

# FORESTVILLE RSL CLUB REDEVELOPMENT

## 22 MELWOOD AVENUE, FORESTVILLE, NSW, 2087

### CIVIL SERVICES

CIVIL LEGEND	
	FINISHED FLOOR LEVEL
	FINISHED SURFACE LEVEL
	EXISTING SURFACE LEVEL
	GRATED DRAIN AND TYPE
	STORMWATER DRAINAGE LINE WITH: USIL 55.50 Ø150 uPVC 1.0 % 10.0 m DSIL 55.40
	INDICATIVE DIRECTION OF FALL
	STORMWATER DRAINAGE PIT
	ON-SITE DETENTION TANK
	WATER SENSITIVE URBAN DESIGN
	RAINWATER TANK
	VEHICULAR CROSSING

SOIL EROSION AND SEDIMENT CONTROL LEGEND	
	SEDIMENT FENCE
	PIT WRAP FILTER FABRIC
	SAND BAG SEDIMENT TRAP
	STABILISED CONSTRUCTION EXIT
	TEMPORARY STOCKPILE WITH SEDIMENT FENCE SURROUND

EXISTING SERVICES LEGEND	
	EXISTING SEWER
	EXISTING FIREMAIN
	EXISTING GAS
	EXISTING ELECTRICITY
	EXISTING ELECTRICITY (LV)
	EXISTING ELECTRICITY (OH)
	EXISTING ELECTRICITY (HV)
	EXISTING STORMWATER
	EXISTING COMMS
	EXISTING TELSTRA
	EXISTING WATER
	EXISTING UNKNOWN SERVICE



LOCALITY PLAN  
NTS

DRAWING INDEX		
DRAWING NUMBER	DRAWING TITLE	REVISION
C01-0001	COVER SHEET, LEGENDS AND DRAWING INDEX	C
C01-0101	NOTES SHEET	C
C03-0001	SOIL EROSION AND SEDIMENT CONTROL PLAN	C
C03-0101	SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	C
C04-0001	BULK EARTHWORKS PLAN	C
C08-0001	STORMWATER MANAGEMENT PLAN	C
C08-0301	STORMWATER DETAILS - SHEET 1	C
C08-0302	STORMWATER DETAILS - SHEET 2	C
C08-0303	STORMWATER DETAILS - SHEET 3	C
C08-0401	STORMWATER MANAGEMENT CATCHMENT PLAN	C
C09-0001	PAVEMENT PLAN	C



Issue	Description	Date	Drawn	Approved
C	RE-ISSUE FOR DEVELOPMENT APPLICATION	06.05.25	RP	GL
B	RE-ISSUE FOR DEVELOPMENT APPLICATION	20.09.24	DJ	GL
A	ISSUE FOR DEVELOPMENT APPLICATION	30.08.24	RP	GL

North

Scale

Client  
FORESTVILLE RSL

Architect  
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Project  
FORESTVILLE RSL CLUB REDEVELOPMENT  
22 MELWOOD AVENUE  
FORESTVILLE, NSW, 2087

Drawing Title  
CIVIL SERVICES COVER SHEET, LEGENDS AND DRAWING INDEX

Drawn RP	Designed GL	O.A. Check GL	Date 06.05.25	Scale @ A1 N/A
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Project No. NA241102  
Drawing No. C01-0001  
Issue C

**NOT FOR CONSTRUCTION**

**GENERAL NOTES**

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND STRUCTURAL CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
- ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
- ALL DIMENSIONS ON DETAILS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL PLANS AND LEVELS ARE EXPRESSED IN METRES.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURAL STABILITY OF THE WORKS AND ENSURE NO PARTS BE OVER STRESSED UNDER CONSTRUCTION ACTIVITIES.
- WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM ACOR CONSULTANTS / PRINCIPAL'S REPRESENTATIVE BUT IS NOT AN AUTHORISATION FOR A VARIATION. ANY VARIATIONS INVOLVED MUST BE TAKEN UP WITH ACOR CONSULTANTS / PRINCIPAL'S REPRESENTATIVE BEFORE THE WORK COMMENCES.
- ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE ENGINEER FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS. ALL INSPECTIONS AND CERTIFICATIONS TO BE INCLUDED IN CONTRACTORS COST.
- BUILDING FROM THESE DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE PRINCIPAL CERTIFYING AUTHORITY.
- THE WORD 'ENGINEER' USED IN THESE NOTES REFER TO AN EMPLOYEE OR NOMINATED REPRESENTATIVE OF **ACOR CONSULTANTS PTY LTD.**
- ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE RELEVANT CURRENT WORKPLACE HEALTH AND SAFETY LEGISLATION.

**EXISTING SERVICES AND FEATURES**

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION, REMOVAL AND DISPOSAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA, AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE PRINCIPAL'S REPRESENTATIVE.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN WRITTEN APPROVAL OF THEIR PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
- EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY DEMOLITION WORKS.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE PRINCIPAL'S REPRESENTATIVE. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE PRINCIPAL'S REPRESENTATIVE.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL OF PRINCIPAL'S REPRESENTATIVE FOR TIME OF INTERRUPTION.

**SITWORKS NOTES**

- ORIGIN OF LEVELS :- AUSTRALIAN HEIGHT DATUM (A.H.D.)
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE PRINCIPAL'S REPRESENTATIVE.
- EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE PRINCIPAL'S REPRESENTATIVE. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED NON-NATURAL GRANULAR MATERIAL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS.1289.5.1.1.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- ON COMPLETION OF PIPE INSTALLATION ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
- PROVIDE 10mm WIDE EXPANDING CORK JOINTS BETWEEN CONCRETE PAVEMENTS AND ALL BUILDINGS, WALLS, FOOTINGS, COLUMNS, KERBS, DISH DRAINS, GRATED DRAINS, BOLLARD FOOTINGS ETC
- CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
- ALL BATTERS TO BE GRASSED LINED WITH MINIMUM 100 TOPSOIL AND APPROVED COUCH LAID AS TURF.
- MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE SUMPS AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN BITUMINOUS PAVING.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MIN OF 500mm PAST PAVING.
- ON COMPLETION OF WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL INCLUDING, BUT NOT LIMITED TO, KERBS, FOOTPATHS, CONCRETE AREAS, GRASS AND LANDSCAPED AREAS.

**STORMWATER NOTES**

- ALL 375 DIA. DRAINAGE PIPES AND LARGER SHALL BE CLASS "2" APPROVED SPIGOT AND SOCKET FRC OR RCP PIPES WITH RUBBER RING JOINTS. (U.N.O.) ALL DOWNPIPE DRAINAGE LINES SHALL BE SEWER GRADE uPVC WITH SOLVENT WELD JOINTS. (U.N.O.)
- EQUIVALENT STRENGTH REINFORCED CONCRETE PIPES MAY BE USED.
- ALL PIPE JUNCTIONS UP TO AND INCLUDING 450 DIA. AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.
- MINIMUM GRADE TO STORMWATER LINES TO BE 1%. (U.N.O.)
- CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- PRECAST PITS SHALL NOT BE USED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.
- WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50MM CONCRETE BED (OR 75MM THICK BED OF 12MM BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75MM THICK SAND BED. IN ALL CASES BACKFILL THE TRENCH WITH SAND TO 200MM ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150MM LAYERS TO 98% STANDARD MAX. DRY DENSITY.
- BEDDING SHALL BE (U.N.O.) TYPE HS2. IN ACCORDANCE WITH CURRENT RELEVANT AUSTRALIAN STANDARDS.
- WHERE STORMWATER LINES PASS UNDER FLOOR SLABS SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
- WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED UPVC SEWER GRADE PIPE SHALL BE USED.
- PROVIDE 3.0M LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, AT UPSTREAM END OF EACH PIT.

**COMPACTION NOTES**

- REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY: JK GEOTECHNICS, REF: 31993BMrpt, DATED: 27<sup>th</sup> JANUARY 2023.
- STRIP TOPSOIL TO EXPOSE NATURALLY OCCURRING MATERIAL AND STOCKPILE ON SITE FOR SELECTIVE RE-USE OR DISPOSE OFF-SITE AS DIRECTED BY THE SUPERINTENDENT.
- UNCONTROLLED FILLING IS TO BE REMOVED FROM THE FOOTPRINT OF THE BUILDING AND PAVEMENT AREAS, THE STRIPPED SURFACE SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER.
- PROOF ROLL EXPOSED NATURAL SURFACE WITH A MINIMUM OF EIGHT PASSES OF A SMOOTH DRUM ROLLER (MINIMUM STATIC WEIGHT OF 10 TONNES) THE FINAL PASS SHALL BE IN THE PRESENCE OF A GEOTECHNICAL ENGINEER.
- ALL SOFT, WET OR UNSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
- WASTE CLASSIFICATION OF SPOIL MATERIAL, INCLUDING PROVISION OF APPROPRIATE HAZARDOUS MATERIALS HANDLING (AS REQUIRED) IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO UNDERTAKING THE EXCAVATION WORKS.
- ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE GEOTECHNICAL ENGINEER AND SHALL COMPLY WITH THE FOLLOWING :
  - a. FREE FROM ORGANIC, PERISHABLE AND CONTAMINATED MATTER
  - b. MAXIMUM PARTICLE SIZE 75MM
  - c. PLASTICITY INDEX BETWEEN 2% AND 15%
- ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200MM THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS 1289 5.3.1 OF NOT LESS THAN THE FOLLOWING STANDARD MINIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.1.1 :
 

LOCATION	STANDARD DRY DENSITY
UNDER BUILDING SLABS	98%
AREAS OF SERVICE TRENCHES	98%
EXTERNAL PAVED AREAS, ROADS AND CARPARKS	98%
LANDSCAPED AREAS	90%

THE UPPER 0.5m THICKNESS FOR THE FOLLOWING AREAS MUST BE COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR -2%) AS FOLLOWS

