



PENRITH BATTERY SITE DEVELOPMENT APPLICATION MODIFICATION

SCHEDULE OF DRAWINGS		
DRAWING	TITLE	REVISION
GENERAL		
C001	COVER SHEET - SITE LOCALITY AND SCHEDULE OF DRAWINGS	5
C002	GENERAL NOTES & LEGEND	3
C040	EXISTING SITE LAYOUT AND SURVEY CONTROL PLAN	3
CIVIL WORKS		
C100	PROPOSED CUT - FILL & SITE REGRADING PLAN	5
C110	PROPOSED SITE REGRADING SECTIONS A & B	5
C111	PROPOSED SITE REGRADING SECTION C	5
C200	PLAN OF CIVIL WORKS	3
ROADWORKS		
C590	VEHICLE TURNING PATH PLAN - PASSENGER VEHICLE	5
EROSION AND SEDIMENT CONTROL		
C900	EROSION AND SEDIMENT CONTROL PLAN	5
C950	EROSION AND SEDIMENT CONTROL FIGURES	3
APPROVED ORIGINAL APPLICATION		
TP05	PROPOSED SITE, FACILITY & EQUIPMENT PLANS	-
S004-S007	PROPOSED STRUCTURAL PLAN	-
C001-C950	PENRITH PROPOSED BATTERY SITE APPROVED DA	-
DP01	PLAN OF SUBDIVISION OF LOT 5 IN DP 1017480	-



LOCALITY PLAN
SCALE 1:2000

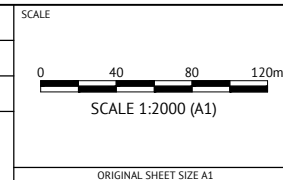
NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
28/03/22	5	ISSUED FOR COUNCIL APPROVAL - UPDATED CLIENTS DETAILS & REVIEW NOTES & LABELS	P.S.	M.Z.
24/03/22	4	ISSUED FOR COUNCIL APPROVAL - REVISED CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
16/03/22	3	ISSUED FOR COUNCIL APPROVAL - REVIEW CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
19/10/20	2	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.



ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED
P.T.T.
CHECKED
M.Z.
PROJECT MANAGER
P.H.



CLIENT
PENRITH SMART BATTERY PTY LTD

PROJECT
PENRITH BATTERY SITE

LOCATION
MUSEUM DRIVE, PENRITH

SHEET TITLE
COVER SHEET - SITE LOCALITY AND SCHEDULE OF DRAWINGS

JOB CODE 222069	
SHEET NUMBER C001	REV 5

G GENERAL

- G1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH DCP OF THE LOCAL AUTHORITY, TECHNICAL SPECIFICATIONS AND GUIDELINES ISSUED BY ROADS AND MARITIME SERVICES (RMS), AUSTRROADS STANDARDS, AUSTRALIAN STANDARD AND TO THE CITY ENGINEER'S SATISFACTION.
- G2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER WORKING DRAWINGS, SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- G3. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS. REDUCED LEVELS AND CHAINAGES ARE IN METERS. ALL OTHER DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN. SET OUT DIMENSIONS ON THE DRAWING SHALL BE VERIFIED BY THE CONTRACTOR ON SITE.
- G4. NO WORK WITHIN ADJOINING PROPERTIES TO BE UNDERTAKEN WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER.
- G5. NO DISTURBANCE TO THE SITE SHALL BE PERMITTED OTHER THAN IN THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM SITE WITHOUT APPROVAL FROM THE SUPERINTENDENT.
- G6. ALL DEBRIS, UNDERGROWTH AND FENCES TO BE REMOVED FROM PUBLIC RESERVE, DRAINAGE AND ROAD WIDENING AREAS TO THE SATISFACTION OF THE SUPERINTENDENT.
- G7. NO TREES TO BE DISTURBED OR REMOVED WITHOUT COUNCIL'S PERMISSION OR UNLESS OTHERWISE SHOWN ON THE PLAN.
- G8. THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS ONLY.
- G9. THE LOCATION OF RECOVERY MARKS AND BENCH MARKS SHOULD BE VERIFIED AND CONFIRMED BY THE CONTRACTOR AND DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH COUNCIL PRIOR TO COMMENCEMENT OF WORK.
- G10. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- G11. ALL MATERIALS AND WORKMANSHIP SHALL CONFIRM TO THE REQUIREMENTS OF THE RELEVANT AS CODES AND THE SPECIFICATION.
- G12. SAFETY OF THE GENERAL PUBLIC SHALL BE PROVIDED DURING THE CONSTRUCTION WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF TRAFFIC DURING THE COURSE OF WORKS INCLUDING BARRICADING WITHIN AND OUTSIDE THE SITE AS REQUIRED.
- G13. ALL MEASURES IN PUBLIC AREAS TO CONTROL OR DIVERT VEHICULAR PEDESTRIAN TRAFFIC IS TO BE COVERED BY A TRAFFIC CONTROL PLAN PREPARED BY AN AUTHORIZED PERSON & APPROVED BY COUNCIL. NO DETOURS SHOULD BE IN PLACE WITHOUT PRIOR APPROVAL OF COUNCIL.
- G14. IT IS CONTRACTOR'S RESPONSIBILITY TO ENSURE SAFE WORK PRACTICES ARE FOLLOWED AT ALL TIMES. WHS REGULATIONS AND WORK COVER REQUIREMENTS ARE TO BE COMPLIED WITH.
- G15. VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- G16. ALL MAJOR AND NON-STANDARD STRUCTURES TO BE SUPERVISED BY A PRACTICING QUALIFIED STRUCTURAL ENGINEER AND CERTIFICATION UPON COMPLETION. COPIES OF CERTIFICATION ARE TO BE PROVIDED TO COUNCIL.

S SERVICES

- S1. CONTRACTOR TO CONTACT "DIAL BEFORE DIG" ON TEL:1100 FOR PLAN INFORMATION ON UNDERGROUND PIPES AND CABLES, AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT OF WORK. USING THE PLANS & ON-SITE LOCATION MARKINGS AS AN INDICATION OF UTILITY SERVICES PRESENCE, HAND DIG TO EXPOSE ALL SERVICES WITHIN THE SAFE APPROACH DISTANCES. CONTRACTOR TO BE HELD RESPONSIBLE SHOULD THEY DAMAGE UTILITY PROPERTY.
- S2. ALL SERVICES AFFECTED BY NEW WORK TO BE ADJUSTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT SERVICE AUTHORITY AT CONTRACTOR'S EXPENSE UNTIL AND UNLESS IT IS SPECIFIED.
- S3. MAKE SMOOTH CONNECTION WITH ALL EXISTING ENGINEERING WORKS.
- S4. CONDUITS TO BE PLACED WHERE REQUIRED BY UTILITY AUTHORITIES, OTHER RELEVANT AUTHORITIES AND COUNCIL.
- S5. SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. THE RECORDS FROM RELEVANT UTILITY AUTHORITIES HAVE BEEN PLOTTED WHERE AVAILABLE AND HAVE BEEN NOTED ACCORDINGLY ON THIS PLAN. WHERE SUCH RECORDS EITHER DO NOT EXIST OR ARE INADEQUATE A NOTATION HAS BEEN MADE HEREON. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY MUST BE CONTACTED FOR POSSIBLE RELOCATION OF UNDERGROUND SERVICES.
- S6. ANY PROPOSED SERVICE CROSSING TO BE THRUST BORED UNDER EXISTING PAVEMENT UNLESS SPECIFIED BY THE SUPERINTENDENT, CONTRACTOR TO REPAIR ANY DAMAGE TO EXISTING SURFACE.

E EARTHWORKS

- E1. EXCAVATION SHALL BE CARRIED OUT TO THE DEPTHS & DIMENSIONS SHOWN OR IMPLIED ON THE PLANS AND/OR THE DOCUMENTS OR TO SUCH GREATER DEPTHS & DIMENSIONS, AS WILL ENSURE SOUND, PERMANENT FOUNDATIONS. ALL EXCAVATIONS SHALL BE APPROVED BY THE SUPERINTENDENT BEFORE ANY MATERIALS OR STRUCTURES ARE PLACED.
- E2. ALL EXCAVATION, SHORING OF EXCAVATION AND STABILITY OF ADJACENT STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- E3. TOPSOIL SHALL BE STRIPPED FROM WITHIN THE AREA OF WORKS INCLUSIVE OF BATTERS & STOCKPILED AS DIRECTED BY THE SUPERINTENDENT. THE THICKNESS OF THE TOPSOIL STRIPPING SHALL NOT BE LESS THAN 100MM.
- E4. ALL EXPOSED DELETERIOUS MATERIALS WHICH, IN THE OPINION OF THE SUPERINTENDENT, ARE UNSUITABLE FOR THE PLACING OF FILLING SHALL BE REMOVED & DISPOSED OFF. IF UNSOUND OR UNSUITABLE MATERIALS ENCOUNTERED AT THE SPECIFIED EXCAVATION LEVEL, ADDITIONAL EXCAVATION & REPLACEMENT WITH COMPACTED APPROVED MATERIAL MAY BE ORDERED.

- E5. WHERE FILLING IS REQUIRED, MATERIAL IS TO BE SELECTED IN DISCUSSION WITH AND TO THE SATISFACTION OF THE SUPERINTENDENT. ALL IMPORTED FILL MATERIAL SHALL BE VIRGIN EXCAVATED NATURAL MATERIAL FREE FROM CHEMICAL OR OTHER CONTAMINATION. A CONTAMINATION REPORT ON THE PROPOSED IMPORTED FILL MATERIAL, FROM A NATA REGISTERED LABORATORY, WILL BE REQUIRED BY COUNCIL PRIOR TO PLACEMENT OF FILL.
- E6. ALL FILL SHALL BE COMPACTED TO NOT LESS THAN 98% OF STANDARD MAXIMUM DRY DENSITY AT -1% TO +2% OF STANDARD OPTIMUM MOISTURE CONTENT (MAXIMUM FILL HORIZONS OF 150MM TO 200MM). ALL AREAS WHICH HAVE TEST RESULTS LESS THAN 98% STANDARD SHOULD BE REWORKED AND RETESTED TO ENSURE COMPLIANCE, IN ACCORDANCE WITH AS 1289.
- E7. TESTS SHALL BE UNDERTAKEN ON ANY PROPOSED FILL MATERIALS TO ENSURE THAT THEY DO NOT HAVE A HIGH DISPERSION POTENTIAL AS IDENTIFIED BY THE EMERSON CRUMB/DISPERSION TESTS (AS 1289)
- E8. ALL FILL AREAS TO BE SURVEYED AT STRIPPING AND FINAL STAGES AND LEVELS SHOWN ON PLANS, (TOGETHER WITH CROSS SECTIONS AT MAXIMUM 20M C/C) AT WORKS-AS-EXECUTED STAGE AND CONTROLLED BY A REGISTERED SURVEYOR.
- E9. ALL EARTHWORKS SHALL BE CONTROLLED AND CERTIFIED BY A NATA REGISTERED LABORATORY. TWO COLLATED COPIES OF ALL TEST CERTIFICATES, ACCOMPANIED BY AN OVERALL SITE PLAN, CLEARLY INDICATING THE LOCATION OF EACH TEST AND FILL AREAS ETC., AND THE LABORATORY CERTIFICATE COVERING THE WHOLE OF THE AREA TESTED ARE TO BE FORWARDED TO COUNCIL UPON COMPLETION. TESTING IS TO BE TO AS 3798.
- E10. KERB CORE SAMPLES TO AS1012 SHALL BE TAKEN BY NATA REGISTERED LABORATORY TWENTY EIGHT (28) DAYS AFTER LAYING. TWO COPIES OF TEST REPORTS SHALL BE FORWARDED TO COUNCIL.
- E11. PROVIDE PENNINSETUM CLANDESTINUM (KIKUYU) TURF ON 200MM THICK TOPSOIL, UNLESS NOTED OTHERWISE.
- E12. HYDROMULCH OR HYDROSEED ALL OTHER DISTURBED AREAS NOT COVERED BY E11. SPECIFICATIONS FOR HYDROMULCH OR HYDROSEED MUST BE DETERMINED BY THE SUPERINTENDENT.
- E13. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CARRIED OUT IN ACCORDANCE TO LOCAL AUTHORITY STANDARD DRAWING.
- E14. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY, AND TO THE SATISFACTION OF THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION. MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL IS TO BE UNDERTAKEN BY THE CONTRACTOR ON REGULAR BASIS OR AS DIRECTED BY THE SUPERINTENDENT.

C CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS TO CONFIRM TO THE REQUIREMENT OF AS 3600. FORMWORKS ARE TO BE IN ACCORDANCE WITH AS 3610.
- C2. ALL FORMS SHALL BE DESIGNED SUCH THAT EXPOSED CONCRETE EDGED SHALL HAVE A MINIMUM OF 15MM CHAMFER AND ALL EXPOSED RE-ENTRANT CORNERS SHALL HAVE A MINIMUM OF 15MM FILLET UNLESS NOTED OTHERWISE.

SR STEEL REINFORCEMENT

- SR1. REINFORCEMENT SHALL COMPLY TO AS 1303, AS 4100 AND AS/NZS 4671.
- SR2. GRADE AND DIAMETER DESIGNATION:

REINF. TYPE	GRADE	AS CODE	SYMBOL
DEFORMED BAR	D500	AS/NZS 4671	N
PLAIN ROUND BAR	R250	AS/NZS 4671	R
RECTANGULAR MESH		AS/NZS 4671	RL
SQUARE MESH		AS/NZS 4671	SL
TRENCH MESH		AS/NZS 4671	L TM

- SR3. DESIGNATION CODE:

GRADE	N-16 AT 150 TOP	SPACING (mm)
DIA (mm)		LOCATION

- SR4. COVER: CONCRETE COVER SHALL BE 50mm UNLESS NOTED OTHERWISE
- SR5. LAP LENGTH: WHERE LAPPING ONF REINFORCEMENT OCCURS, THE MINIMUM LAP LENGTH SHOULD BE AS FOLLOWS:

N12 - 400mm LAP
N16 - 600mm LAP
N20 - 850mm LAP
N24 - 1000mm LAP
FABRIC- 2 TRANSVERSE BARS+25mm

- SR6. ALL REINFORCEMENT SHALL BE SUPPORTED AT 800MM MAXIMUM CENTRES TO MAINTAIN THE NOMINATED POSITION AND COVER.

D DRAINAGE

- D1. PITS MORE THAN 1.2M DEEP TO HAVE IRON STEPS.
- D2. DRAINAGE PIPES SHALL BE BACKFILLED WITH TYPE HS3 SUPPORT MINIMUM SLOTTED AGRICULTURAL LINE SURROUNDED BY GEOTECH STOCKING AND CONNECTED TO ALL DOWNSTREAM AREAS.
- D3. DRAINAGE PIPE TYPES 225MM DIA AND SMALLER TO BE UPVC UNLESS OTHERWISE SPECIFIED.
- D4. ALL REINFORCED CONCRETE PIPES 300MM DIA & GREATER SHALL BE RUBBER RING JOINTED (OR SIMILAR) AND TO BE CONSTRUCTED IN ACCORDANCE WITH AS 4058.
- D5. REINFORCED CONCRETED PIPES UNDER ROADS TO BE CLASS '3' AND CLASS '2' IN NON-TRAFFICKED AREAS.
- D6. ALL GULLY PITS TO BE ACCORDING TO COUNCIL'S STANDARD DRAWING WITH CONTINUOUS HINGE ON GRATES WITH CYCLE PROOF GRATES UNLESS NOTED OTHERWISE - LINTELS CENTRALLY PLACED SAG PITS.
- D7. AGRICULTURAL LINES IN APPROVED GEOTECHNICAL STOCKING TO BE PLACED WHERE DIRECTED BY COUNCIL (GENERALLY UNDER KERB).
- D8. GUTTER SLOTS TO BE PROVIDED AT PITS AND AT REGULAR INTERVALS TO DRAIN TEMPORARY SEAL (ONLY WHERE TEMPORARY SEAL FINISHES BELOW LIP OF GUTTER).
- D9. TOP BENCHING TO BE HALF OF OUTLET PIPE DIAMETER.
- D10. ALL GRATE PITS TO BE FITTED WITH LOCK DOWN BOLTS TO COUNCIL/ MANUFACTURER STANDARD SPECIFICATION.

P PAVEMENTS

- P1. SUB-GRADE, SUB-BASE COURSE AND BASE TO BE COMPACTED AS PER AUSTRROADS /RMS SPECIFICATIONS.
- P2. PAVEMENT DETAILS GIVEN ON TYPICAL SECTION ARE NOMINAL PAVEMENT DEPTS AND ARE TO BE CONFIRMED WITH THE SUPERINTENDENT.
- P3. SUB-BASE AND BASE COURSE MATERIALS TO BE IN ACCORDANCE WITH AUSTRROADS AND RMS SPECIFICATIONS (SEE RMS QA SPECIFICATION 3051 OR LATEST).
- P4. ALL ROADS ARE TO BE TEMPORARILY SEALED AND ASPHALT TO BE OVERLAYED FOLLOWING COMPLETION OF ALL SERVICES AND RESTORATIONS OR AS DIRECTED BY SUPERINTENDENT.
- P5. FINAL PAVEMENT THICKNESS TO BE DETERMINED AFTER "BOXING OUT" BY JOINT INSPECTION BY NATA REGISTERED LABORATORY AND THE SUPERINTENDENT. TWO COPIES OF PAVEMENT REPORT MUST BE MADE AVAILABLE TO COUNCIL MINIMUM TWO (2) WORKING DAYS PRIOR TO INSPECTION.

E ENVIRONMENTAL

- E1. TO LIMIT DUST POLLUTION TO ADJOINING PROPERTIES, DUST SUPPRESSANTS ARE TO BE USED ON HAULAGE ROADS. IF THE PREVAILING WEATHER CONDITIONS CONTRIBUTE TO THE DUST POLLUTION AND IF IN THE OPINION OF THE SUPERINTENDENT, THE WORKS ARE REQUIRED TO BE CEASED, THE CONTRACTOR MUST STOP THE WORKS IMMEDIATELY.
- E2. NO VIBRATING ROLLERS TO BE USED IN THE VICINITY OF PROPERTIES. ALL THE PROPERTIES IN CLOSE PROXIMITY OF THE WORK SITE MUST BE INSPECTED PRIOR TO AND AFTER THE COMPLETION OF WORKS. A DELAPIDATION REPORT SHOULD BE SUBMITTED TO THE SUPERINTENDENT BEFORE COMMENCEMENT OF WORKS.
- E3. NO DISTURBANCE TO OCCUR TO THOSE PARTS OF THE SITE NOT DIRECTLY AFFECTED BY THE WORKS. NO EXCAVATION FILLING, DUMPING, BURNING OF TREE STUMPS, OR ANY OTHER ACTIVITY IS PERMITTED IN THESE AREAS. THE STATUS OF THE ENVIRONMENT & ECOLOGY MUST BE STRICTLY PRESERVED. DISTURBED AREAS MUST BE REINSTATED.

WAE WORKS-AS-EXECUTED (WAE) DRAWINGS

- WAE1. AFTER THE PRACTICAL COMPLETION OF THE WORKS, THE SUPERINTENDENT SHALL SUPPLY CONTRACTOR WITH ONE SET OF CONTRACT DRAWINGS FOR THE PURPOSE OF PREPARING WORKS-AS-EXECUTED DRAWINGS AND SUBMIT TO COUNCIL WITHIN ONE MONTH'S TIME.
- WAE2. THE SUPERINTENDENT WILL NOT ISSUE THE FINAL CERTIFICATE IF THE WORKS-AS-EXECUTED DRAWINGS HAVE NOT BEEN RECEIVED FROM THE CONTRACTOR.

LEGEND

DESCRIPTIONS	EXISTING	PROPOSED	FUTURE
150mm KERB & GUTTER	EXIST. K&G	K&G	FUT. K ERB
ROLL TYPE KERB	EXIST. RK	RK	FUT. K ERB
EDGE STRIP	EXIST. ES	ES	FUT. ES
KERB ONLY	EXIST. KERB	KO	FUT. K ERB
MOUNTABLE SF TYPE KERB	EXIST. SF	SF TYPE	FUT. K ERB
DISH CROSSING	EXIST. DC	DC	FUT. DC
VEHICULAR CROSSING	VC	VC	FUT. VC
KERB / PEDESTRIAN RAMP		PR	
EDGE OF BITUMEN	E.O.B.		
ROAD PAVEMENT	EXIST. PAVEMENT		FUT. PAVEMENT
PATH PAVING	EXIST. PATH	1.2M PATH PAVING	FUT. PATH
BATTERS /TOP & BOTTOM OF BANKS	T.O.B. B.O.B.		
SPOT LEVEL		x RL28.5	
CONTOURS	100.0	100.0	100.0
SITE REGRADING AREA		CUT FILL	
RETAINING WALL	EXIST. RW	RW1	FUT. RW
ROCK GABION WALL	EXIST. RW	ROCK WALL	FUT. RW
STORMWATER DRAINAGE PIPE	EXIST. Ø375 D	Ø375	FUT. PIPE
STORMWATER DRAINAGE PIT			
DRAINAGE LINES & PIT NUMBERS		1-01	
CONCRETE HEADWALL	D		
SUB-SOIL & FLUSH POINTS	SS	FP	SS
KERB OUTLETS	KO	KO	
PIPE CONNECTIONS/JUNCTIONS	D		
ACO GRATED DRAIN OR SIMILAR			
LIMIT OF WORKS		L.O.W.	
LIMIT OF STAGE			
LOT NUMBERS	DP1199011	10	
BOUNDARY			
FENCE	/ / /	/ / /	/ / /
BUILDING / STRUCTURES	BLD	10	
TREE			
SEWER & MANHOLES	MH	S	S
WATER / HYDRANTS & STOP VALVES	SV	W	W
ELECTRICITY / POWER & LIGHT POLES	PP	LP	E
GAS / GAS METERS	G	G	G
TELSTRA / FIBRE OPTIC / NBN	TW	TW	TW

DIAL 1100
BEFORE YOU DIG

NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
28/03/22	3	ISSUED FOR COUNCIL APPROVAL - UPDATED CLIENTS DETAILS & REVIEW NOTES & LABELS	P.S.	M.Z.
16/03/22	2	ISSUED FOR COUNCIL APPROVAL - REVISED CONCEPT WITH RAISED PLATFORM	PS	M.Z.
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.



ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED
P.T.T.
CHECKED
M.Z.
PROJECT MANAGER
P.H.

SCALE

ORIGINAL SHEET SIZE A1

CLIENT

PENRITH SMART BATTERY PTY LTD

JOB CODE

222069

PROJECT

PENRITH BATTERY SITE

LOCATION

MUSEUM DRIVE, PENRITH

SHEET TITLE

GENERAL NOTES & LEGEND

SHEET NUMBER

C002

REV

3



SCHEDULE OF LINES & ARCS

No.	BEARING	DIST.	ARC	RADIUS
1	199°38'25"	2.145	-	-
2	218°29'30"	5.29	5.35	10.43
3	218°05'30"	5.305	5.475	6.31

- (R) ~ RIGHT OF CARRIAGEWAY 6 WIDE AND VARIABLE WIDTH
- (C) ~ RIGHT OF CARRIAGEWAY VARIABLE WIDTH (Z304391)
- (D) ~ RIGHT OF CARRIAGEWAY 3 WIDE (Z304391)



NOTES:

1. ALL CO-ORDINATES ARE TO BE VERIFIED ON SITE BEFORE CONSTRUCTION.
2. ALL EXTERNAL SITE BOUNDARIES ARE TO BE MARKED BY A REGISTERED SURVEYOR PRIOR TO COMMENCING SITE WORKS.
3. VAC-EX SURVEY HAS NOT BEEN COMPLETED AND AS SUCH NOT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND LEVELLED, CONTRACTOR TO PROCEED WITH CAUTION.
4. CONTOURS SHOWN ARE NATURAL SURFACE CONTOURS
6. CONTOUR INTERVAL IS 0.1m

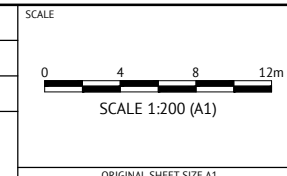
NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
28/03/22	3	ISSUED FOR COUNCIL APPROVAL - UPDATED CLIENTS DETAILS & REVIEW NOTES & LABELS	P.S.	M.Z.
16/03/22	2	ISSUED FOR COUNCIL APPROVAL - REVISED CONCEPT WITH RAISED PLATFORM	PS	M.Z.
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.



