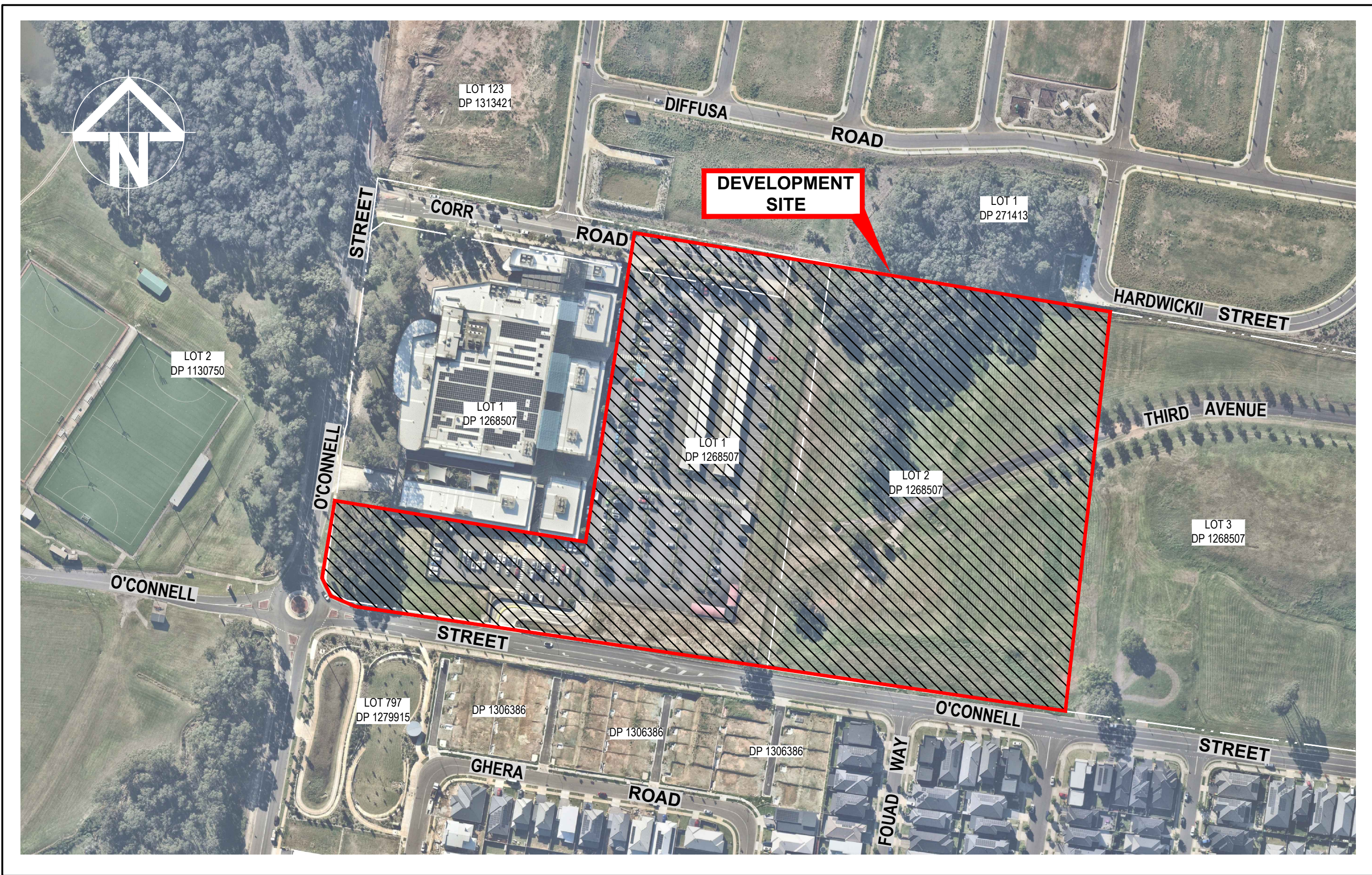


PROPOSED MIXED-USE DEVELOPMENT

68-80 O'CONNELL STREET, CADDENS

CIVIL ENGINEERING PLANS

ISSUED FOR DEVELOPMENT APPLICATION



LOCALITY PLAN

N.T.S.

LOT 1 & 2 DP 1268507

DRAWING LIST

NO	SHEET TITLE
GENERAL	
000	COVER SHEET
001	GENERAL NOTES & LEGEND
002	EXISTING SERVICES AND DEMOLITION PLAN
EROSION AND SEDIMENT CONTROL	
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110	EROSION AND SEDIMENT CONTROL DETAILS
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200	BULK EARTHWORKS PLAN
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400	ROAD 1 - LONGITUDINAL AND TYPICAL CROSS SECTIONS SHEET 1
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710	SIGNAGE AND LINEMARKING PLAN



PROPOSED MIXED-USE DEVELOPMENT

68-80 O'CONNELL STREET, CADDENS

CIVIL ENGINEERING PLANS

PROJECT No.:	STAGE:	MILESTONE:	REVISION DATE:	DRAWING No.:	REVISION:
25037	1	DA	08/08/2025	000	A

GENERAL NOTES

1. ALL WORK IS TO CONFORM TO THE CURRENT COUNCIL STANDARDS, DRAWINGS AND SPECIFICATIONS U.N.O.
2. WHERE CONNECTION IS TO BE MADE TO EXISTING CONSTRUCTION, THE CONTRACTOR SHALL CONFIRM THE LOCATION AND LEVEL OF THIS CONSTRUCTION PRIOR TO COMMENCING WORK ON ANY CRITICAL SECTION. THE SUPERINTENDENT MAY VARY LEVELS AND GRADIENTS OF NEW WORKS TO ACHIEVE A SATISFACTORY CONNECTION.
3. LEVEL DATUM IS AHD.
4. ALL DIMENSIONS ARE IN METRES U.N.O.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO BE SATISFIED OF THE CORRECT LOCATIONS OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONTRACTORS EXPENSE.
6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY BENCH MARK LEVELS AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCIES.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO CONFIRM WITH THE SUPERINTENDENT THE FOLLOWING:
7.A. ALL INSPECTION HOLD POINTS;
7.B. ALL COMPLIANCE TESTING REQUIREMENTS.
8. ANY WORK ON EXISTING SERVICES THAT REQUIRE RELOCATION BY AUTHORITIES SHALL BE CARRIED OUT BY THE RELEVANT AUTHORITY, BUT WITHIN TERMS OF THE CONTRACT, AND SHALL BE CO-ORDINATED BY THE CONTRACTOR.
9. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT A "WORKS AS CONSTRUCTED" SURVEY IN ACCORDANCE WITH THE CURRENT COUNCIL STANDARDS AND SUBMIT THE DETAILS SHOWN ON A PLAN TO THE SUPERINTENDENT.
10. ALL VERGES ARE TO BE FULLY TURFED WITH COUCH. REFER TO LANDSCAPE ARCHITECTS PLANS FOR DETAILS.

EARTHWORKS NOTES

1. EARTHWORKS NOTES ARE TO BE READ IN CONJUNCTION WITH THE GENERAL AND COORDINATION NOTES.
2. EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH PROCEDURES SET DOWN IN AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
3. BULK EARTHWORKS INCLUDING CLEARING, FILLING AND TESTING, ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT COUNCIL STANDARDS, DRAWINGS AND SPECIFICATIONS. COUNCIL STANDARDS SUPERSEDE ANY NOTES OR SPECIFICATIONS WRITTEN ON THE DESIGN DRAWINGS.
4. BULK EARTHWORKS LEVELS SHALL BE DETERMINED RELATIVE TO THE FINISHED SURFACE LEVELS. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB LEVELS, TO STRUCTURAL ENGINEERS DRAWINGS FOR BUILDING AND PATH SLAB THICKNESS, AND TO CIVIL ENGINEERS DRAWINGS FOR EXTERNAL FINISHED SURFACE LEVELS AND EXTERNAL PAVEMENT THICKNESSES.
5. TOPSOIL SHALL BE STOCKPILED AS DIRECTED BY THE SUPERINTENDENT ON SITE.
6. PRIOR TO PLACEMENT OF ANY FILLING, ALL TOPSOIL AND ORGANIC MATERIAL IS TO BE REMOVED AND THE SUBGRADE SHALL BE UNIFORMLY COMPACTED TO THE MINIMUM DRY DENSITY RATIOS SHOWN IN NOTE 8. ANY SOFT SPOTS REVEALED BY COMPACTION SHALL BE REMOVED AS DIRECTED BY THE SUPERINTENDENT AND BACKFILLED WITH COMPACTED SELECT FILL.
7. MOISTURE CONTENT OF COMPACTED FILL SHOULD BE MAINTAINED WITHIN 2% OF OPTIMUM MOISTURE CONTENT.
8. FILL SHALL BE COMPACTED IN MAXIMUM 200mm THICK LAYERS (LOOSE THICKNESS) TO THE FOLLOWING MINIMUM DRY DENSITY RATIOS (STANDARD COMPACTION A.S.1289.5-1):
8.A. UPPER 0.3m OF PAVEMENT SUBGRADE = 100%;
8.B. UNDER BUILDINGS = 98%;
8.C. GENERAL FILL = 95%.
9. ALL FILL MATERIAL PLACED ON THE SITE SHALL COMPRISE ONLY NATURAL EARTH AND ROCK, AND IS TO BE FREE OF CONTAMINANTS (AS DEFINED BY SECTION 11 OF THE ENVIRONMENTAL PROTECTION ACT 1994), NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIALS. NO DEMOLITION MATERIAL IS TO BE USED. SUITABLE FILL MATERIAL IS DEEMED TO COMPLY WITH THE REQUIREMENTS OF CLAUSE 4.3 OF AS3798, 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
- 10.IMPORTED FILL SHALL COMPLY WITH THE FOLLOWING:
10.A. SOAKED CBR = MINIMUM OF 15%;
10.B. LIQUID LIMIT = 30% MAX;
10.C. PLASTICITY INDEX = 15% MAX;
10.D. MAXIMUM AGGREGATE SIZE = 75mm;
10.E. PASSING 0.075mm SIEVE = 30% MAX;
10.F. SHRINK/SWELL INDEX = 1.0% MAX.
- 11.THE CONTRACTOR IS TO ENGAGE, AT THEIR EXPENSE, AN APPROVED NATA REGISTERED LABORATORY TO CARRY OUT SITE CONTROL TO 'LEVEL 1' STANDARD AS SET OUT IN APPENDIX B OF AS3798-2007 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS' AND PROVIDE A 'LEVEL 1' REPORT ON COMPLETION OF EARTHWORKS.

DRAINAGE NOTES

1. DRAINAGE NOTES ARE TO BE READ IN CONJUNCTION WITH THE GENERAL AND COORDINATION NOTES.
2. CONTRACTOR IS TO CHECK THAT THE PROPOSED PIPE WORKS DO NOT CLASH WITH EXISTING SERVICES PRIOR TO ANY TRENCH EXCAVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY CLASHES ARE FOUND FOR ADVICE ON ANY DESIGN REQUIREMENTS.
3. STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE ASSESSMENT OF CONSTRUCTION LOADS AND PROVISION OF ANY TEMPORARY BRACING, PROPPING, ETC. REQUIRED DURING CONSTRUCTION. STRUCTURES SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
4. ALL TRENCH EXCAVATIONS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE WORKPLACE HEALTH AND SAFETY 1989 AS AMENDED AND THE MINE REGULATIONS ACT.
5. ALL TRENCHES IN TRAFFICABLE AND NON TRAFFICABLE ZONES SHALL BE BACKFILLED TO DENSITY RATIOS, FREQUENCIES AND LAYER INTERVALS IN ACCORDANCE WITH THE CURRENT COUNCIL STANDARDS. ALL TEST RESULTS SHALL BE FORWARDED TO THE SUPERINTENDENT AS THEY BECOME AVAILABLE.
6. ALL PRECAST CONCRETE PIPES ARE TO BE MANUFACTURED IN ACCORDANCE WITH AS 4058. STORMWATER PIPES SHALL BE TO FOLLOWING CLASSES U.N.O.
6.A. REINFORCED CONCRETE PIPES (RCP) = CLASS 2;
6.B. FIBRE REINFORCED PIPES (FRC) = CLASS 2;
6.C. uPVC = CLASS 'SEH'.
7. ALL RCP PIPES SHALL HAVE THE FOLLOWING JOINTS U.N.O.
7.A. RCP <=600 DIA = RUBBER RING JOINTED (RRJ);
7.B. RCP >600 DIA = FLUSH JOINTED (FJ).
8. ROOFWATER PIPES SHALL BE uPVC PIPES CLASS 'SH' U.N.O.
9. REFER TO STORMWATER LONGITUDINAL SECTIONS FOR ALL STRUCTURE TYPES, SIZES, LEVELS AND GRATE TYPES. GRATES SHALL BE TRAFFICABLE CLASS 'D' U.N.O.
- 10.MANHOLE AND FIELD INLET ACCESS SHALL BE INSTALLED AS DESCRIBED BELOW IN ACCORDANCE WITH AS1657:
10.A. GULLY/FIELD INLETS >1.35m DEPTH: STEP IRONS;
10.B. MANHOLES 0.850m-3.0m DEPTH: STEP IRONS;
10.C. MANHOLES >3.0m DEPTH: FIXED ACCESS LADDER.
- 11.TEST CERTIFICATES AND MATERIAL CERTIFICATION DOCUMENTATION IS REQUIRED FOR ALL PIPES, FITTINGS, BOX CULVERTS AND OTHER PRECAST CONCRETE PRODUCTS.
- 12.ALL STORMWATER SETOUT IS TO CENTRE OF STRUCTURE U.N.O.