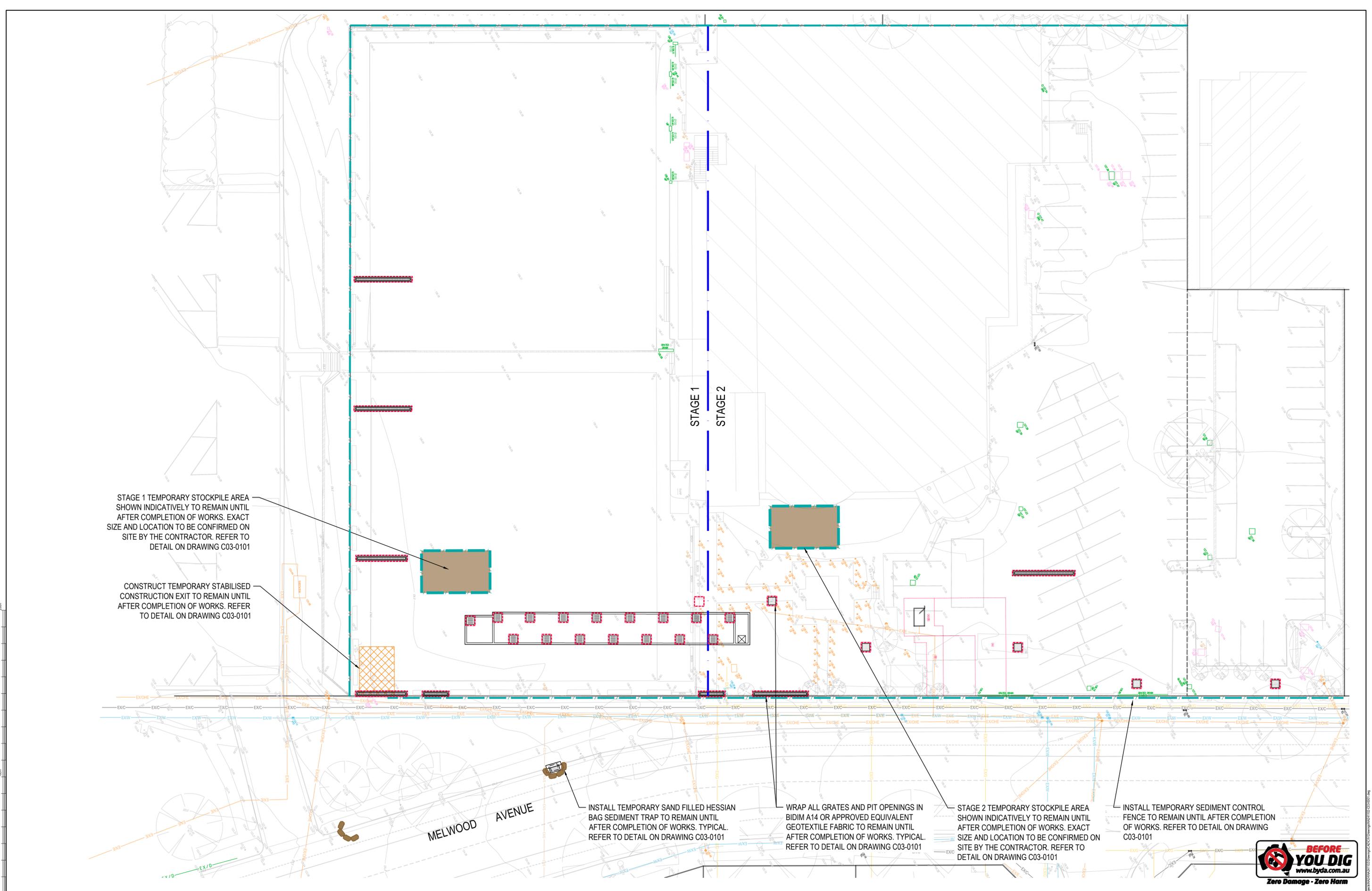
LOCATION	STANDARD DRY DENSITY
UNDER BUILDING SLABS	100%
PAVEMENTS AND CARPARKS	100%
- THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR COST.
- TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED NATA REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE. TESTING FREQUENCY SHALL BE IN ACCORDANCE WITH THE FREQUENCY SPECIFIED IN THE GEOTECHNICAL REPORT - FOR EARTHWORKS 1 TEST / 1000m<sup>2</sup> / LAYER OR THREE TESTS PER VISIT, WHICHEVER IS THE GREATER

**ON-SITE DETENTION NOTES**

- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS, SERVICES AND STRUCTURES ON SITE PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND THE SPECIFICATION.
- ON COMPLETION OF PROPOSED WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL, GRASSED & LANDSCAPE AREAS AND ROAD PAVEMENTS. (U.N.O.)
- CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
- MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
- WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER THESE SERVICES. HAND EXCAVATE IN THESE AREAS.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC, AND OTHER SERVICES DRAWINGS AND SPECIFICATIONS.
- EQUIVALENT STRENGTH FRC PIPES MAY BE USED.
- ALL PIPE JUNCTIONS, BENDS AND TAPERS UP TO AND INCLUDING 450 DIA SHALL BE VIA PURPOSE MADE FITTINGS.
- MINIMUM GRADE TO STORMWATER LINES TO BE 1%. (U.N.O.)
- CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50mm CONCRETE BED (OR 75mm THICK BED OF 12mm BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75mm THICK SAND BED. IN ALL CASES BACKFILL THE TRENCH WITH SAND TO 200mm ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150mm LAYERS TO 98% STANDARD MAX. DRY DENSITY.
- BEDDING SHALL BE (U.N.O.) TYPE H1, IN ACCORDANCE WITH CURRENT RELEVANT AUSTRALIAN STANDARDS.
- WHERE STORMWATER LINES PASS UNDER FLOOR SLABS SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
- PROVIDE 3.0M LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, AT UPSTREAM END OF EACH PIT.



	North	Scale	Client FORESTVILLE RSL	Architect  SUITE 129, 117 OLD PITTWATER ROAD BROOKVALE, NSW, 2100	 <b>ACOR Consultants Pty Ltd</b> Suite 2, Level 1, 33 Herbert Street St Leonards NSW 2065 T +61 2 9438 5098	Project FORESTVILLE RSL CLUB REDEVELOPMENT 22 MELWOOD AVENUE FORESTVILLE, NSW, 2087	Drawing Title CIVIL SERVICES NOTES SHEET				
<b>PRINT IN COLOUR</b>					<b>NOT FOR CONSTRUCTION</b>	Drawn RP	Designed GL	O.A Check GL	Date 06.05.25	Scale @ A1 N/A	
Issue Description	Date	Drawn	Approved	Project No. NA241102	Drawing No. C01-0101	Issue C					



STAGE 1 TEMPORARY STOCKPILE AREA SHOWN INDICATIVELY TO REMAIN UNTIL AFTER COMPLETION OF WORKS. EXACT SIZE AND LOCATION TO BE CONFIRMED ON SITE BY THE CONTRACTOR. REFER TO DETAIL ON DRAWING C03-0101

CONSTRUCT TEMPORARY STABILISED CONSTRUCTION EXIT TO REMAIN UNTIL AFTER COMPLETION OF WORKS. REFER TO DETAIL ON DRAWING C03-0101

INSTALL TEMPORARY SAND FILLED HESSIAN BAG SEDIMENT TRAP TO REMAIN UNTIL AFTER COMPLETION OF WORKS. TYPICAL. REFER TO DETAIL ON DRAWING C03-0101

WRAP ALL GRATES AND PIT OPENINGS IN BIDIM A14 OR APPROVED EQUIVALENT GEOTEXTILE FABRIC TO REMAIN UNTIL AFTER COMPLETION OF WORKS. TYPICAL. REFER TO DETAIL ON DRAWING C03-0101

STAGE 2 TEMPORARY STOCKPILE AREA SHOWN INDICATIVELY TO REMAIN UNTIL AFTER COMPLETION OF WORKS. EXACT SIZE AND LOCATION TO BE CONFIRMED ON SITE BY THE CONTRACTOR. REFER TO DETAIL ON DRAWING C03-0101

INSTALL TEMPORARY SEDIMENT CONTROL FENCE TO REMAIN UNTIL AFTER COMPLETION OF WORKS. REFER TO DETAIL ON DRAWING C03-0101



Issue	Description	Date	Drawn	Approved
C	RE-ISSUE FOR DEVELOPMENT APPLICATION	06.05.25	RP	GL
B	RE-ISSUE FOR DEVELOPMENT APPLICATION	20.09.24	DJ	GL
A	ISSUE FOR DEVELOPMENT APPLICATION	30.08.24	RP	GL

North

Scale  
0 2 4 8 12m  
SCALE BAR 1:200 @A1 1:400 @A3

**PRINT IN COLOUR**

Client  
**FORESTVILLE RSL**

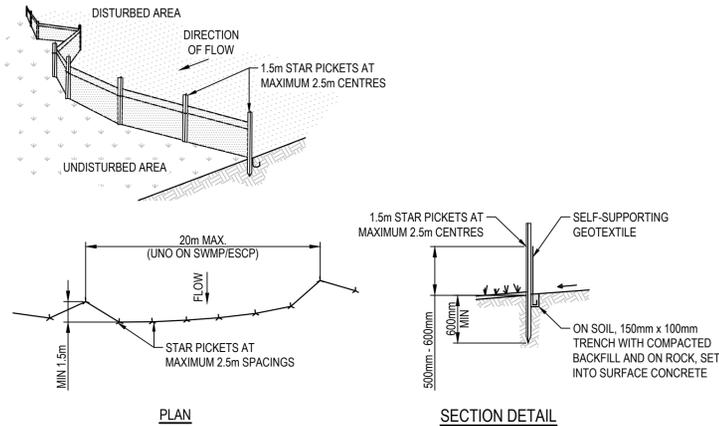
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Project  
**FORESTVILLE RSL CLUB REDEVELOPMENT**  
22 MELWOOD AVENUE  
FORESTVILLE, NSW, 2087

Drawing Title <b>CIVIL SERVICES SOIL EROSION AND SEDIMENT CONTROL PLAN</b>				
Drawn RP	Designed GL	O.A. Check GL	Date 06.05.25	Scale @ A1 1:200
Project No. NA241102	Drawing No. C03-0001	Issue C		

**NOT FOR CONSTRUCTION**



PLAN SECTION DETAIL

**CONSTRUCTION NOTES**

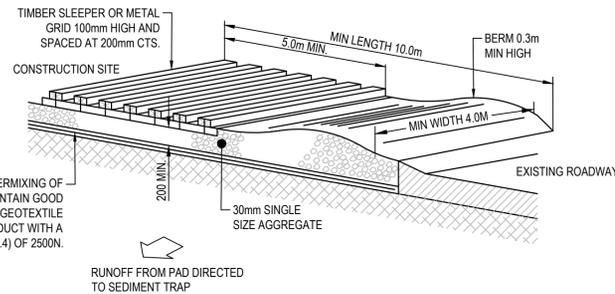
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5m LONG STAR PICKETS INTO GROUND, 2.5 METRES APART (MAX). ENSURE STAR PICKETS ARE FITTED WITH SAFETY CAPS.
3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC.
5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

**SEDIMENT CONTROL FENCE**

N.T.S.