ORAN PARK OFFICE
 SUITE 301, LEVEL 3 ORAN PARK PODIUM
 351 ORAN PARK DRIVE
 ORAN PARK, NSW 2570
 PH: (02) 4632 6500
 WEB: www.premise.com.au

DESIGNED
P.T.T.
 CHECKED
M.Z.
 PROJECT MANAGER
P.H.



CLIENT
PENRITH SMART BATTERY PTY LTD

PROJECT
PENRITH BATTERY SITE

LOCATION
MUSEUM DRIVE, PENRITH

SHEET TITLE
EXISTING SITE LAYOUT AND SURVEY CONTROL PLAN

JOB CODE 222069	
SHEET NUMBER C040	REV 3



Surface Analysis: Elevation Ranges

Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Red	-0.344	-0.200
2	Orange	-0.200	-0.100
3	Yellow	-0.100	0.000

- LEGEND:
- EXISTING 33kV EXCLUSION ZONE
 - PROPOSED 11 kV CABLES 300mm² CU IN Ø100 CONDUITS BY OTHERS

CUT

NOTE: REFER DRAWING C002 FOR NOTES AND LEGEND.

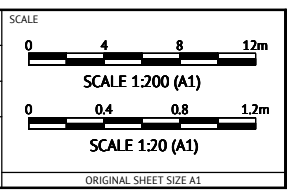
NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
28/03/22	5	ISSUED FOR COUNCIL APPROVAL - UPDATED CLIENTS DETAILS & REVIEW NOTES & LABELS	P.S.	M.Z.
24/03/22	4	ISSUED FOR COUNCIL APPROVAL - REVISED CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
16/03/22	3	ISSUED FOR COUNCIL APPROVAL - REVIEW CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
19/10/20	2	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.

Premise

ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED
P.T.T.
CHECKED
M.Z.
PROJECT MANAGER
P.H.



CLIENT
PENRITH SMART BATTERY PTY LTD

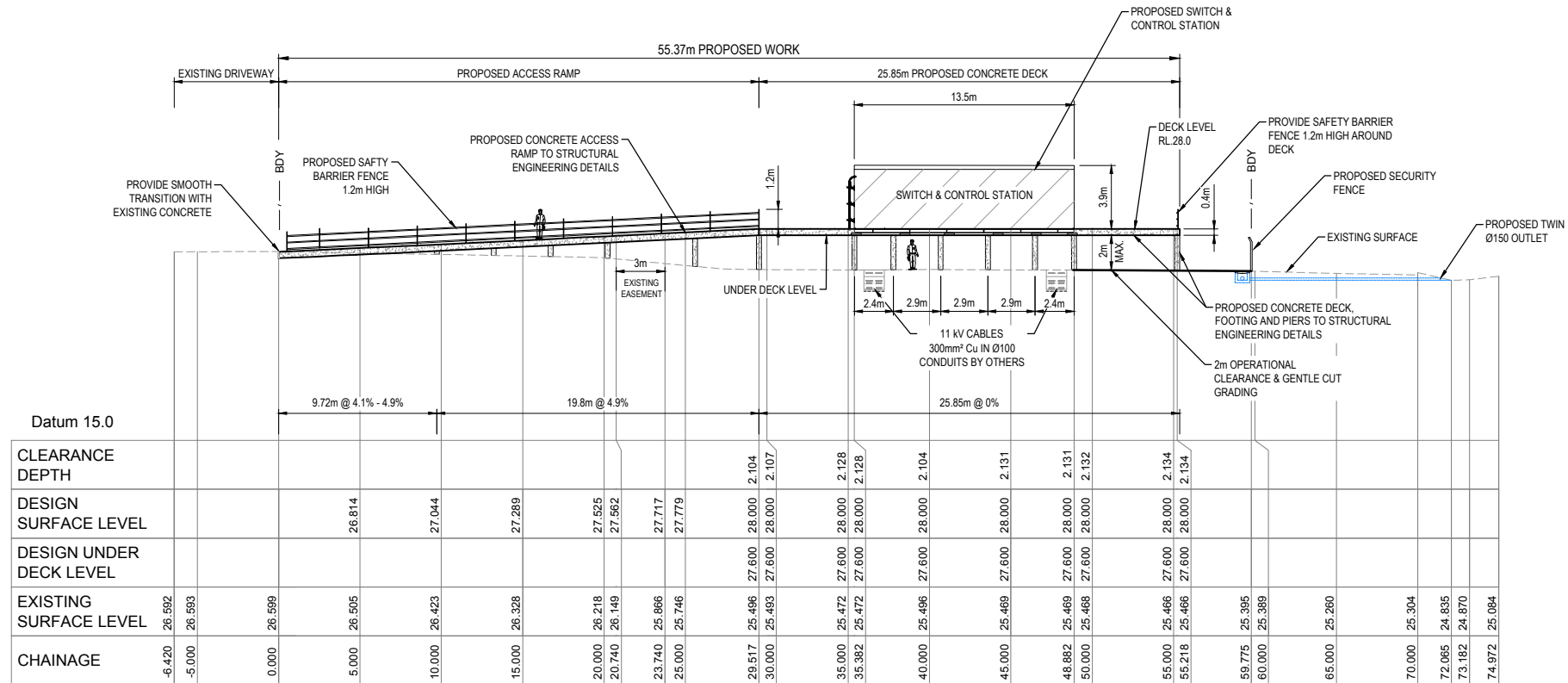
PROJECT
PENRITH BATTERY SITE

LOCATION
MUSEUM DRIVE, PENRITH

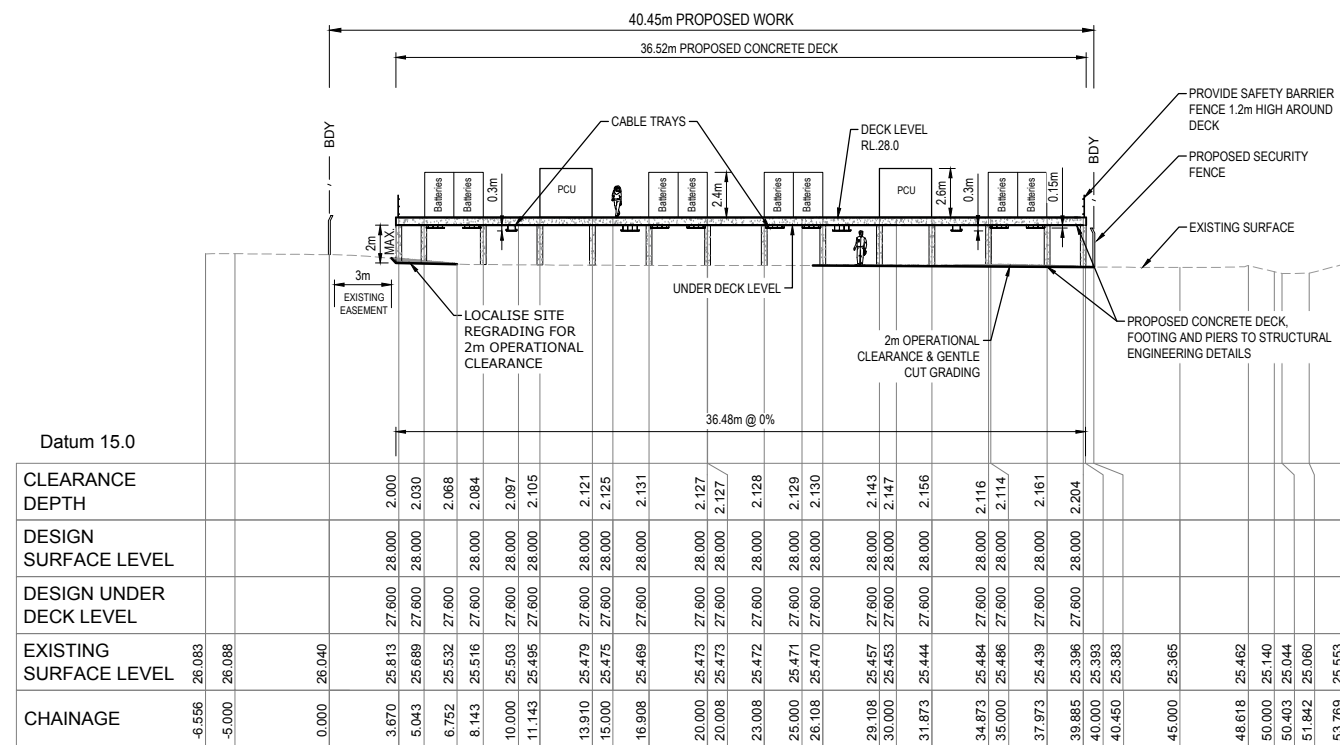
SHEET TITLE
PROPOSED CUT - FILL & SITE REGRADING PLAN

JOB CODE
222069

SHEET NUMBER	REV
C100	5



LONGITUDINAL SECTION - SECTION A
SCALE: H 1:200 1:200



LONGITUDINAL SECTION - SECTION B
SCALE: H 1:200 1:200

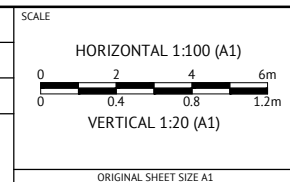
NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
28/03/22	5	ISSUED FOR COUNCIL APPROVAL - UPDATED CLIENTS DETAILS & REVIEW NOTES & LABELS	P.S.	M.Z.
24/03/22	4	ISSUED FOR COUNCIL APPROVAL - REVISED CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
16/03/22	3	ISSUED FOR COUNCIL APPROVAL - REVIEW CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
19/10/20	2	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.



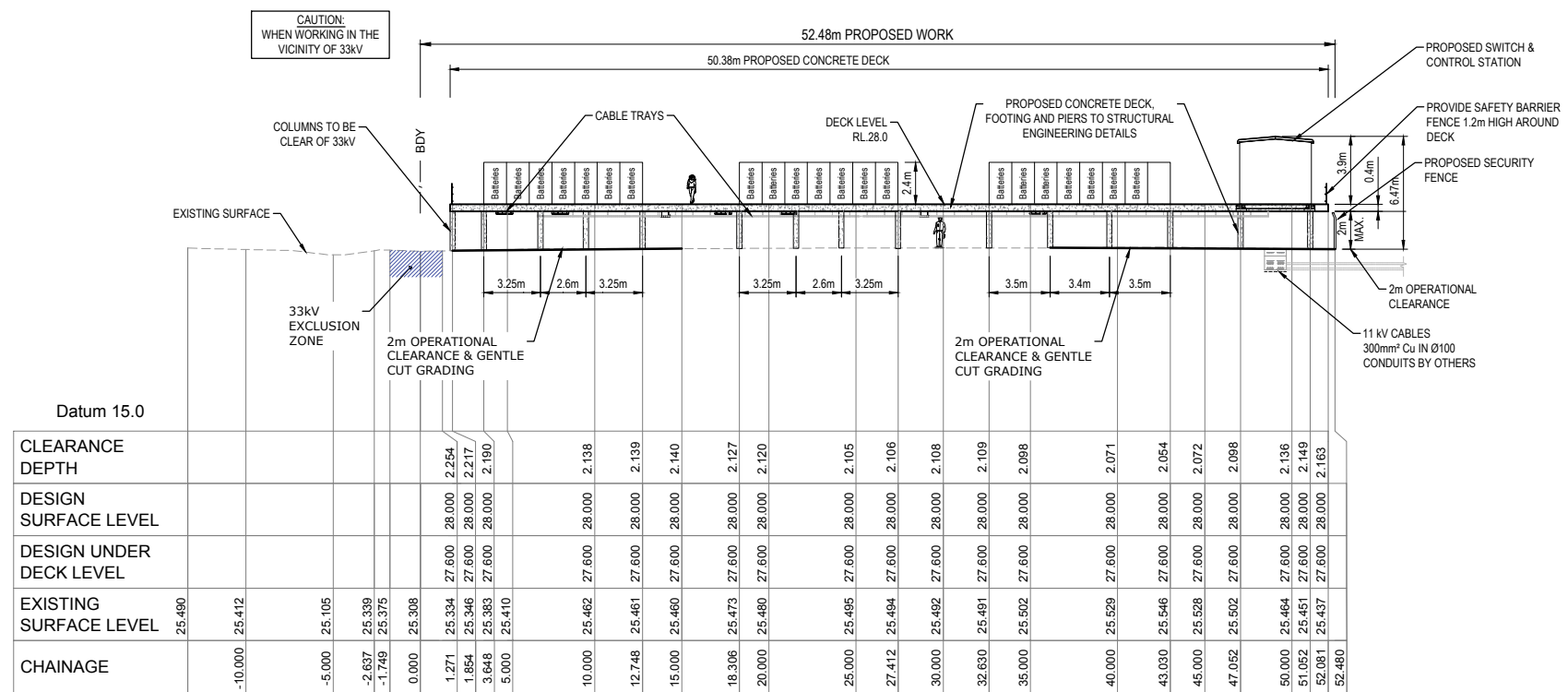
ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED	
CHECKED	
PROJECT MANAGER	



CLIENT	PENRITH SMART BATTERY PTY LTD
PROJECT	PENRITH BATTERY SITE
LOCATION	MUSEUM DRIVE, PENRITH
SHEET TITLE	PROPOSED SITE REGRADING SECTIONS A & B

JOB CODE	222069
SHEET NUMBER	C110
REV	5



LONGITUDINAL SECTION - SECTION C
SCALE: H 1:200 1:200

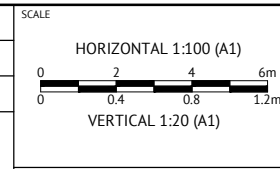
NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
28/03/22	5	ISSUED FOR COUNCIL APPROVAL - UPDATED CLIENTS DETAILS & REVIEW NOTES & LABELS	P.S.	M.Z.
24/03/22	4	ISSUED FOR COUNCIL APPROVAL - REVISED CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
16/03/22	3	ISSUED FOR COUNCIL APPROVAL - REVIEW CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
19/10/20	2	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.



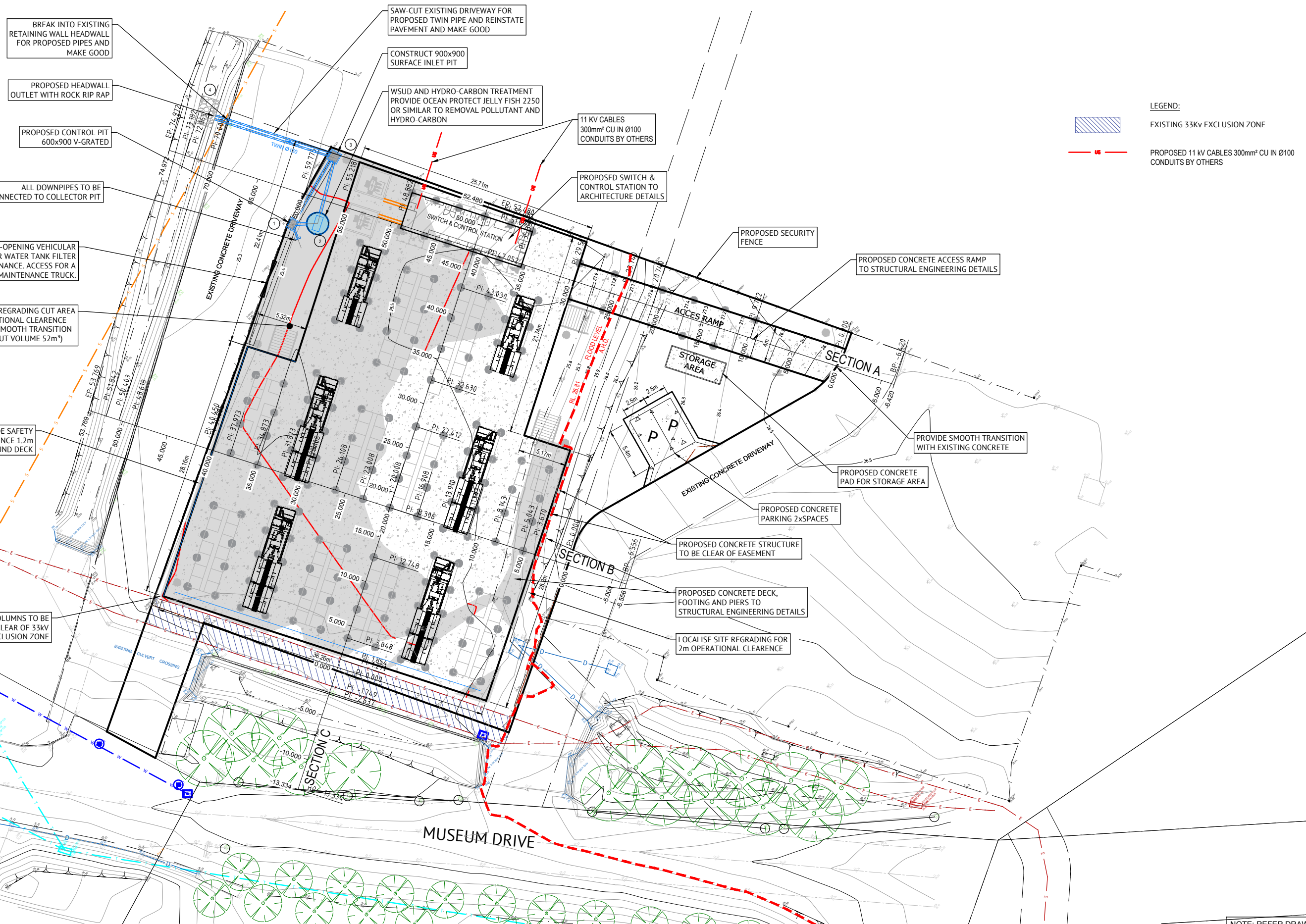
ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au



DESIGNED
CHECKED
PROJECT MANAGER



CLIENT	PENRITH SMART BATTERY PTY LTD
PROJECT	PENRITH BATTERY SITE
LOCATION	MUSEUM DRIVE, PENRITH
SHEET TITLE	PROPOSED SITE REGRADING SECTION C

JOB CODE	222069
SHEET NUMBER	C111
REV	5



LEGEND:
 EXISTING 33kV EXCLUSION ZONE
 PROPOSED 11 kV CABLES 300mm² CU IN Ø100 CONDUITS BY OTHERS

BREAK INTO EXISTING RETAINING WALL HEADWALL FOR PROPOSED PIPES AND MAKE GOOD

PROPOSED HEADWALL OUTLET WITH ROCK RIP RAP

PROPOSED CONTROL PIT 600x900 V-GRATED

ALL DOWNPIPES TO BE CONNECTED TO COLLECTOR PIT

4m MANUAL-OPENING VEHICULAR DOOR FOR WATER TANK FILTER MAINTENANCE. ACCESS FOR A MAINTENANCE TRUCK.

LOCALISE SITE REGRADING CUT AREA FOR 2m OPERATIONAL CLEARANCE AND PROVIDE SMOOTH TRANSITION TO EXISTING (CUT VOLUME 52m³)

PROVIDE SAFETY BARRIER FENCE 1.2m HIGH AROUND DECK

CAUTION: WHEN WORKING IN THE VICINITY OF 33kV's

COLUMNS TO BE CLEAR OF 33kV EXCLUSION ZONE

SAW-CUT EXISTING DRIVEWAY FOR PROPOSED TWIN PIPE AND REINSTATE PAVEMENT AND MAKE GOOD

CONSTRUCT 900x900 SURFACE INLET PIT

WSUD AND HYDRO-CARBON TREATMENT PROVIDE OCEAN PROTECT JELLY FISH 2250 OR SIMILAR TO REMOVAL POLLUTANT AND HYDRO-CARBON

11 kV CABLES 300mm² CU IN Ø100 CONDUITS BY OTHERS

PROPOSED SWITCH & CONTROL STATION TO ARCHITECTURE DETAILS

PROPOSED SECURITY FENCE

PROPOSED CONCRETE ACCESS RAMP TO STRUCTURAL ENGINEERING DETAILS

STORAGE AREA

SECTION A

PROVIDE SMOOTH TRANSITION WITH EXISTING CONCRETE

PROPOSED CONCRETE PAD FOR STORAGE AREA

PROPOSED CONCRETE PARKING 2xSPACES

PROPOSED CONCRETE STRUCTURE TO BE CLEAR OF EASEMENT

PROPOSED CONCRETE DECK, FOOTING AND PIERS TO STRUCTURAL ENGINEERING DETAILS

LOCALISE SITE REGRADING FOR 2m OPERATIONAL CLEARANCE

MUSEUM DRIVE

NOTE: REFER DRAWING C002 FOR NOTES AND LEGEND.

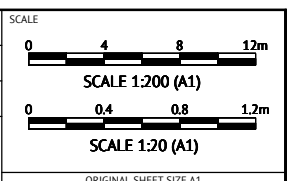
NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
28/03/22	3	ISSUED FOR COUNCIL APPROVAL - UPDATED CLIENTS DETAILS & REVIEW NOTES & LABELS	P.S.	M.Z.
24/03/22	2	ISSUED FOR COUNCIL APPROVAL - REVISED CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
16/03/22	1	ISSUED FOR COUNCIL APPROVAL - REVIEW CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.

ORAN PARK OFFICE
 SUITE 301, LEVEL 3 ORAN PARK PODIUM
 351 ORAN PARK DRIVE
 ORAN PARK, NSW 2570
 PH: (02) 4632 6500
 WEB: www.premise.com.au



DESIGNED P.S.
CHECKED M.Z.
PROJECT MANAGER P.H.