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION & SEDIMENT CONTROL (ESC) NOTES ARE TO BE READ IN CONJUNCTION WITH THE GENERAL AND COORDINATION NOTES.
2. ALL ESC MEASURES SHALL BE IN ACCORDANCE WITH CURRENT COUNCIL STANDARDS, DRAWINGS AND SPECIFICATIONS U.N.O.
3. CONSTRUCTION OF ALL SEDIMENT CONTROL MANAGEMENT DEVICES SHALL BE TO THE SATISFACTION OF THE SUPERINTENDENT. THE CONTRACTOR IS TO FOLLOW THE CONSTRUCTION PHASE AS OUTLINED:
3.A. CONSTRUCTION OF EROSION AND SEDIMENT DEVICES;
3.B. STRIPPING TOPSOIL;
3.C. BULK EARTHWORKS;
3.D. SERVICES, BUILDING, PAVEMENT AND ROAD CONSTRUCTION;
3.E. LANDSCAPED AREAS TO BE TOPSOILED, TURFED, MULCHED OR PLANTED.
4. THE CONTRACTOR IS TO PROVIDE A CONSTRUCTION TRAFFIC SHAKEDOWN DEVICE AT ALL RELEVANT POINTS OF EXIT FROM THE SITE. THE CONTRACTOR SHALL CLEAN OUT AND MAINTAIN THE SHAKEDOWN DEVICE REGULARLY TO ENSURE EFFICIENT OPERATION.
5. THE CONTRACTOR SHALL PROVIDE SILT FENCES IMMEDIATELY DOWNSTREAM OF ANY SOIL STOCKPILES.
6. BOTH TEMPORARY AND PERMANENT ESC MEASURES SHALL BE MAINTAINED AT A SUITABLE LEVEL/CONDITION THROUGHOUT CONSTRUCTION TO THE SATISFACTION OF THE SUPERINTENDENT.
7. ALL TEMPORARY ESC MEASURES SHALL BE MAINTAINED AND FULLY OPERATIONAL DURING THE CONSTRUCTION AND MAINTENANCE PERIOD, AND ARE TO BE REMOVED AFTER THE SATISFACTORY COMPLETION OF AN 'OFF MAINTENANCE' INSPECTION BY THE SUPERINTENDENT.
8. ALL ESC MEASURES ARE TO BE INSPECTED AT LEAST DAILY, PRIOR TO EXPECTED RAINFALL AND AFTER RAINFALL. ANY DAMAGE OR EXCESS EROSION/SEDIMENT IS TO BE REPAIRED/MANAGED AS REQUIRED TO MAINTAIN CONTROL DEVICES.
9. ALL ESC MEASURES MUST SUIT THE PREVAILING CLIMATE/WEATHER CONDITIONS AT THE TIME OF CONSTRUCTION.
- 10.THE CONTRACTOR IS TO ENSURE THE SUPPRESSION OF DUST AT ALL TIMES DURING THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE DEVELOPMENT. ENVIRONMENTAL HARM AND NUISANCE FROM DUST IS TO BE PREVENTED. ACCEPTABLE METHODS INCLUDE:
10.A. WATERING;
10.B. PROMOTING VEGETATION IN WIND EROSION PRONE AREAS;
10.C. CONSTRUCTING WIND BREAKS;
10.D. MULCHING.
- 11.THE CONTRACTORS VEHICLES & PLANT SHALL NOT OPERATE OUTSIDE THE LIMITS OF THE IMMEDIATE CONSTRUCTION AREA AND ARE RESTRICTED FROM CROSSING OR DISTURBING AREAS NOT SUBJECT TO CONSTRUCTION.
- 12.ANY WATER TRAPPED WITHIN THE TEMPORARY SEDIMENT BASIN IS TO BE REGULARLY TESTED DURING THE COURSE OF CONSTRUCTION. REFER TO WATER QUALITY MONITORING TABLE FOR DETAILS.
- 13.ALL DISTURBED GROUND IS TO BE GRASS SEEDED TO PREVENT EROSION IF THE DISTURBED GROUND IS TO BE LEFT "OPEN" FOR A PERIOD GREATER THAN ONE (1) MONTH.

LEGEND

DESCRIPTION	PROPOSED	EXISTING	FUTURE
STORMWATER PIPELINE			
STORMWATER DRAINAGE PITS			
DRAINAGE LINE No. 3 DRAINAGE PIT No. 10			
CONCRETE HEADWALL			
SUBSOIL DRAIN			
150mm KERB AND GUTTER		EXIST. K&G	FUT. K&G
ROLL KERB AND GUTTER		EXIST. RK	FUT. RK
KERB ONLY		EXIST. KO	FUT. KO
EDGE STRIP		EXIST. ES	FUT. ES
MOUNTABLE KERB		EXIST. MK	FUT. MK
DISH CROSSING		EXIST. DC	FUT. DC
VEHICULAR CROSSING		EXIST. VC	FUT. VC
PEDESTRIAN RAMP		EXIST. PR	FUT. PR
EDGE OF BITUMEN		EXIST. EOB	FUT. EOB
ROAD PAVEMENT			
BATTERS			
CONCRETE PATHWAY			
CONTOURS			
SITE REGRADING AREA			
SERVICE LINES SEWER, GAS, WATER, ELECTRICITY			
COMMUNICATION LINES TELSTRA, FIBRE OPTIC, NBN			
OVER HEAD LINES AND POLES			
SERVICE PITS TELECOM PIT, ACCESS CHAMBER, HYDRANT, STOP VALVE, AIR VALVE			
LIMIT OF ROAD CONSTRUCTION			
STAGE BOUNDARY			
FENCE POST AND RAIL FENCE SECURITY FENCE		REMOVE RETAIN	
RETAINING WALL			
ROCK WALL			
ROOF WATER OUTLET TO KERB			
ROOF WATER OUTLET TO BACK OF PIT			



DISCLAIMER

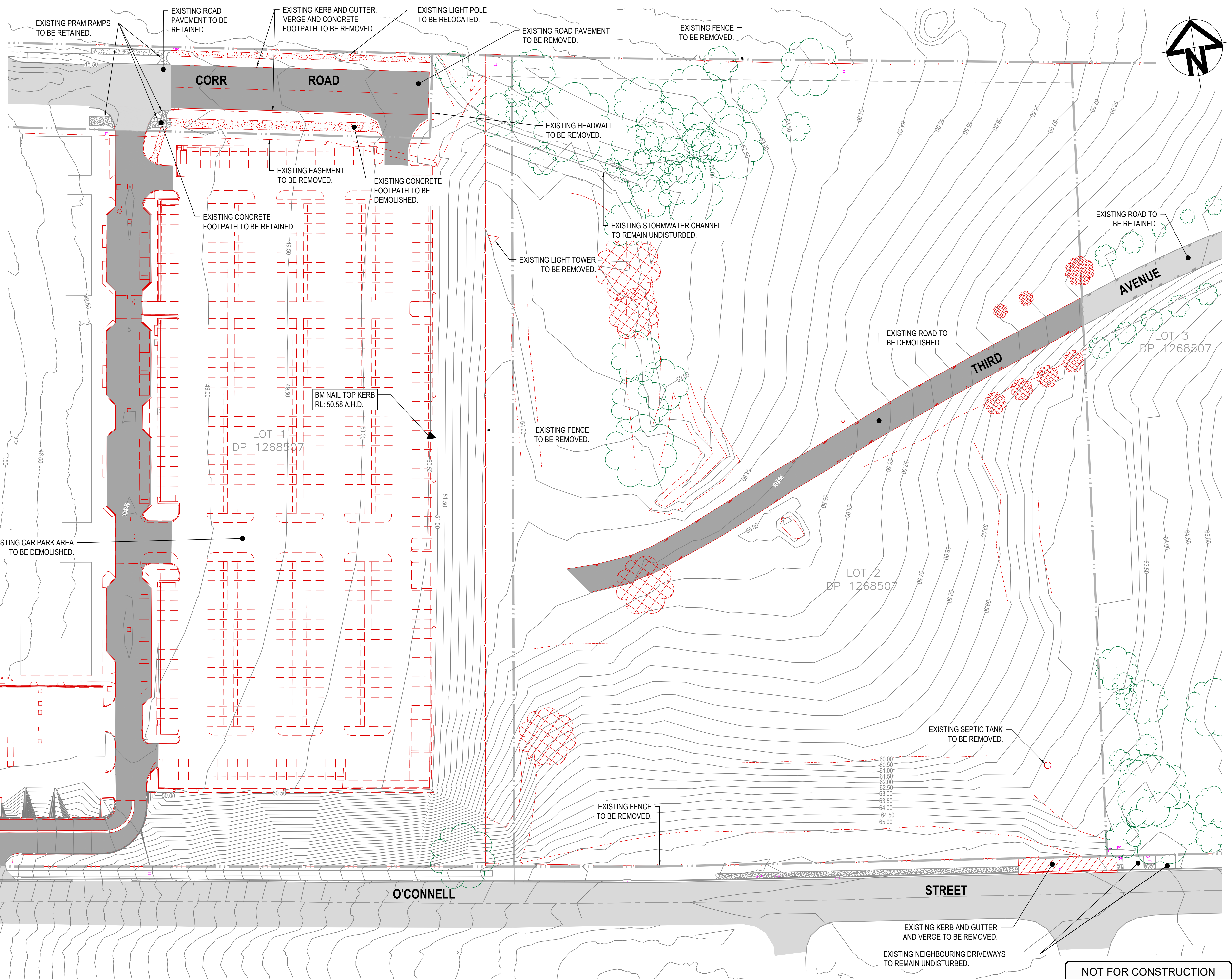
ALL INFRASTRUCTURE INFORMATION (MAINS, SEWER, PIPES ETC.) IS DERIVED FROM DIAL BEFORE YOU DIG RECORDS. EVERY EFFORT WAS MADE TO ENSURE ACCURACY OF THESE RECORDS WHEN COMPILED. NO WARRANTY IS GIVEN TO CURRENCY OF DEPTHS AND LEVELS DUE TO THE POSSIBILITY OF SUBSEQUENT ALTERATION OF LEVELS THROUGH FILLING OR EXCAVATION. USERS OF THE INFORMATION IN THIS DRAWING/DESIGN SHOULD TAKE ALL REASONABLE STEPS TO VERIFY THE RELEVANT INFORMATION BEFORE COMMENCING EXCAVATING OR CONSTRUCTION WORK. TELFORD CONSULTING CIVIL AND STORMWATER ENGINEERS TAKE NO RESPONSIBILITY FOR APPARENT ERRORS OR INACCURACIES IN THE INFORMATION PROVIDED.

NOT FOR CONSTRUCTION

					Certification By Dr. Michel Chasaya B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng., Civil & Structural Engineer		Client	Council	Scale	TEL FORD CIVIL CONSULTING CIVIL & STORMWATER ENGINEERS Level 14, 32 Smith Street, Parramatta NSW 2150 PO BOX 3579 Parramatta 2124 Email : info@telfordcivil.com.au Phone : 02 7809 4931 Company : Telford Consulting Pty Ltd	Project 68-80 O'CONNELL STREET, CADDENS PROPOSED MIXED-USE DEVELOPMENT CIVIL ENGINEERING PLANS DEVELOPMENT APPLICATION	Drawing Title GENERAL NOTES & LEGEND						
A	ISSUE FOR DEVELOPMENT APPLICATION				08/08/2025	J.T.K.	J.A.B.											
Issue	Description	Date	Design	Checked								Scale	A1	Project No.	Dwg. No.	Issue		
												N.T.S.		25037	001	A		

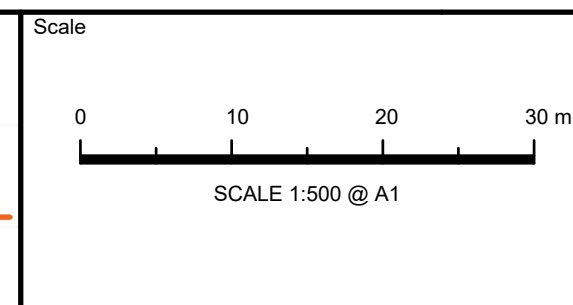
LEGEND

- EXISTING LOT BOUNDARY
- EXISTING CONTOUR
- EXISTING ROAD CENTRELINE
- EXISTING STRUCTURES TO BE DEMOLISHED
- EXISTING EDGE OF BITUMEN
- EXISTING TOP OF BANK TO BE REMOVED
- EXISTING BOTTOM OF BANK TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- EXISTING ROAD PAVEMENT TO BE RETAINED
- EXISTING ROAD PAVEMENT TO BE REMOVED
- EXISTING CONCRETE FOOTPATH
- EXISTING CONCRETE FOOTPATH TO BE REMOVED
- EXISTING ELECTRICITY
- EXISTING SEWER MAIN
- EXISTING GAS
- EXISTING WATER MAIN
- EXISTING TELSTRA
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED
- EXISTING POWER POLE TO BE RELOCATED
- EXISTING POWER POLE TO BE RETAINED



A		ISSUE FOR DEVELOPMENT APPLICATION	08/08/2025	J.T.K.	J.A.B.
Issue	Description	Date	Design	Checked	
10m at full size					

Certification By Dr. Michel Chasay
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng.,
Civil & Structural Engineer



TELFORD CIVIL
CONSULTING CIVIL & STORMWATER ENGINEERS
Level 14, 32 Smith Street,
Parramatta NSW 2150
PO BOX 3579 Parramatta 2124
Email : info@telfordcivil.com.au
Phone : 02 7809 4931
Company : Telford Consulting Pty Ltd

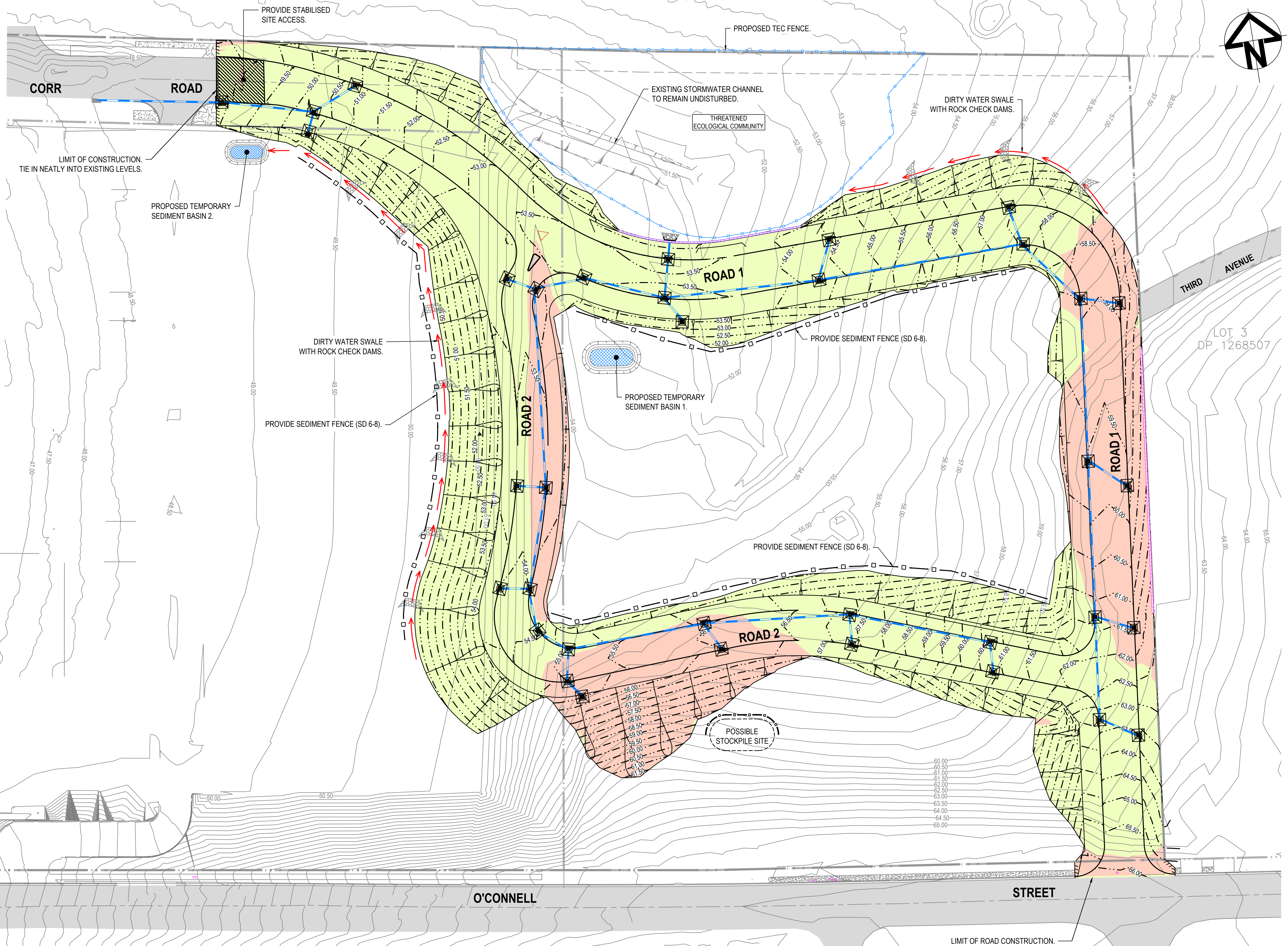
Project
68-80 O'CONNELL STREET, CADDENS
PROPOSED MIXED-USE DEVELOPMENT
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title		EXISTING SERVICES AND DEMOLITION PLAN			
Scale	A1	Project No.	Dwg. No.	Issue	
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LEGEND