**NOTE**  
ENSURE THAT ALL UTILITY ASSETS ARE MAINTAINED AND PROTECTED AT ALL TIMES IN THE VICINITY OF THE TEMPORARY CONSTRUCTION EXIT

GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. THE GEOTEXTILE MAY BE WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4) OF 2500N.



**CONSTRUCTION NOTES**

1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING 30mm SINGLE SIZE AGGREGATE.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP WHERE THE SEDIMENT IS COLLECTED AND REMOVED.

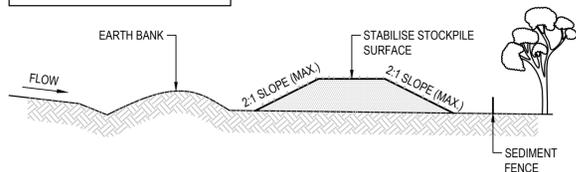
**MAINTENANCE NOTES**

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT OFF THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED OFF THE CONSTRUCTION SITE MUST BE REMOVED IMMEDIATELY.

**TEMPORARY STABILISED CONSTRUCTION EXIT**

N.T.S.

**SOURCE:**  
MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION, THIRD EDITION, AUGUST 1998 PRODUCED BY THE DEPARTMENT OF HOUSING

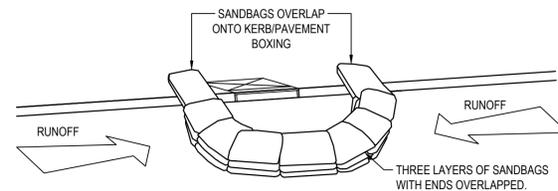


**CONSTRUCTION NOTES**

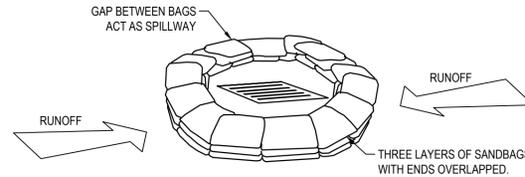
1. LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND.
3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METERS IN HEIGHT.
4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-2) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-7) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

**STOCKPILES**

N.T.S.



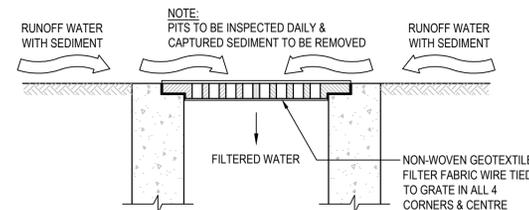
**SANDBAG SEDIMENT TRAP - AT KERB SAG PIT**



**SANDBAG SEDIMENT TRAP - AT OTHER THAN KERB SAG PIT**

**SANDBAG SEDIMENT TRAP DETAILS**

N.T.S.



**INLET TRAP**

N.T.S.

**NOTE**  
TO BE USED IN PAVED AREAS WHERE TRAFFIC ACCESS IS REQUIRED

**EROSION AND SEDIMENT CONTROL NOTES**

**GENERAL INSTRUCTIONS**

- E1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED AND RELATING TO DEVELOPMENT AT THE SUBJECT SITE.
- E2. THE PRINCIPAL'S REPRESENTATIVE WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 2004 (BLUE BOOK).
- E3. ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.

**CONSTRUCTION SEQUENCE**

E4. THE SOIL EROSION POTENTIAL ON THIS SITE SHALL BE MINIMISED. HENCE WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE :

- a. INSTALL SEDIMENT FENCES, TEMPORARY CONSTRUCTION EXIT AND SANDBAG KERB INLET SEDIMENT TRAP.
- b. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

**EROSION CONTROL**

E5. DURING WINDY CONDITIONS, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.

E6. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

**FENCING**

E7. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.

E8. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.

E9. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.

E10. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

**OTHER MATTERS**

E11. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

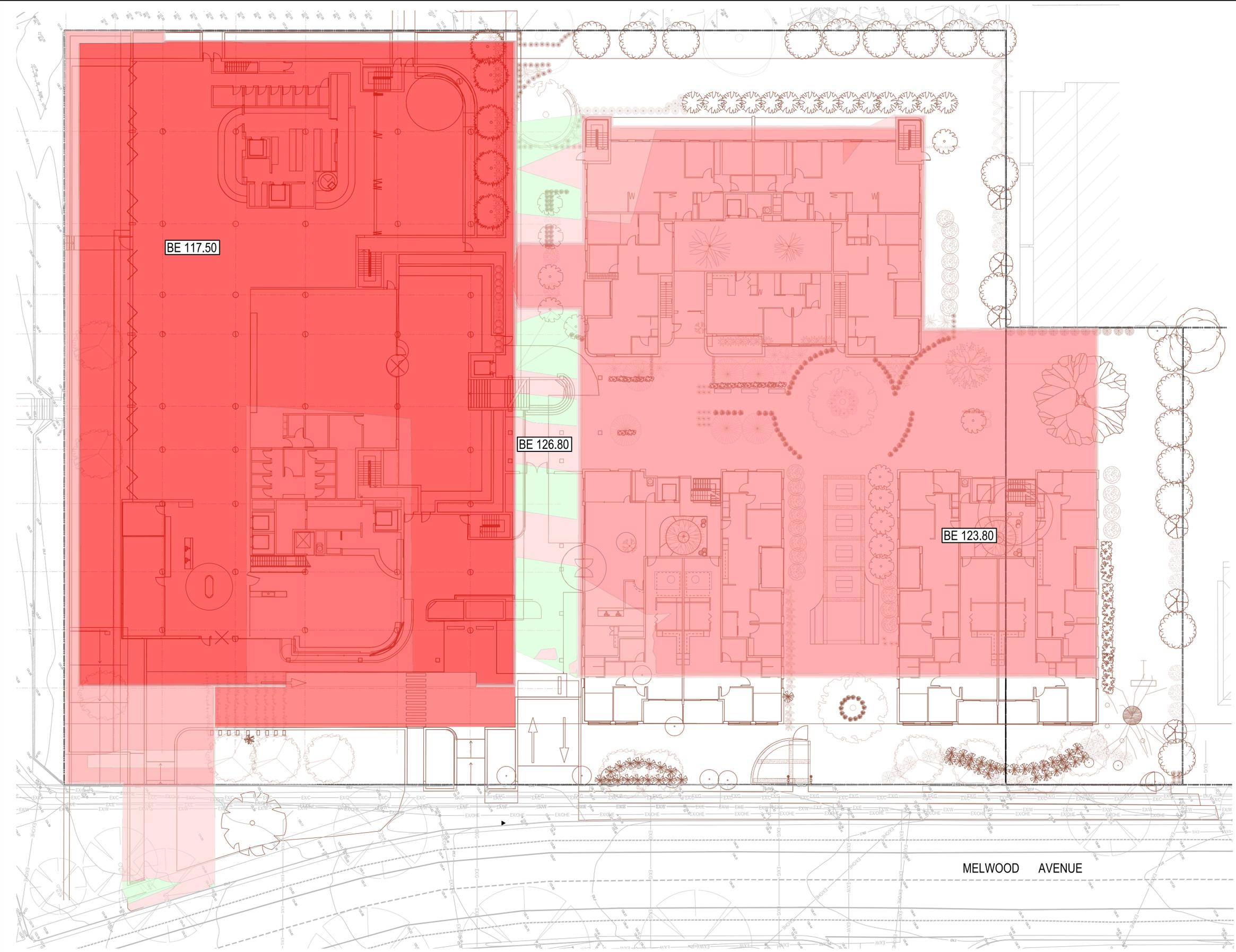
E12. RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE PRINCIPAL'S REPRESENTATIVE.

**SITE INSPECTION & MAINTENANCE**

E13. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIR AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED.



North		Scale		Client FORESTVILLE RSL		Architect Quattro ARCHITECTURE ACOR CONSULTANTS		Project FORESTVILLE RSL CLUB REDEVELOPMENT 22 MELWOOD AVENUE FORESTVILLE, NSW, 2087		Drawing Title CIVIL SERVICES SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS																															
PRINT IN COLOUR		ACOR CONSULTANTS		SUITE 129, 117 OLD PITTWATER ROAD BROOKVALE, NSW, 2100		ACOR Consultants Pty Ltd Suite 2, Level 1, 33 Herbert Street St Leonards NSW 2065 T +61 2 9438 5098		22 MELWOOD AVENUE FORESTVILLE, NSW, 2087		NOT FOR CONSTRUCTION																															
<table border="1"> <tr> <th>Issue</th> <th>Description</th> <th>Date</th> <th>Drawn</th> <th>Approved</th> </tr> <tr> <td>C</td> <td>RE-ISSUE FOR DEVELOPMENT APPLICATION</td> <td>06.05.25</td> <td>RP</td> <td>GL</td> </tr> <tr> <td>B</td> <td>RE-ISSUE FOR DEVELOPMENT APPLICATION</td> <td>20.09.24</td> <td>DJ</td> <td>GL</td> </tr> <tr> <td>A</td> <td>ISSUE FOR DEVELOPMENT APPLICATION</td> <td>30.08.24</td> <td>RP</td> <td>GL</td> </tr> </table>		Issue	Description	Date	Drawn	Approved	C	RE-ISSUE FOR DEVELOPMENT APPLICATION	06.05.25	RP	GL	B	RE-ISSUE FOR DEVELOPMENT APPLICATION	20.09.24	DJ	GL	A	ISSUE FOR DEVELOPMENT APPLICATION	30.08.24	RP	GL	<table border="1"> <tr> <th>Drawn</th> <th>Designed</th> <th>O.A. Check</th> <th>Date</th> <th>Scale @ A1</th> </tr> <tr> <td>RP</td> <td>GL</td> <td>GL</td> <td>06.05.25</td> <td>AS SHOWN</td> </tr> </table>		Drawn	Designed	O.A. Check	Date	Scale @ A1	RP	GL	GL	06.05.25	AS SHOWN	<table border="1"> <tr> <th>Project No.</th> <th>Drawing No.</th> <th>Issue</th> </tr> <tr> <td>NA241102</td> <td>C03-0101</td> <td>C</td> </tr> </table>		Project No.	Drawing No.	Issue	NA241102	C03-0101	C
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C	RE-ISSUE FOR DEVELOPMENT APPLICATION	06.05.25	RP	GL																																					
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RP	GL	GL	06.05.25	AS SHOWN																																					
Project No.	Drawing No.	Issue																																							
NA241102	C03-0101	C																																							