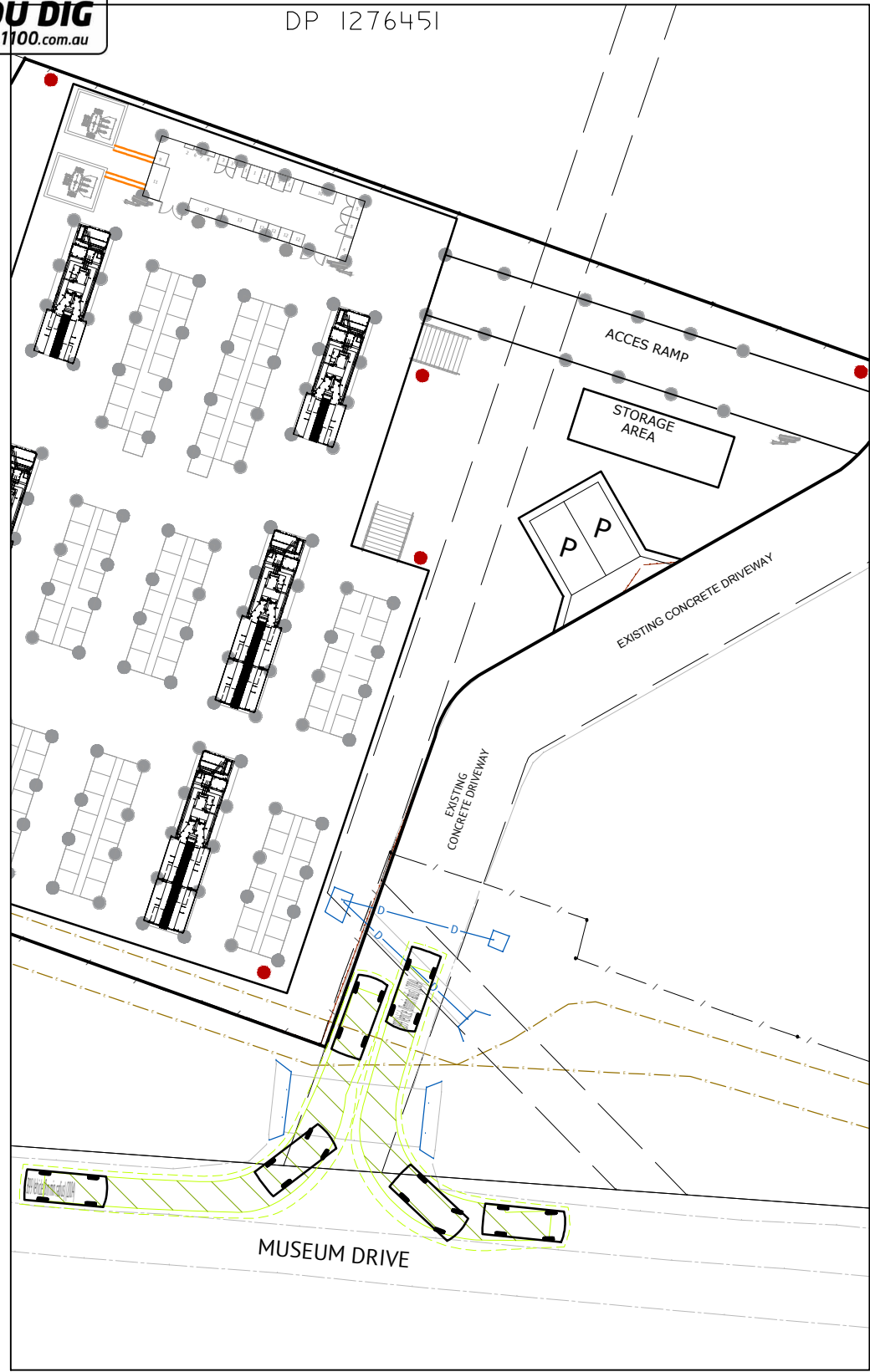


CLIENT	PENRITH SMART BATTERY PTY LTD
PROJECT	PENRITH BATTERY SITE
LOCATION	MUSEUM DRIVE, PENRITH
SHEET TITLE	PLAN OF CIVIL WORKS

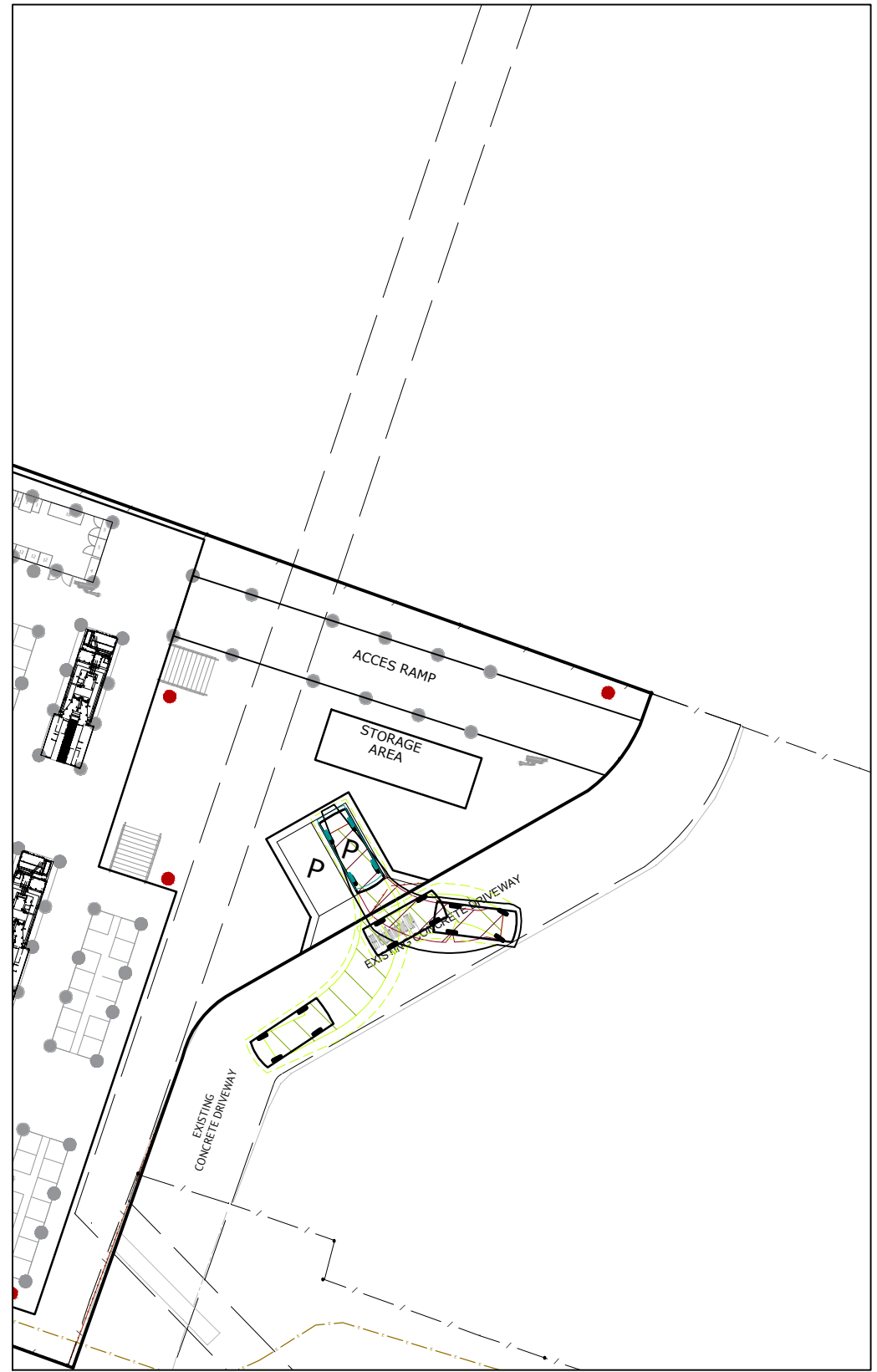
JOB CODE	222069
SHEET NUMBER	C200
REV	3



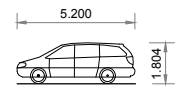
DP 1276451



PLAN 1 - ENTRY EXIT DRIVEWAY



PLAN 2 - TURNING PATH - PARKING AREA



Passenger vehicle (5.2 m):
(n.i.s.)
Overall Length 5.200m
Overall Width 1.940m
Overall Body Height 1.804m
Min Body Ground Clearance 0.295m
Track Width 1.640m
Turning Circle 12.600m

DESIGN VEHICLE

NOTES:

- 1. REFER TO ARCHITECTURAL AND LANDSCAPE PLANS FOR PROPOSED BIN PAD LOCATION.

NOTE: REFER DRAWING C002 FOR NOTES AND LEGEND.

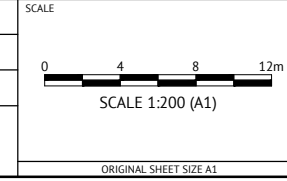
NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
28/03/22	5	ISSUED FOR COUNCIL APPROVAL - UPDATED CLIENTS DETAILS & REVIEW NOTES & LABELS	P.S.	M.Z.
24/03/22	4	ISSUED FOR COUNCIL APPROVAL - REVISED CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
16/03/22	3	ISSUED FOR COUNCIL APPROVAL - REVIEW CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
19/10/20	2	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.



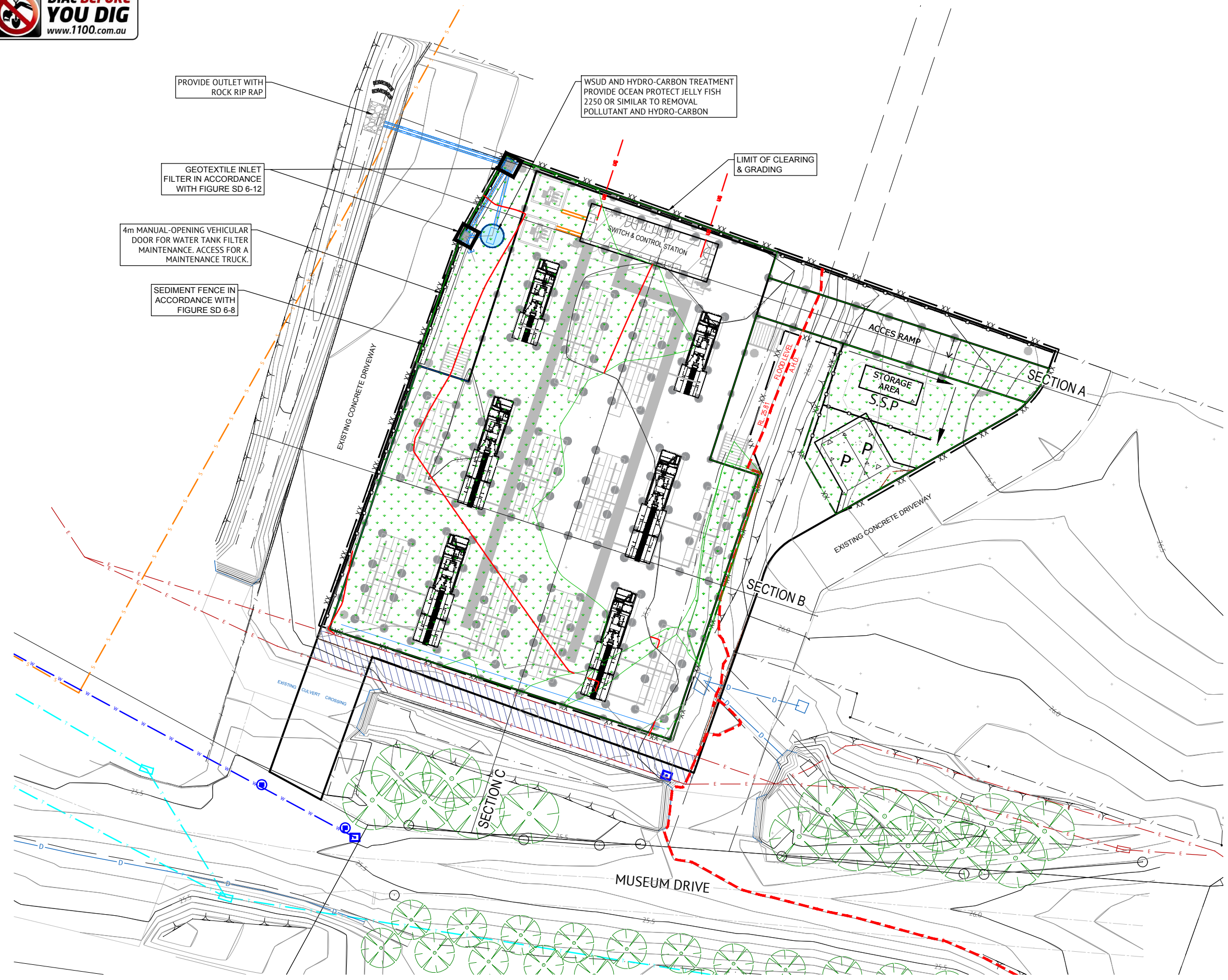
ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED	P.T.T.
CHECKED	M.Z.
PROJECT MANAGER	P.H.



CLIENT	PENRITH SMART BATTERY PTY LTD
PROJECT	PENRITH BATTERY SITE
LOCATION	MUSEUM DRIVE, PENRITH
SHEET TITLE	VEHICLE TURNING PATH PLAN - PASSENGER VEHICLE

JOB CODE	222069
SHEET NUMBER	C590
REV	5



PROVIDE OUTLET WITH ROCK RIP RAP

GEOTEXTILE INLET FILTER IN ACCORDANCE WITH FIGURE SD 6-12

4m MANUAL-OPENING VEHICULAR DOOR FOR WATER TANK FILTER MAINTENANCE. ACCESS FOR A MAINTENANCE TRUCK.

SEDIMENT FENCE IN ACCORDANCE WITH FIGURE SD 6-8

WSUD AND HYDRO-CARBON TREATMENT PROVIDE OCEAN PROTECT JELLY FISH 2250 OR SIMILAR TO REMOVAL POLLUTANT AND HYDRO-CARBON

LIMIT OF CLEARING & GRADING

NOTES:
REFER EROSION & SEDIMENT CONTROL FIGURES SHEET C950

- LEGEND**
- XX — LIMIT OF CLEARING & GRADING
 - O — SEDIMENT FENCE IN ACCORDANCE WITH FIGURE SD 6-8 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - S.S.P. SOIL STOCKPILE IN ACCORDANCE WITH FIGURE SD 4-1 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - STABILISED SITE ACCESS IN ACCORDANCE WITH FIGURE SD 6-14 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - STRAW BALE IN ACCORDANCE WITH FIGURE SD 6-7 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - MESH AND GRAVAL INLET FILTER IN ACCORDANCE WITH FIGURE SD 6-11 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - GEOTEXTILE INLET FILTER IN ACCORDANCE WITH FIGURE SD 6-12 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - EARTH BANK IN ACCORDANCE WITH FIGURE SD 5-5 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - ROCK RIP RAP
 - DISTURBED AREA

NOTE: REFER DRAWING C002 FOR NOTES AND LEGEND.

NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
28/03/22	5	ISSUED FOR COUNCIL APPROVAL - UPDATED CLIENTS DETAILS & REVIEW NOTES & LABELS	P.S.	M.Z.
24/03/22	4	ISSUED FOR COUNCIL APPROVAL - REVISED CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
16/03/22	3	ISSUED FOR COUNCIL APPROVAL - REVIEW CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
19/10/20	2	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.

Premise

ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED P.T.T.
CHECKED M.Z.
PROJECT MANAGER P.H.

SCALE
0 4 8 12m
SCALE 1:200 (A1)
ORIGINAL SHEET SIZE A1

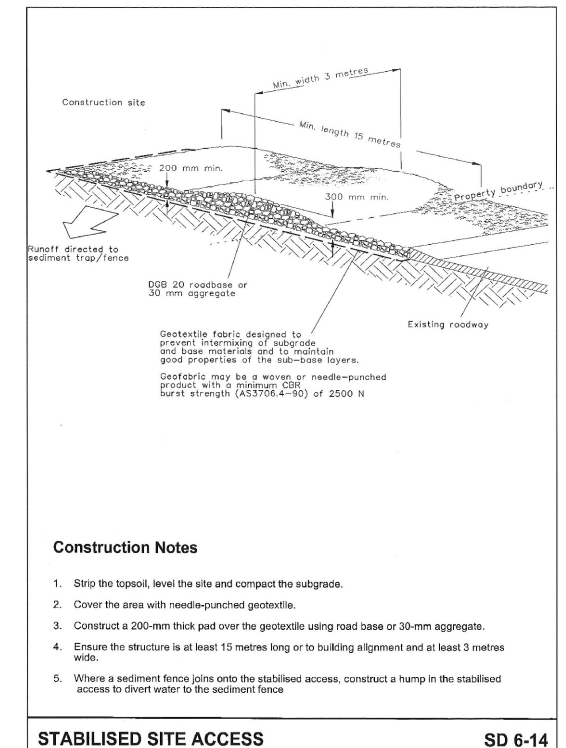
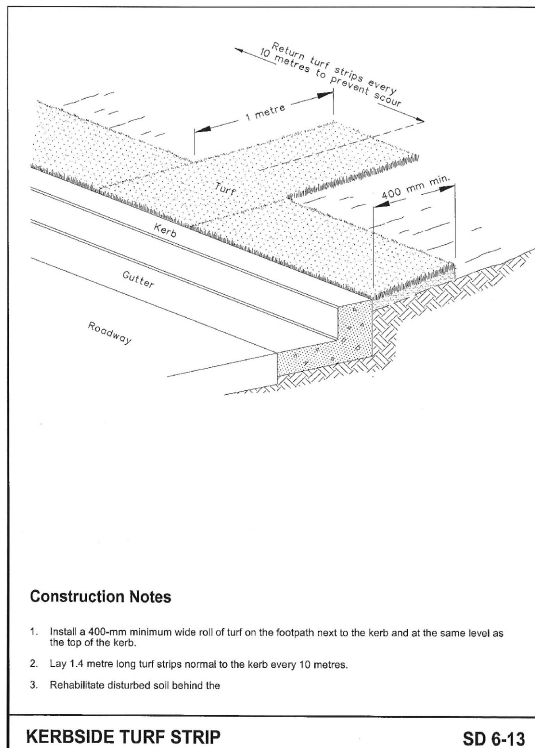
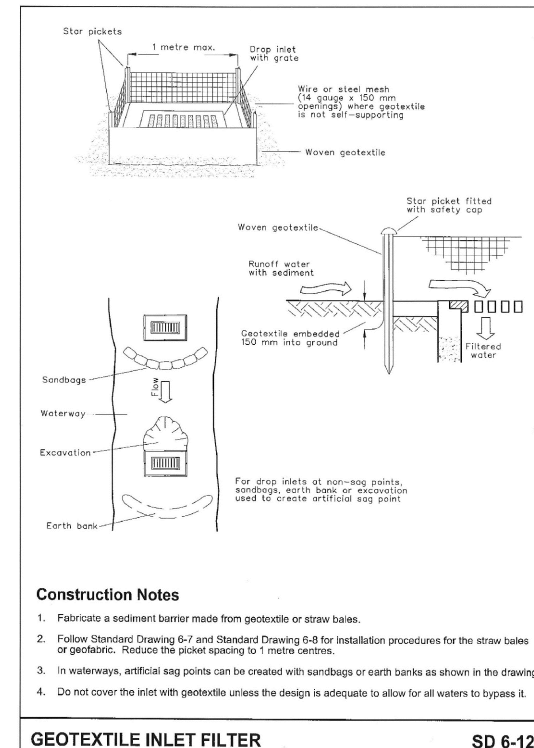
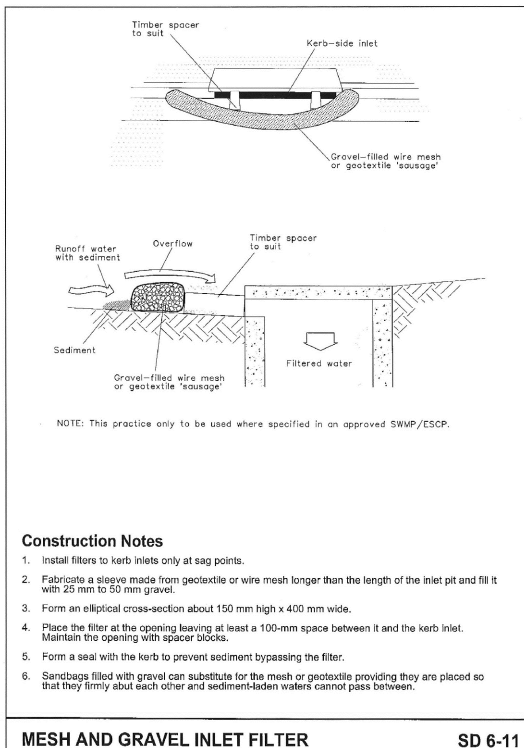
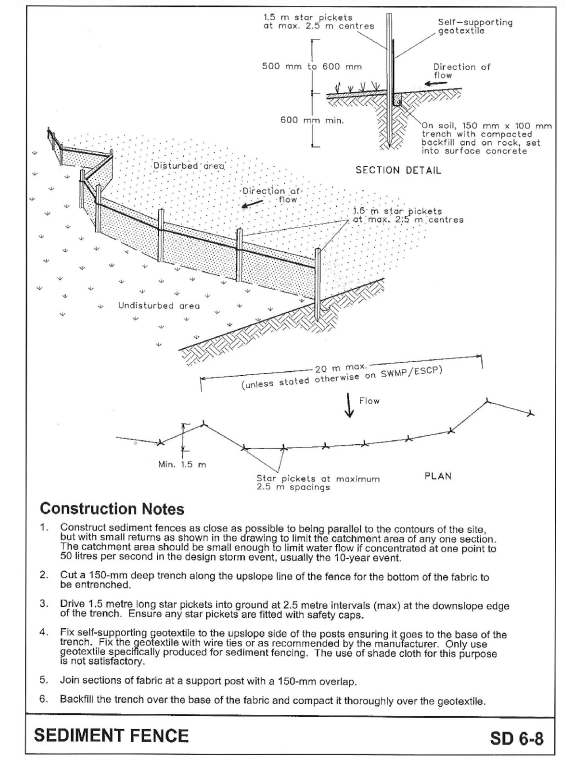
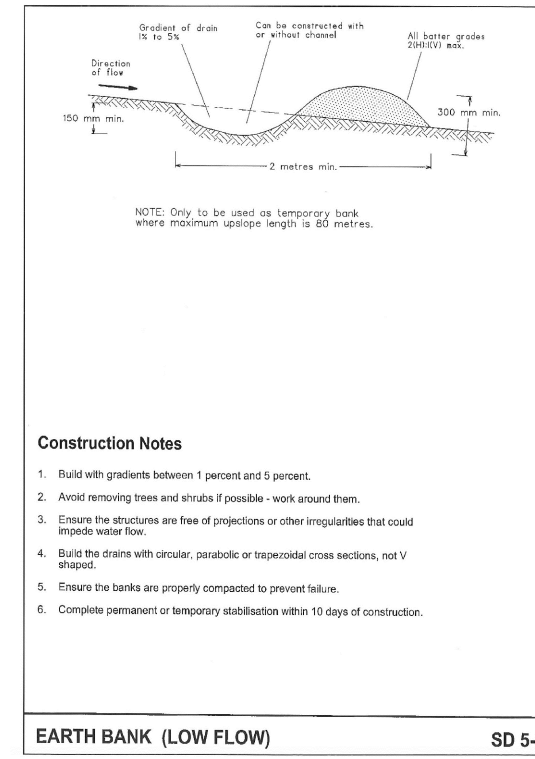
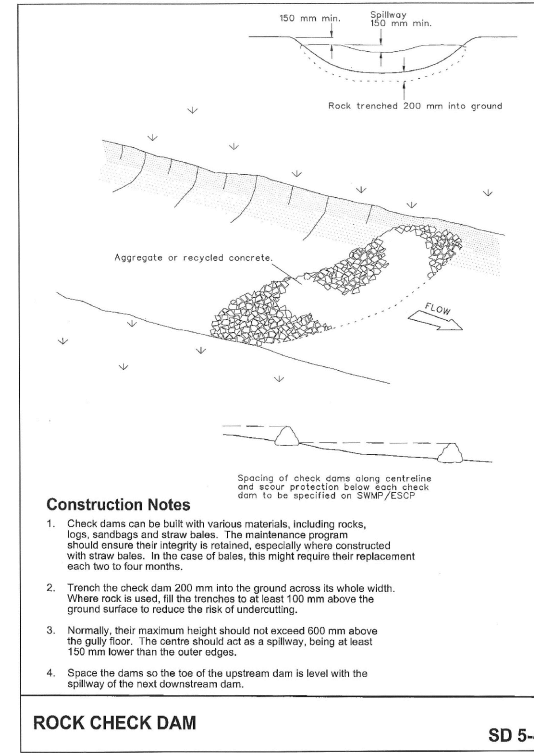
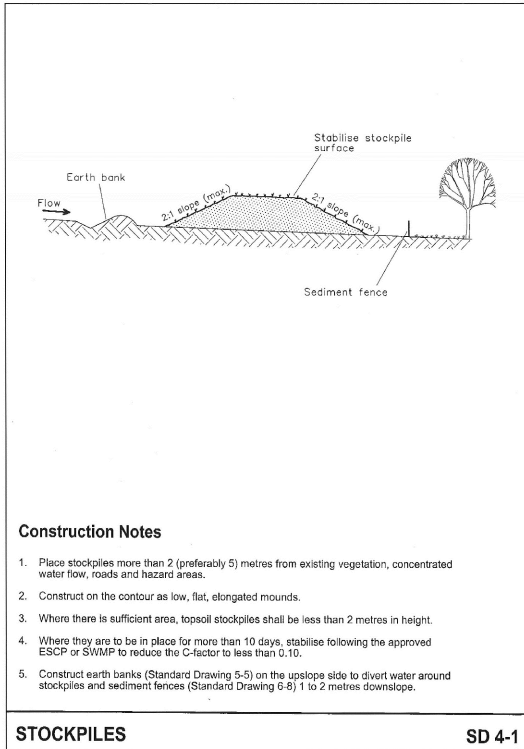
CLIENT PENRITH SMART BATTERY PTY LTD

PROJECT PENRITH BATTERY SITE

LOCATION MUSEUM DRIVE, PENRITH

SHEET TITLE EROSION AND SEDIMENT CONTROL PLAN

JOB CODE	222069
SHEET NUMBER	C900
REV	5



NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
28/03/22	3	ISSUED FOR COUNCIL APPROVAL - UPDATED CLIENTS DETAILS & REVIEW NOTES & LABELS	P.S.	M.Z.
16/03/22	2	ISSUED FOR COUNCIL APPROVAL - REVISED CONCEPT WITH RAISED PLATFORM	P.S.	M.Z.
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.