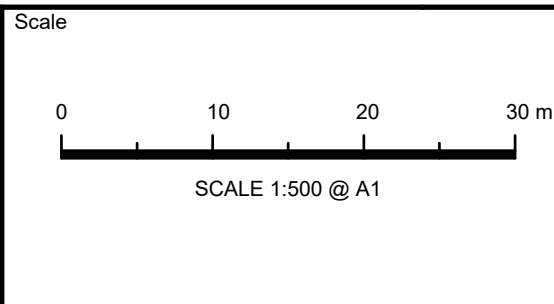
- SEDIMENT FENCE (SD 6-8)
- STABILISED ACCESS POINT
- GEOTEXTILE INLET FILTER (SD 6-12) DURING CONSTRUCTION OF THE ROAD. MESH & GRAVEL INLET FILTER (SD 6-11) AFTER CONSTRUCTION OF LINTEL. FILTER TO BE REMOVED AFTER COMPLETION OF ALL WORKS AND PRIOR TO SUBDIVISION CERTIFICATE
- CUT AREA
- FILL AREA
- EXISTING ROAD PAVEMENT
- CLEAN WATER DIVERSION SWALE
- DIRTY WATER DIVERSION SWALE
- DESIGN CONTOURS
- EXISTING CONTOURS
- TEMPORARY SEDIMENT BASIN
- EXTENT OF WORKS
- EXISTING LOT BOUNDARY
- PROPOSED LOT BOUNDARY
- PROPOSED STORMWATER PIPE
- PROPOSED TEMPORARY HEADWALL
- PROPOSED GABION WALL
- PROPOSED CONCRETE RETAINING WALL
- PROPOSED TEC FENCE

NOTE:
ROAD BATTERS SHOWN ARE POSSIBLE TEMPORARY
BATTERS DURING ROAD CONSTRUCTION.



A		ISSUE FOR DEVELOPMENT APPLICATION	08/08/2025	J.T.K.	J.A.B.
Issue	Description	Date	Design	Checked	
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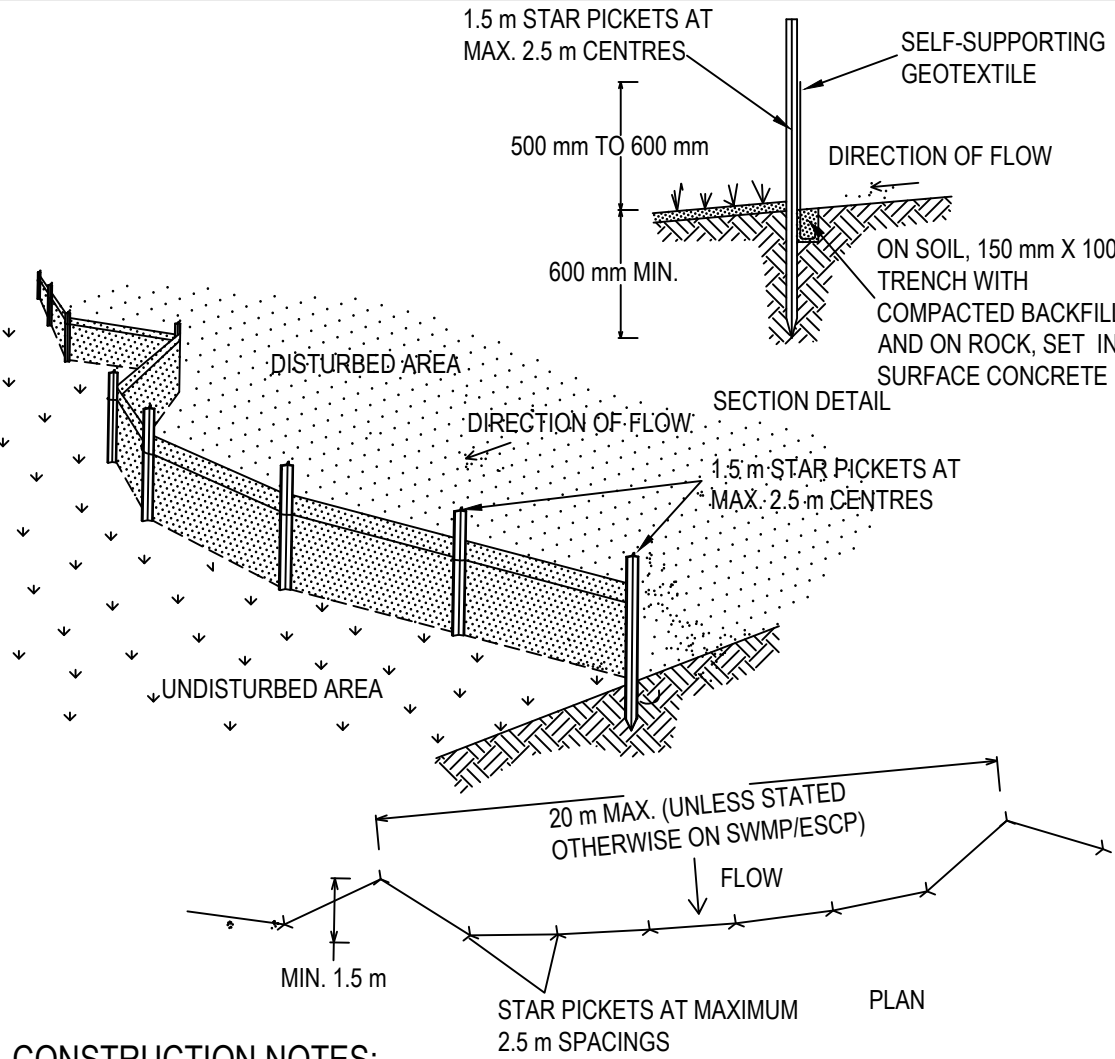
Certification By Dr. Michel Chasys
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng.,
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TELFORDCIVIL
CONSULTING CIVIL & STORMWATER ENGINEERS
Level 14, 32 Smith Street, Parramatta NSW 2150
PO BOX 3579 Parramatta 2124
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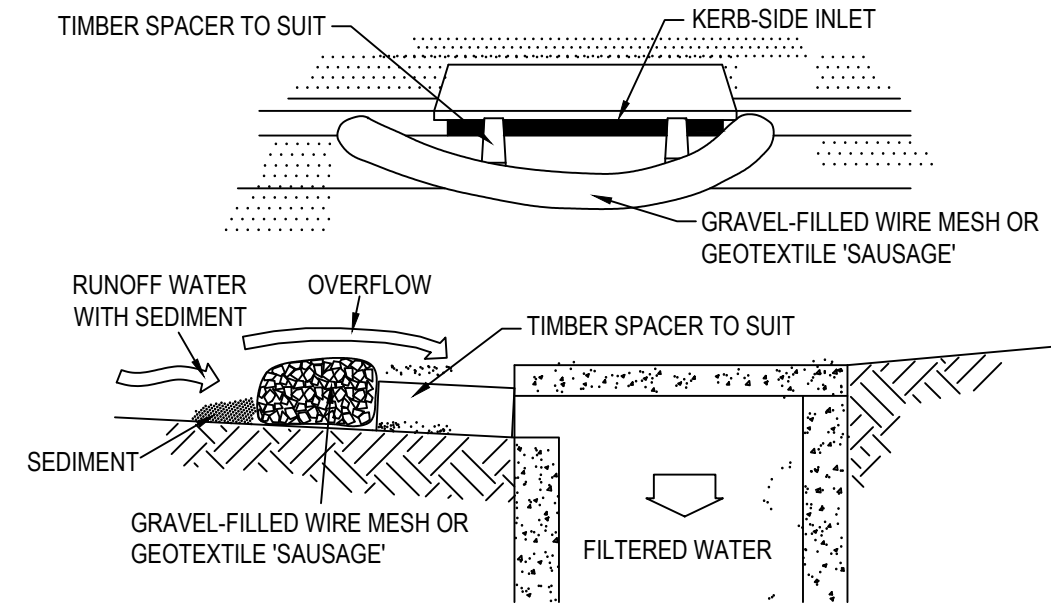
Project
68-80 O'CONNELL STREET, CADDENS
PROPOSED MIXED-USE DEVELOPMENT
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title EROSION AND SEDIMENT CONTROL PLAN		Scale 1:500	A1	Project No. 25037	Dwg. No. 100	Issue A
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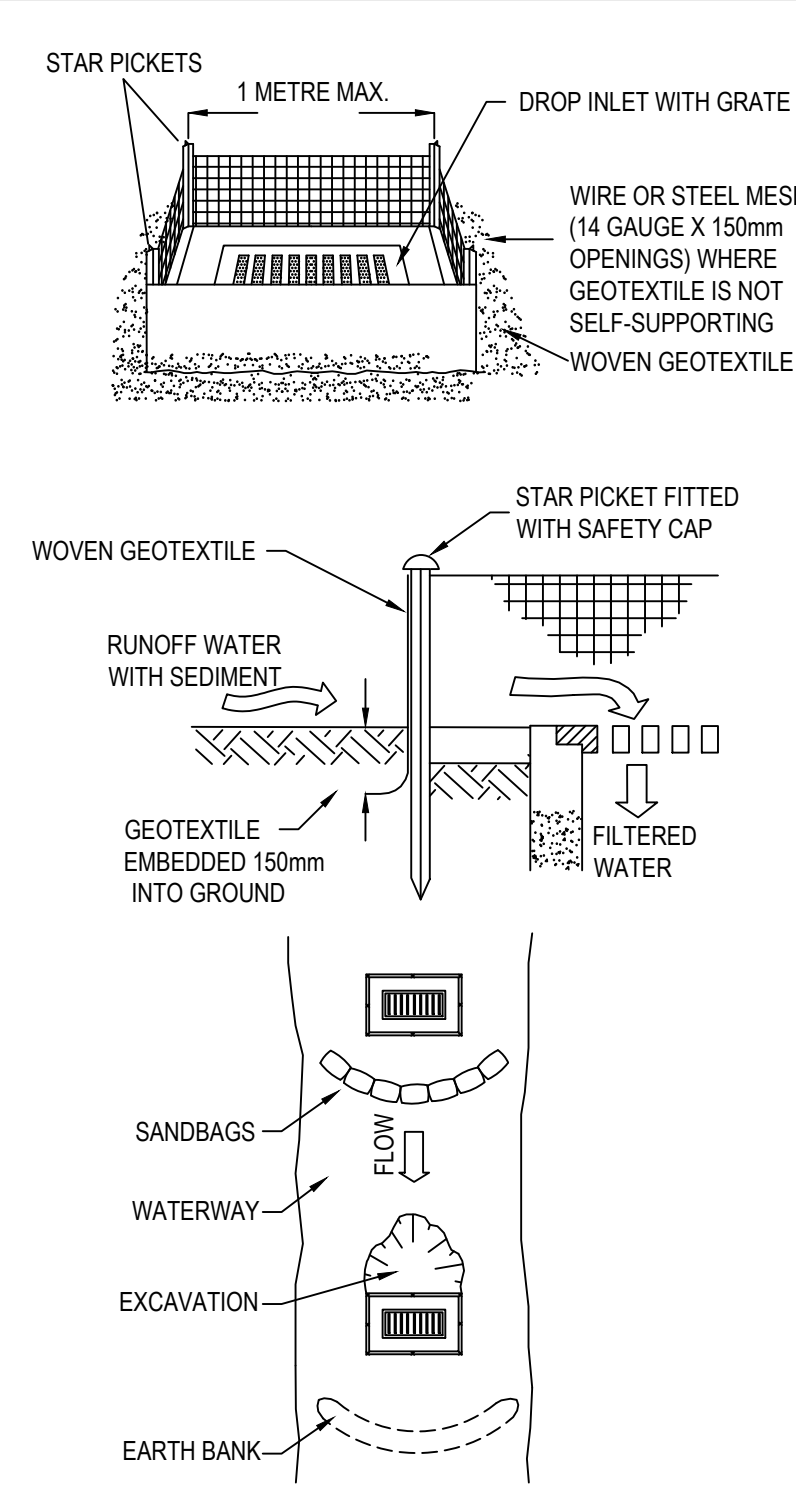
- CONSTRUCTION NOTES:**
1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
 2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
 3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
 4. 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.
 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE SD 6-8



- CONSTRUCTION NOTES:**
1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
 3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
 6. 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

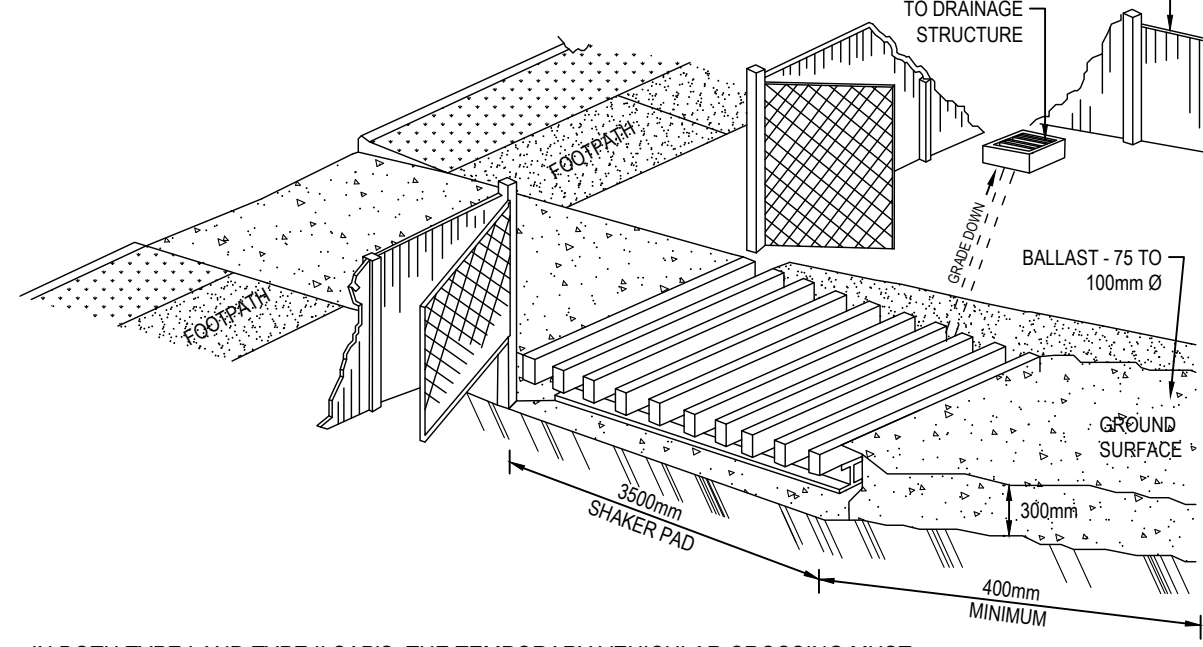


- CONSTRUCTION NOTES:**
1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
 2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1m CENTRES.
 3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
 4. 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

STABILISED ACCESS POINT-TYPE 2

THE TYPE II SAP DESIGN IS MORE DEFINED IN THAT IT REQUIRES AN AREA OF BALLAST WITHIN THE SITE COMBINED WITH A SHAKER PAD; ADJACENT TO THE SHAKER PAD AND IN THE PUBLIC WAY IS A TEMPORARY (CONCRETE) VEHICULAR CROSSING. (SEE DIAGRAM)



- IN BOTH TYPE I AND TYPE II SAP'S, THE TEMPORARY VEHICULAR CROSSING MUST:
- CONNECT TO AN EXISTING GUTTER LAYBACK (WHERE THE KERB AND GUTTER EXIST). IF A GUTTER LAYBACK DOES NOT EXIST, THEN THE CONNECTION MUST BE MADE TO THE GUTTER BY REMOVING THE ADJACENT KERB SECTION ONLY.
 - CONNECT TO A DISH CROSSING (WHERE KERB AND GUTTER DOES NOT EXIST). IF A DISH CROSSING DOES NOT EXIST, THEN IT MUST BE CONSTRUCTED IN ACCORDANCE WITH DETAILS CONTAINED IN COUNCIL'S ISSUED FOOTPATH CROSSING LEVELS.