LEGEND				
EARTHWORKS CUT/ FILL ISOPACH				
LOWER VALUE	UPPER VALUE		COLOUR	
-999	to	-7.00	m	[Dark Red]
-7.00	to	-6.00	m	[Red]
-6.00	to	-5.00	m	[Light Red]
-5.00	to	-4.00	m	[Pink]
-4.00	to	-3.00	m	[Light Pink]
-3.00	to	-2.00	m	[Very Light Pink]
-2.00	to	-1.00	m	[Lightest Pink]
-1.00	to	0.00	m	[White]
0.00	to	1.00	m	[Lightest Green]
1.00	to	2.00	m	[Light Green]
2.00	to	3.00	m	[Medium Green]
3.00	to	4.00	m	[Dark Green]
4.00	to	5.00	m	[Very Dark Green]
5.00	to	6.00	m	[Darkest Green]
6.00	to	7.00	m	[Black]
7.00	to	999	m	[Black]

CUT / FILL QUANTITIES	
TOTAL CUT	-35,410m³
TOTAL FILL	5m³
TOTAL BALANCE	-34,405m³

NOTE: ALL EARTHWORKS QUANTITIES ARE THEORETICAL AND INDICATIVE ONLY, BASED UPON BANKED VOLUMES WITH NO ALLOWANCE FOR BULKING FACTORS. CONTRACTOR TO MAKE HIS OWN ASSESSMENT OF EARTHWORKS QUANTITIES

- EARTHWORKS CUT AND FILL NOTES:**
- BULKING AND COMPACTION FACTORS HAVE NOT BEEN APPLIED TO THE CUT AND FILL QUANTITIES.
  - PROPOSED BUILDING FLOOR LEVELS HAVE BEEN PROVIDED BY THE ARCHITECT.
  - A NOMINAL BOXING OUT OF 200mm FOR FLOOR SLABS HAVE BEEN ALLOWED FOR IN THE CUT AND FILL CALCULATION.
  - ALL TOP SOIL SHALL BE RETAINED ON THE DEVELOPMENT SITE AND UTILISED EFFECTIVELY TO ENCOURAGE APPROPRIATE VEGETATION. NO STRIP TOPSOIL DEPTHS HAVE BEEN INCLUDED IN THESE CALCULATIONS.
  - CUT AND FILL QUANTITIES ARE LIMITED TO THE BUILDING ENVELOPE AND COURTYARD AREAS. DRIVEWAY, EXTERNAL LANDSCAPE, FOOTPATH AND RETAINING WALL AREAS HAVE NOT BEEN ACCOUNTED FOR IN THE QUANTITIES. DETAILED BULK EARTHWORKS CUT/FILL QUANTITIES FOR FOOTINGS, TRENCHING AND THE LIKE HAS NOT BEEN INCLUDED IN THE CUT AND FILL ASSESSMENT.

SCALE 1:200 @ A1  
SCALE 1:400 @ A3

Issue	Description	Date	Drawn	Approved
C	RE-ISSUE FOR DEVELOPMENT APPLICATION	06.05.25	RP	GL
B	ISSUE FOR DEVELOPMENT APPLICATION	20.09.24	DJ	GL
A	NOT ISSUED			

North

Scale

Client  
FORESTVILLE RSL

Architect

SUITE 129, 117 OLD PITTWATER ROAD  
BROOKVALE, NSW, 2100

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Suite 2, Level 1, 33 Herbert Street  
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Project  
FORESTVILLE RSL  
CLUB REDEVELOPMENT  
22 MELWOOD AVENUE  
FORESTVILLE, NSW, 2087

Project No. NA241102  
Drawing No. C04-0001

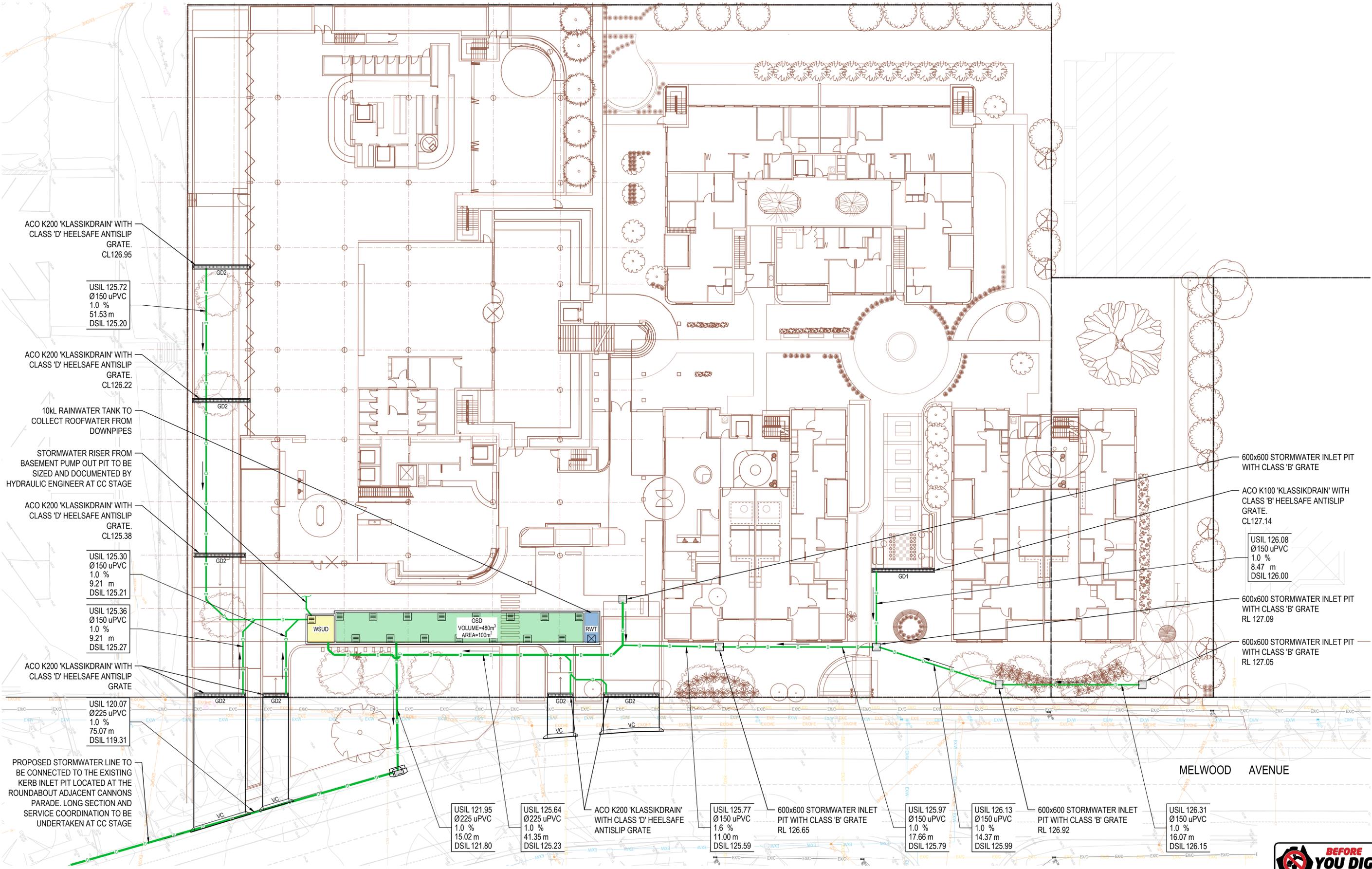
Scale @ A1 1:200

Issue C

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ACO K200 'KLASSIKDRAIN' WITH CLASS 'D' HEELSAFE ANTISLIP GRATE. CL 126.95

USIL 125.72  
Ø150 uPVC  
1.0 %  
51.53 m  
DSIL 125.20

ACO K200 'KLASSIKDRAIN' WITH CLASS 'D' HEELSAFE ANTISLIP GRATE. CL 126.22

10kL RAINWATER TANK TO COLLECT ROOFWATER FROM DOWNPIPES

STORMWATER RISER FROM BASEMENT PUMP OUT PIT TO BE SIZED AND DOCUMENTED BY HYDRAULIC ENGINEER AT CC STAGE

ACO K200 'KLASSIKDRAIN' WITH CLASS 'D' HEELSAFE ANTISLIP GRATE. CL 125.38

USIL 125.30  
Ø150 uPVC  
1.0 %  
9.21 m  
DSIL 125.21

USIL 125.36  
Ø150 uPVC  
1.0 %  
9.21 m  
DSIL 125.27

ACO K200 'KLASSIKDRAIN' WITH CLASS 'D' HEELSAFE ANTISLIP GRATE

USIL 120.07  
Ø225 uPVC  
1.0 %  
75.07 m  
DSIL 119.31

PROPOSED STORMWATER LINE TO BE CONNECTED TO THE EXISTING KERB INLET PIT LOCATED AT THE ROUNDABOUT ADJACENT CANNONS PARADE. LONG SECTION AND SERVICE COORDINATION TO BE UNDERTAKEN AT CC STAGE

600x600 STORMWATER INLET PIT WITH CLASS 'B' GRATE

ACO K100 'KLASSIKDRAIN' WITH CLASS 'B' HEELSAFE ANTISLIP GRATE. CL 127.14

USIL 126.08  
Ø150 uPVC  
1.0 %  
8.47 m  
DSIL 126.00

600x600 STORMWATER INLET PIT WITH CLASS 'B' GRATE RL 127.09

600x600 STORMWATER INLET PIT WITH CLASS 'B' GRATE RL 127.05

USIL 121.95  
Ø225 uPVC  
1.0 %  
15.02 m  
DSIL 121.80

USIL 125.64  
Ø225 uPVC  
1.0 %  
41.35 m  
DSIL 125.23

ACO K200 'KLASSIKDRAIN' WITH CLASS 'D' HEELSAFE ANTISLIP GRATE

USIL 125.77  
Ø150 uPVC  
1.6 %  
11.00 m  
DSIL 125.59

600x600 STORMWATER INLET PIT WITH CLASS 'B' GRATE RL 126.65

USIL 125.97  
Ø150 uPVC  
1.0 %  
17.66 m  
DSIL 125.79

USIL 126.13  
Ø150 uPVC  
1.0 %  
14.37 m  
DSIL 125.99

600x600 STORMWATER INLET PIT WITH CLASS 'B' GRATE RL 126.92

USIL 126.31  
Ø150 uPVC  
1.0 %  
16.07 m  
DSIL 126.15

Issue	Description	Date	Drawn	Approved
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A	ISSUE FOR DEVELOPMENT APPLICATION	30.08.24	RP	GL

North

Scale  
0 2 4 8 12m  
SCALE BAR 1:200 @A1 1:400 @A3

**PRINT IN COLOUR**

Client  
**FORESTVILLE RSL**

Architect  
**Quattro ARCHITECTURE**  
SUITE 129, 117 OLD PITTWATER ROAD  
BROOKVALE, NSW, 2100