Premise

ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED P.T.T.	SCALE
CHECKED M.Z.	
PROJECT MANAGER P.H.	
ORIGINAL SHEET SIZE A1	

CLIENT	PENRITH SMART BATTERY PTY LTD
PROJECT	PENRITH BATTERY SITE
LOCATION	MUSEUM DRIVE, PENRITH
SHEET TITLE	EROSION AND SEDIMENT CONTROL FIGURES

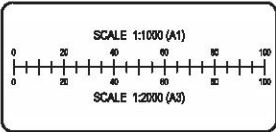
JOB CODE	222069
SHEET NUMBER	C950
REV	3

This plan / document relates to Development Consent: **DA2010360**

Subject to the conditions outlined in the consent



REV	DATE	DTD	DES	APPR	DETAILS
A	11/06/20	GT	-	DW	DRAFT
B	18/06/20	GT	-	DW	ISSUED FOR APPROVAL
C	15/08/20	GT	-	DW	ISSUED FOR APPROVAL
D	22/08/20	GT	-	DW	ISSUED FOR APPROVAL EQUIPMENT UPDATED
E	28/09/21	GT	-	DW	ISSUED FOR APPROVAL LAYOUT UPDATED AS PER LATEST EQUIPMENT



CERTIFIED

PROJECT: BATTERY ENERGY STORAGE SYSTEM (BESS)
MUSEUM DRIVE, PENRITH NSW

CLIENT: FIRM POWER

APPROVAL AUTHORITY: PENRITH CITY COUNCIL

STRUCTURAL, CIVIL, PLANNING, SURVEYING, ARCHITECTURE & ENVIRONMENTAL

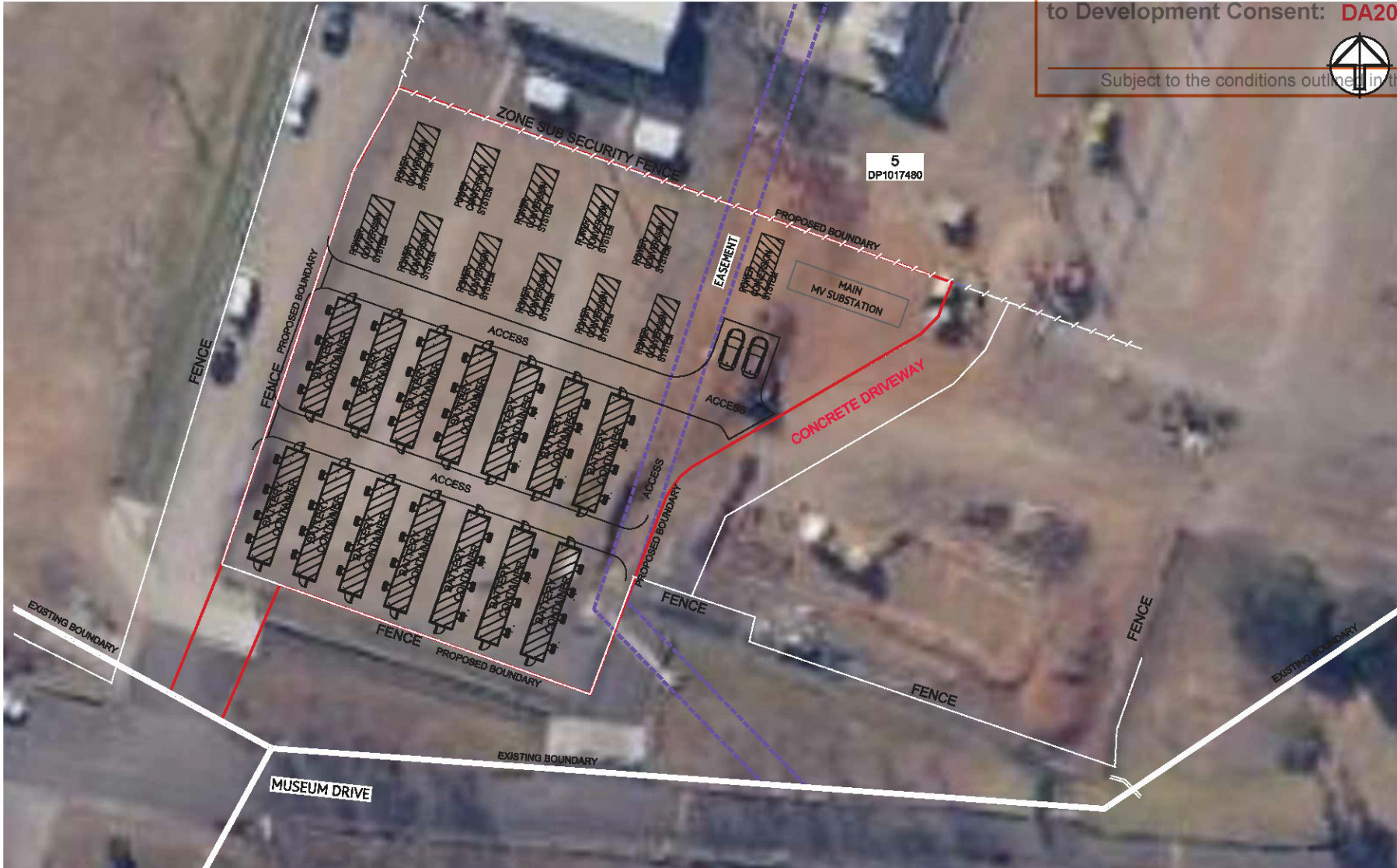
154 PEBBLEY STREET
P.O. BOX 1063
GRANGE NSW 2040
Ph: (02) 6360 9000
Fx: (02) 6360 9000
www.premise.com.au

DRAWING			PROPOSED SITE PLAN
PROJECT NUMBER	220040	DRAWING FILE	220040_016-TP01-TP06.dwg
STATUS FOR REVIEW		SHEET	TP01 DF TP05
		DATUM	A.H.D.
		SIZE	A1
		SET	01E

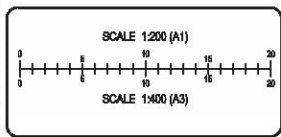
This plan / document relates to Development Consent: **DA20/0360**



Subject to the conditions outlined in the consent



REV	DATE	BY	CHK	APPV	DETAILS
A	15/06/20	GT	-	DW	DRAFT
B	18/06/20	GT	-	DW	ISSUED FOR APPROVAL
C	18/06/20	GT	-	DW	ISSUED FOR APPROVAL
D	22/06/20	GT	-	DW	ISSUED FOR APPROVAL EQUIPMENT UPDATED
E	28/07/21	GT	-	DW	ISSUED FOR APPROVAL LAYOUT UPDATED AS PER LATEST EQUIPMENT



CERTIFIED

PROJECT	BATTERY ENERGY STORAGE SYSTEM (BESS) MUSEUM DRIVE, PENRITH NSW
CLIENT	FIRM POWER
APPROVAL AUTHORITY	PENRITH CITY COUNCIL

STRUCTURAL, CIVIL, PLANNING, SURVEYING, ARCHITECTURE & ENVIRONMENTAL

154 PESSLEY STREET
P.O. BOX 1983
ORANGE NSW 2800
Ph: (02) 6360 9000
Fx: (02) 6360 9050
www.premise.com.au

PROPOSED BESS FACILITY PLAN			
PROJECT NUMBER	220040	DRAWING FILE	220040_01-TP01-TP04.dwg
DATE			A.H.D.
STATUS FOR REVIEW			SHEET TPO DF TPO5
SIZE			A1
SET			01E



UP TO 15m LONG x 4m WIDE BATTERY CONTAINER - SIDE VIEW

NOT TO SCALE

NOTE: MV SKIDS & BATTERY CONTAINERS MAY BE RAISED UP TO 1.5m ABOVE NGL



BATTERY CONTAINER - END VIEW

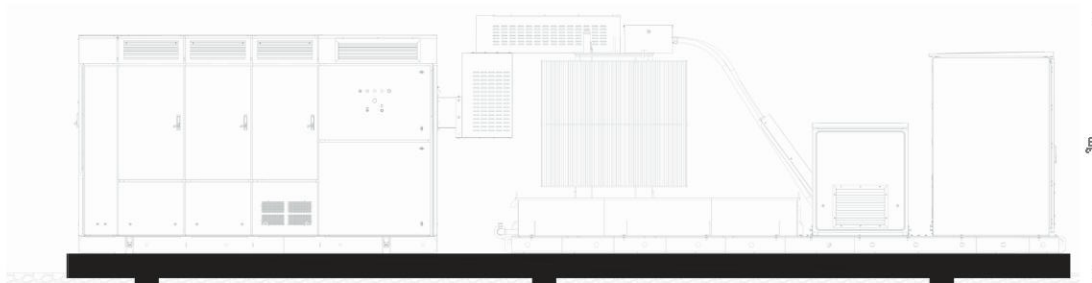
NOT TO SCALE

PENRITH CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to Development Consent: **DA20/0360**

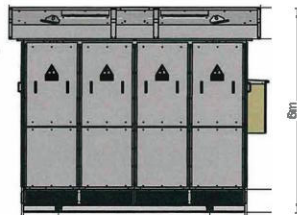
Subject to the conditions outlined in the consent



UP TO 15m LONG x 4m WIDE POWER CONVERSION SYSTEM WIDE VIEW

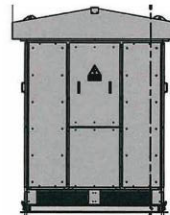
NOT TO SCALE

NOTE: MV SKIDS & BATTERY CONTAINERS MAY BE RAISED UP TO 1.5m ABOVE NGL



UP TO 5m LONG x 4m WIDE FILTER - SIDE VIEW

NOT TO SCALE



FILTER - END VIEW

NOT TO SCALE

REV	DATE	QTD	DES	APPR	DETAILS
A	16/06/20	GT	-	DW	DRAFT
B	18/06/20	GT	-	DW	ISSUED FOR APPROVAL
C	18/06/20	GT	-	DW	ISSUED FOR APPROVAL
D	22/06/20	GT	-	DW	ISSUED FOR APPROVAL-EQUIPMENT UPDATED
E	28/07/21	GT	-	DW	ISSUED FOR APPROVAL-LAYOUT UPDATED AS PER LATEST EQUIPMENT

REFER TO INDIVIDUAL DRAWING/SECTION SCALES

CERTIFIED

PROJECT	BATTERY ENERGY STORAGE SYSTEM (BESS) MUSEUM DRIVE, PENRITH NSW
CLIENT	FIRM POWER
APPROVAL AUTHORITY	PENRITH CITY COUNCIL

STRUCTURAL, CIVIL, PLANNING, SURVEYING, ARCHITECTURE & ENVIRONMENTAL

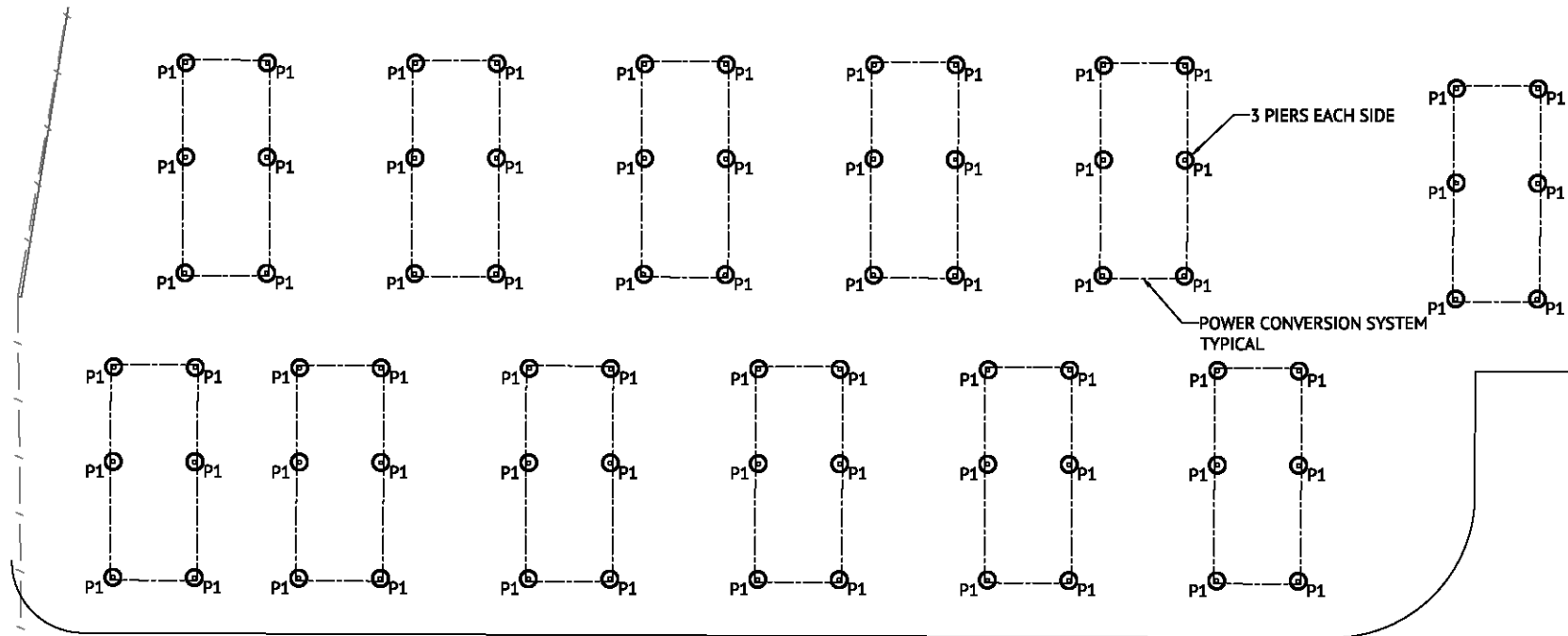


154 PEBBLEY STREET
P.O. BOX 1063
GRANGE NSW 2040
Ph: (02) 8360 9000
Fx: (02) 8360 9050
www.premise.com.au

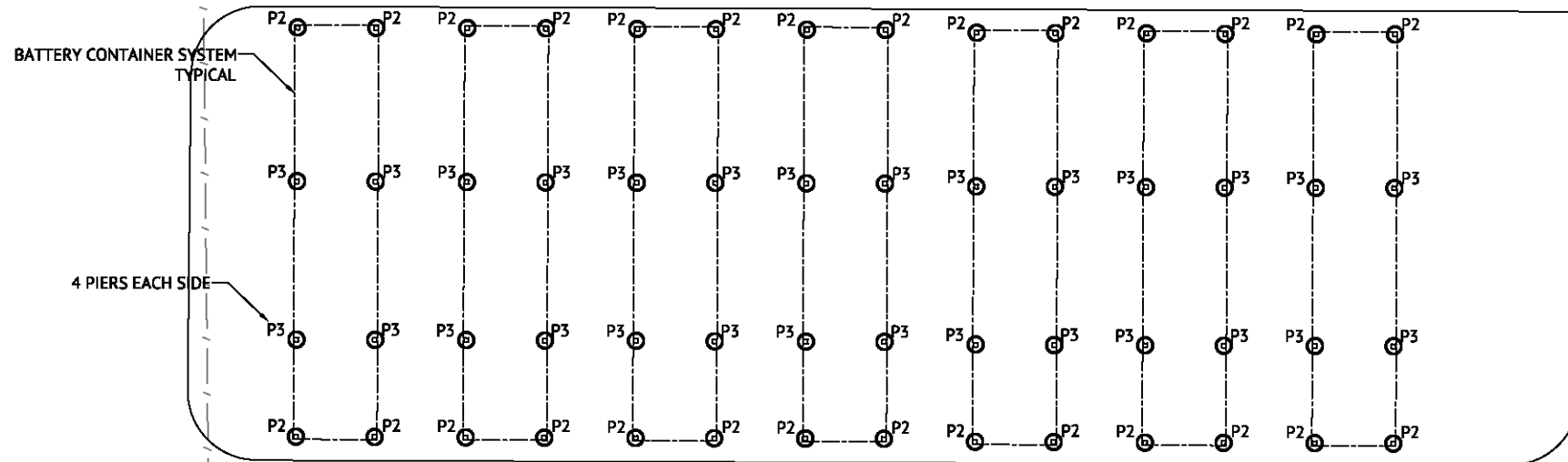
DRAWING PROPOSED FACILITY EQUIPMENT			
PROJECT NUMBER	220040	DRAWING FILE	220040_016-TP01-TP04.dwg
STATUS FOR REVIEW			SHEET TPO DF TPO5
DATE/A.H.D.			01E



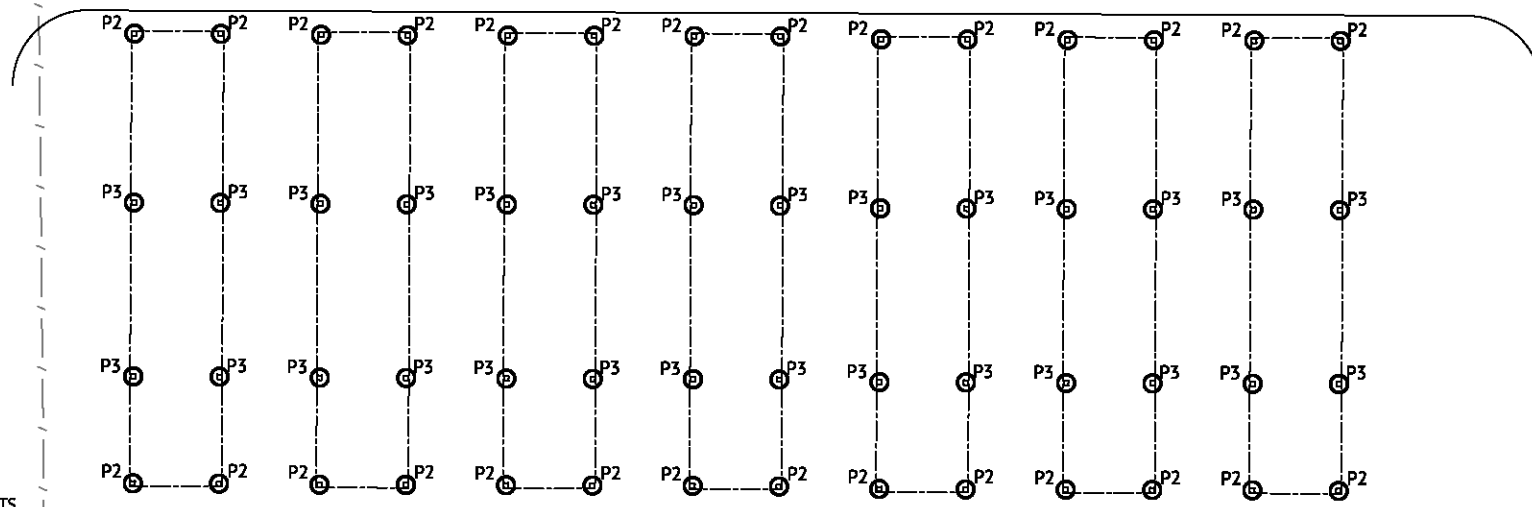
MAIN
MV SUBSTATION



GRAVEL ACCESS



GRAVEL ACCESS



PENRITH CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to Development Consent: **DA20/0360**

Subject to the conditions outlined in the consent

FOOTING PLAN
SCALE 1:100 (A1)
SCALE 1:200 (A3)

NOTE

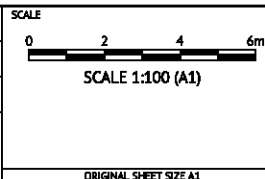
- THE PIERS HAVE BEEN DESIGNED BASED UPON ASSUMED GEOTECHNICAL PARAMETERS. SMALLER PIERS MAY BE POSSIBLE SHOULD SITE SPECIFIC GEOTECHNICAL INVESTIGATION RETURN DIFFERENT RESULTS.

PRELIMINARY ISSUE ONLY				
DATE	REV	DESCRIPTION	REC	APP
04/02/2021	C	REVISED ISSUE-MATCHING CIVIL DWG SET	GT	
13/01/2021	B	REVISED PRELIMINARY ISSUE	PB	
21/12/2020	A	PRELIMINARY ISSUE ONLY	GT	



ORANGE OFFICE
154 PEISLEY STREET
ORANGE, NSW 2800
PH: (02) 6393 5000
WEB: www.premise.com.au

DESIGNED
L. WALTON
CHECKED
C. MATHESON
PROJECT MANAGER
D. WALKER
ENGINEERING CERTIFICATION



CLIENT **FIRM POWER**

PROJECT **BATTERY ENERGY STORAGE SYSTEM**

LOCATION **MUSEUM DRIVE, PENRITH**

SHEET TITLE **FOOTING PLAN**

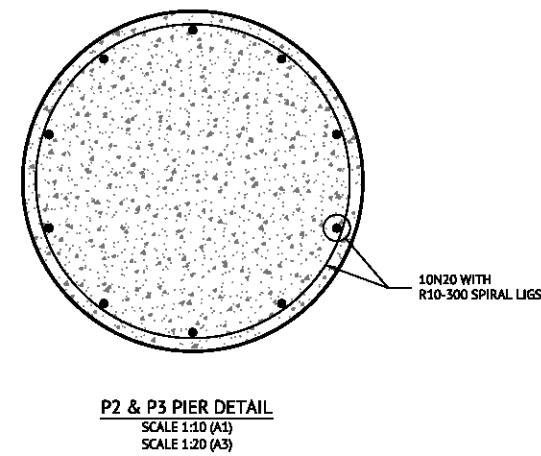
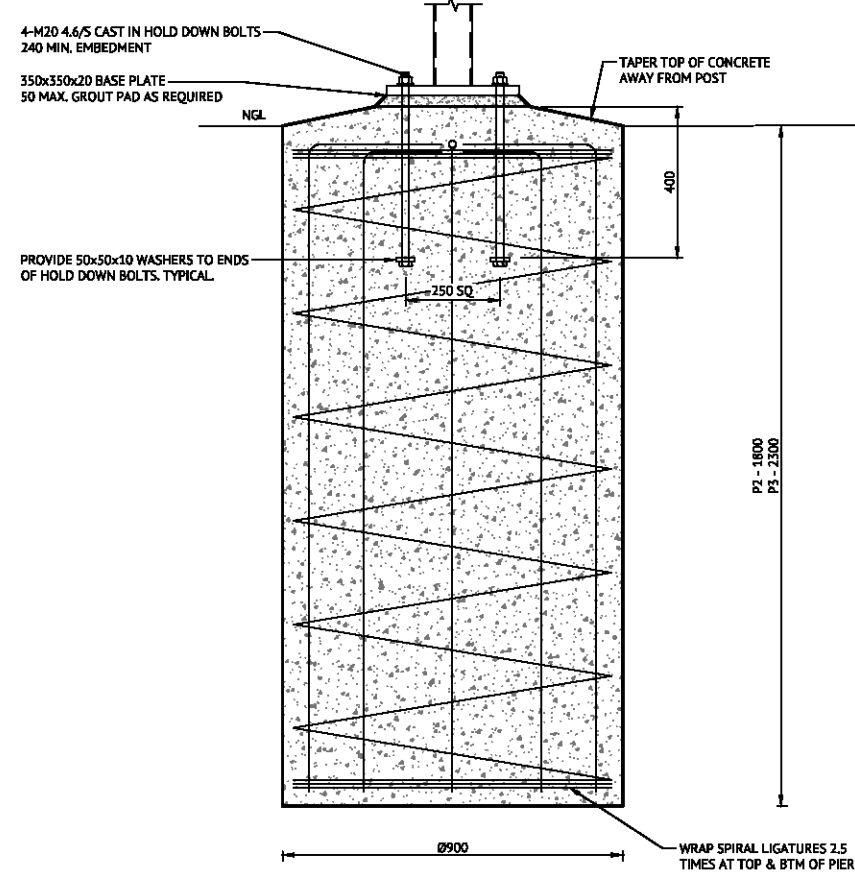
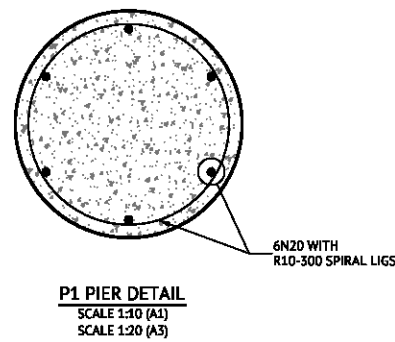
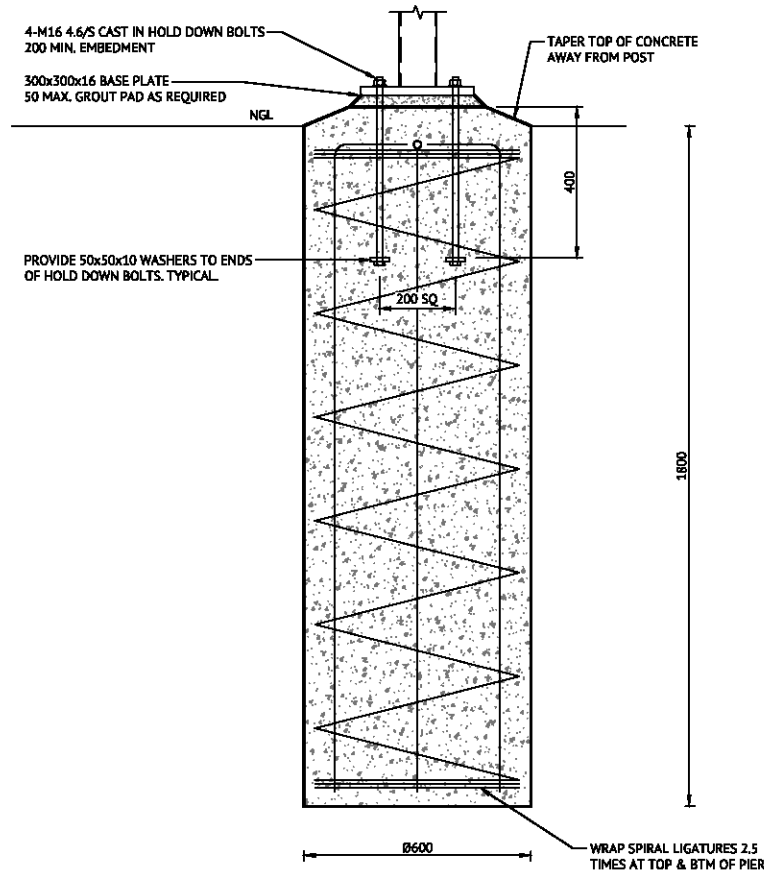
JOB CODE		220049-03
SHEET NUMBER	REV	
S004	C	