IT SHOULD BE NOTED THAT THESE TYPES OF SAPS ARE CONSIDERED TO BE APPLICABLE FOR THE MAJORITY OF ACTIVITIES HOWEVER SOME SITES MAY REQUIRE SPECIAL CONSIDERATION.

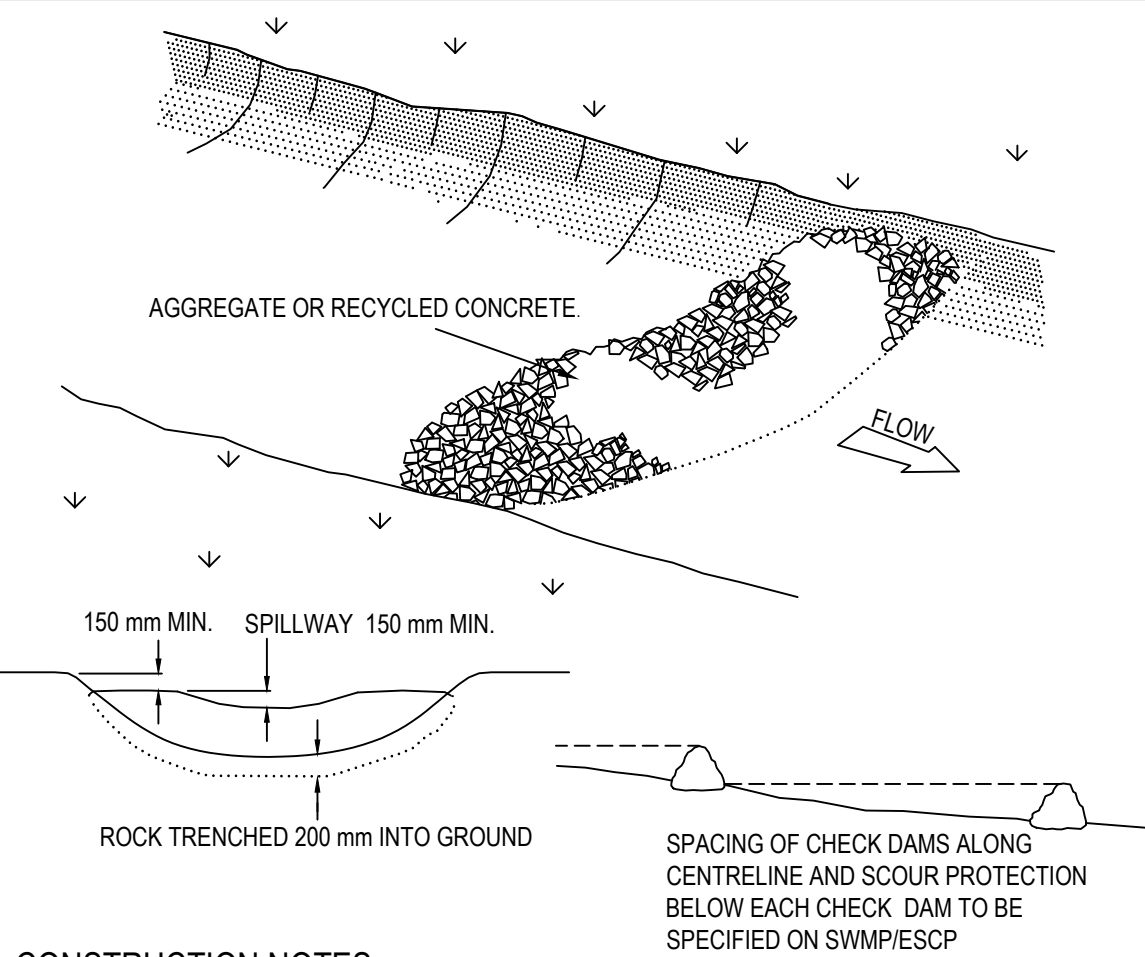
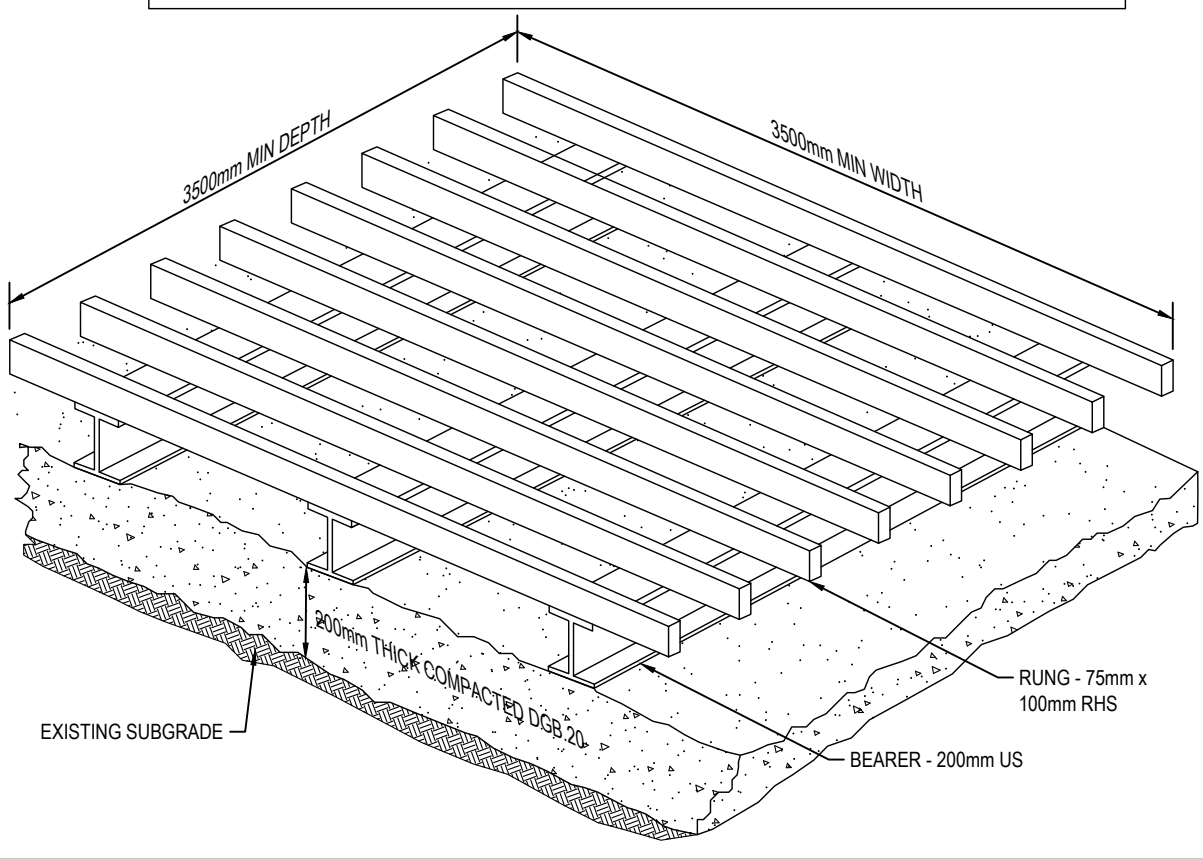
SHAKER PAD (CATTLE GRID)

A CORRECTLY DESIGNED AND INSTALLED SHAKER PAD WILL ASSIST IN PREVENTING SEDIMENT TRANSFER FROM A SITE. ANY STABILISED ACCESS POINT (SAP) CAN BE DESIGNED WITH A SHAKER PAD (COMPULSORY IN TYPE II SAP'S).

SHAKER PADS CAN BE DESIGNED AND CONSTRUCTED TO ENABLE RE-USE ON FUTURE PROJECTS.

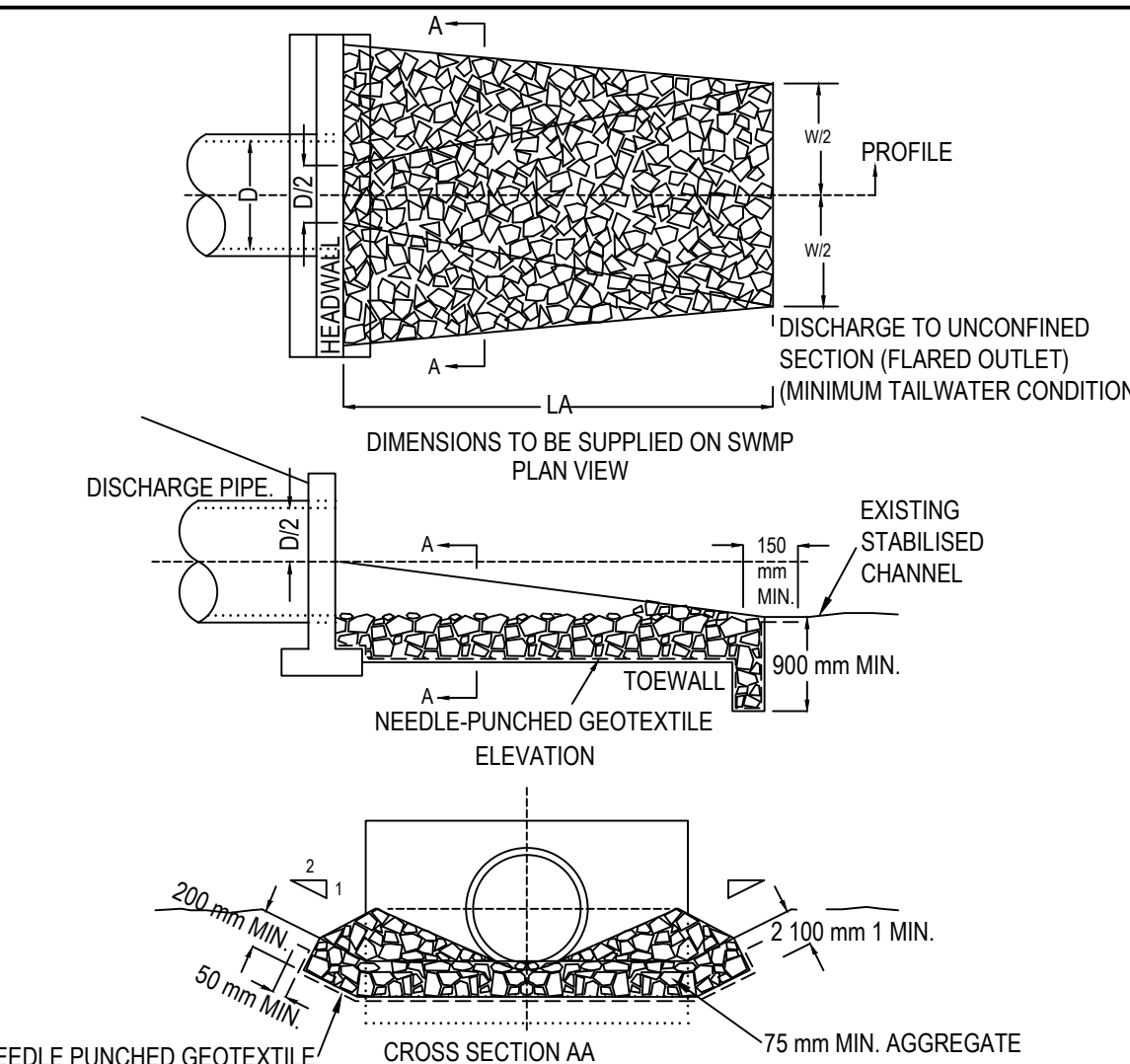
- THE SHAKER PAD:
- MUST BE DESIGNED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER. THE CERTIFIED DESIGN SHOULD BE SUBMITTED WITH THE RELEVANT APPLICATION.
 - CAN BE CONSTRUCTED FROM ANY SUITABLE MATERIAL.
 - MUST BE LOCATED ON A SUITABLY PREPARED AND COMPACTED SUB-GRADE/BASE MATERIAL.
 - MUST BE SITUATED SUCH THAT THE RUNGS OF THE SHAKER PAD ARE LEVEL WITH THE ADJOINING NATURAL SURFACE.
 - MUST BE A MINIMUM OF 3.5m IN LENGTH.
 - MUST BE A MINIMUM OF 3.5m IN WIDTH.
 - MUST HAVE CLEAR SPACING BETWEEN RUNGS OF 200 - 250mm.
 - RUNGS MUST HAVE A MAXIMUM WIDTH (BEARING AREA) OF 75mm.
 - MUST HAVE A MINIMUM CLEAR DEPTH OF 300mm IE FROM THE TOP OF THE RUNG TO THE FINISHED SUB-GRADE/BASE LEVEL.

THE SHAKER PAD MUST BE PROVIDED WITH SUITABLE BARRIERS AT THE SIDES TO ENSURE THAT ALL TYRES OF VEHICLES LEAVING THE SITE TRAVERSE THE DEVICE.