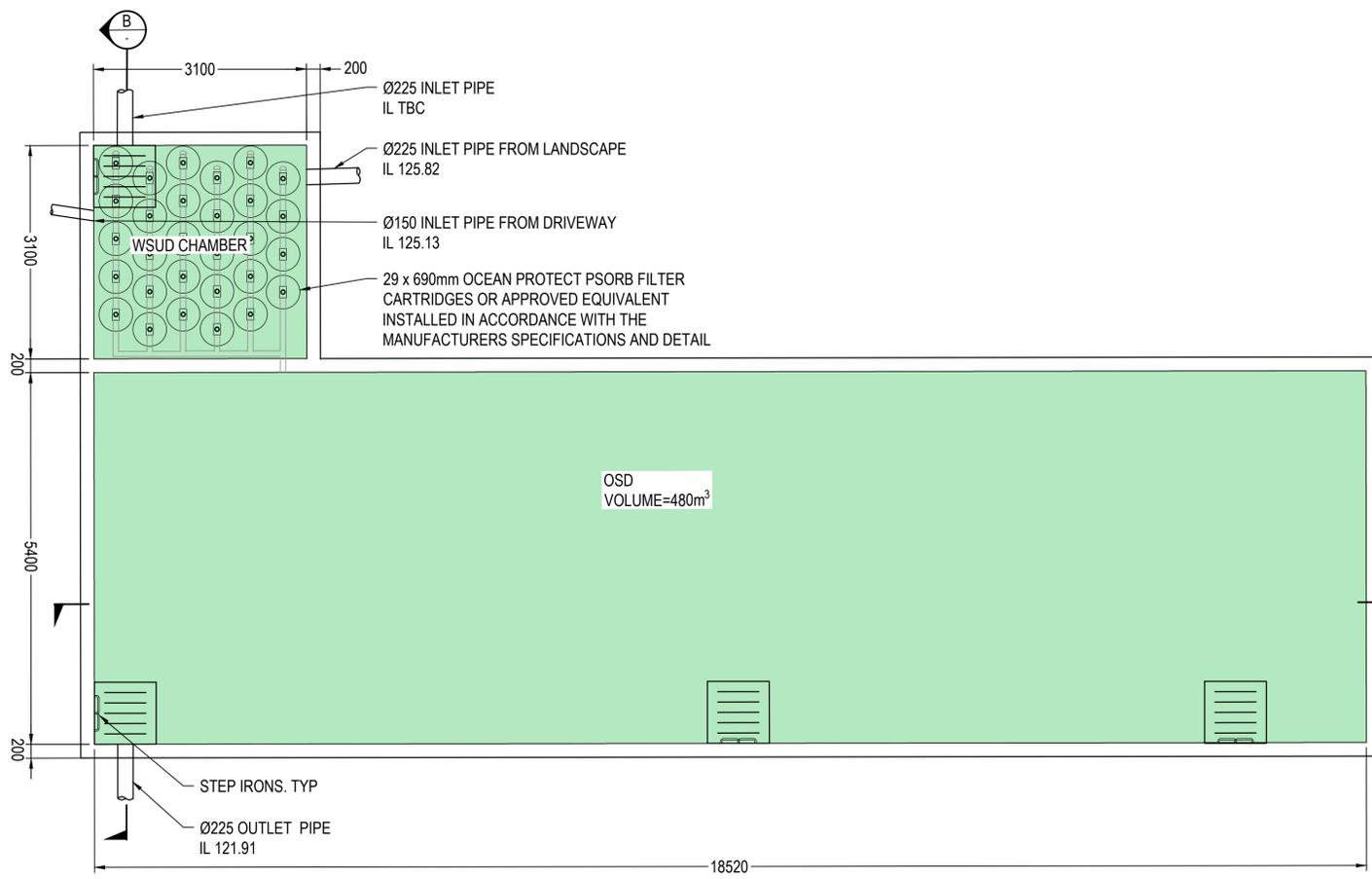
**ACOR CONSULTANTS**  
ACOR Consultants Pty Ltd  
Suite 2, Level 1, 33 Herbert Street  
St Leonards NSW 2065  
T +61 2 9438 5098

Project  
**FORESTVILLE RSL CLUB REDEVELOPMENT**  
22 MELWOOD AVENUE  
FORESTVILLE, NSW, 2087

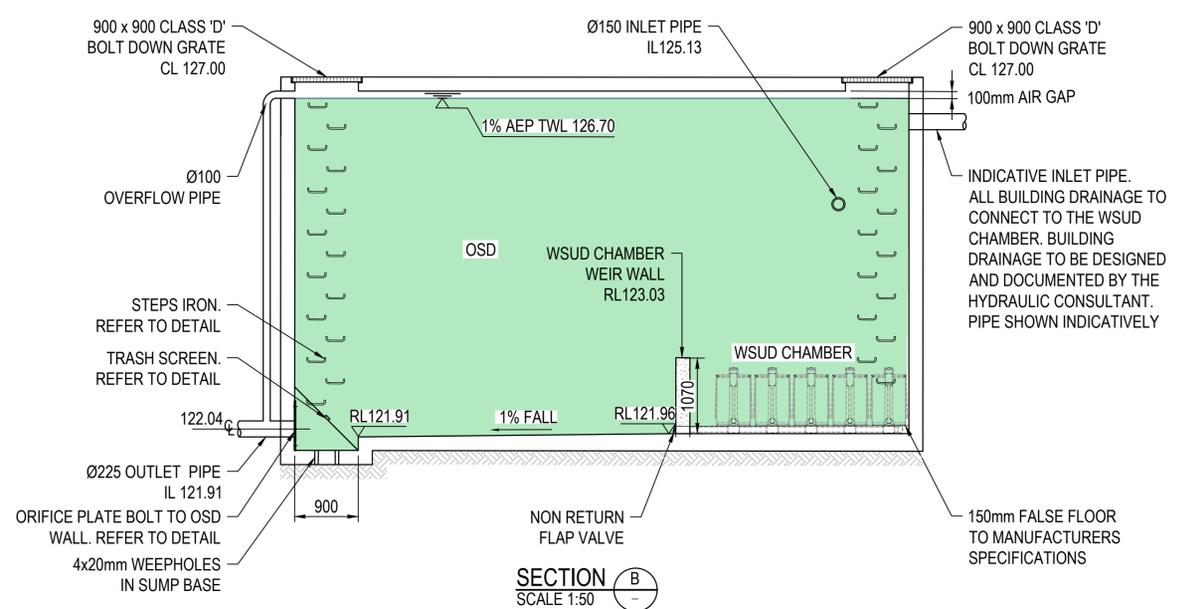
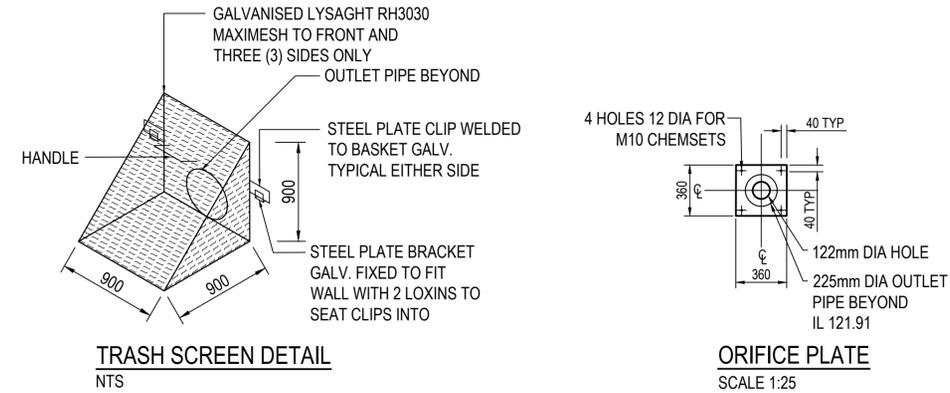
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Project No. NA241102	Drawing No. C08-0001			Issue C

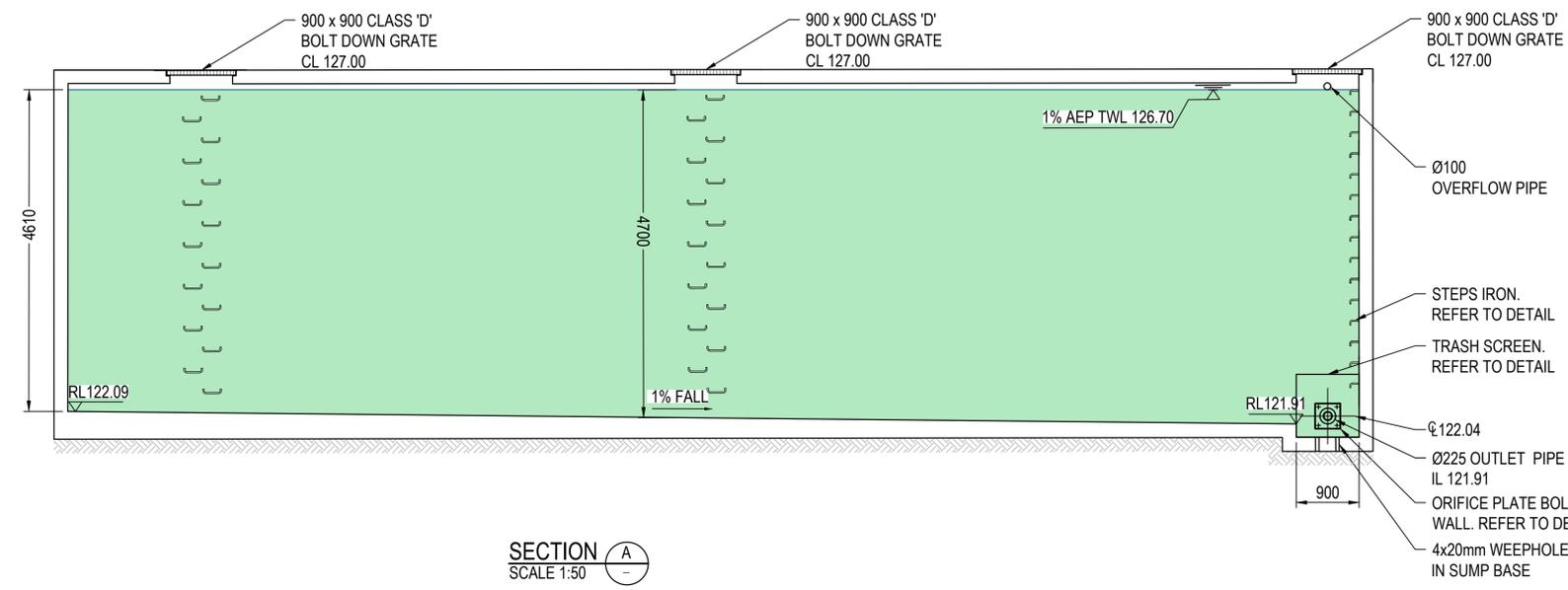




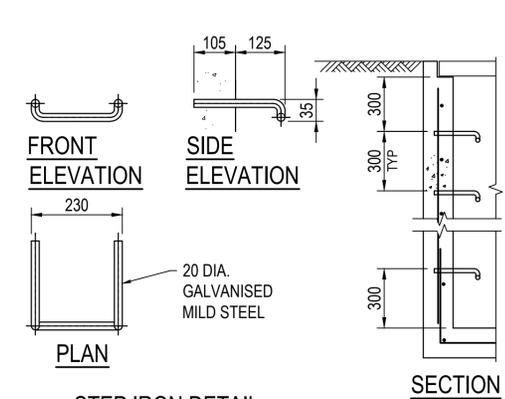
**ON-SITE DETENTION SYSTEM - PLAN**  
SCALE 1:50