PENRITH CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to Development Consent: **DA20/0360**

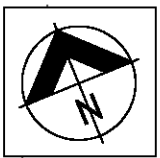
Subject to the conditions outlined in the consent



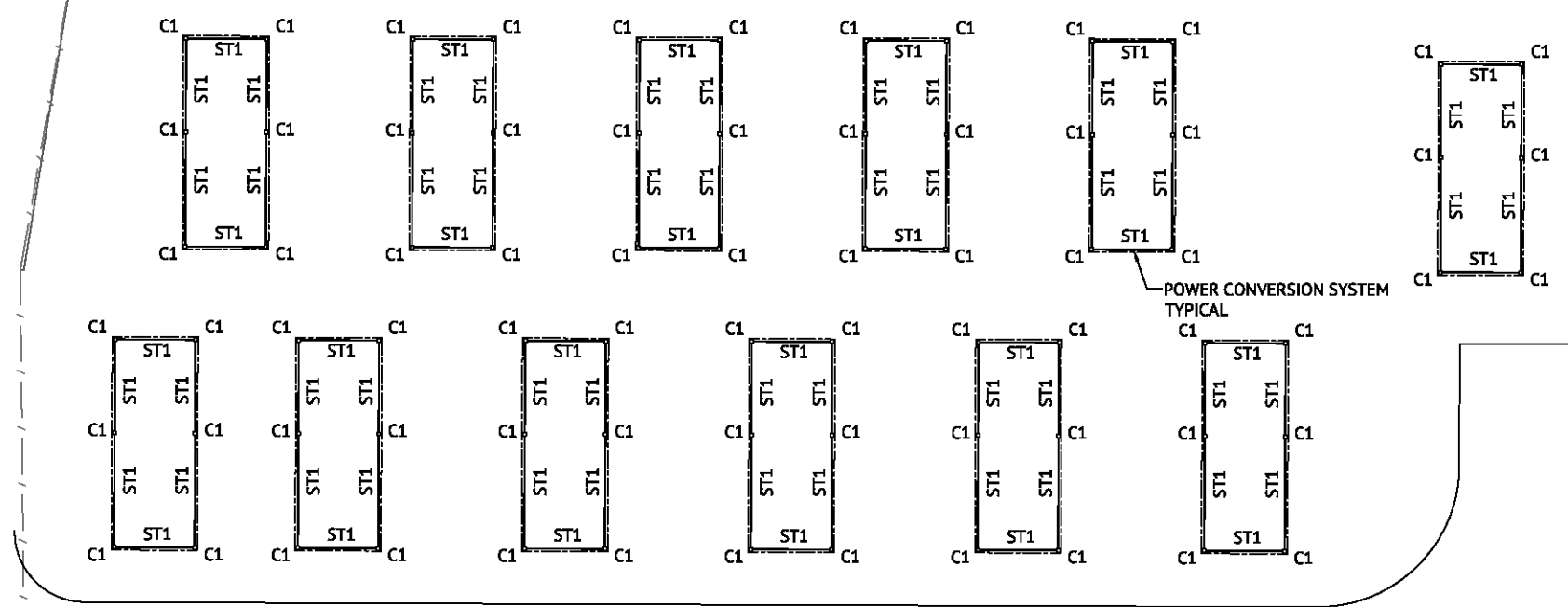
NOTE

1. THE PIERS HAVE BEEN DESIGNED BASED UPON ASSUMED GEOTECHNICAL PARAMETERS. SMALLER PIERS MAY BE POSSIBLE SHOULD SITE SPECIFIC GEOTECHNICAL INVESTIGATION RETURN DIFFERENT RESULTS.

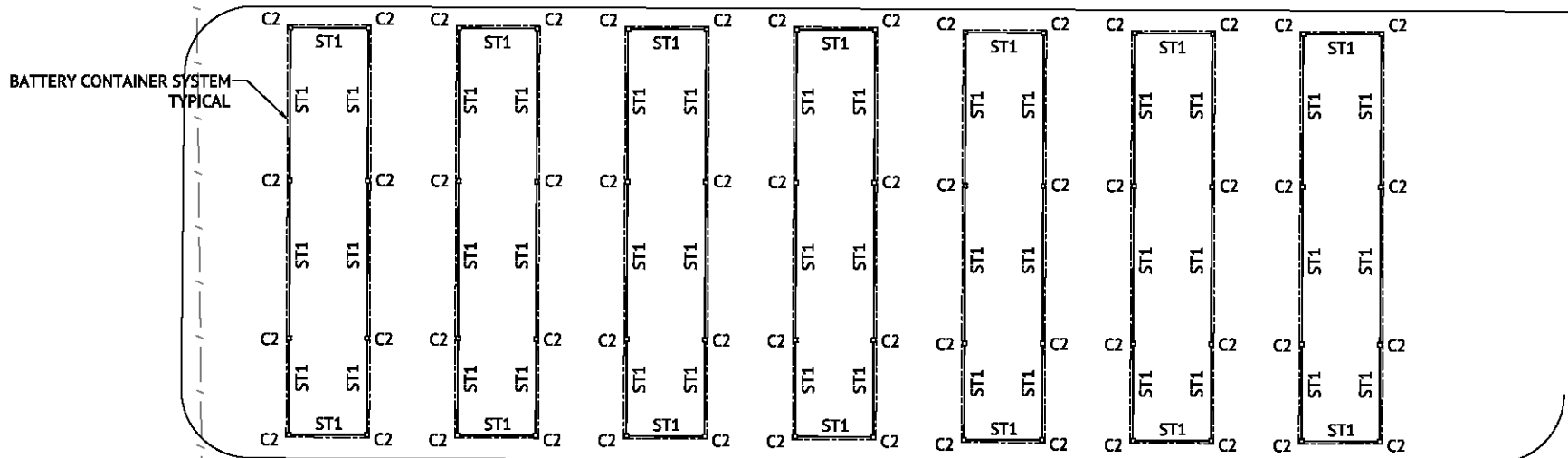
PRELIMINARY ISSUE ONLY				<p>ORANGE OFFICE 154 PEISLEY STREET ORANGE, NSW 2800 PH: (02) 6393 5000 WEB: www.premise.com.au</p>	<p>DESIGNED L. WALTON</p> <p>CHECKED C. MATHESON</p> <p>PROJECT MANAGER D. WALKER</p> <p>ENGINEERING CERTIFICATION</p>	<p>SCALE</p> <p>SCALE 1:10 (A1)</p> <p>ORIGINAL SHEET SIZE A1</p>	<p>CLIENT FIRM POWER</p> <p>PROJECT BATTERY ENERGY STORAGE SYSTEM</p> <p>LOCATION MUSEUM DRIVE, PENRITH</p> <p>SHEET TITLE FOOTING DETAILS</p>	<p>JOB CODE 220049-03</p>																	
<table border="1"> <thead> <tr> <th>DATE</th> <th>REV</th> <th>DESCRIPTION</th> <th>REC</th> <th>APP</th> </tr> </thead> <tbody> <tr> <td>04/02/2021</td> <td>C</td> <td>REVISED ISSUE-MATCHING CIVIL DWG SET</td> <td></td> <td>GT</td> </tr> <tr> <td>13/01/2021</td> <td>B</td> <td>REVISED PRELIMINARY ISSUE</td> <td></td> <td>PB</td> </tr> <tr> <td>21/12/2020</td> <td>A</td> <td>PRELIMINARY ISSUE ONLY</td> <td></td> <td>GT</td> </tr> </tbody> </table>	DATE	REV	DESCRIPTION						REC	APP	04/02/2021	C	REVISED ISSUE-MATCHING CIVIL DWG SET		GT	13/01/2021	B	REVISED PRELIMINARY ISSUE		PB	21/12/2020	A	PRELIMINARY ISSUE ONLY		GT
DATE	REV	DESCRIPTION	REC	APP																					
04/02/2021	C	REVISED ISSUE-MATCHING CIVIL DWG SET		GT																					
13/01/2021	B	REVISED PRELIMINARY ISSUE		PB																					
21/12/2020	A	PRELIMINARY ISSUE ONLY		GT																					
SHEET NUMBER	REV																								
S005	C																								



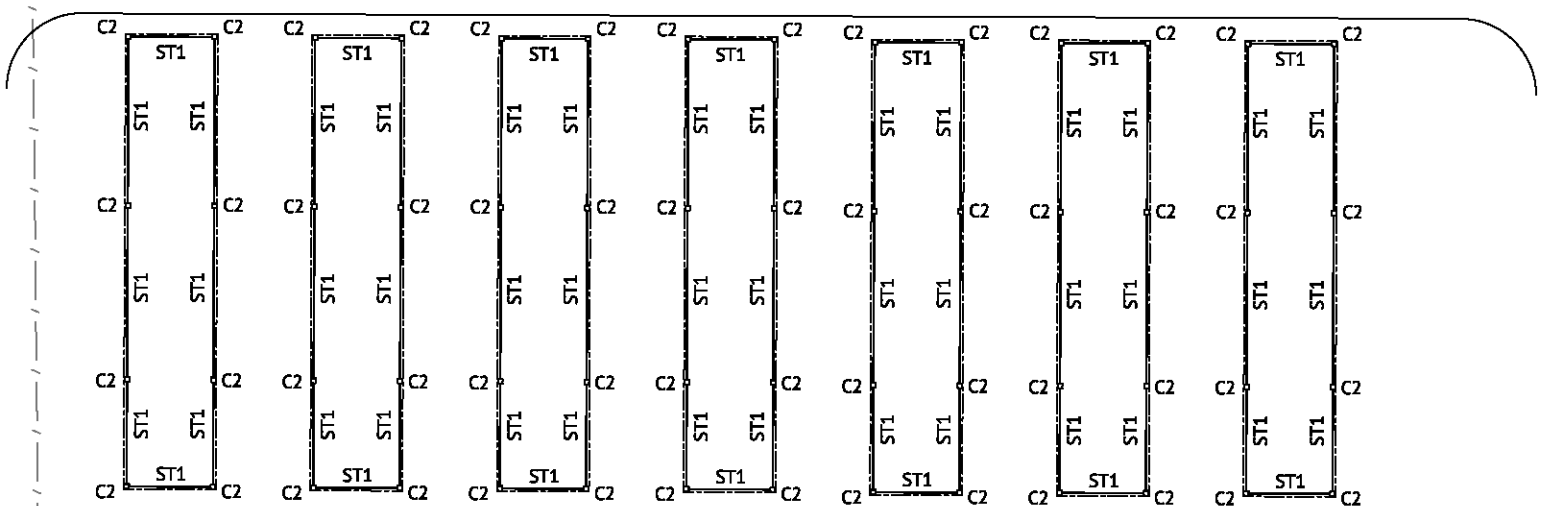
**MAIN
MV SUBSTATION**



GRAVEL ACCESS



GRAVEL ACCESS



**PENRITH
CITY COUNCIL**

This plan / document relates
to Development Consent: **DA20/0360**

Subject to the conditions outlined in the consent

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

MEMBER SCHEDULE		
MARK	MEMBER	COMMENTS
C1	100x6 SHS G450	
C2	125x6 SHS G450	
ST1	100x5 SHS G350	OPTIONAL STRUTS TO ASSIST WITH SET OUT (TO BE REMOVED AFTER EACH UNIT INSTALLATION)

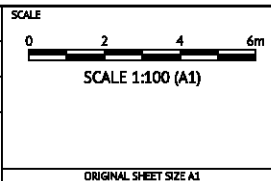
STEELWORK MARKING PLAN
SCALE 1:100 (A1)
SCALE 1:200 (A3)

PRELIMINARY ISSUE ONLY

DATE	REV	DESCRIPTION	REC	APP
04/02/2021	C	REVISED ISSUE-MATCHING CIVIL DWG SET	GT	
13/01/2021	B	REVISED PRELIMINARY ISSUE	PB	
21/12/2020	A	PRELIMINARY ISSUE ONLY	GT	

ORANGE OFFICE
154 PEISLEY STREET
ORANGE, NSW 2800
PH: (02) 6393 5000
WEB: www.premise.com.au

DESIGNED
L. WALTON
CHECKED
C. MATHESON
PROJECT MANAGER
D. WALKER
ENGINEERING CERTIFICATION



CLIENT **FIRM POWER**

PROJECT **BATTERY ENERGY STORAGE SYSTEM**

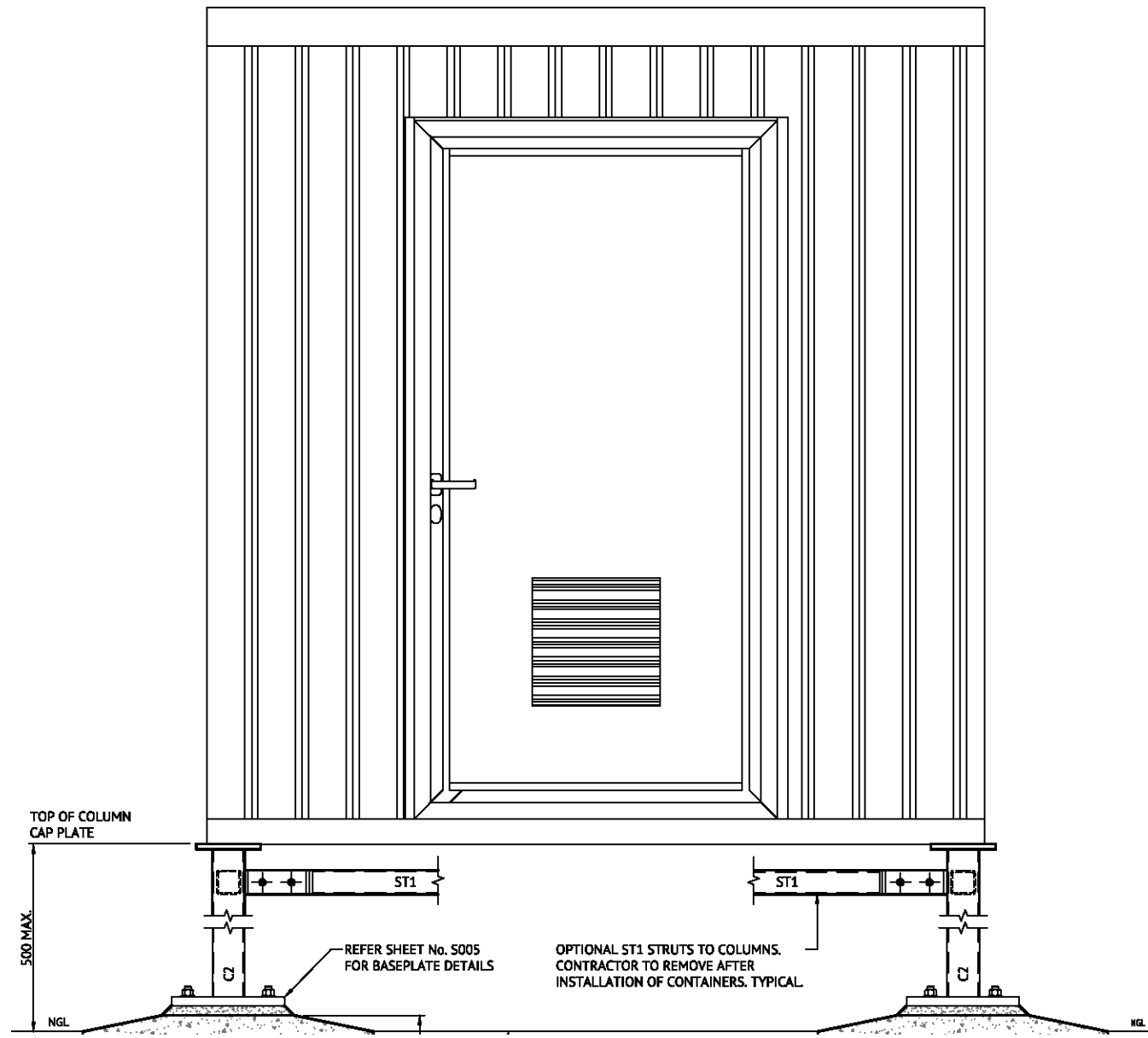
LOCATION **MUSEUM DRIVE, PENRITH**

SHEET TITLE **STEELWORK MARKING PLAN**

JOB CODE
220049-03

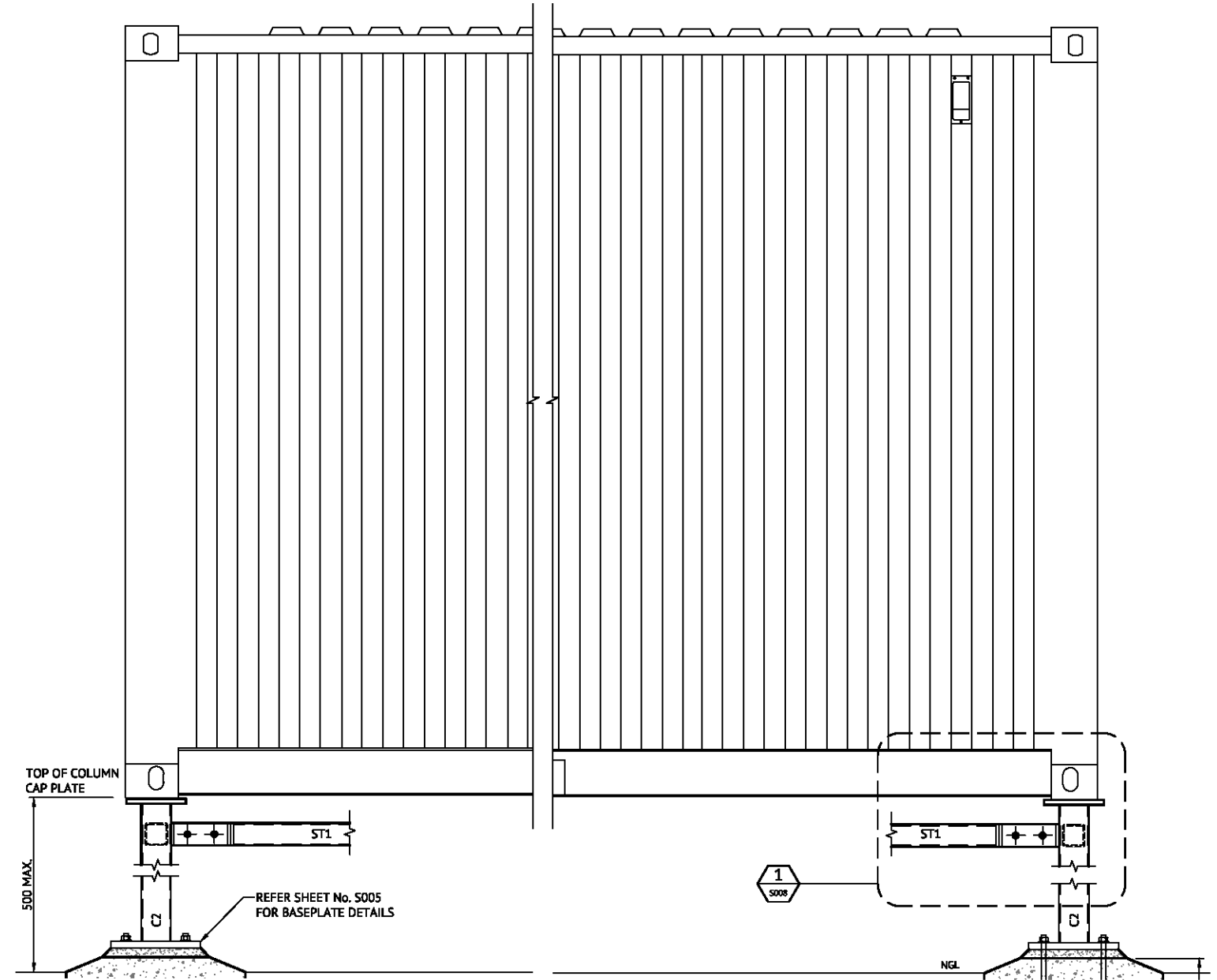
SHEET NUMBER
S006

REV
C



TYPICAL CONTAINER END ELEVATION

SCALE 1:10 (A1)
SCALE 1:20 (A3)



TYPICAL CONTAINER SIDE ELEVATION

SCALE 1:10 (A1)
SCALE 1:20 (A3)

PENRITH CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to Development Consent: **DA20/0360**

Subject to the conditions outlined in the consent

NOTE

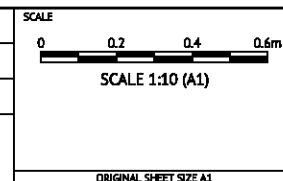
1. THE FRAMEWORK FOR BOTH THE POWER CONVERSION SYSTEM AND BATTERY CONTAINER SYSTEM MUST BE DESIGNED TO SPAN BETWEEN TOP OF COLUMNS BY A SUITABLE QUALIFIED STRUCTURAL ENGINEER.

PRELIMINARY ISSUE ONLY					
DATE	REV	DESCRIPTION	REC	APP	
04/02/2021	C	REVISED ISSUE-MATCHING CIVIL DWG SET			GT
13/01/2021	B	REVISED PRELIMINARY ISSUE			PB
21/12/2020	A	PRELIMINARY ISSUE ONLY			GT



ORANGE OFFICE
154 PEISLEY STREET
ORANGE, NSW 2800
PH: (02) 6393 5000
WEB: www.premise.com.au

DESIGNED L. WALTON
CHECKED C. MATHESON
PROJECT MANAGER D. WALKER
ENGINEERING CERTIFICATION



CLIENT FIRM POWER
PROJECT BATTERY ENERGY STORAGE SYSTEM
LOCATION MUSEUM DRIVE, PENRITH
SHEET TITLE STEELWORK ELEVATIONS

JOB CODE 220049-03
SHEET NUMBER S007
REV C



PENRITH PROPOSED BATTERY SITE ISSUED FOR DEVELOPMENT APPLICATION

PENRITH
CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to Development Consent: **DA20/0360**

Subject to the conditions outlined in the consent

SCHEDULE OF DRAWINGS		
DRAWING	TITLE	REVISION
GENERAL		
C001	COVER SHEET - SITE LOCALITY AND SCHEDULE OF DRAWINGS	3
C002	GENERAL NOTES & LEGEND	1
C040	EXISTING SITE LAYOUT AND SURVEY CONTROL PLAN	1
BULK EARTHWORKS		
C100	BULK EARTHWORKS PLAN	3
C110	BULK EARTHWORKS SITE SECTIONS	3
ROADWORKS		
C200	ROAD AND STORMWATER LAYOUT PLAN	3
C300	ROAD NO.1 AND ROAD NO.2 LONGITUDINAL SECTIONS	3
C590	VEHICLE TURNING PATH PLAN - PASSENGER VEHICLE	3
C591	VEHICLE TURNING PATH PLAN - HIGH RIGID VEHICLE	3
EROSION AND SEDIMENT CONTROL		
C900	EROSION AND SEDIMENT CONTROL PLAN	3
C950	EROSION AND SEDIMENT CONTROL FIGURES	1



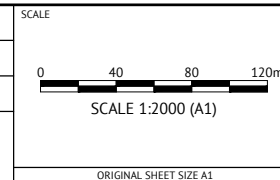
LOCALITY PLAN
SCALE 1:2000

CONCEPT DESIGN



ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED
P.T.T.
CHECKED
M.Z.
PROJECT MANAGER
P.H.



CLIENT: **FIRM POWER PTY LTD**
PROJECT: **PENRITH PROPOSED BATTERY SITE**
LOCATION: **MUSEUM DRIVE, PENRITH**
SHEET TITLE: **COVER SHEET - SITE LOCALITY AND SCHEDULE OF DRAWINGS**

JOB CODE: **220049**
SHEET NUMBER: **C001**
REV: **3**

DATE	REV	DESCRIPTION	REC	APP
27/01/21	3	SCHEDULE OF DRAWINGS AMENDED	P.T.T.	M.Z.
19/10/20	2	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.