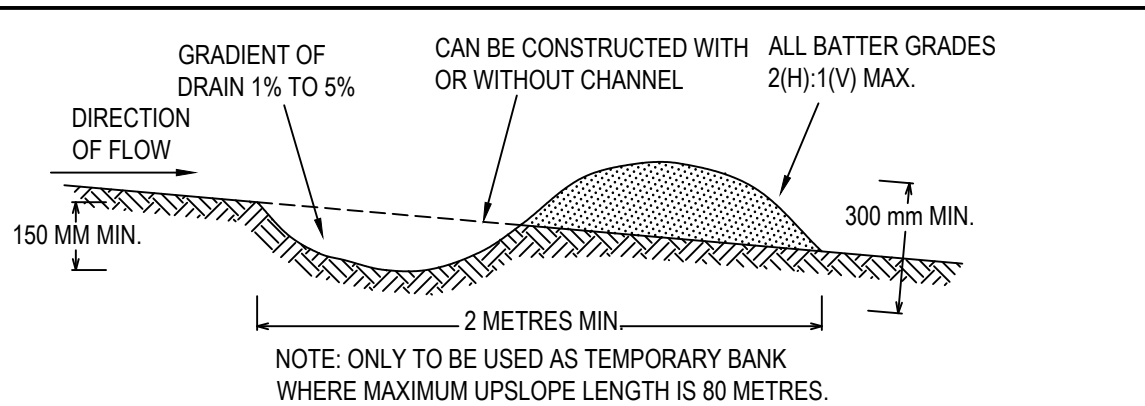
- CONSTRUCTION NOTES:**
1. CHECK DAMS CAN BE BUILT WITH VARIOUS MATERIALS, INCLUDING ROCKS, LOGS, SANDBAGS AND STRAW BALES. THE MAINTENANCE PROGRAM SHOULD ENSURE THEIR INTEGRITY IS RETAINED, ESPECIALLY WHERE CONSTRUCTED WITH STRAW BALES. IN THE CASE OF BALES, THIS MIGHT REQUIRE THEIR REPLACEMENT EACH TWO TO FOUR MONTHS.
 2. 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 GULLY FLOOR. TO REDUCE THE RISK OF UNDERCUTTING.
 3. 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.
 4. 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



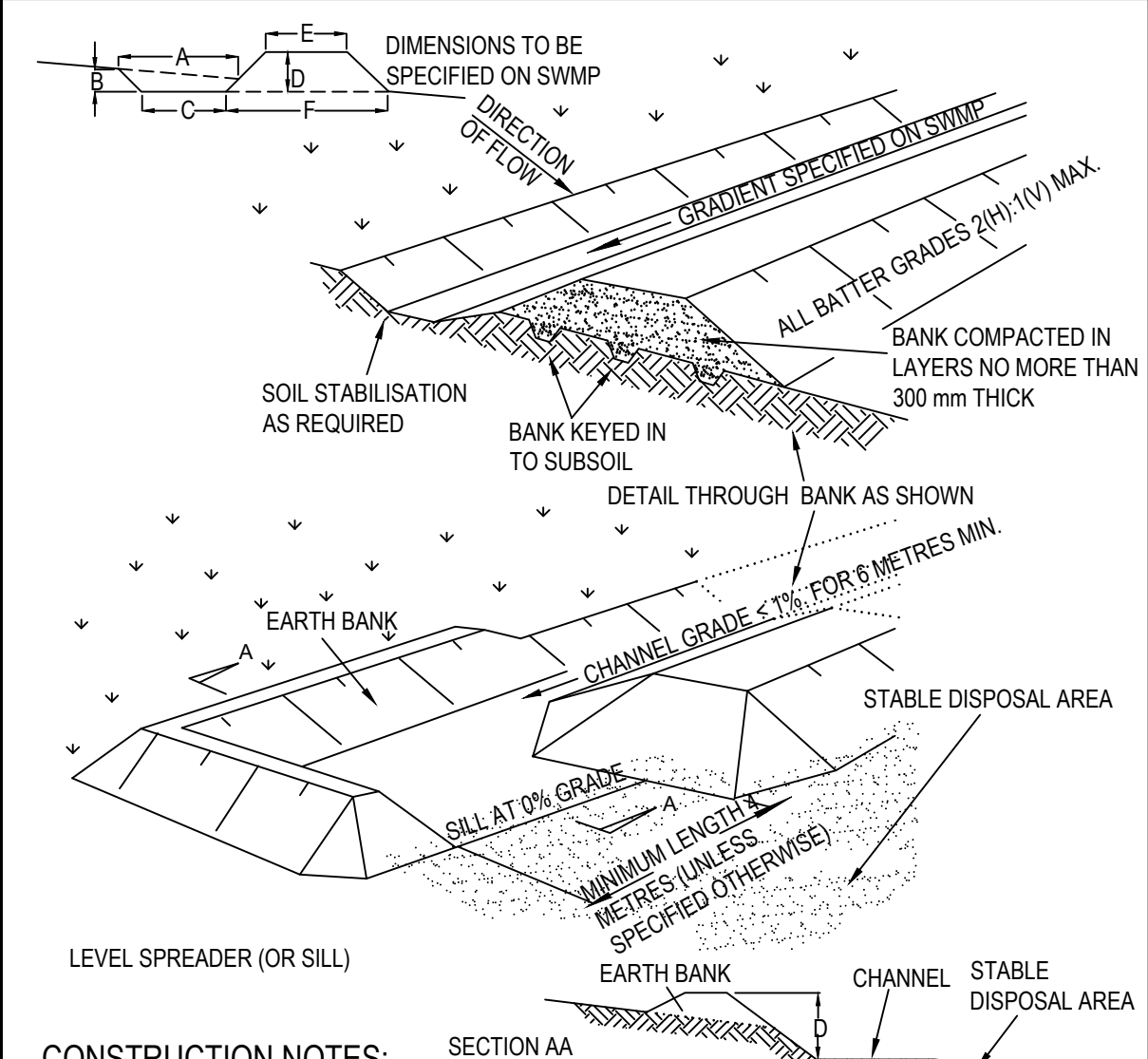
- CONSTRUCTION NOTES:**
1. COMPACT THE SUBGRADE FILL TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL.
 2. PREPARE A SMOOTH, EVEN FOUNDATION FOR THE STRUCTURE THAT WILL ENSURE THAT THE NEEDLE-PUNCHED GEOTEXTILE DOES NOT SUSTAIN SERIOUS DAMAGE WHEN COVERED WITH ROCK.
 3. SHOULD ANY MINOR DAMAGE TO THE GEOTEXTILE OCCUR, REPAIR IT BEFORE SPREADING ANY AGGREGATE. FOR REPAIRS, PATCH ONE PIECE OF FABRIC OVER THE DAMAGE, MAKING SURE THAT ALL JOINTS AND PATCHES OVERLAP MORE THAN 300mm.
 4. LAY ROCK FOLLOWING THE DRAWING, ACCORDING TO TABLE 5.2 OF LANDCOM (2004) AND WITH A MINIMUM DIAMETER OF 75mm.
 5. ENSURE THAT ANY CONCRETE OR RIPRAP USED FOR THE ENERGY DISSIPATER OR THE OUTLET PROTECTION CONFORMS TO THE GRADING LIMITS SPECIFIED ON THE SWMP.

ENERGY DISSIPATER SD 5-8



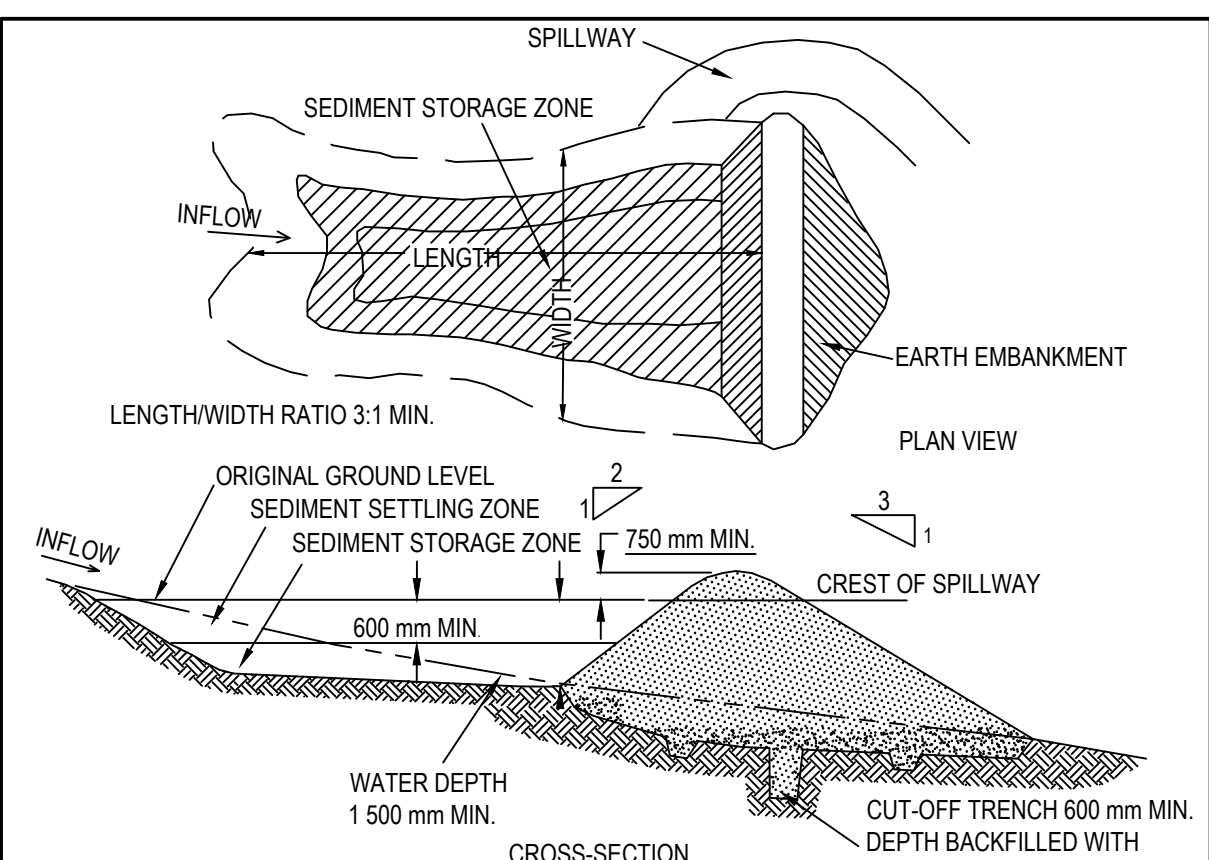
- CONSTRUCTION NOTES:**
1. BUILD WITH GRADIENTS BETWEEN 1 PERCENT AND 5 PERCENT.
 2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
 3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
 4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
 5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
 6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

EARTH BANK (LOW FLOW) SD 5-5



- CONSTRUCTION NOTES:**
1. CONSTRUCT AT THE GRADIENT SPECIFIED ON THE ESCP OR SWMP, NORMALLY BETWEEN 1% AND 5%.
 2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
 3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
 4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V-SHAPED, AT THE DIMENSIONS SHOWN ON THE SWMP.
 5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
 6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION FOLLOWING TABLE 5.2 IN LANDCOM (2004).
 7. WHERE DISCHARGING TO ERODIBLE LANDS, ENSURE THEY OUTLET THROUGH A PROPERLY CONSTRUCTED LEVEL SPREADER.
 8. CONSTRUCT THE LEVEL SPREADER AT THE GRADIENT SPECIFIED ON THE ESCP OR SWMP, NORMALLY LESS THAN 1% OR LEVEL.
 9. WHERE POSSIBLE, ENSURE THEY DISCHARGE WATERS ONTO EITHER STABILISED OR UNDISTURBED DISPOSAL SITES WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED. APPROVAL MIGHT BE REQUIRED TO DISCHARGE INTO OTHER SUBCATCHMENTS.

EARTH BANK (HIGH FLOWS) SD 5-6



- CONSTRUCTION NOTES:**
1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
 2. CONSTRUCT A CUT-OFF TRENCH 500 mm DEEP AND 1,200 mm WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
 3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PERCENT STANDARD PROCTOR DENSITY.
 4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
 5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100 mm TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE.
 6. SPREAD THE FILL IN 100 mm TO 150 mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
 7. CONSTRUCT THE EMERGENCY SPILLWAY.
 8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.

EARTH BASIN - WET (APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY) SD 6-4

SEDIMENT BASIN 1 SIZING CALCULATIONS				
$V_s = 10^4 R_{(Y\%, 5\text{-day})} C_v A$				
WHERE,				
V_s = VOLUME OF SETTLING ZONE (m ³)				
$R_{(Y\%, 5\text{-day})}$ = Y%, 5-DAY RAINFALL DEPTH (mm)				
C_v = VOLUMETRIC RUNOFF COEFFICIENT				
A = EFFECTIVE CATCHMENT SURFACE AREA CONNECTED TO THE BASIN (ha)				
$R_{(Y\%, 5\text{-day})} = 23.3$ mm				
$C_v = 0.5$				
$A = 2.474$ ha				
SETTLING ZONE VOLUME = 288.221 m ³				
SEDIMENT STORAGE VOLUME = 50% SETTLING ZONE VOLUME = 144 m ³				
TOTAL SEDIMENT BASIN VOLUME = 432.332 m ³				

SEDIMENT BASIN 2 SIZING CALCULATIONS				
$V_s = 10^4 R_{(Y\%, 5\text{-day})} C_v A$				
WHERE,				
V_s = VOLUME OF SETTLING ZONE (m ³)				
$R_{(Y\%, 5\text{-day})}$ = Y%, 5-DAY RAINFALL DEPTH (mm)				
C_v = VOLUMETRIC RUNOFF COEFFICIENT				
A = EFFECTIVE CATCHMENT SURFACE AREA CONNECTED TO THE BASIN (ha)				
$R_{(Y\%, 5\text{-day})} = 23.3$ mm				
$C_v = 0.5$				
$A = 1.31$ ha				
SETTLING ZONE VOLUME = 152.615 m ³				
SEDIMENT STORAGE VOLUME = 50% SETTLING ZONE VOLUME = 76.3 m ³				
TOTAL SEDIMENT BASIN VOLUME = 228.923 m ³				

A	ISSUE FOR DEVELOPMENT APPLICATION	08/08/2025	J.T.K.	J.A.B.	
Issue	Description	Date	Design	Checked	
1	1cm at full size				20mm

Certification By: Dr. Michel Chasaya
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng.,
Civil & Structural Engineer

Client

HOLDMARK

Council

PENRITH CITY COUNCIL

Scale

TELFORD CIVIL
CONSULTING CIVIL & STORMWATER ENGINEERS

Level 14, 32 Smith Street, Email : info@telfordcivil.com.au
Parramatta NSW 2150 Phone : 02 7809 4931
PO BOX 3579 Parramatta 2124 Company : Telford Consulting Pty Ltd

Project

**68-80 O'CONNELL STREET, CADDENS
PROPOSED MIXED-USE DEVELOPMENT
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION**