**SECTION B**  
SCALE 1:50

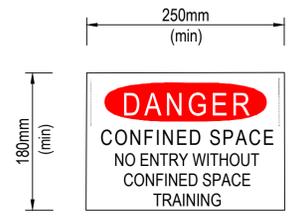


**SECTION A**  
SCALE 1:50



**STEP IRON DETAIL**  
N.T.S.

NOTE: WHERE STEP IRONS WILL BE FULLY SUBMERGED, 306 STAINLESS STEEL STEP IRONS SHALL BE USED OR OTHER APPROVED STEP IRON



**CONFINED SPACE DANGER SIGN**

**NOTES**

- A CONFINED SPACE SIGN SHALL BE PLACED NEXT TO EACH AND EVERY ACCESS POINT THEY ARE VISIBLE TO PERSON ENTERING ANY BELOW GROUND TANK OR PIT.
- COLOURS:  
"DANGER" AND BACKGROUND - WHITE  
ELLIPTICAL AREA - RED  
LETTERING AND BORDER - BLACK
- MINIMUM OF THE SIGN:  
LARGE ENTRIES - 300mm x 450mm  
SMALL ENTRIES - 250 mm x 180mm
- SIGN TO BE MADE FROM COLOUR BONDED ALUMINIUM OR POLYPROPYLENE
- SIGN FIXED USING HILTI CHEMSETS OR EPOXY

Issue	Description	Date	Drawn	Approved
C	RE-ISSUE FOR DEVELOPMENT APPLICATION	06.05.25	RP	GL
B	RE-ISSUE FOR DEVELOPMENT APPLICATION	20.09.24	DJ	GL
A	ISSUE FOR DEVELOPMENT APPLICATION	30.08.24	RP	GL

North	Scale	Client
		FORESTVILLE RSL
<b>PRINT IN COLOUR</b>		

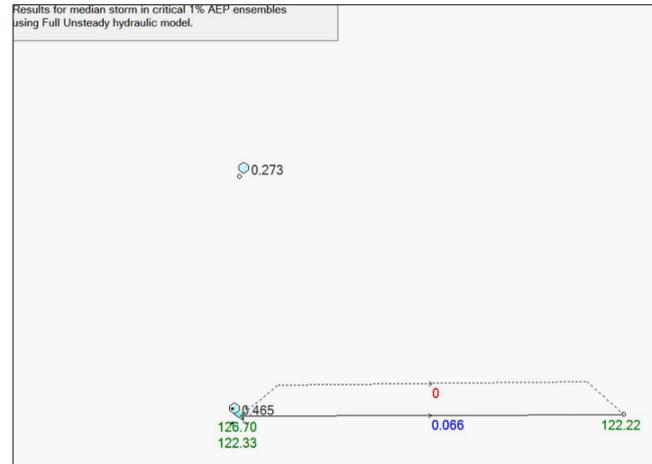
Architect	Client
 SUITE 129, 117 OLD PITTWATER ROAD BROOKVALE, NSW, 2100	FORESTVILLE RSL

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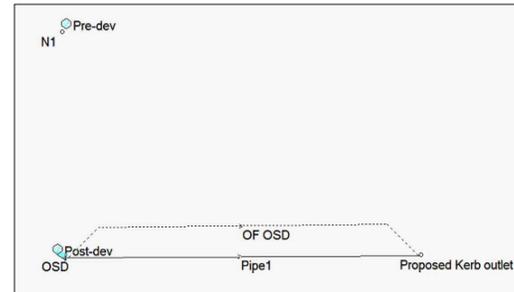
Project <b>FORESTVILLE RSL CLUB REDEVELOPMENT</b> 22 MELWOOD AVENUE FORESTVILLE, NSW, 2087
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Drawing Title <b>CIVIL SERVICES STORMWATER DETAILS SHEET 1</b>
Drawn: RP Designed: GL O.A. Check: GL Date: 06.05.25 Scale @ A1: AS SHOWN
Project No.: NA241102 Drawing No.: C08-0301 Issue: C

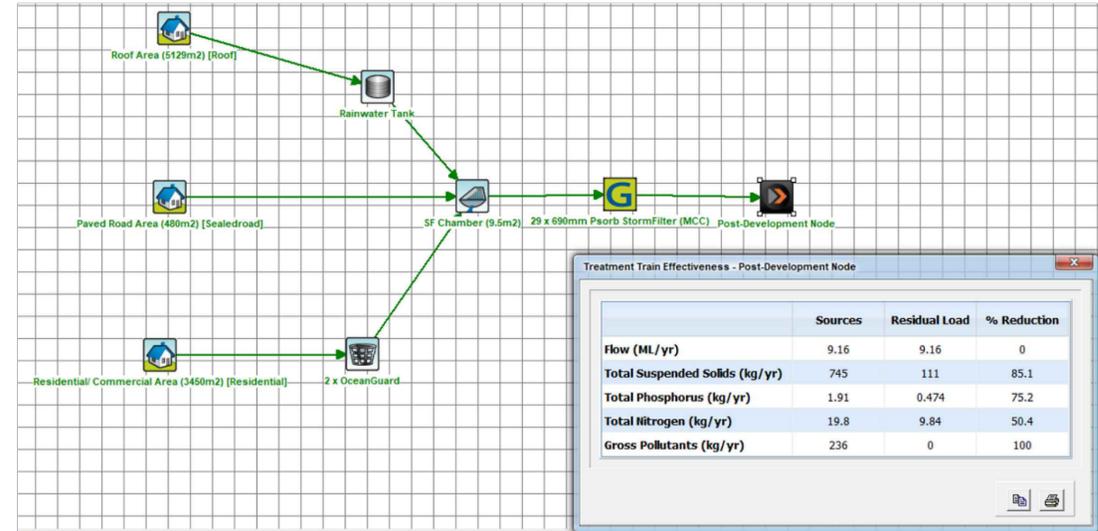
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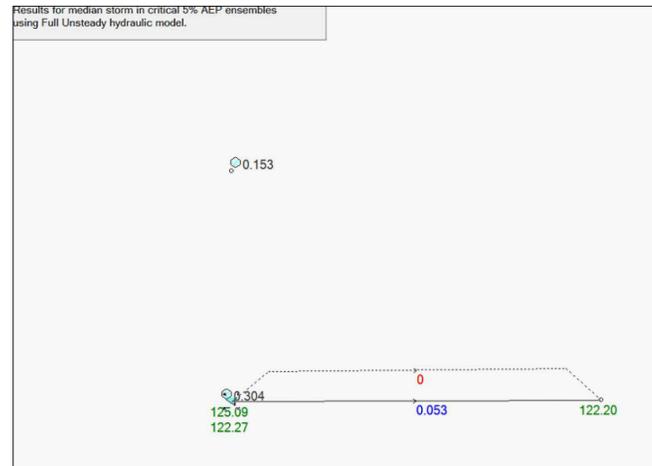
1% AEP DRAINS RESULT



DRAINS MODEL LAYOUT

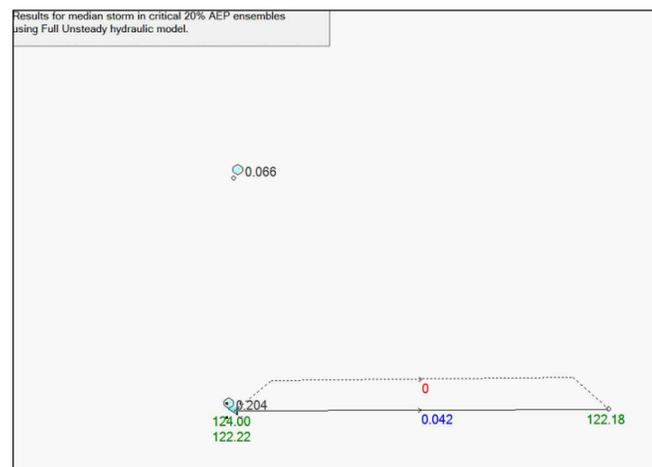


SNAPSHOT OF MUSIC MODEL SHOWING PERCENTAGE REDUCTION



5% AEP DRAINS RESULT

DESIGN CRITERIA - ON-SITE DETENTION	
TOTAL SITE AREA OF DEVELOPMENT WORKS =	9014 m <sup>2</sup>
DESIGN METHOD =	ILSAX
PRE-DEVELOPED IMPERVIOUS AREA =	9014m <sup>2</sup> (0%)
POST-DEVELOPED IMPERVIOUS AREA =	6654m <sup>2</sup> (74%)
PRE DEVELOPED FLOWS (l/s) =	Q <sub>5</sub> = 66.0 Q <sub>20</sub> = 153.0 Q <sub>100</sub> = 173.0
POST DEVELOPED FLOWS (l/s) =	Q <sub>5</sub> = 42 Q <sub>20</sub> = 53.0 Q <sub>100</sub> = 66.0
PORTION OF SITE THROUGH OSD SYSTEM =	9014m <sup>2</sup> (100%)
TAILWATER LEVEL DOWNSTREAM 1% AEP =	RL126.7
TORAL OSD STORAGE VOLUME PROVIDED =	480m <sup>3</sup>



20% AEP DRAINS RESULT

DESIGN CRITERIA - WSUD	
26 x 690 PSORB STORMWATER CARTRIDGES AND 2x OCEAN GUARD PIT BASKETS (LOCATION TO BE CONFIRMED AT DETAILED DESIGN STAGE) ARE UTILISED TO ACHIEVE THE REQUIRED WATER QUALITY TARGETS AS PER NORTHERN BEACHES COUNCIL REQUIREMENTS GIVEN BELOW:	
TOTAL SUSPENDED SOLIDS (kg/yr):	85%
TOTAL PHOSPHORUS (kg/yr):	65%
TOTAL NITROGEN (kg/yr):	45%
GROSS POLLUTANT (kg/yr):	90%

