construction and operation phases					Asset Owner	

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IPSWICH | MORETON BAY
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FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : ZEN GROUP

DRAWING TITLE : HAZARD RISK REGISTER - DESIGN RISKS

PROJECT : PROPOSED MCU DEVELOPMENT
26-28 VINE STREET
GREENSLOPES, QLD 4120

PRELIMINARY
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SCALE AT FULL SIZE (A1) :

DEVEL. APPLIC. No. :
DATE : 14-10-26
PROJECT LEADER : ROBERTO DI FABIO
DESIGNER : T.N.
DRAFTSPERSON : L.N.
CHECKED : ROBERTO DI FABIO

APPROVED FOR AND ON BEHALF OF
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:
BE230362-DA	C900	P