Drawing Title				
EROSION AND SEDIMENT CONTROL DETAILS				
Scale	A1	Project No.	Dwg. No.	Issue
N.T.S.		25037	110	A

NOT FOR CONSTRUCTION

LEGEND

- EXISTING LOT BOUNDARY
- EXISTING ROAD PAVEMENT
- DESIGN CONTOURS
- EXISTING CONTOURS
- EXTENT OF WORKS
- PROPOSED CONCRETE RETAINING WALL
- PROPOSED TEC FENCE
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED
- BASEMENT EXTENT
- GROUND FLOOR EXTENT
- PROPOSED GABION WALL
- PROPOSED CONCRETE RETAINING WALL

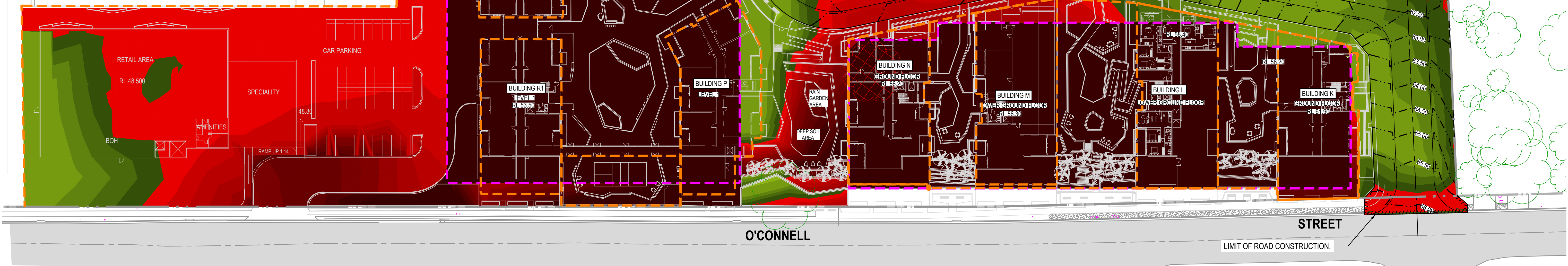
LEGEND

- | | |
|-------------------|------------------|
| CUT -21m TO -5.5m | CUT -1.5m TO -1m |
| CUT -5.5m TO -5m | CUT -1m TO -0.5m |
| CUT -5m TO -4.5m | CUT -0.5m TO 0m |
| CUT -4.5m TO -4m | FILL 0m TO 0.5m |
| CUT -4m TO -3.5m | FILL 0.5m TO 1m |
| CUT -3.5m TO -3m | FILL 1m TO 1.5m |
| CUT -3m TO -2.5m | FILL 1.5m TO 3m |
| CUT -2.5m TO -2m | FILL 3m TO 4.5m |
| CUT -2m TO -1.5m | FILL 4.5m TO 6m |

CUT & FILL VOLUMES

CUT = 259,843m³
FILL = 20,860m³
BALANCE = 238,983m³ (EXCESS FILL)

NOTE:
NUMBERS DO NOT TAKE INTO
CONSIDERATION SERVICES TRENCHING
OR TOPSOIL REMOVAL/RESPREADING
OR SLAB THICKNESSES OR ROADS
BOXING.



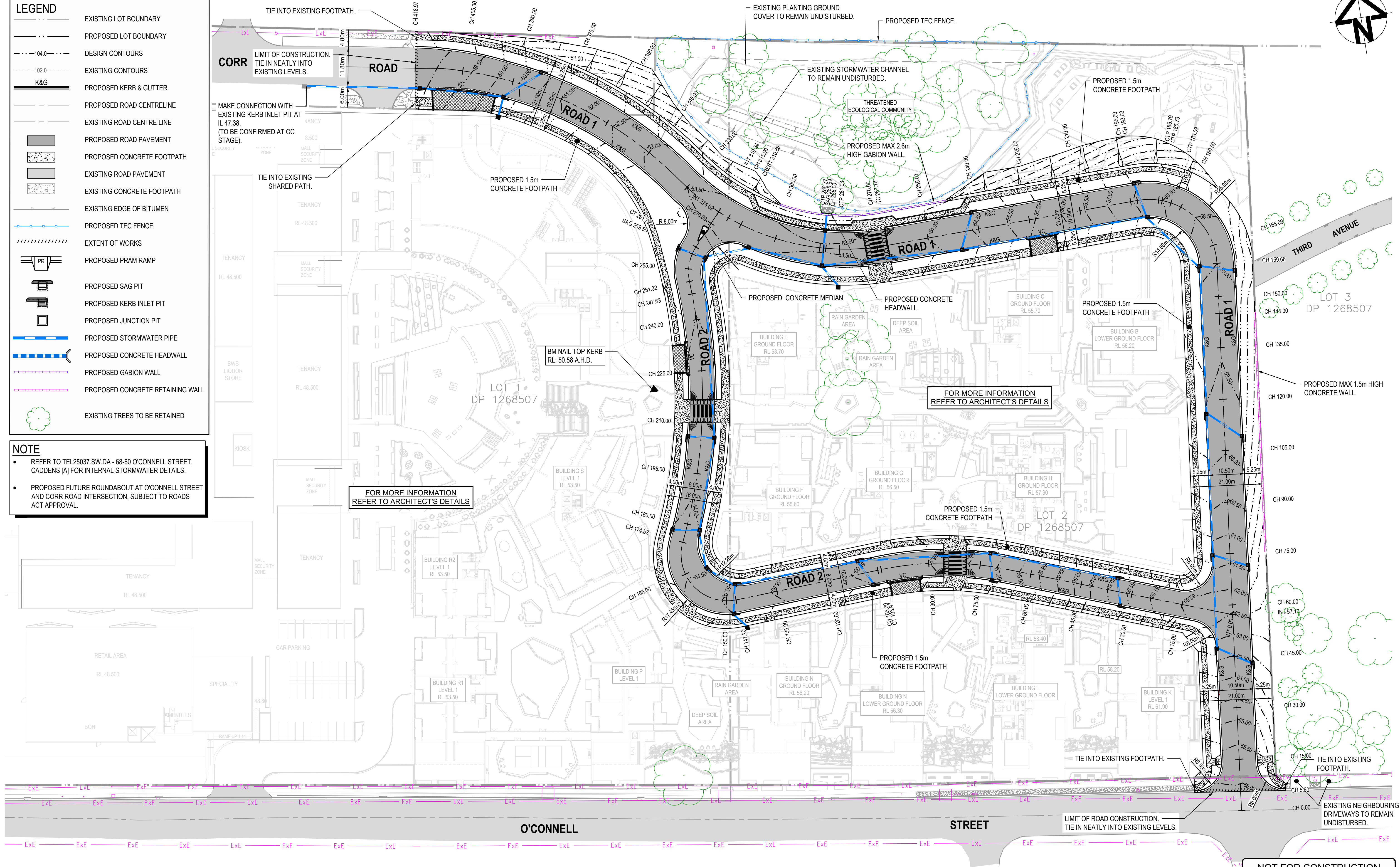
NOT FOR CONSTRUCTION

LEGEND

- EXISTING LOT BOUNDARY
- PROPOSED LOT BOUNDARY
- DESIGN CONTOURS
- EXISTING CONTOURS
- PROPOSED KERB & GUTTER
- PROPOSED ROAD CENTRELINE
- EXISTING ROAD CENTRE LINE
- PROPOSED ROAD PAVEMENT
- PROPOSED CONCRETE FOOTPATH
- EXISTING ROAD PAVEMENT
- EXISTING CONCRETE FOOTPATH
- EXISTING EDGE OF BITUMEN
- PROPOSED TEC FENCE
- EXTENT OF WORKS
- PROPOSED PRAM RAMP
- PROPOSED SAG PIT
- PROPOSED KERB INLET PIT
- PROPOSED JUNCTION PIT
- PROPOSED STORMWATER PIPE
- PROPOSED CONCRETE HEADWALL
- PROPOSED GABION WALL
- PROPOSED CONCRETE RETAINING WALL
- EXISTING TREES TO BE RETAINED

NOTE

- REFER TO TEL25037.SW.DA - 68-80 O'CONNELL STREET, CADDENS [A] FOR INTERNAL STORMWATER DETAILS.
- PROPOSED FUTURE ROUNDABOUT AT O'CONNELL STREET AND CORR ROAD INTERSECTION, SUBJECT TO ROADS ACT APPROVAL.



A		ISSUE FOR DEVELOPMENT APPLICATION	08/08/2025	J.T.K.	J.A.B.
Issue	Description	Date	Design	Checked	
10m at full size					

Certification By Dr. Michel Chasys
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng.,
Civil & Structural Engineer

Client
HOLDMARK

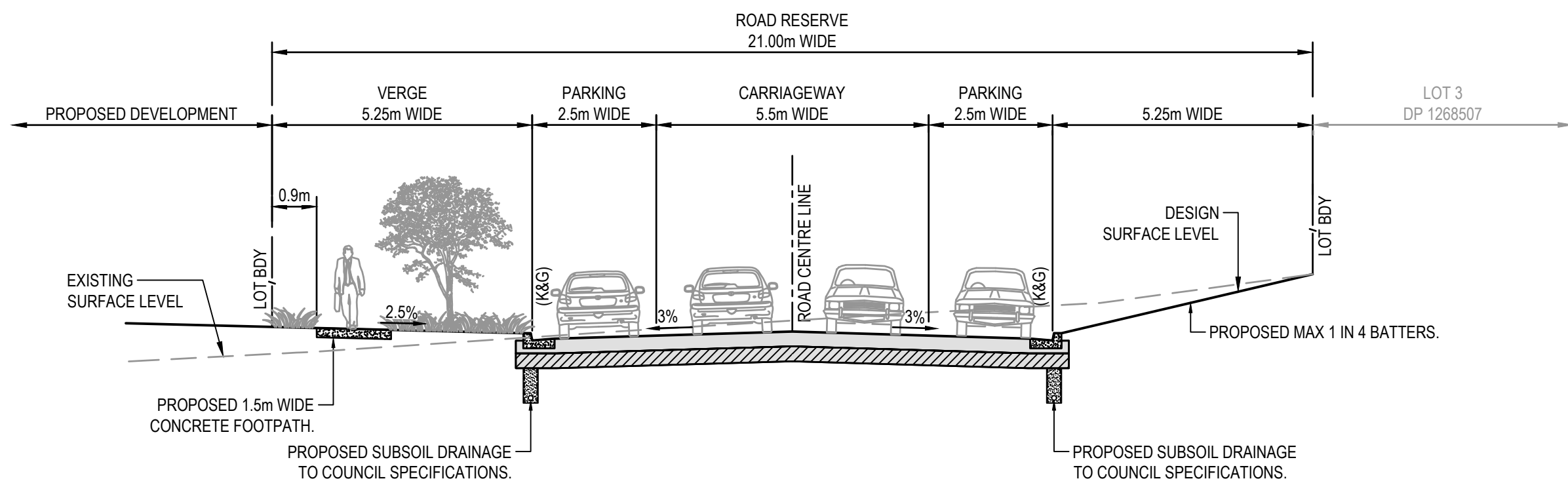
Council
PENRITH CITY COUNCIL

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SCALE 1:500 @ A1

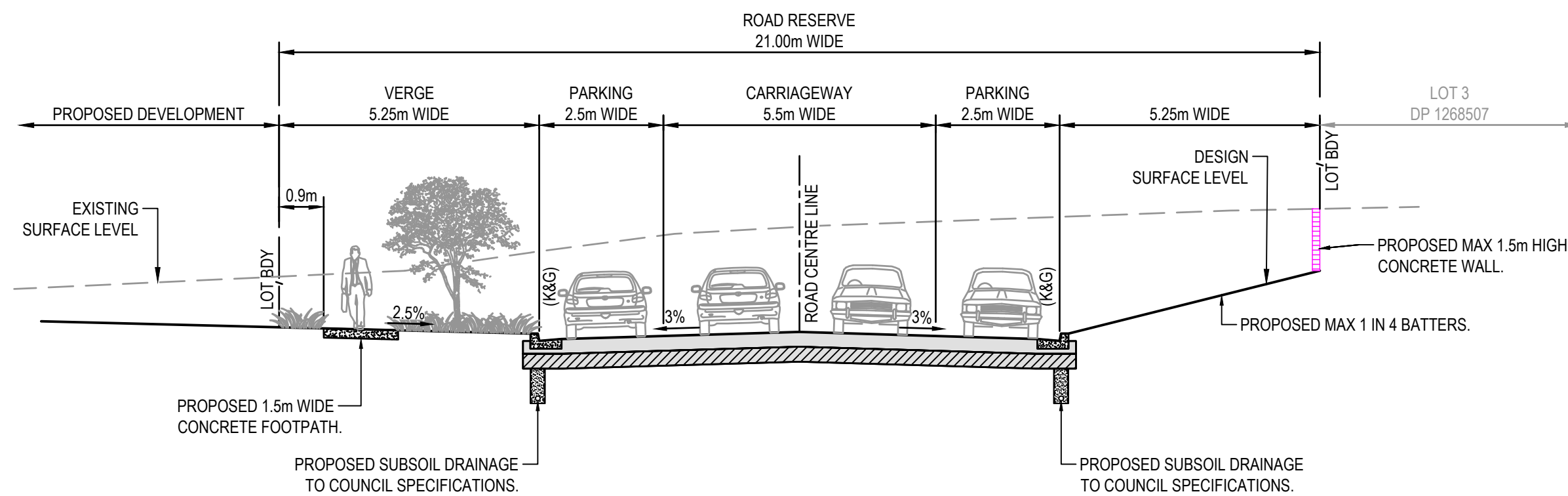
TELFORD CIVIL
CONSULTING CIVIL & STORMWATER ENGINEERS
Level 14, 32 Smith Street,
Parramatta NSW 2150
PO BOX 3579 Parramatta 2124
Email : info@telfordcivil.com.au
Phone : 02 7809 4931
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Project
**68-80 O'CONNELL STREET, CADDENS
PROPOSED MIXED-USE DEVELOPMENT
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION**