Issue	Description	Date	Drawn	Approved
C	RE-ISSUE FOR DEVELOPMENT APPLICATION	06.05.25	RP	GL
B	RE-ISSUE FOR DEVELOPMENT APPLICATION	20.09.24	DJ	GL
A	ISSUE FOR DEVELOPMENT APPLICATION	30.08.24	RP	GL

North	Scale	Client FORESTVILLE RSL
<b>PRINT IN COLOUR</b>		

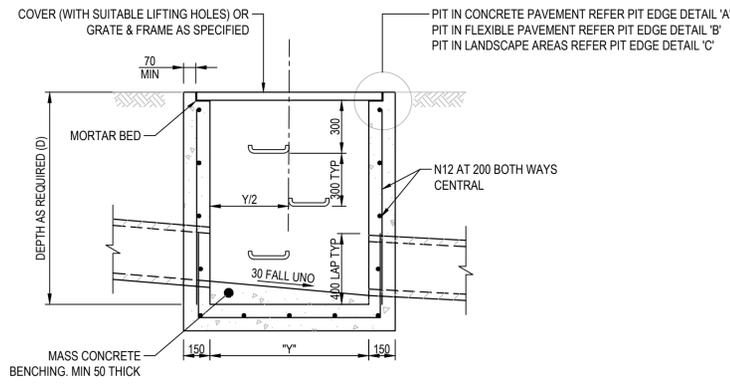
Architect <b>Quattro ARCHITECTURE</b> SUITE 129, 117 OLD PITTWATER ROAD BROOKVALE, NSW, 2100
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Client FORESTVILLE RSL
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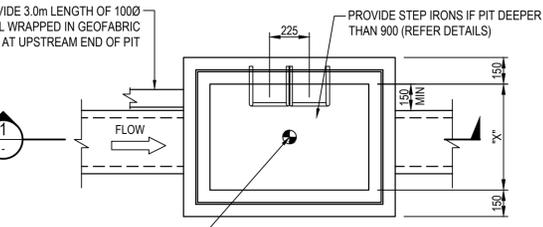
Architect <b>ACOR CONSULTANTS</b>
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Project FORESTVILLE RSL CLUB REDEVELOPMENT 22 MELWOOD AVENUE FORESTVILLE, NSW, 2087
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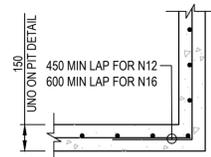
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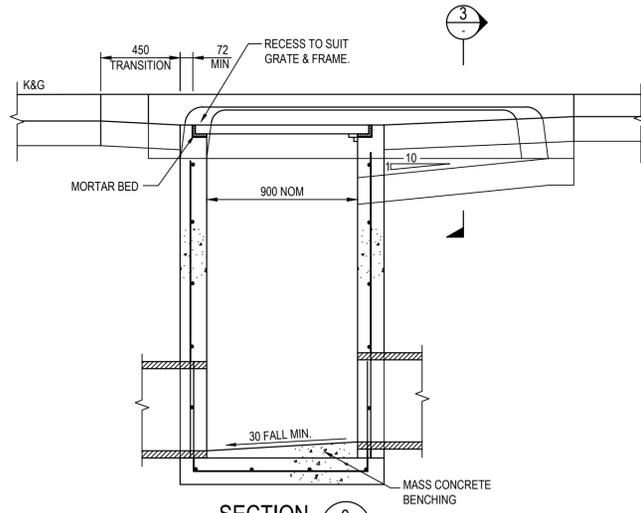
SURFACE INLET/JUNCTION PIT  
SCALE 1:20



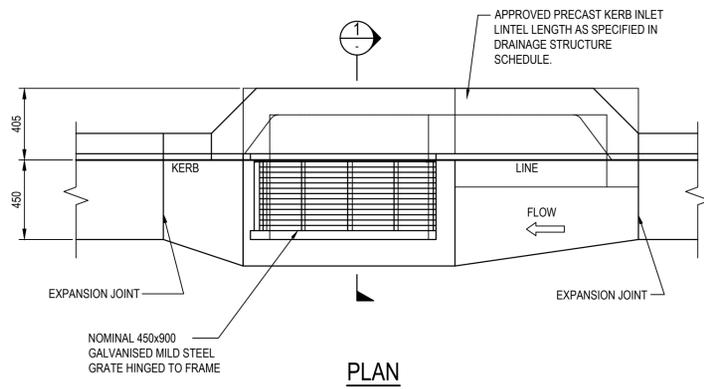
TYPICAL PIT CORNER DETAIL  
SCALE 1:20

MINIMUM INTERNAL PIT DIMENSIONS		
"D"	"X"	"Y"
D < 600	450	450*
D < 900	600	600*
D < 1200	600	900
D > 1200	900	900

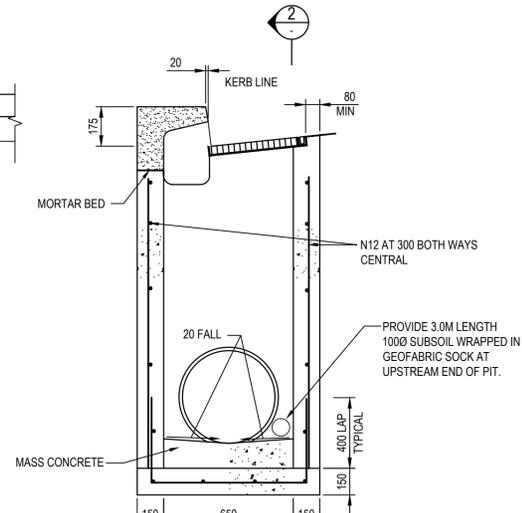
NOTE  
PITS DENOTED \* SHALL BE USED ONLY WHERE SPECIFIED IN DRAINAGE SCHEDULE OR ON PLAN.



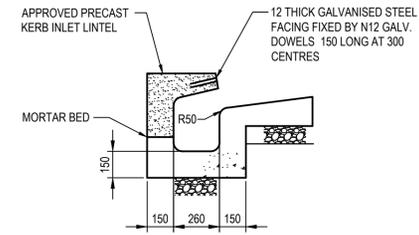
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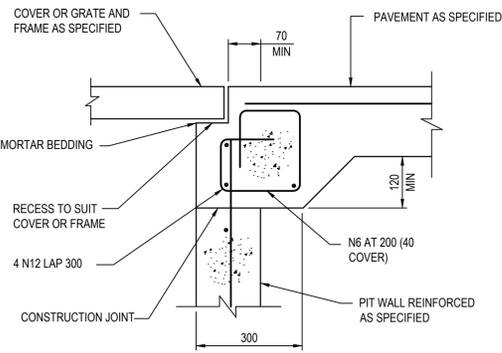
KERB INLET PIT TYPE "C"  
SCALE 1:20



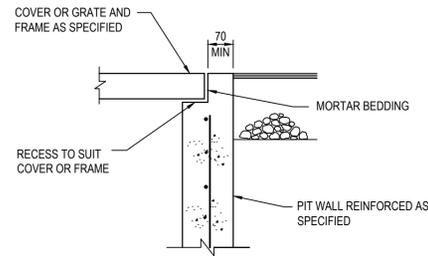
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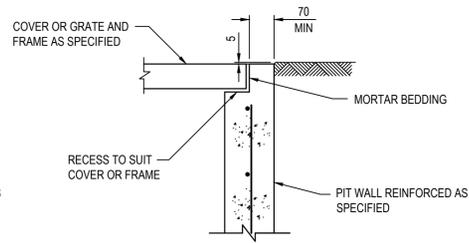
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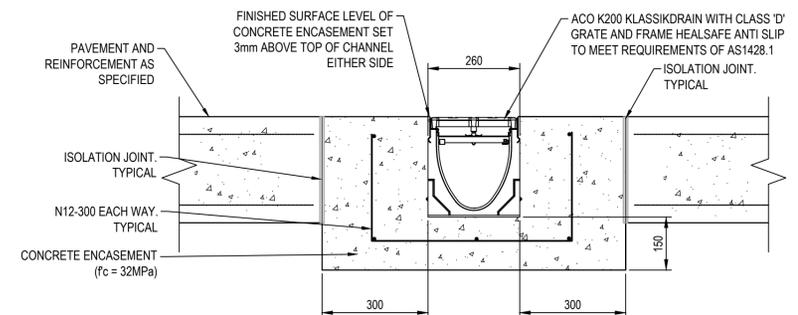
PIT EDGE DETAIL "A"  
SCALE 1:10



PIT EDGE DETAIL "B"  
SCALE 1:10



PIT EDGE DETAIL "C"  
SCALE 1:10



HEAVY DUTY GRATED DRAIN (GD2)  
SCALE 1:10

Issue	Description	Date	Drawn	Approved
C	RE-ISSUE FOR DEVELOPMENT APPLICATION	06.05.25	RP	GL
B	RE-ISSUE FOR DEVELOPMENT APPLICATION	20.09.24	DJ	GL
A	ISSUE FOR DEVELOPMENT APPLICATION	30.08.24	RP	GL