G GENERAL

- G1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH DCP OF THE LOCAL AUTHORITY, TECHNICAL SPECIFICATIONS AND GUIDELINES ISSUED BY ROADS AND MARITIME SERVICES (RMS), AUSTRROADS STANDARDS, AUSTRALIAN STANDARD AND TO THE CITY ENGINEER'S SATISFACTION.
- G2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER WORKING DRAWINGS, SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- G3. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS. REDUCED LEVELS AND CHAINAGES ARE IN METERS. ALL OTHER DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN. SET OUT DIMENSIONS ON THE DRAWING SHALL BE VERIFIED BY THE CONTRACTOR ON SITE.
- G4. NO WORK WITHIN ADJOINING PROPERTIES TO BE UNDERTAKEN WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER.
- G5. NO DISTURBANCE TO THE SITE SHALL BE PERMITTED OTHER THAN IN THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM SITE WITHOUT APPROVAL FROM THE SUPERINTENDENT.
- G6. ALL DEBRIS, UNDERGROWTH AND FENCES TO BE REMOVED FROM PUBLIC RESERVE, DRAINAGE AND ROAD WIDENING AREAS TO THE SATISFACTION OF THE SUPERINTENDENT.
- G7. NO TREES TO BE DISTURBED OR REMOVED WITHOUT COUNCIL'S PERMISSION OR UNLESS OTHERWISE SHOWN ON THE PLAN.
- G8. THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS ONLY.
- G9. THE LOCATION OF RECOVERY MARKS AND BENCH MARKS SHOULD BE VERIFIED AND CONFIRMED BY THE CONTRACTOR AND DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH COUNCIL PRIOR TO COMMENCEMENT OF WORK.
- G10. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- G11. ALL MATERIALS AND WORKMANSHIP SHALL CONFIRM TO THE REQUIREMENTS OF THE RELEVANT AS CODES AND THE SPECIFICATION.
- G12. SAFETY OF THE GENERAL PUBLIC SHALL BE PROVIDED DURING THE CONSTRUCTION WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF TRAFFIC DURING THE COURSE OF WORKS INCLUDING BARRICADING WITHIN AND OUTSIDE THE SITE AS REQUIRED.
- G13. ALL MEASURES IN PUBLIC AREAS TO CONTROL OR DIVERT VEHICULAR PEDESTRIAN TRAFFIC IS TO BE COVERED BY A TRAFFIC CONTROL PLAN PREPARED BY AN AUTHORIZED PERSON & APPROVED BY COUNCIL. NO DETOURS SHOULD BE IN PLACE WITHOUT PRIOR APPROVAL OF COUNCIL.
- G14. IT IS CONTRACTOR'S RESPONSIBILITY TO ENSURE SAFE WORK PRACTICES ARE FOLLOWED AT ALL TIMES. WHS REGULATIONS AND WORK COVER REQUIREMENTS ARE TO BE COMPLIED WITH.
- G15. VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- G16. ALL MAJOR AND NON-STANDARD STRUCTURES TO BE SUPERVISED BY A PRACTICING QUALIFIED STRUCTURAL ENGINEER AND CERTIFICATION UPON COMPLETION. COPIES OF CERTIFICATION ARE TO BE PROVIDED TO COUNCIL.

S SERVICES

- S1. CONTRACTOR TO CONTACT "DIAL BEFORE DIG" ON TEL:1100 FOR PLAN INFORMATION ON UNDERGROUND PIPES AND CABLES, AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT OF WORK. USING THE PLANS & ON-SITE LOCATION MARKINGS AS AN INDICATION OF UTILITY SERVICES PRESENCE, HAND DIG TO EXPOSE ALL SERVICES WITHIN THE SAFE APPROACH DISTANCES. CONTRACTOR TO BE HELD RESPONSIBLE SHOULD THEY DAMAGE UTILITY PROPERTY.
- S2. ALL SERVICES AFFECTED BY NEW WORK TO BE ADJUSTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT SERVICE AUTHORITY AT CONTRACTOR'S EXPENSE UNTIL AND UNLESS IT IS SPECIFIED.
- S3. MAKE SMOOTH CONNECTION WITH ALL EXISTING ENGINEERING WORKS.
- S4. CONDUITS TO BE PLACED WHERE REQUIRED BY UTILITY AUTHORITIES, OTHER RELEVANT AUTHORITIES AND COUNCIL.
- S5. SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. THE RECORDS FROM RELEVANT UTILITY AUTHORITIES HAVE BEEN PLOTTED WHERE AVAILABLE AND HAVE BEEN NOTED ACCORDINGLY ON THIS PLAN. WHERE SUCH RECORDS EITHER DO NOT EXIST OR ARE INADEQUATE A NOTATION HAS BEEN MADE HEREON. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY MUST BE CONTACTED FOR POSSIBLE RELOCATION OF UNDERGROUND SERVICES.
- S6. ANY PROPOSED SERVICE CROSSING TO BE THRUST BORED UNDER EXISTING PAVEMENT UNLESS SPECIFIED BY THE SUPERINTENDENT, CONTRACTOR TO REPAIR ANY DAMAGE TO EXISTING SURFACE.

E EARTHWORKS

- E1. EXCAVATION SHALL BE CARRIED OUT TO THE DEPTHS & DIMENSIONS SHOWN OR IMPLIED ON THE PLANS AND/OR THE DOCUMENTS OR TO SUCH GREATER DEPTHS & DIMENSIONS, AS WILL ENSURE SOUND, PERMANENT FOUNDATIONS. ALL EXCAVATIONS SHALL BE APPROVED BY THE SUPERINTENDENT BEFORE ANY MATERIALS OR STRUCTURES ARE PLACED.
- E2. ALL EXCAVATION, SHORING OF EXCAVATION AND STABILITY OF ADJACENT STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- E3. TOPSOIL SHALL BE STRIPPED FROM WITHIN THE AREA OF WORKS INCLUSIVE OF BATTERS & STOCKPILED AS DIRECTED BY THE SUPERINTENDENT. THE THICKNESS OF THE TOPSOIL STRIPPING SHALL NOT BE LESS THAN 100MM.
- E4. ALL EXPOSED DELETERIOUS MATERIALS WHICH, IN THE OPINION OF THE SUPERINTENDENT, ARE UNSUITABLE FOR THE PLACING OF FILLING SHALL BE REMOVED & DISPOSED OFF. IF UNSOUND OR UNSUITABLE MATERIALS ENCOUNTERED AT THE SPECIFIED EXCAVATION LEVEL, ADDITIONAL EXCAVATION & REPLACEMENT WITH COMPACTED APPROVED MATERIAL MAY BE ORDERED.

- E5. WHERE FILLING IS REQUIRED, MATERIAL IS TO BE SELECTED IN DISCUSSION WITH AND TO THE SATISFACTION OF THE SUPERINTENDENT. ALL IMPORTED FILL MATERIAL SHALL BE VIRGIN EXCAVATED NATURAL MATERIAL FREE FROM CHEMICAL OR OTHER CONTAMINATION. A CONTAMINATION REPORT ON THE PROPOSED IMPORTED FILL MATERIAL FROM A NATA REGISTERED LABORATORY, WILL BE REQUIRED BY COUNCIL PRIOR TO PLACEMENT OF FILL.
- E6. ALL FILL SHALL BE COMPACTED TO NOT LESS THAN 98% OF STANDARD MAXIMUM DRY DENSITY AT -1% TO +2% OF STANDARD OPTIMUM MOISTURE CONTENT (MAXIMUM FILL HORIZONS OF 150MM TO 200MM). ALL AREAS WHICH HAVE TEST RESULTS LESS THAN 98% STANDARD SHOULD BE REWORKED AND RETESTED TO ENSURE COMPLIANCE, IN ACCORDANCE WITH AS 1289.
- E7. TESTS SHALL BE UNDERTAKEN ON ANY PROPOSED FILL MATERIALS TO ENSURE THAT THEY DO NOT HAVE A HIGH DISPERSION POTENTIAL AS IDENTIFIED BY THE EMERSON CRUMB/DISPERSION TESTS (AS 1289)
- E8. ALL FILL AREAS TO BE SURVEYED AT STRIPPING AND FINAL STAGES AND LEVELS SHOWN ON PLANS, (TOGETHER WITH CROSS SECTIONS AT MAXIMUM 20M C/C) AT WORKS-AS-EXECUTED STAGE AND CONTROLLED BY A REGISTERED SURVEYOR.
- E9. ALL EARTHWORKS SHALL BE CONTROLLED AND CERTIFIED BY A NATA REGISTERED LABORATORY. TWO COLLATED COPIES OF ALL TEST CERTIFICATES, ACCOMPANIED BY AN OVERALL SITE PLAN, CLEARLY INDICATING THE LOCATION OF EACH TEST AND FILL AREAS ETC., AND THE LABORATORY CERTIFICATE COVERING THE WHOLE OF THE AREA TESTED ARE TO BE FORWARDED TO COUNCIL UPON COMPLETION. TESTING IS TO BE TO AS 3798.
- E10. KERB CORE SAMPLES TO AS1012 SHALL BE TAKEN BY NATA REGISTERED LABORATORY TWENTY EIGHT (28) DAYS AFTER LAYING. TWO COPIES OF TEST REPORTS SHALL BE FORWARDED TO COUNCIL.
- E11. PROVIDE PENNINSETUM CLANDESTINUM (KIKUYU) TURF ON 200MM THICK TOPSOIL, UNLESS NOTED OTHERWISE.
- E12. HYDROMULCH OR HYDROSEED ALL OTHER DISTURBED AREAS NOT COVERED BY E11. SPECIFICATIONS FOR HYDROMULCH OR HYDROSEED MUST BE DETERMINED BY THE SUPERINTENDENT.
- E13. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CARRIED OUT IN ACCORDANCE TO LOCAL AUTHORITY STANDARD DRAWING.
- E14. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY, AND TO THE SATISFACTION OF THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION. MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL IS TO BE UNDERTAKEN BY THE CONTRACTOR ON REGULAR BASIS OR AS DIRECTED BY THE SUPERINTENDENT.

C CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS TO CONFIRM TO THE REQUIREMENT OF AS 3600. FORMWORKS ARE TO BE IN ACCORDANCE WITH AS 3610.
- C2. ALL FORMS SHALL BE DESIGNED SUCH THAT EXPOSED CONCRETE EDGED SHALL HAVE A MINIMUM OF 15MM CHAMFER AND ALL EXPOSED RE-ENTRANT CORNERS SHALL HAVE A MINIMUM OF 15MM FILLET UNLESS NOTED OTHERWISE.

SR STEEL REINFORCEMENT

- SR1. REINFORCEMENT SHALL COMPLY TO AS 1303, AS 4100 AND AS/NZS 4671.
- SR2. GRADE AND DIAMETER DESIGNATION:

REINF. TYPE	GRADE	AS CODE	SYMBOL
DEFORMED BAR	D500	AS/NZS 4671	N
PLAIN ROUND BAR	R250	AS/NZS 4671	R
RECTANGULAR MESH		AS/NZS 4671	RL
SQUARE MESH		AS/NZS 4671	SL
TRENCH MESH		AS/NZS 4671	L TM
- SR3. DESIGNATION CODE:

GRADE	N -16 AT 150 TOP	SPACING (mm)
DIA (mm)		LOCATION
- SR4. COVER: CONCRETE COVER SHALL BE 50mm UNLESS NOTED OTHERWISE
- SR5. LAP LENGTH: WHERE LAPPING ONF REINFORCEMENT OCCURS, THE MINIMUM LAP LENGTH SHOULD BE AS FOLLOWS:

N12 - 400mm LAP
N16 - 600mm LAP
N20 - 850mm LAP
N24 - 1000mm LAP

 FABRIC: 2 TRANSVERSE BARS+25mm
- SR6. ALL REINFORCEMENT SHALL BE SUPPORTED AT 800MM MAXIMUM CENTRES TO MAINTAIN THE NOMINATED POSITION AND COVER.

D DRAINAGE

- D1. PITS MORE THAN 1.2M DEEP TO HAVE IRON STEPS.
- D2. DRAINAGE PIPES SHALL BE BACKFILLED WITH TYPE HS3 SUPPORT MINIMUM SLOTTED AGRICULTURAL LINE SURROUNDED BY GEOTECH STOCKING AND CONNECTED TO ALL DOWNSTREAM PITS.
- D3. DRAINAGE PIPE TYPES 225MM DIA AND SMALLER TO BE UPVC UNLESS OTHERWISE SPECIFIED.
- D4. ALL REINFORCED CONCRETE PIPES 300MM DIA & GREATER SHALL BE RUBBER RING JOINTED (OR SIMILAR) AND TO BE CONSTRUCTED IN ACCORDANCE WITH AS 4058.
- D5. REINFORCED CONCRETED PIPES UNDER ROADS TO BE CLASS '3' AND CLASS '2' IN NON-TRAFFICKED AREAS.
- D6. ALL GULLY PITS TO BE ACCORDING TO COUNCIL'S STANDARD DRAWING WITH CONTINUOUS HINGE ON GRATES WITH CYCLE PROOF GRATES UNLESS NOTED OTHERWISE - LINTELS CENTRALLY PLACED SAG PITS.
- D7. AGRICULTURAL LINES IN APPROVED GEOTECHNICAL STOCKING TO BE PLACED WHERE DIRECTED BY COUNCIL (GENERALLY UNDER KERB).
- D8. GUTTER SLOTS TO BE PROVIDED AT PITS AND AT REGULAR INTERVALS TO DRAIN TEMPORARY SEAL (ONLY WHERE TEMPORARY SEAL FINISHES BELOW LIP OF GUTTER).
- D9. TOP BENCHING TO BE HALF OF OUTLET PIPE DIAMETER.
- D10. ALL GRATE PITS TO BE FITTED WITH LOCK DOWN BOLTS TO COUNCIL/ MANUFACTURER STANDARD SPECIFICATION.

P PAVEMENTS

- P1. SUB-GRADE, SUB-BASE COURSE AND BASE TO BE COMPACTED AS PER AUSTRROADS /RMS SPECIFICATIONS.
- P2. PAVEMENT DETAILS GIVEN ON TYPICAL SECTION ARE NOMINAL PAVEMENT DEPTS AND ARE TO BE CONFIRMED WITH THE SUPERINTENDENT.
- P3. SUB-BASE AND BASE COURSE MATERIALS TO BE IN ACCORDANCE WITH AUSTRROADS AND RMS SPECIFICATIONS (SEE RMS QA SPECIFICATION 3051 OR LATEST).
- P4. ALL ROADS ARE TO BE TEMPORARILY SEALED AND ASPHALT TO BE OVERLAYED FOLLOWING COMPLETION OF ALL SERVICES AND RESTORATIONS OR AS DIRECTED BY SUPERINTENDENT.
- P5. FINAL PAVEMENT THICKNESS TO BE DETERMINED AFTER "BOXING OUT" BY JOINT INSPECTION BY NATA REGISTERED LABORATORY AND THE SUPERINTENDENT. TWO COPIES OF PAVEMENT REPORT MUST BE MADE AVAILABLE TO COUNCIL MINIMUM TWO (2) WORKING DAYS PRIOR TO INSPECTION.

E ENVIRONMENTAL

- E1. TO LIMIT DUST POLLUTION TO ADJOINING PROPERTIES, DUST SUPPRESSANTS ARE TO BE USED ON HAULAGE ROADS. IF THE PREVAILING WEATHER CONDITIONS CONTRIBUTE TO THE DUST POLLUTION AND IF IN THE OPINION OF THE SUPERINTENDENT, THE WORKS ARE REQUIRED TO BE CEASED, THE CONTRACTOR MUST STOP THE WORKS IMMEDIATELY.
- E2. NO VIBRATING ROLLERS TO BE USED IN THE VICINITY OF PROPERTIES. ALL THE PROPERTIES IN CLOSE PROXIMITY OF THE WORK SITE MUST BE INSPECTED PRIOR TO AND AFTER THE COMPLETION OF WORKS. A DELAPIDATION REPORT SHOULD BE SUBMITTED TO THE SUPERINTENDENT BEFORE COMMENCEMENT OF WORKS.
- E3. NO DISTURBANCE TO OCCUR TO THOSE PARTS OF THE SITE NOT DIRECTLY AFFECTED BY THE WORKS. NO EXCAVATION FILLING, DUMPING, BURNING OF TREE STUMPS, OR ANY OTHER ACTIVITY IS PERMITTED IN THESE AREAS. THE STATUS OF THE ENVIRONMENT & ECOLOGY MUST BE STRICTLY PRESERVED. DISTURBED AREAS MUST BE REINSTATED.

WAE WORKS-AS-EXECUTED (WAE) DRAWINGS

- WAE1. AFTER THE PRACTICAL COMPLETION OF THE WORKS, THE SUPERINTENDENT SHALL SUPPLY CONTRACTOR WITH ONE SET OF CONTRACT DRAWINGS FOR THE PURPOSE OF PREPARING WORKS-AS -EXECUTED DRAWINGS AND SUBMIT TO COUNCIL WITHIN ONE MONTH'S TIME.
- WAE2. THE SUPERINTENDENT WILL NOT ISSUE THE FINAL CERTIFICATE IF THE WORKS-AS -EXECUTED DRAWINGS HAVE NOT BEEN RECEIVED FROM THE CONTRACTOR.

LEGEND			
DESCRIPTIONS	EXISTING	PROPOSED	FUTURE
150mm KERB & GUTTER	EXIST. K&G	K&G	FUT. K ERB
ROLL TYPE KERB	EXIST. RK	RK	FUT. K ERB
EDGE STRIP	EXIST. ES	ES	FUT. ES
KERB ONLY	EXIST. KERB	KO	FUT. K ERB
MOUNTABLE SF TYPE KERB	EXIST. SF	SF TYPE	FUT. K ERB
DISH CROSSING	EXIST. DC	DC	FUT. DC
VEHICULAR CROSSING	VC	VC	FUT. VC
KERB / PEDESTRIAN RAMP		PR	
EDGE OF BITUMEN	E.O.B.		
ROAD PAVEMENT	EXIST. PAVEMENT		FUT. PAVEMENT
PATH PAVING	EXIST. PATH	1.2M PATH PAVING	FUT. PATH
BATTERS /TOP & BOTTOM OF BANKS	T.O.B. B.O.B.		
SPOT LEVEL		x RL28.5	
CONTOURS	100.0	100.0	100.0
SITE REGRADING AREA		CUT / FILL	
RETAINING WALL	EXIST. RW	RW1	FUT. RW
ROCK GABION WALL	EXIST. RW	ROCK WALL	FUT. RW
STORMWATER DRAINAGE PIPE	EXIST. Ø375	Ø375	FUT. PIPE
STORMWATER DRAINAGE PIT			
DRAINAGE LINES & PIT NUMBERS		1-01	
CONCRETE HEADWALL			
SUB-SOIL & FLUSH POINTS	SS	FP	SS
KERB OUTLETS	KO	KO	
PIPE CONNECTIONS/JUNCTIONS			
ACO GRATED DRAIN OR SIMILAR			
LIMIT OF WORKS		L.O.W.	
LIMIT OF STAGE			
LOT NUMBERS	DP1199011	10	
BOUNDARY			
FENCE	/ / /	/ / /	/ / /
BUILDING / STRUCTURES	BLD	10	
TREE			
SEWER & MANHOLES	MH	S	S
WATER / HYDRANTS & STOP VALVES	SV	w	w
ELECTRICITY / POWER & LIGHT POLES	PP	e LP	e
GAS / GAS METERS	G	G	G
TELSTRA / FIBRE OPTIC / NBN	T	T	T

PENRITH CITY COUNCIL

This plan / document relates to Development Consent: **DA20/0360**

DIAL 1100
BEFORE YOU DIG

Subject to the conditions outlined in the consent

CONCEPT DESIGN		ORAN PARK OFFICE SUITE 301, LEVEL 3 ORAN PARK PODIUM 351 ORAN PARK DRIVE ORAN PARK, NSW 2570 PH: (02) 4632 6500 WEB: www.premise.com.au	DESIGNED P.T.I. CHECKED M.Z. PROJECT MANAGER P.H.	CLIENT FIRM POWER PTY LTD	JOB CODE 220049
07/10/20 DATE	1 REV		ISSUED FOR COUNCIL APPROVAL DESCRIPTION	PROJECT PENRITH PROPOSED BATTERY SITE	LOCATION MUSEUM DRIVE, PENRITH
			SHEET TITLE GENERAL NOTES & LEGEND	REV 1	

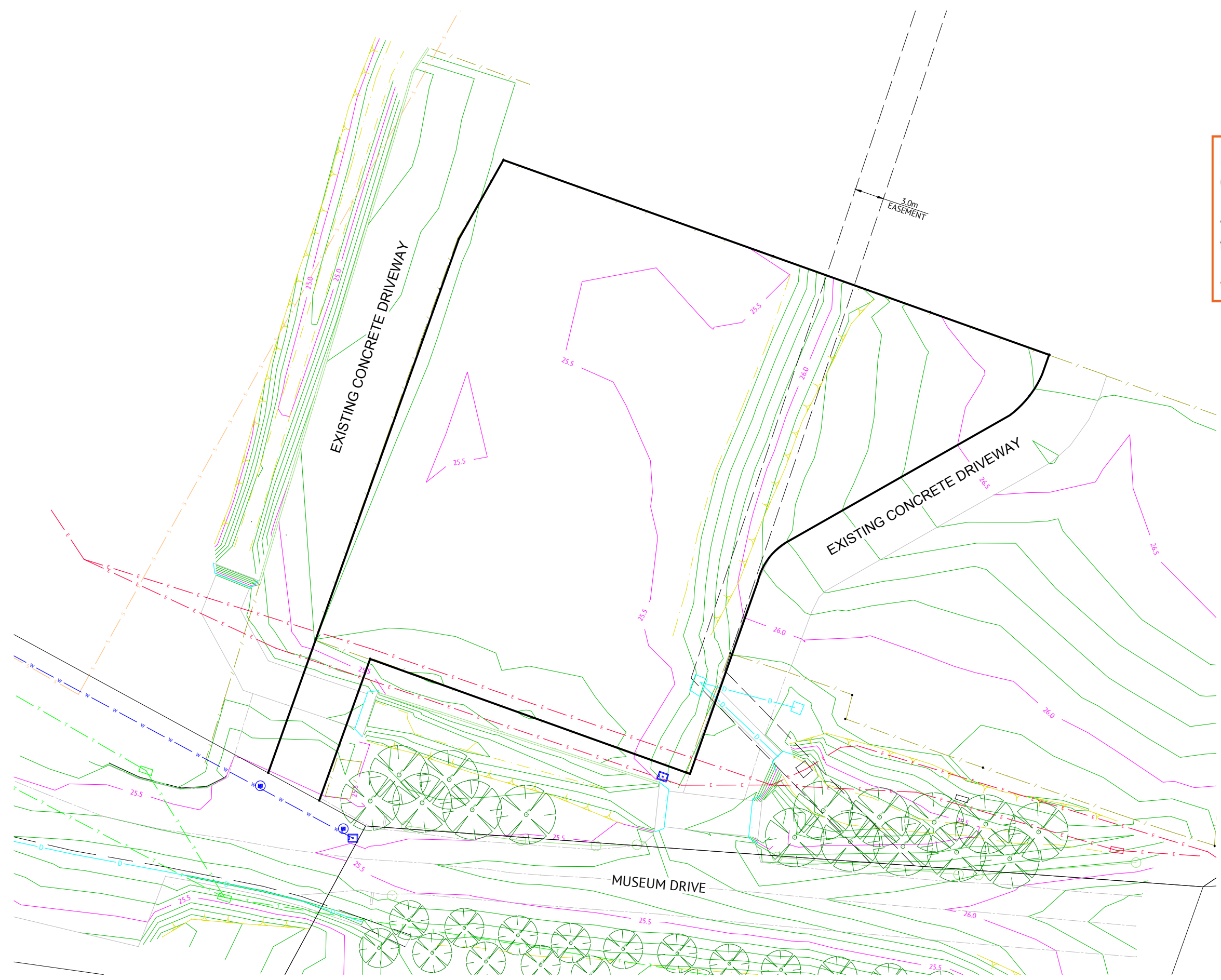


PENRITH CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to Development Consent: **DA20/0360**

Subject to the conditions outlined in the consent



- NOTES:**
1. ALL CO-ORDINATES ARE TO BE VERIFIED ON SITE BEFORE CONSTRUCTION.
 2. ALL EXTERNAL SITE BOUNDARIES ARE TO BE MARKED BY A REGISTERED SURVEYOR PRIOR TO COMMENCING SITE WORKS.
 3. VAC-EX SURVEY HAS NOT BEEN COMPLETED AND AS SUCH NOT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND LEVELLED, CONTRACTOR TO PROCEED WITH CAUTION.
 4. CONTOURS SHOWN ARE NATURAL SURFACE CONTOURS
 6. MINOR CONTOUR INTERVAL IS 0.1m
 7. MAJOR CONTOUR INTERVAL IS 0.5m

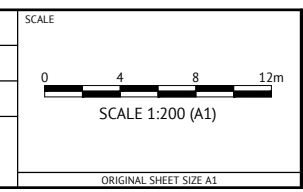
CONCEPT DESIGN

DATE	REV	DESCRIPTION	P.T.T. REC	M.Z. APP
07/10/20	1	ISSUED FOR COUNCIL APPROVAL		



ORAN PARK OFFICE
 SUITE 301, LEVEL 3 ORAN PARK PODIUM
 351 ORAN PARK DRIVE
 ORAN PARK, NSW 2570
 PH: (02) 4632 6500
 WEB: www.premise.com.au

DESIGNED	P.T.T.
CHECKED	M.Z.
PROJECT MANAGER	P.H.