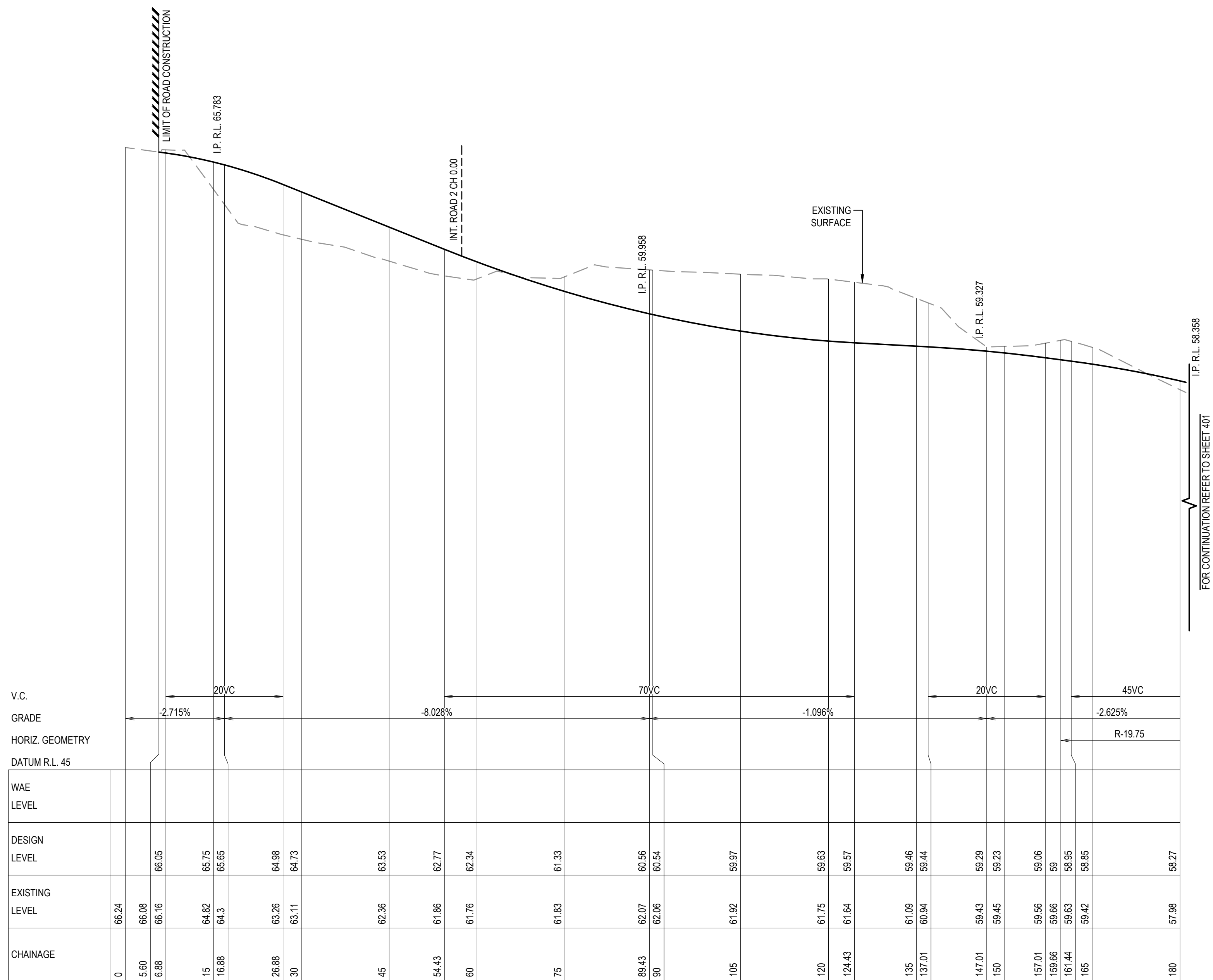
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ENGINEERING PLAN
Scale
1:500
Project No.
25037
Dwg. No.
300
Issue
A



TYPICAL CROSS SECTION - ROAD 1
(CH 0.00 - CH 75.00)
(CH 145.00 - CH 175.00)
SCALE 1:100



TYPICAL CROSS SECTION - ROAD 1
(CH 75.00 - CH 145.00)
SCALE 1:100

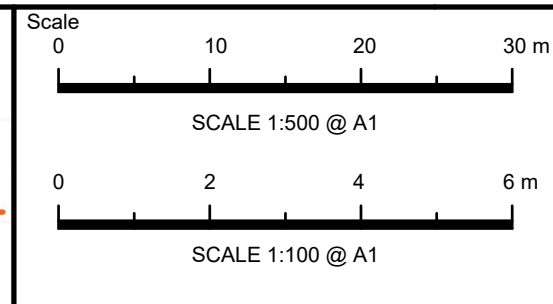


LONGITUDINAL SECTION CENTRELINE - ROAD 1
SCALE (H) 1:500
(V) 1:100

NOT FOR CONSTRUCTION

A				ISSUE FOR DEVELOPMENT APPLICATION				08/08/2025	J.T.K.	J.A.B.
Issue	Description	Date	Design	Checked						
1cm at full size				10cm				20cm		

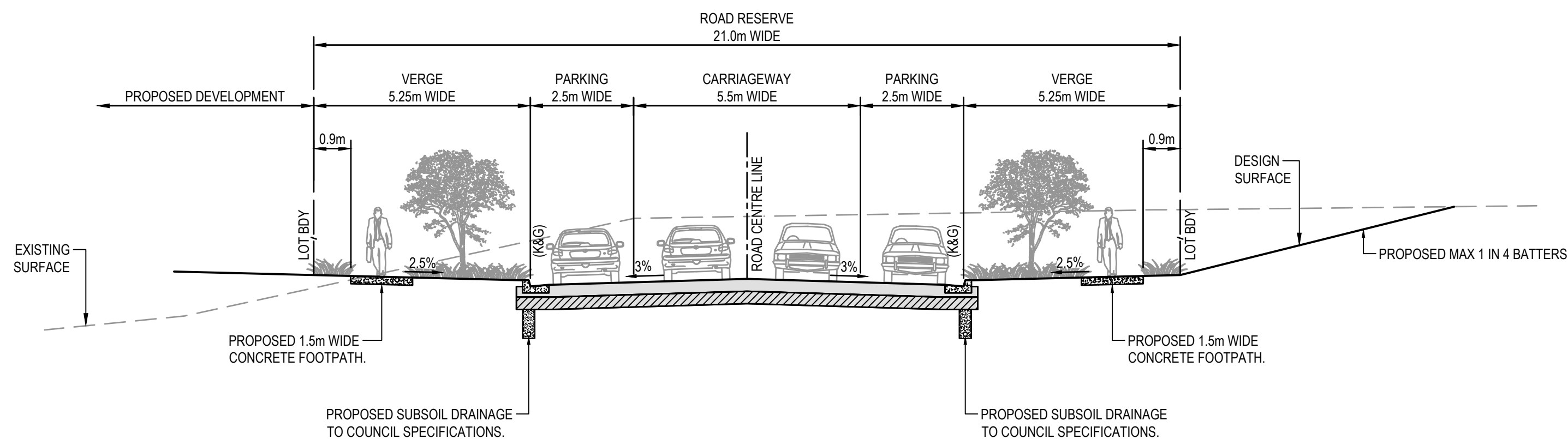
Certification By Dr. Michel Chasaya
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng.,
Civil & Structural Engineer



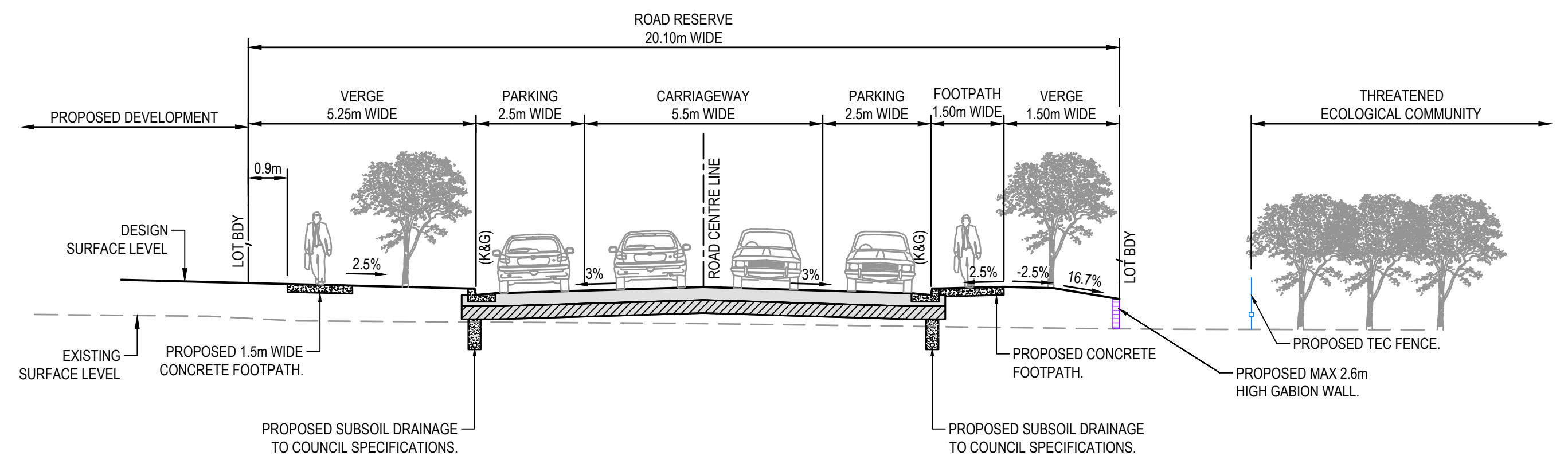
TELFORDCIVIL
CONSULTING CIVIL & STORMWATER ENGINEERS
Level 14, 32 Smith Street,
Parramatta NSW 2150
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Email : info@telfordcivil.com.au
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PROPOSED MIXED-USE DEVELOPMENT
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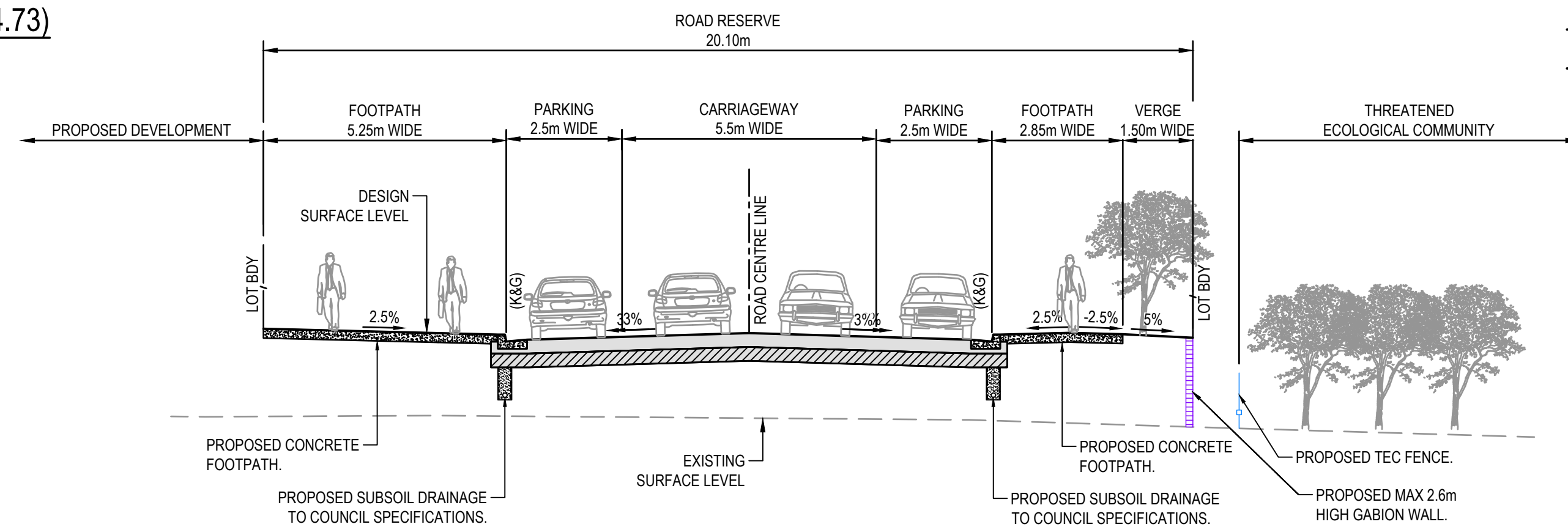
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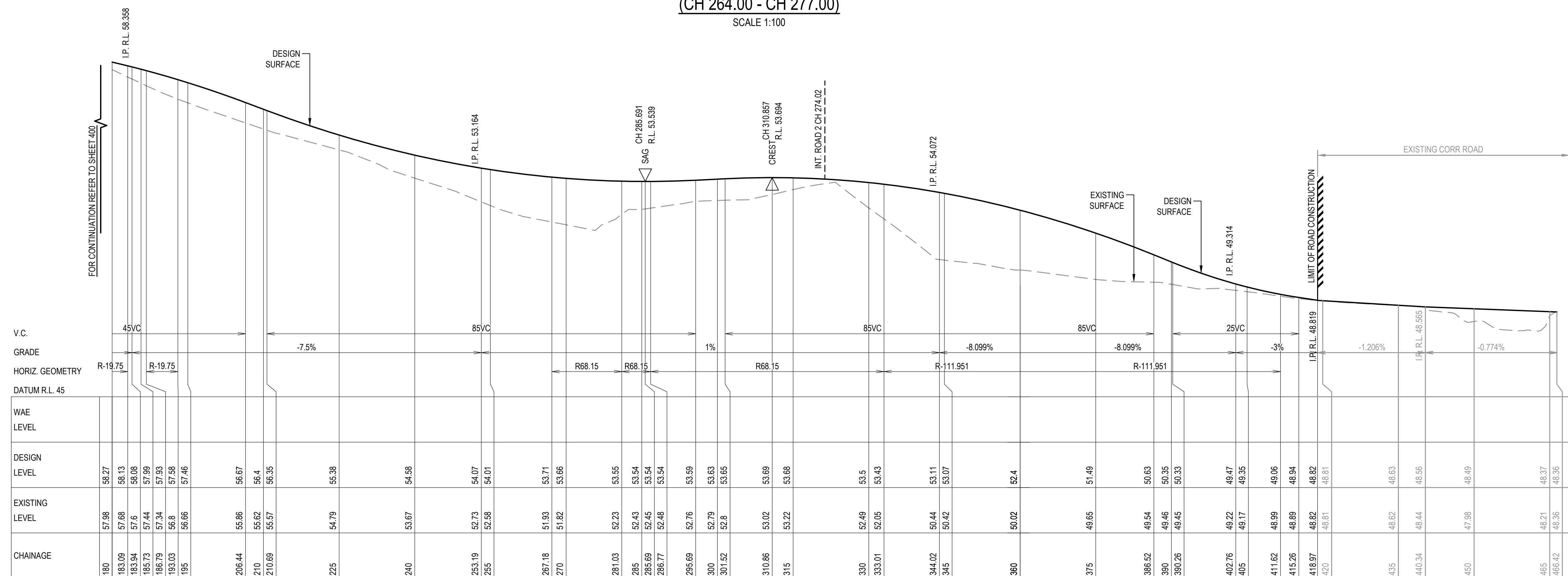
TYPICAL CROSS SECTION - ROAD 1
(CH 175.00 TO CH 240.00)
(CH 312.50 TO CH 414.73)
SCALE 1:100



TYPICAL CROSS SECTION - ROAD 1
(CH 245.00 - CH 264.00)
(CH 277.00 - CH 308.50)
SCALE 1:100



TYPICAL CROSS SECTION - ROAD 1
(CH 264.00 - CH 277.00)
SCALE 1:100



LONGITUDINAL SECTION CENTRELINE - ROAD 1
SCALE (H) 1:500
(V) 1:100

NOT FOR CONSTRUCTION

A		ISSUE FOR DEVELOPMENT APPLICATION	08/08/2025	J.T.K.	J.A.B.
Issue	Description	Date	Design	Checked	
1cm at full size		10cm	20cm		