North	Scale	Client FORESTVILLE RSL
<b>PRINT IN COLOUR</b>		

Architect Quattro ARCHITECTURE SUITE 129, 117 OLD PITTWATER ROAD BROOKVALE, NSW, 2100
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ACOR CONSULTANTS ACOR CONSULTANTS
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ACOR Consultants Pty Ltd Suite 2, Level 1, 33 Herbert Street St Leonards NSW 2065 T +61 2 9438 5098
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Project FORESTVILLE RSL CLUB REDEVELOPMENT 22 MELWOOD AVENUE FORESTVILLE, NSW, 2087
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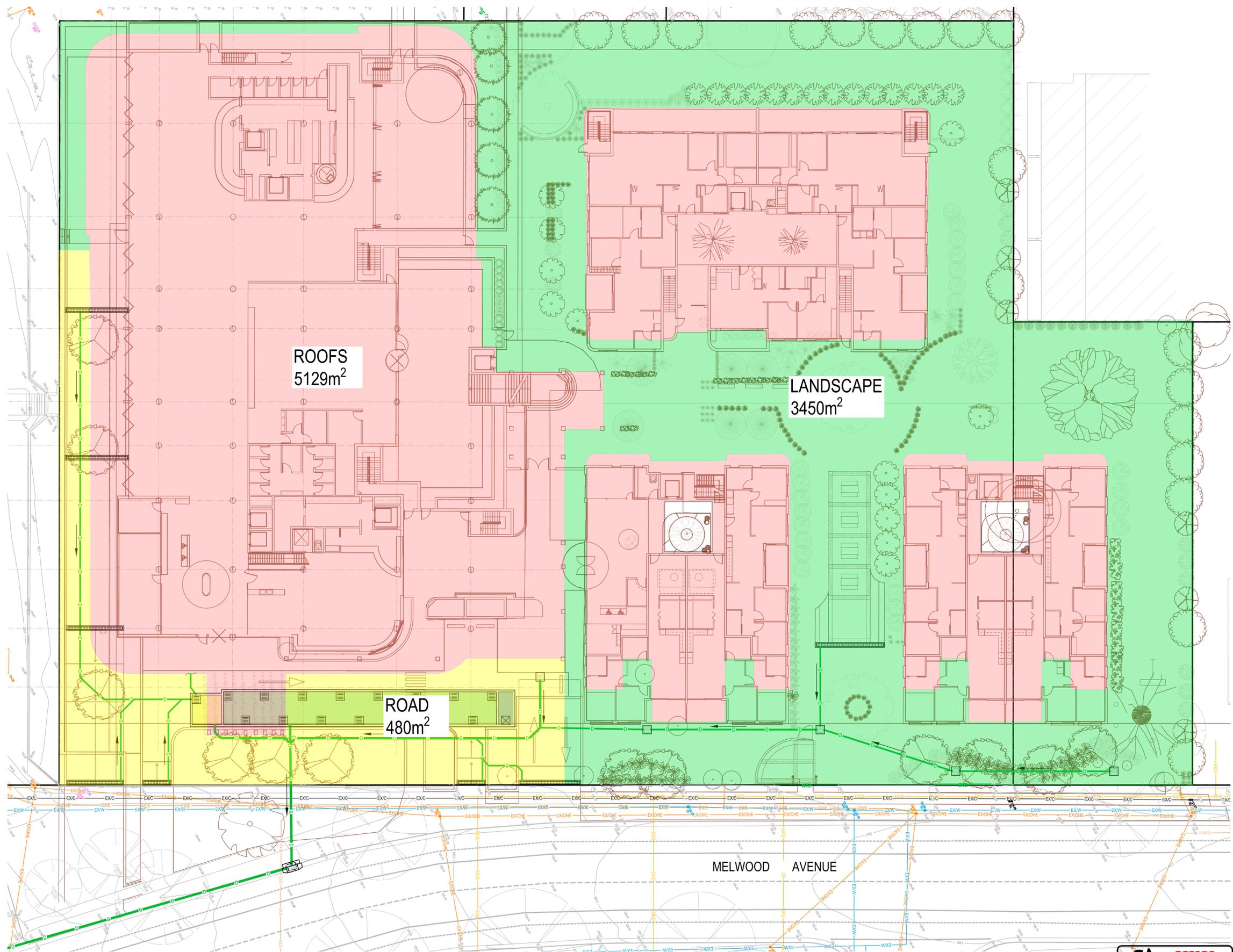
Drawing Title CIVIL SERVICES STORMWATER DETAILS SHEET 3	Drawn RP	Designed GL	O.A. Check GL	Date 06.05.25	Scale @ A1 AS SHOWN
Project No. NA241102	Drawing No. C08-0303	Issue C			

NOT FOR CONSTRUCTION

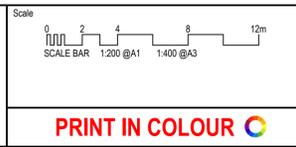
**CALCULATIONS  
MUSIC MODEL**

CUMULATIVE ROOF AREA - DESIGNED BY HYDRAULIC CONSULTANT

- ROOF AREA: 5129 m<sup>2</sup> (0% PERVIOUS, SEE SPREADSHEET ON DRAINS DESIGN FOLDER)
- PAVED ROAD AREA: 480 m<sup>2</sup> (0% PERVIOUS)
- RESIDENTIAL/ COMMERCIAL AREA: 3450m<sup>2</sup> (50% PERVIOUS)



Issue	Description	Date	Drawn	Approved
C	RE-ISSUE FOR DEVELOPMENT APPLICATION	06.05.25	RP	GL
B	RE-ISSUE FOR DEVELOPMENT APPLICATION	20.09.24	DJ	GL
A	ISSUE FOR DEVELOPMENT APPLICATION	30.08.24	RP	GL



Client  
**FORESTVILLE RSL**

Architect  
**Quattro ARCHITECTURE**  
SUITE 129, 117 OLD PITTWATER ROAD  
BROOKVALE, NSW, 2100



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Project  
**FORESTVILLE RSL CLUB REDEVELOPMENT**  
22 MELWOOD AVENUE  
FORESTVILLE, NSW, 2087

Drawing Title <b>CIVIL SERVICES STORMWATER MANAGEMENT CATCHMENT PLAN</b>				
Drawn RP	Designed GL	O.A Check GL	Date 06.05.25	Scale @ A1 1:200
Project No. NA241102	Drawing No. C08-0401	Issue C		

**NOT FOR CONSTRUCTION**

### PAVEMENT LEGEND

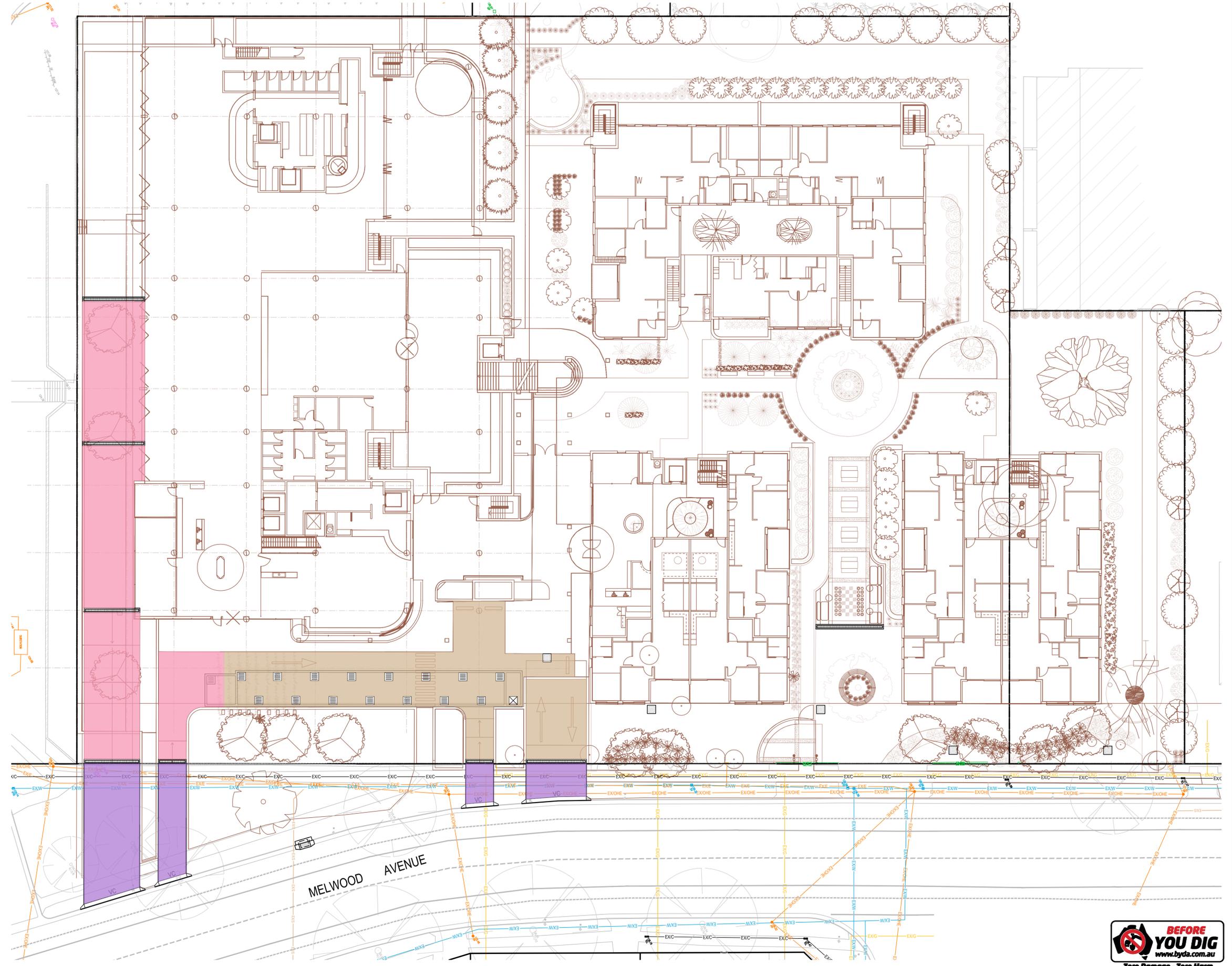
**PAVEMENT TYPE 3**  
RIGID CONCRETE PAVEMENT

DESIGN FINISHED SURFACE LEVEL

- 230mm N40 CONCRETE SL92 TOP AND BTM 50 COVER
- 125mm LEAN CONCRETE SUB-BASE
- COMPACTED SUBGRADE - DESIGN CBR MIN 2%

**PAVEMENT TYPE 8**  
STRUCTURAL SLAB  
REFER STRUCTURAL CONSULTANTS DRAWINGS FOR DETAILS

**PAVEMENT TYPE 9**  
DRIVEWAY  
LAYBACK AND DRIVEWAY TO BE CONSTRUCTED TO NORTHERN BEACHES COUNCIL DETAILS AND SPECIFICATIONS



Issue	Description	Date	Drawn	Approved
C	RE-ISSUE FOR DEVELOPMENT APPLICATION	06.05.25	RP	GL
B	RE-ISSUE FOR DEVELOPMENT APPLICATION	20.09.24	DJ	GL
A	ISSUE FOR DEVELOPMENT APPLICATION	30.08.24	RP	GL

North

Scale

**PRINT IN COLOUR**

Client  
**FORESTVILLE RSL**

Architect  
**Quattro ARCHITECTURE**  
SUITE 129, 117 OLD PITTWATER ROAD  
BROOKVALE, NSW, 2100

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Project  
**FORESTVILLE RSL CLUB REDEVELOPMENT**  
22 MELWOOD AVENUE  
FORESTVILLE, NSW, 2087

**NOT FOR CONSTRUCTION**

Drawing Title CIVIL SERVICES PAVEMENT PLAN				
Drawn RP	Designed GL	O.A Check GL	Date 06.05.25	Scale @ A1 1:200
Project No. NA241102	Drawing No. C09-0001	Issue C		