CLIENT	FIRM POWER PTY LTD
PROJECT	PENRITH PROPOSED BATTERY SITE
LOCATION	MUSEUM DRIVE, PENRITH
SHEET TITLE	EXISTING SITE LAYOUT AND SURVEY CONTROL PLAN

JOB CODE	220049
SHEET NUMBER	C040
REV	1



PENRITH CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to Development Consent: **DA20/0360**

Subject to the conditions outlined in the consent



EARTHWORKS VOLUMES

CUT = 20m³
 FILL = 5m³
 BALANCE = -15m³

(“-” EXPORT, “+” IMPORT)

NOTES
 1. EXCLUDES BULKING AND COMPACTION FACTORS.

CUT/FILL		
Colour	Depth Range (m)	
CUT	-5.000	-2.000
	-2.000	-1.000
	-1.000	-0.500
	-0.500	-0.250
	-0.250	0.000
FILL	0.000	0.250
	0.250	0.500
	0.500	1.000
	1.000	2.000
	2.000	5.000
	5.000	10.000

- NOTES:**
- CUT/FILL DEPTHS REPRESENT LEVEL DIFFERENCE BETWEEN EXISTING TERRAIN & FINISHED DESIGN LEVEL ONLY.
 - ALL BOXES MUST BE COLOURED FOR THIS PLAN TO BE VALID.
 - CONTOURS SHOWN ARE EXISTING AND DESIGN SURFACE.
 - CONTOURS INTERVAL EXISTING 0.5m.

NOTE: REFER DRAWING C002 FOR NOTES AND LEGEND.

CONCEPT DESIGN		<p>ORAN PARK OFFICE SUITE 301, LEVEL 3 ORAN PARK PODIUM 351 ORAN PARK DRIVE ORAN PARK, NSW 2570 PH: (02) 4632 6500 WEB: www.premise.com.au</p>	<p>DESIGNED P.T.T. CHECKED M.Z. PROJECT MANAGER P.H.</p>	<p>SCALE SCALE 1:200 (A1) ORIGINAL SHEET SIZE A1</p>	<p>CLIENT FIRM POWER PTY LTD</p> <p>PROJECT PENRITH PROPOSED BATTERY SITE</p> <p>LOCATION MUSEUM DRIVE, PENRITH</p> <p>SHEET TITLE BULK EARTHWORKS PLAN</p>	<p>JOB CODE 220049</p> <p>SHEET NUMBER C100</p> <p>REV 3</p>																	
<table border="1"> <thead> <tr> <th>DATE</th> <th>REV</th> <th>DESCRIPTION</th> <th>REC</th> <th>APP</th> </tr> </thead> <tbody> <tr> <td>27/01/21</td> <td>3</td> <td>PCS MODULE AND PARKING ADDED, ROAD 3 REMOVED</td> <td>P.T.T.</td> <td>M.Z.</td> </tr> <tr> <td>19/10/20</td> <td>2</td> <td>ISSUED FOR COUNCIL APPROVAL</td> <td>P.T.T.</td> <td>M.Z.</td> </tr> <tr> <td>07/10/20</td> <td>1</td> <td>ISSUED FOR COUNCIL APPROVAL</td> <td>P.T.T.</td> <td>M.Z.</td> </tr> </tbody> </table>	DATE						REV	DESCRIPTION	REC	APP	27/01/21	3	PCS MODULE AND PARKING ADDED, ROAD 3 REMOVED	P.T.T.	M.Z.	19/10/20	2	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.	07/10/20	1	ISSUED FOR COUNCIL APPROVAL
DATE	REV	DESCRIPTION	REC	APP																			
27/01/21	3	PCS MODULE AND PARKING ADDED, ROAD 3 REMOVED	P.T.T.	M.Z.																			
19/10/20	2	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.																			
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.																			

CUT/FILL	
Colour	Depth Range (m)
CUT	-5.000 to -2.000
	-2.000 to -1.000
	-1.000 to -0.500
	-0.500 to -0.250
	-0.250 to 0.000
FILL	0.000 to 0.250
	0.250 to 0.500
	0.500 to 1.000
	1.000 to 2.000
	2.000 to 5.000
5.000 to 10.000	

NOTES:

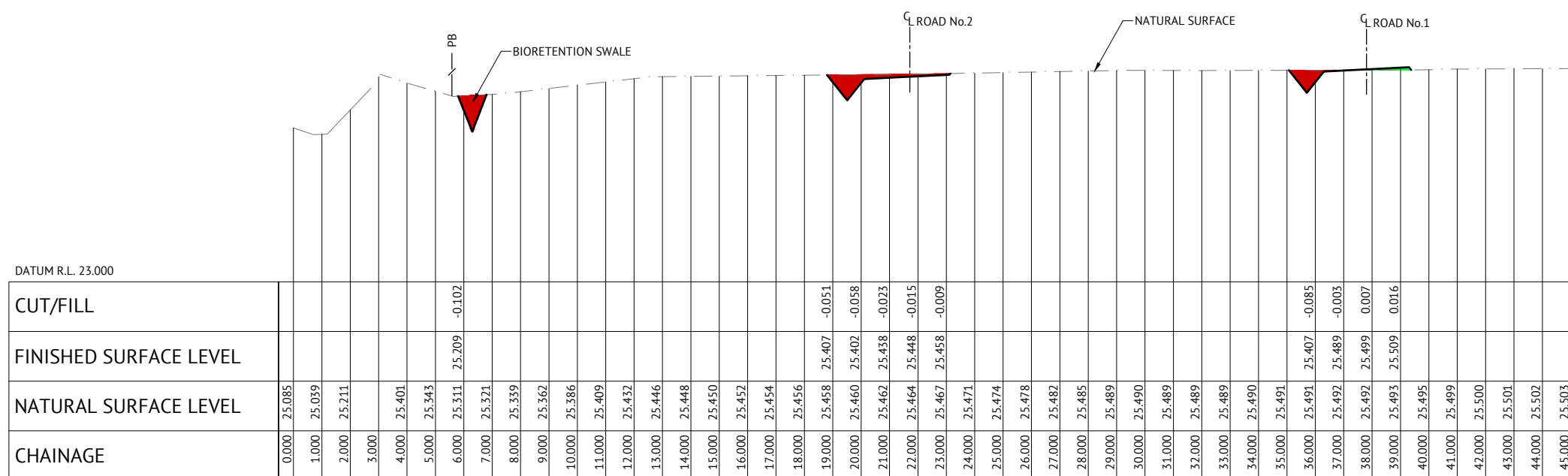
1. ALL BOXES MUST BE COLOURED FOR THIS PLAN TO BE VALID.

PENRITH
CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to Development Consent: **DA20/0360**

Subject to the conditions outlined in the consent



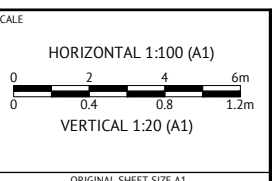
LONGITUDINAL SECTION - AA
 HORIZONTAL SCALE 1:100 (A1) 1:200 (A3)
 VERTICAL SCALE 1:20 (A1) 1:40 (A3)

CONCEPT DESIGN			REVISIONS	
DATE	REV	DESCRIPTION	REC	APP
27/01/21	3	SECTION REMOVED	P.T.T.	M.Z.
19/10/20	2	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.

ORAN PARK OFFICE

SUITE 301, LEVEL 3 ORAN PARK PODIUM
 351 ORAN PARK DRIVE
 ORAN PARK, NSW 2570
 PH: (02) 4632 6500
 WEB: www.premise.com.au

DESIGNED P.T.T.
CHECKED M.Z.
PROJECT MANAGER P.H.

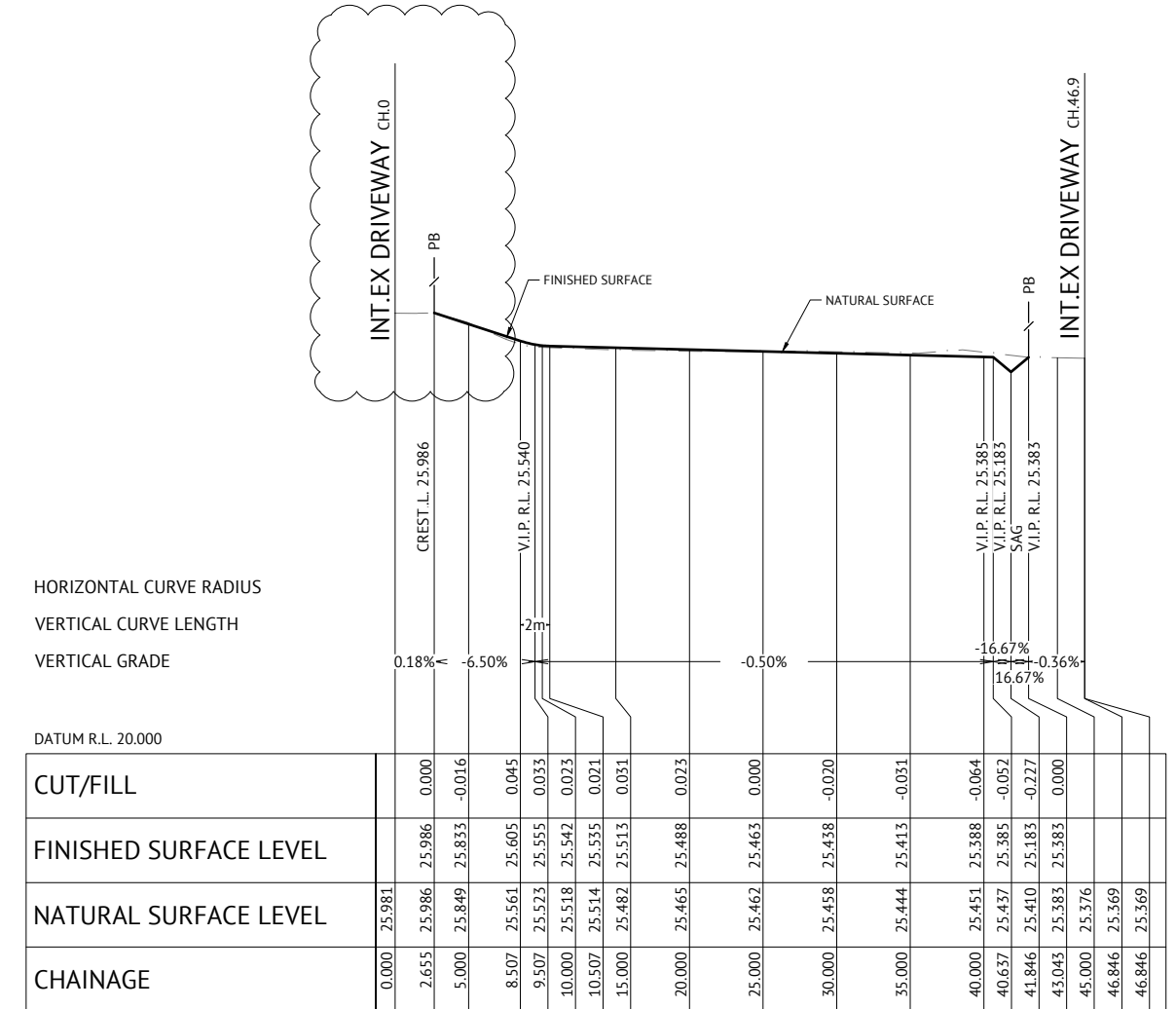
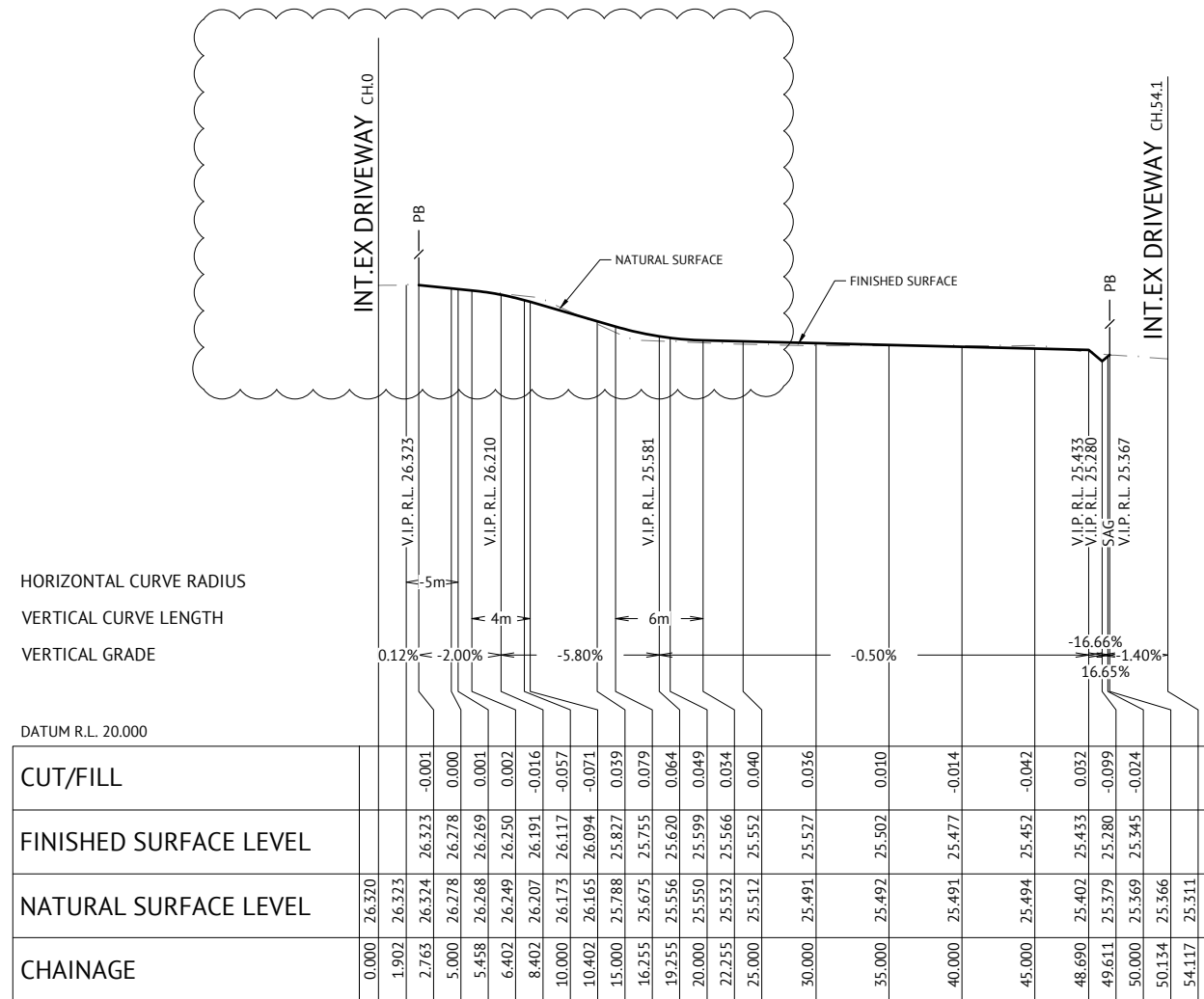


CLIENT	FIRM POWER PTY LTD
PROJECT	PENRITH PROPOSED BATTERY SITE
LOCATION	MUSEUM DRIVE, PENRITH
SHEET TITLE	BULK EARTHWORKS SITE SECTIONS

JOB CODE	220049
SHEET NUMBER	C110
REV	3

This plan / document relates to Development Consent: **DA20/0360**

Subject to the conditions outlined in the consent



LEGEND
 — FINISHED SURFACE
 - - - NATURAL SURFACE

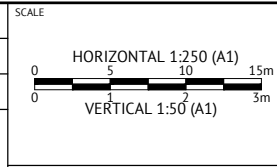
NOTES
 ALL DESIGN LEVELS SHOWN ARE FINISHED SURFACE LEVELS.

CONCEPT DESIGN



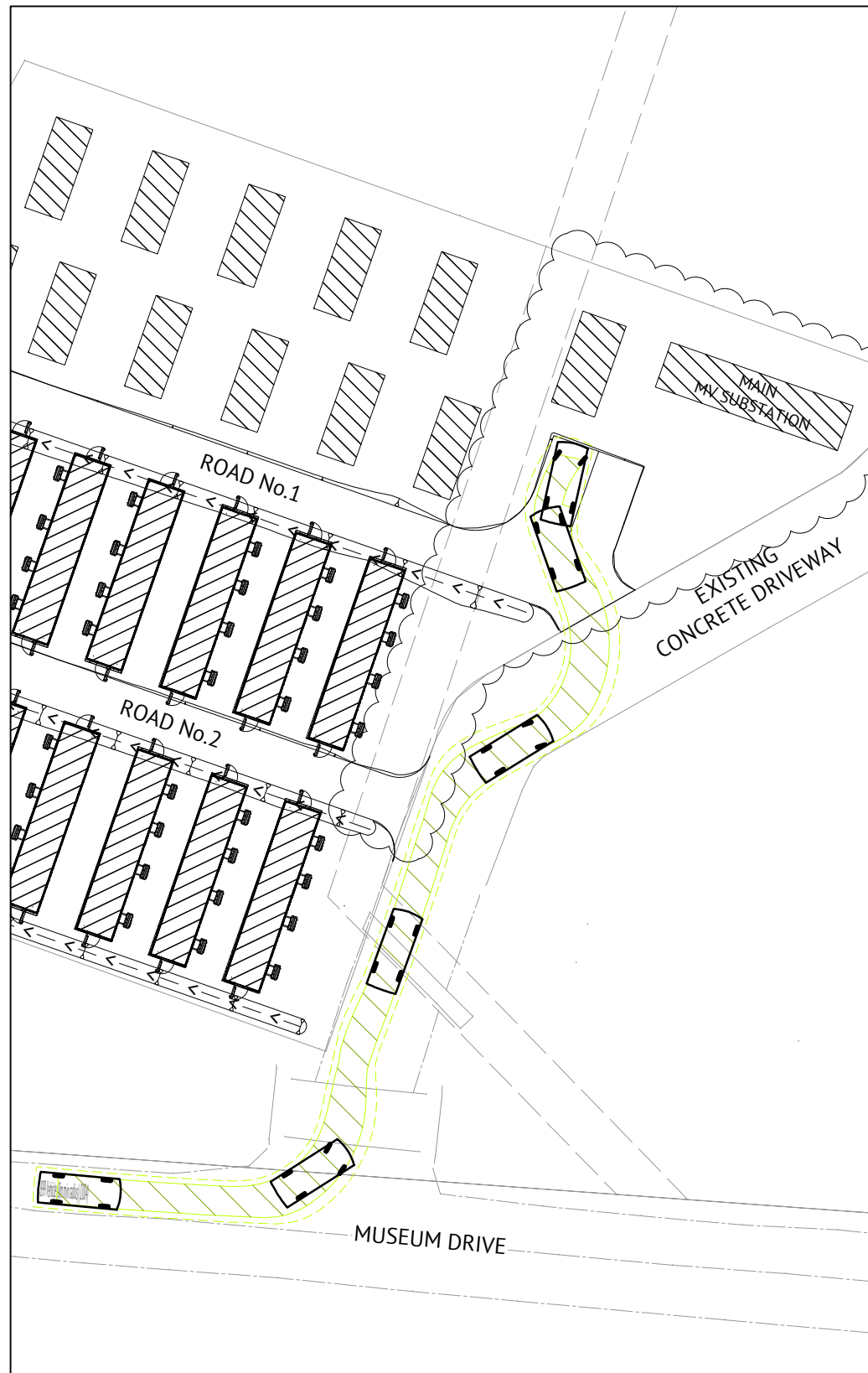
ORAN PARK OFFICE
 SUITE 301, LEVEL 3 ORAN PARK PODIUM
 351 ORAN PARK DRIVE
 ORAN PARK, NSW 2570
 PH: (02) 4632 6500
 WEB: www.premise.com.au

DESIGNED
P.T.T.
 CHECKED
M.Z.
 PROJECT MANAGER
P.H.



CLIENT
FIRM POWER PTY LTD
 PROJECT
PENRITH PROPOSED BATTERY SITE
 LOCATION
MUSEUM DRIVE, PENRITH
 SHEET TITLE
ROAD NO.1 AND ROAD NO.2 LONGITUDINAL SECTIONS

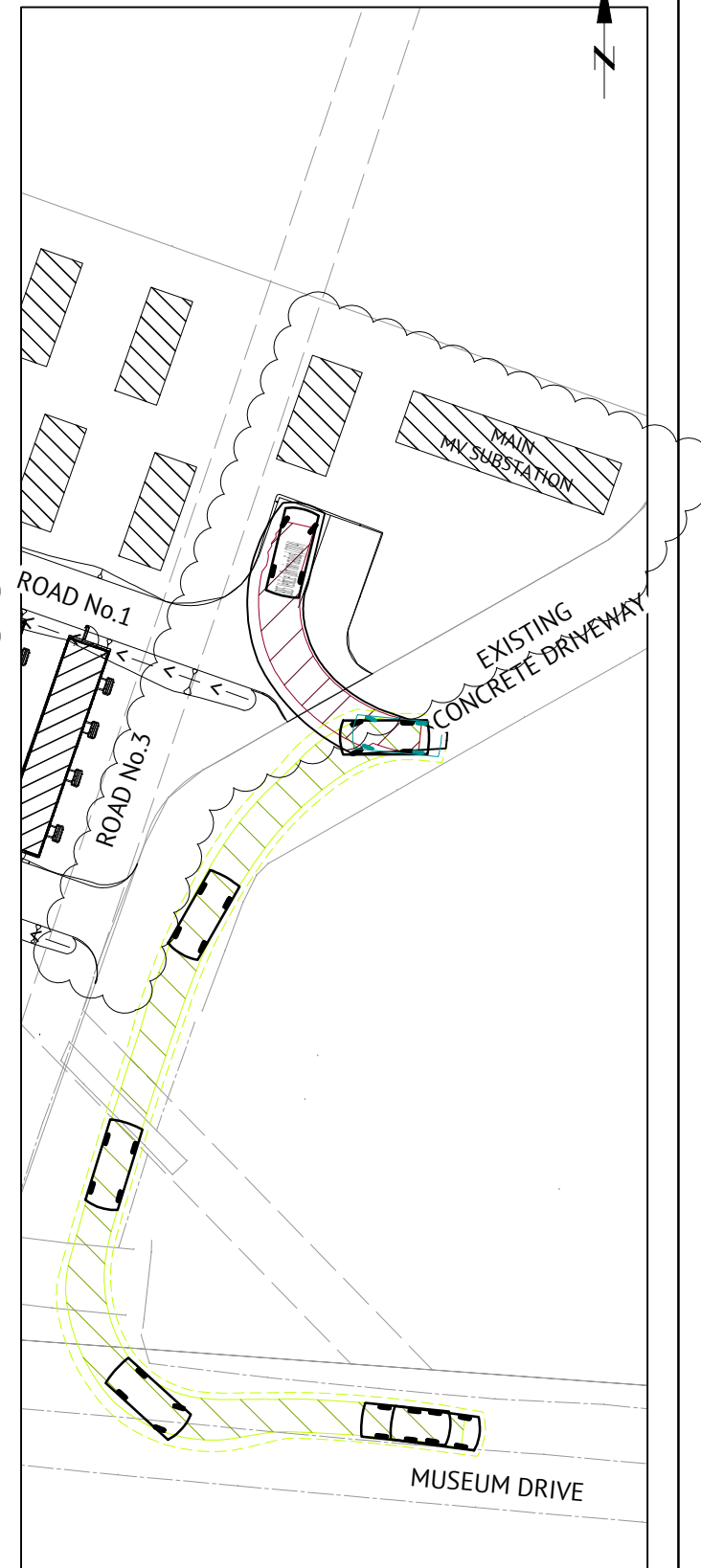
JOB CODE
220049
 SHEET NUMBER
C300
 REV
3



PLAN 1 - VEHICLE IN
SCALE 1:200



PLAN 2 - VEHICLE IN
SCALE 1:200

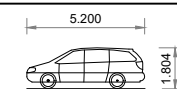


PLAN 3 - VEHICLE OUT
SCALE 1:200

PENRITH CITY COUNCIL

This plan / document relates to Development Consent: **DA20/0360**

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS



Passenger vehicle (5.2 m):
(n.l.s.)
Overall Length 5.200m
Overall Width 1.940m
Overall Body Height 1.804m
Min Body Ground Clearance 0.295m
Track Width 1.840m
Turning Circle 12.600m

DESIGN VEHICLE

NOTES:

- REFER TO ARCHITECTURAL AND LANDSCAPE PLANS FOR PROPOSED BIN PAD LOCATION.