Certification By Dr. Michel Chasaya
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng.,
Civil & Structural Engineer

Client
HOLDMARK

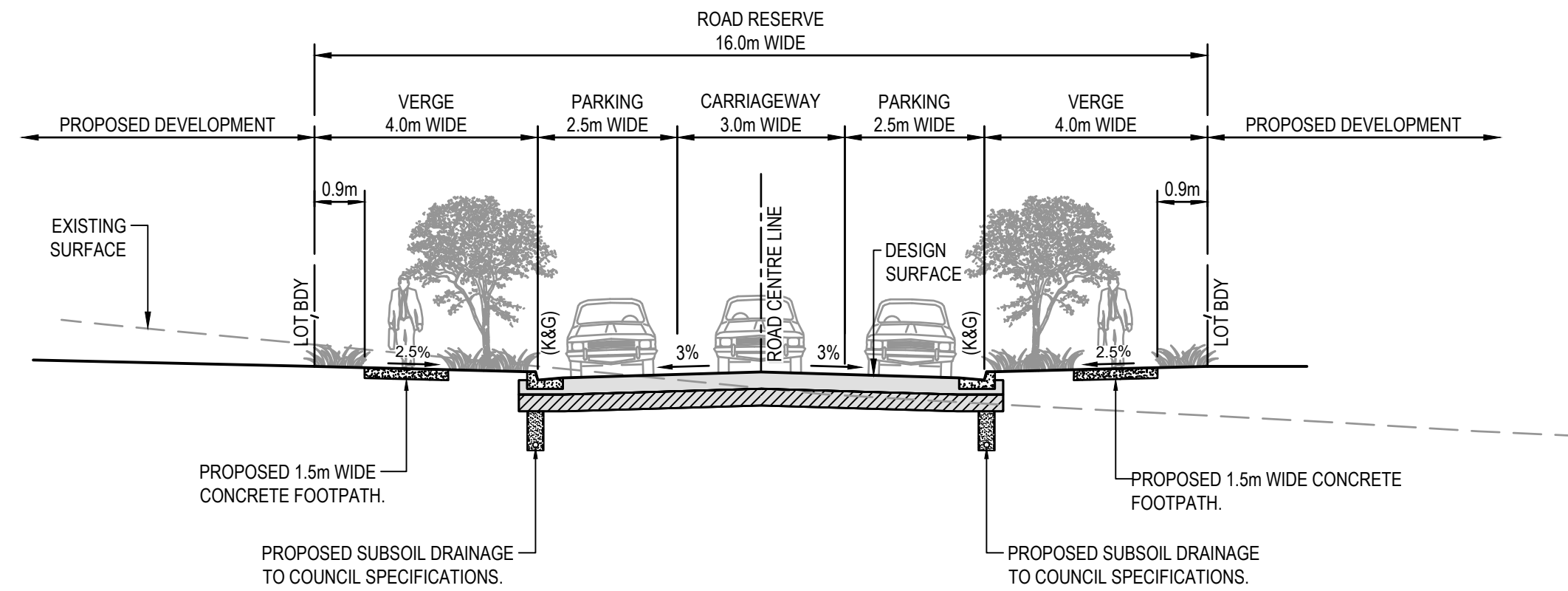
Council
PENRITH CITY COUNCIL

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SCALE 1:500 @ A1
0 2 4 6 m
SCALE 1:100 @ A1

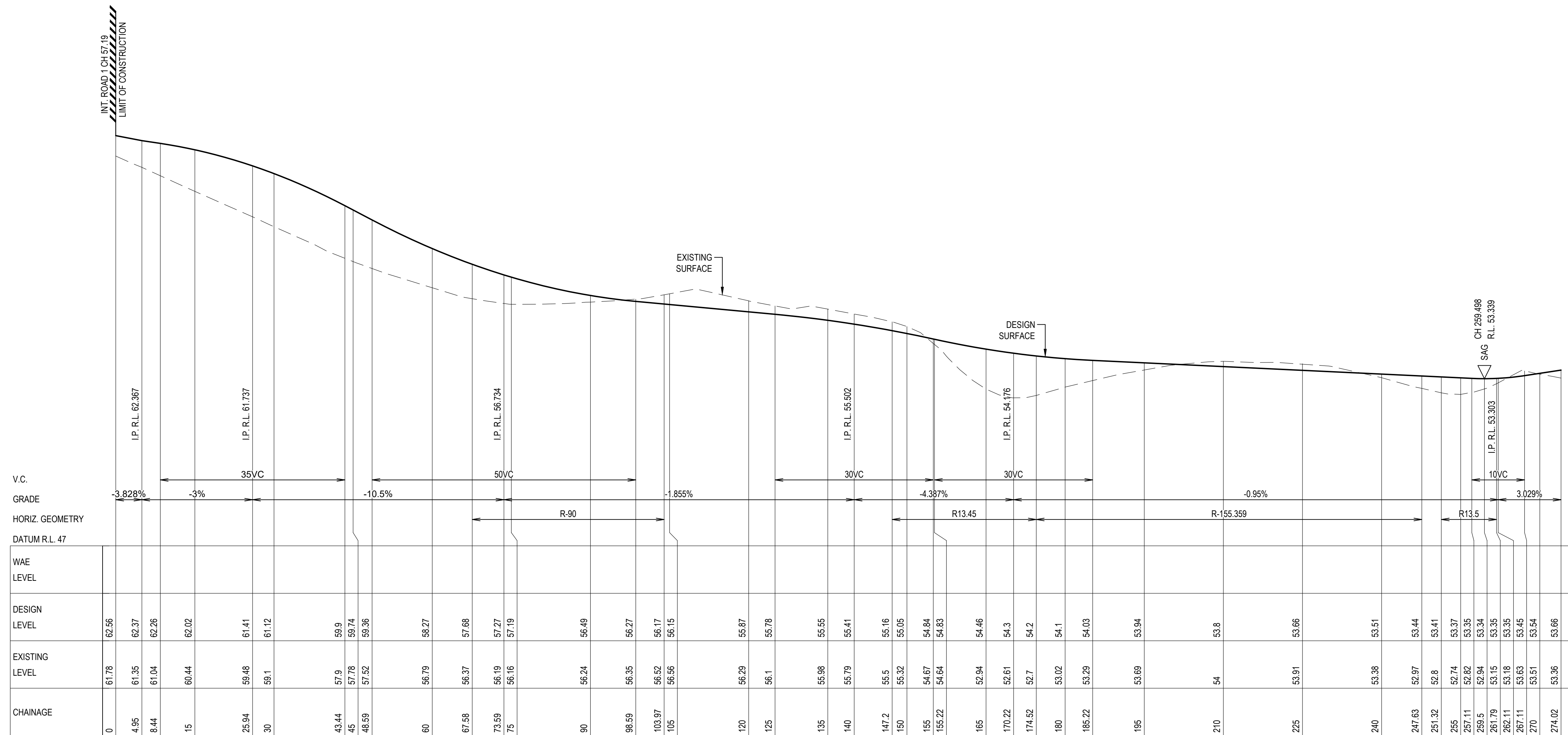
TELFORD CIVIL
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Level 14, 32 Smith Street, Parramatta NSW 2150
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**68-80 O'CONNELL STREET, CADDENS
PROPOSED MIXED-USE DEVELOPMENT
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DEVELOPMENT APPLICATION**

Drawing Title ROAD 1 - LONGITUDINAL AND TYPICAL CROSS SECTIONS SHEET 2		Scale A1 AS SHOWN	Project No. 25037	Dwg. No. 401	Issue A
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TYPICAL CROSS SECTION - ROAD 2
SCALE 1:100



LONGITUDINAL SECTION CENTRELINE - ROAD 2
SCALE (H) 1:500
(V) 1:100

NOT FOR CONSTRUCTION

A		ISSUE FOR DEVELOPMENT APPLICATION		08/08/2025	J.T.K.	J.A.B.
Issue	Description	Date	Design	Checked		
1cm at full size						

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B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng.,
Civil & Structural Engineer

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Scale
0 10 20 30 m
SCALE 1:500 @ A1
0 2 4 6 m
SCALE 1:100 @ A1

TELFORD CIVIL
CONSULTING CIVIL & STORMWATER ENGINEERS
Level 14, 32 Smith Street,
Parramatta NSW 2150
PO BOX 3579 Parramatta 2124
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Project
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PROPOSED MIXED-USE DEVELOPMENT
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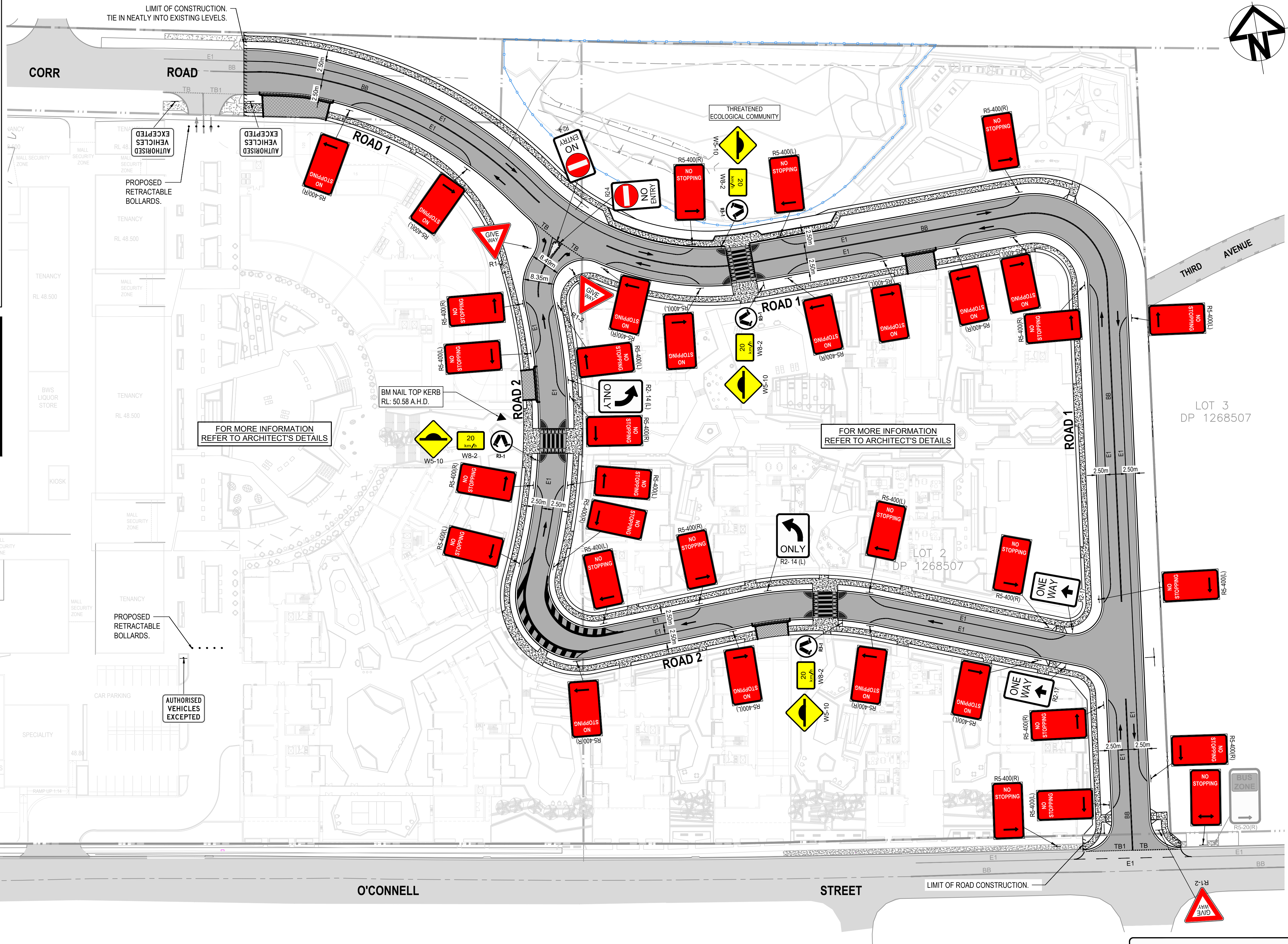
Drawing Title		ROAD 2 - LONGITUDINAL AND TYPICAL CROSS SECTIONS	
Scale	A1	Project No.	Dwg. No.
AS SHOWN		25037	402
Issue		A	

LEGEND

- BB PROPOSED BARRIER LINES
- E1 LEFT HAND EDGE LINE ON GENERAL PURPOSE ROAD
- TB GIVE WAY LINE (USED WITH SIGNS)
- TB1 GIVE WAY LINE (USED OF RIGHT SIDE OF ROAD)
- PROPOSED STREET NAME SIGN
- BB EXISTING BARRIER LINES
- E1 EXISTING LEFT HAND EDGE LINE ON GENERAL PURPOSE ROAD
- TB EXISTING GIVE WAY LINE (USED WITH SIGNS)
- TB1 EXISTING GIVE WAY LINE (USED OF RIGHT SIDE OF ROAD)
- PROPOSED RETRACTABLE BOLLARDS

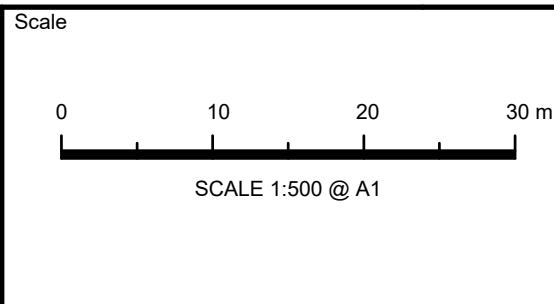
NOTE:

- SIGNAGE AND LINEMARKING ARE SUBJECT TO SEPARATE APPROVAL OF COUNCIL'S LOCAL TRAFFIC COMMITTEE.
- ALL LINE MARKING MUST BE THERMO-PLASTIC REFLECTIVE UNLESS OTHERWISE NOTED.
- ALL PEDESTRIAN CROSSINGS ARE RAISED PEDESTRIAN CROSSINGS.
- PROPOSED FUTURE ROUNDABOUT AT O'CONNELL STREET AND CORR ROAD INTERSECTION, SUBJECT TO ROADS ACT APPROVAL.



A		ISSUE FOR DEVELOPMENT APPLICATION	08/08/2025	J.T.K.	J.A.B.
Issue	Description	Date	Design	Checked	
10m at full size 20m					

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Civil & Structural Engineer



TELFORD CIVIL
CONSULTING CIVIL & STORMWATER ENGINEERS

Level 14, 32 Smith Street,
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PO BOX 3579 Parramatta 2124

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Project
68-80 O'CONNELL STREET, CADDENS
PROPOSED MIXED-USE DEVELOPMENT
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title SIGNAGE AND LINEMARKING PLAN		Scale 1:500	A1	Project No. 25037	Dwg. No. 710	Issue A
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