NOTE: REFER DRAWING C002 FOR NOTES AND LEGEND.

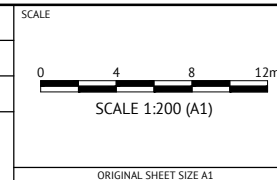
CONCEPT DESIGN

Subject to the **ORAN PARK OFFICE** in the context of the



SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED: P.H.
CHECKED: M.Z.
PROJECT MANAGER: P.H.



CLIENT

FIRM POWER PTY LTD

PROJECT

PENRITH PROPOSED BATTERY SITE

LOCATION

MUSEUM DRIVE, PENRITH

SHEET TITLE

VEHICLE TURNING PATH PLAN - PASSENGER VEHICLE

JOB CODE

220049

SHEET NUMBER

C590

REV

3

DATE	REV	DESCRIPTION	REC	APP
27/01/21	3	PCS MODULE AND PARKING ADDED, ROAD 3 REMOVED	P.T.T.	M.Z.
19/10/20	2	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T.	M.Z.

REVISIONS

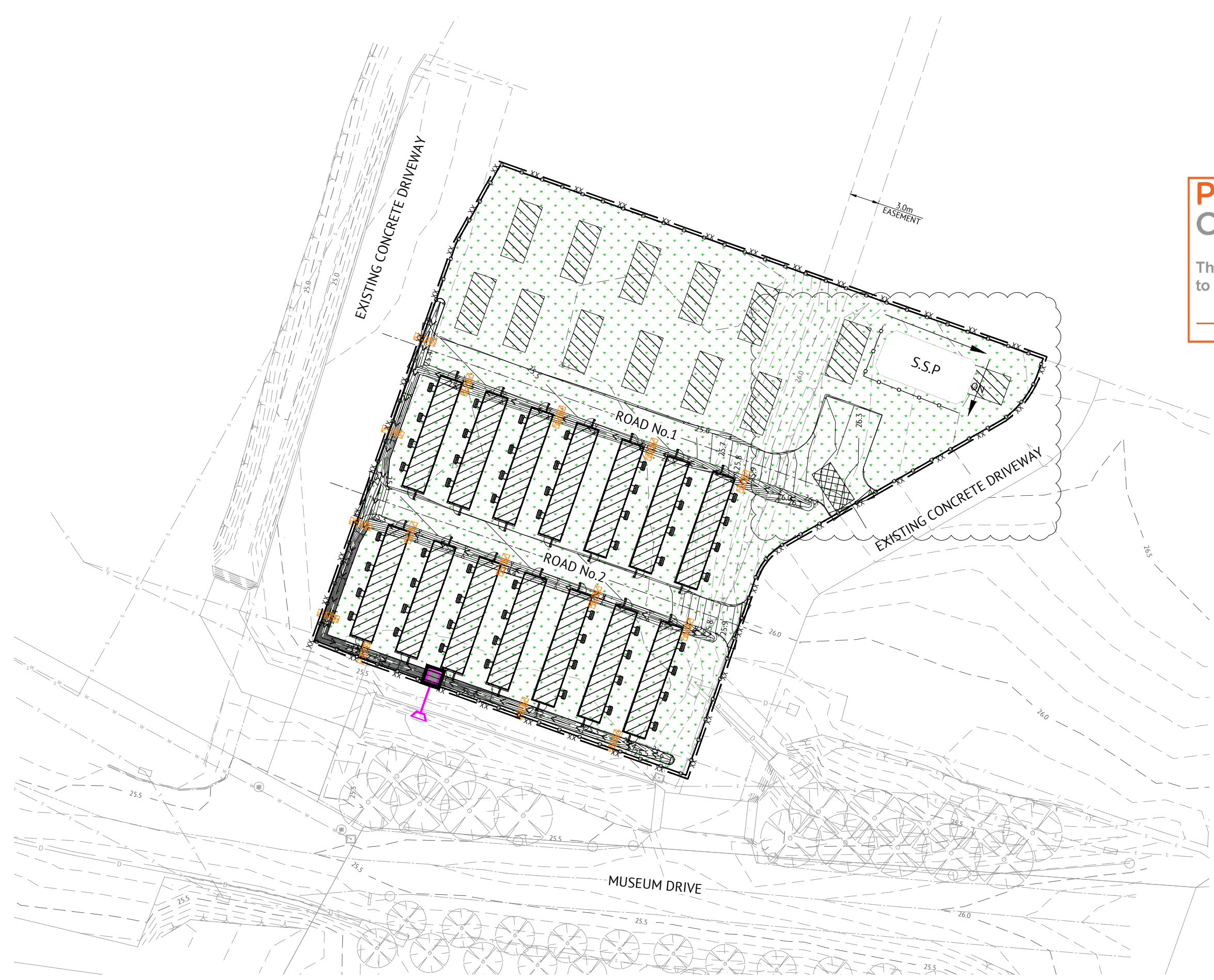


PENRITH CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to Development Consent: **DA20/0360**

Subject to the conditions outlined in the consent



NOTES:
REFER EROSION & SEDIMENT CONTROL FIGURES SHEET C950

- LEGEND**
- XX — LIMIT OF CLEARING & GRADING
 - ○ — SEDIMENT FENCE IN ACCORDANCE WITH FIGURE SD 6-8 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - S.S.P. SOIL STOCKPILE IN ACCORDANCE WITH FIGURE SD 4-1 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - STABILISED SITE ACCESS IN ACCORDANCE WITH FIGURE SD 6-14 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - STRAW BALE IN ACCORDANCE WITH FIGURE SD 6-7 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - MESH AND GRAVAL INLET FILTER IN ACCORDANCE WITH FIGURE SD 6-11 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - GEOTEXTILE INLET FILTER IN ACCORDANCE WITH FIGURE SD 6-12 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - EARTH BANK IN ACCORDANCE WITH FIGURE SD 5-5 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - ROCK CHECK DAM IN ACCORDANCE WITH FIGURE SD 5-4 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
 - DISTURBED AREA

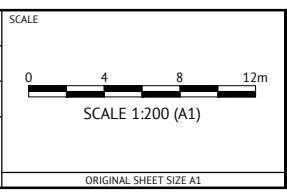
NOTE: REFER DRAWING C002 FOR NOTES AND LEGEND.

CONCEPT DESIGN			
DATE	REV	DESCRIPTION	REVISIONS
27/01/21	3	PCS MODULE AND PARKING ADDED, STABILISED SITE ACCES AMENDED	P.T.T. MZ
19/10/20	2	ISSUED FOR COUNCIL APPROVAL	P.T.T. MZ
07/10/20	1	ISSUED FOR COUNCIL APPROVAL	P.T.T. MZ
			REC APP

Premise

ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED
P.T.T.
CHECKED
M.Z.
PROJECT MANAGER
P.H.



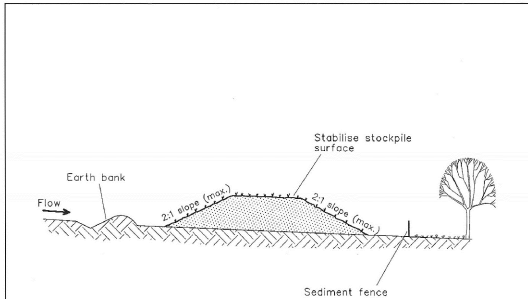
CLIENT **FIRM POWER PTY LTD**

PROJECT **PENRITH PROPOSED BATTERY SITE**

LOCATION **MUSEUM DRIVE, PENRITH**

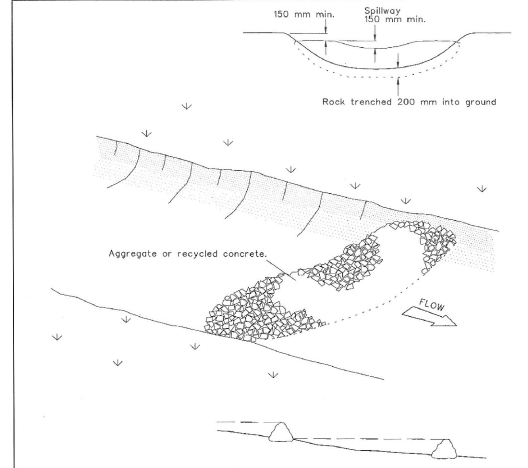
SHEET TITLE **EROSION AND SEDIMENT CONTROL PLAN**

JOB CODE		220049
SHEET NUMBER	REV	
C900	3	



Construction Notes

- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
- Construct on the contour as low, flat, elongated mounds.
- Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
- Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
- Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

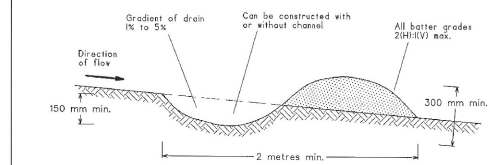


Construction Notes

- Check dams can be built with various materials, including rocks, logs, sandbags and straw bales. The maintenance program should ensure their integrity is retained, especially where constructed with straw bales. In the case of bales, this might require their replacement each two to four months.
- Trench the check dam 200 mm into the ground across its whole width. Where rock is used, fill the trenches to at least 100 mm above the ground surface to reduce the risk of undercutting.
- Normally, their maximum height should not exceed 600 mm above the gully floor. The centre should act as a spillway, being at least 150 mm lower than the outer edges.
- Space the dams so the toe of the upstream dam is level with the spillway of the next downstream dam.

ROCK CHECK DAM

SD 5-4



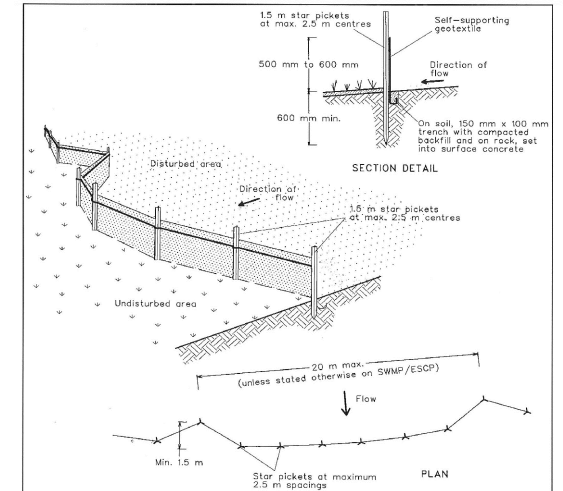
NOTE: Only to be used as temporary bank where maximum upslope length is 80 metres.

Construction Notes

- Build with gradients between 1 percent and 5 percent.
- Avoid removing trees and shrubs if possible - work around them.
- Ensure the structures are free of projections or other irregularities that could impede water flow.
- Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
- Ensure the banks are properly compacted to prevent failure.
- Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW)

SD 5-5



Construction Notes

- Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
- Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
- Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
- Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
- Join sections of fabric at a support post with a 150-mm overlap.
- Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE

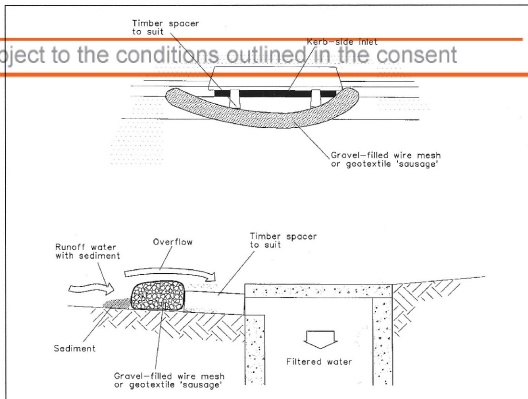
SD 6-8

PENRITH CITY COUNCIL
STOCKPILES

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
SD 4-1

This plan / document relates to Development Consent: **DA20/0360**

Subject to the conditions outlined in the consent



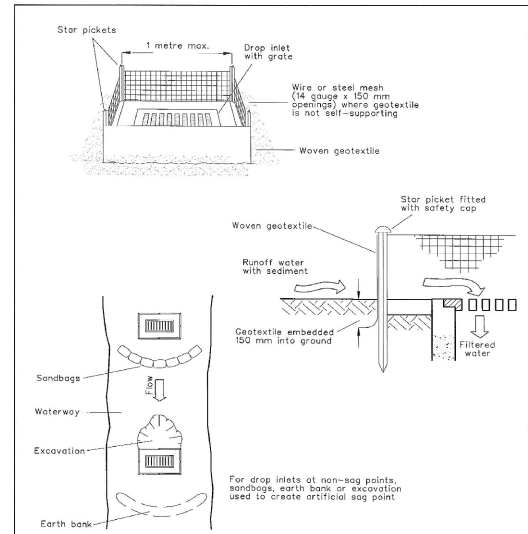
NOTE: This practice only to be used where specified in an approved SWMP/ESCP.

Construction Notes

- Install filters to kerb inlets only at sag points.
- Fabricate a sieve made from geotextile or wire mesh longer than the length of the inlet pit and fill it with 25 mm to 50 mm gravel.
- Form an elliptical cross-section about 150 mm high x 400 mm wide.
- Place the filter at the opening leaving at least a 100-mm space between it and the kerb inlet. Maintain the opening with spacer blocks.
- Form a seal with the kerb to prevent sediment bypassing the filter.
- Sandbags filled with gravel can substitute for the mesh or geotextile providing they are placed so that they firmly abut each other and sediment-laden waters cannot pass between.

MESH AND GRAVEL INLET FILTER

SD 6-11

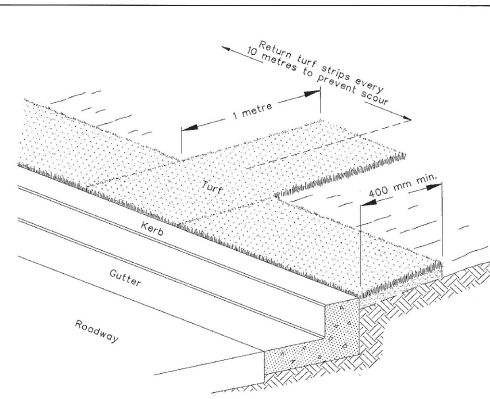


Construction Notes

- Fabricate a sediment barrier made from geotextile or straw bales.
- Follow Standard Drawing 6-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geotextile. Reduce the picket spacing to 1 metre centres.
- In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
- Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTER

SD 6-12

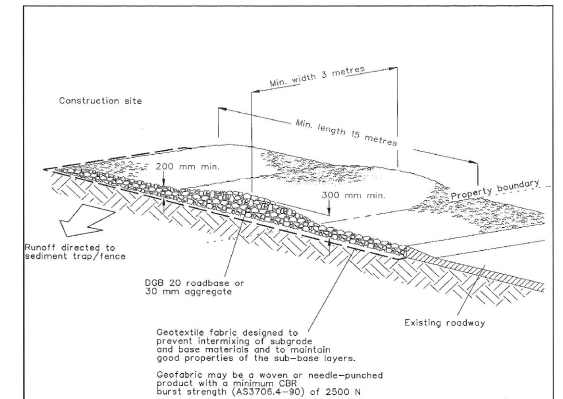


Construction Notes

- Install a 400-mm minimum wide roll of turf on the footpath next to the kerb and at the same level as the top of the kerb.
- Lay 1.4 metre long turf strips normal to the kerb every 10 metres.
- Rehabilitate disturbed soil behind the

KERBSIDE TURF STRIP

SD 6-13



Construction Notes

- Strip the topsoil, level the site and compact the subgrade.
- Cover the area with needle-punched geotextile.
- Construct a 200-mm thick pad over the geotextile using road base or 30-mm aggregate.
- Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
- Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence

STABILISED SITE ACCESS

SD 6-14

CONCEPT DESIGN

DATE	REV	DESCRIPTION	P.T.T. REC	M.Z. APP
07/10/20	1	ISSUED FOR COUNCIL APPROVAL		



ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED
P.T.T.
CHECKED
M.Z.
PROJECT MANAGER
P.H.

SCALE

ORIGINAL SHEET SIZE A1

CLIENT

FIRM POWER PTY LTD

PROJECT

PENRITH PROPOSED BATTERY SITE

LOCATION

MUSEUM DRIVE, PENRITH

SHEET TITLE

EROSION AND SEDIMENT CONTROL FIGURES

JOB CODE

220049

SHEET NUMBER

C950

REV

1

SURVEYING & SPATIAL INFORMATION REGULATION 2017 CLAUSE 70						
MARK	M.G.A. CO-ORDINATES		CLASS	PU	METHOD	STATE
	EASTING	NORTHING				
PM 46428	288 859.805	6 227 986.167	A	0.02	SCIMS	FOUND
SSM 195836	289 008.004	6 227 986.125	D	N/A	SCIMS	FOUND
SSM 195837	288 996.651	6 227 899.724	D	N/A	SCIMS	FOUND
DATE OF SCIMS COORDINATES 22-05-2020						
COMBINED SCALE FACTOR 1.000133 MGA ZONE:56 MGA DATUM GDA2020						

SCHEDULE OF LINES & ARCS

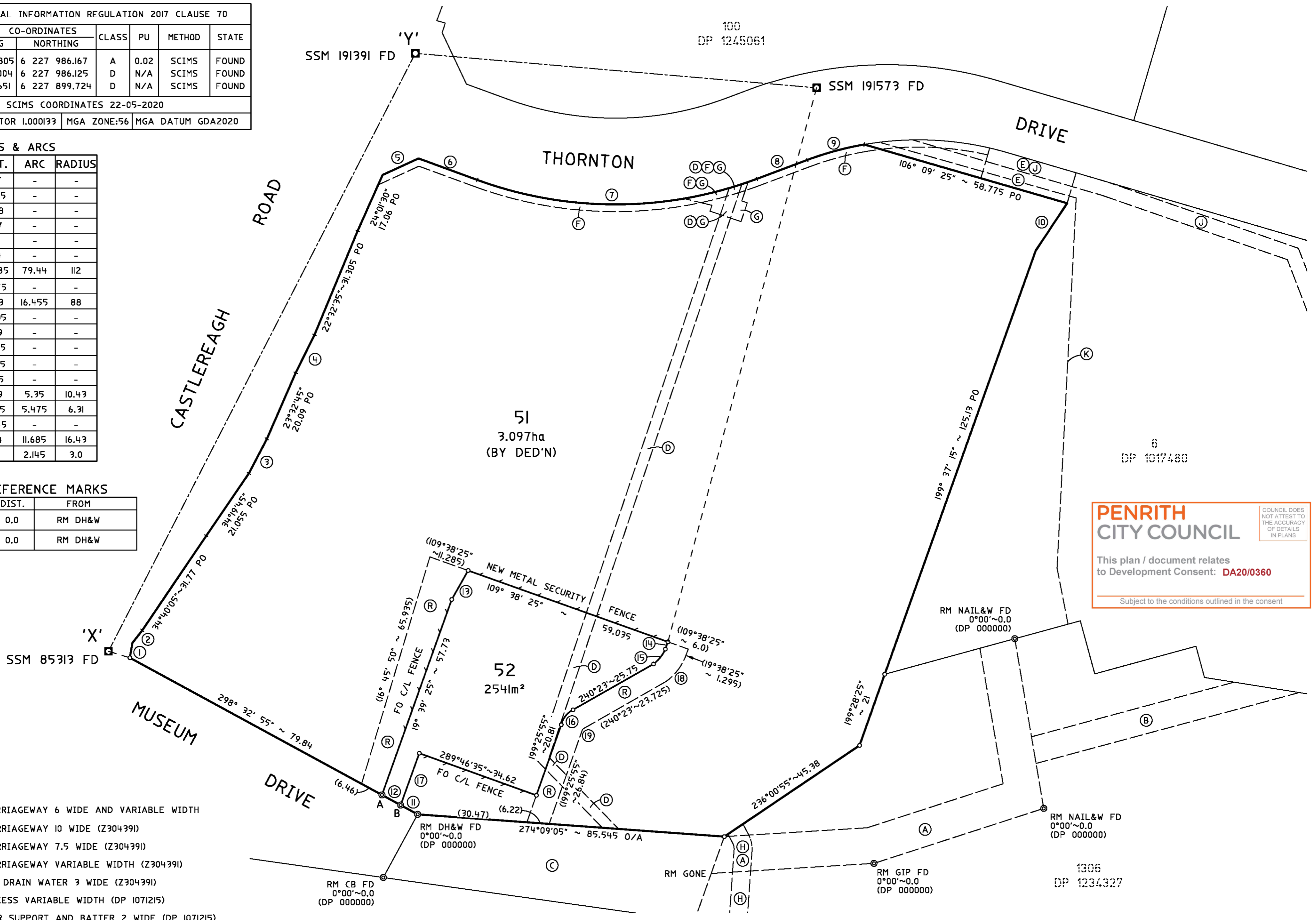
No.	BEARING	DIST.	ARC	RADIUS
1	9°42'45"	4.17	-	-
2	37°57'24"	4.455	-	-
3	27°35'45"	10.78	-	-
4	26°23'24"	11.77	-	-
5	65°22'	11.01	-	-
6	110°05'50"	17.4	-	-
7	89°46'40"	77.785	79.44	112
8	69°27'30"	14.975	-	-
9	74°48'50"	16.43	16.455	88
10	213°36'45"	15.805	-	-
11	298°32'55"	5.39	-	-
12	298°32'55"	5.925	-	-
13	29°27'25"	9.255	-	-
14	199°38'25"	2.145	-	-
15	218°29'30"	5.29	5.35	10.43
16	218°05'30"	5.305	5.475	6.31
17	199°46'35"	15.345	-	-
18	220°00'45"	11.44	11.685	16.43
19	219°54'30"	2.1	2.145	3.0

LINES 1 TO 10 ARE PO

SCHEDULE OF REFERENCE MARKS

CNR.	BEARING	DIST.	FROM
A	0°00'00"	0.0	RM DH&W
B	0°00'00"	0.0	RM DH&W

- (R) ~ RIGHT OF CARRIAGEWAY 6 WIDE AND VARIABLE WIDTH
- (A) ~ RIGHT OF CARRIAGEWAY 10 WIDE (Z304391)
- (B) ~ RIGHT OF CARRIAGEWAY 7.5 WIDE (Z304391)
- (C) ~ RIGHT OF CARRIAGEWAY VARIABLE WIDTH (Z304391)
- (D) ~ EASEMENT TO DRAIN WATER 3 WIDE (Z304391)
- (E) ~ RIGHT OF ACCESS VARIABLE WIDTH (DP 1071215)
- (F) ~ EASEMENT FOR SUPPORT AND BATTER 2 WIDE (DP 1071215)
- (G) ~ EASEMENT FOR DRAINAGE OF WATER VARIABLE WIDTH (DP 1071215)
- (H) ~ EASEMENT FOR UNDERGROUND CABLES 5 WIDE AND 7 WIDE (DP 1234327)
- (J) ~ EASEMENT TO DRAIN WATER 4 WIDE AND VARIABLE (Z304391)
- (K) ~ EASEMENT FOR WATER PIPELINE OVER EXISTING LINE OF PIPES (Z304391)



PENRITH CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to Development Consent: **DA20/0360**

Subject to the conditions outlined in the consent

Surveyor: WARREN RAYMOND SAUNDERS
 Date of Survey: 00/00/0000
 Surveyor's Ref: 220049.02A.DP01

PLAN OF SUBDIVISION OF LOT 5 IN DP 1017480

LGA: PENRITH
 Locality: PENRITH
 Subdivision No:
 Lengths are in metres. Reduction Ratio 1:700

Registered

DRAFT