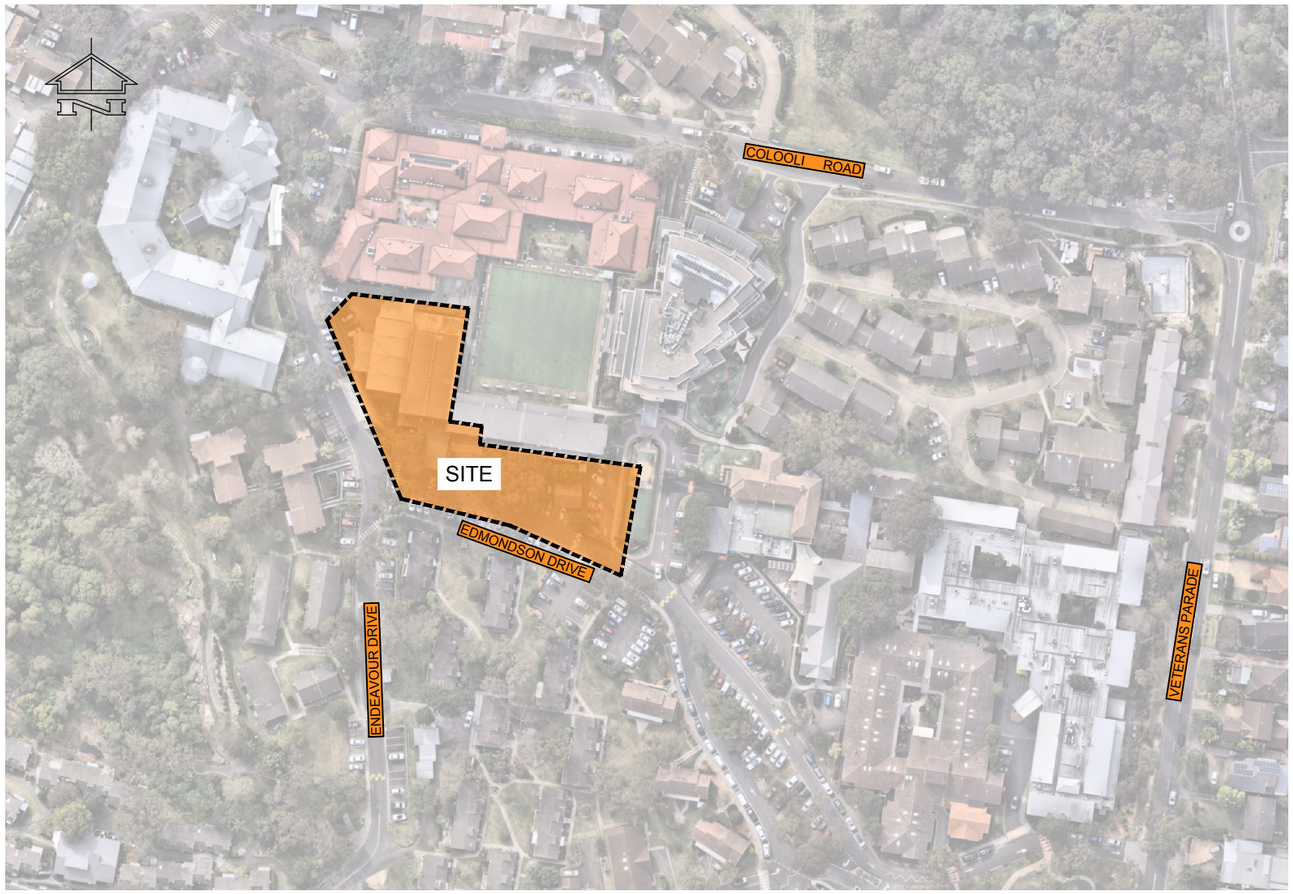
ANZAC VILLAGE
MONTGOMERY CENTRE
NARRABEEN, NSW



LOCALITY PLAN
SCALE 1:1000

DRAWING INDEX

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1:1000 A1 1:2000 A3

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
A	ISSUED FOR DA	JH JH	16.12.2024

Client: RSL LifeCare

Engineer: TTW www.ttwengineers.com

Project: ANZAC VILLAGE MONTGOMERY CENTRE NARRABEEN, NSW

Drawing Title: GENERAL COVER SHEET & DRAWING INDEX

Scale at A1	Drawn	Designed	Approved
1:1000	DA	JH	AH

Project No	Originator	Zone	Type	Role	Sheet No.	Rev
241807	TTW	00	DR	CI	00001	A

16.12.2024 4:24 PM

GENERAL

1. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE SUPERINTENDENT.
2. STRIP ALL TOPSOIL FROM THE CONSTRUCTION AREA. ALL STRIPPED TOPSOIL SHALL BE DISPOSED OF OFF-SITE UNLESS DIRECTED OTHERWISE.
3. MAKE SMOOTH CONNECTION WITH ALL EXISTING WORKS.
4. COMPACT SUBGRADE UNDER BUILDINGS AND PAVEMENTS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.1.1. COMPACTION UNDER BUILDINGS TO EXTEND 2M MINIMUM BEYOND BUILDING FOOTPRINT.
5. ALL WORK ON PUBLIC PROPERTY, PROPERTY WHICH IS TO BECOME PUBLIC PROPERTY, OR ANY WORK WHICH IS TO COME UNDER THE CONTROL OF THE STATUTORY AUTHORITY; THE CONTRACTOR IS TO ENSURE THAT THE DRAWINGS USED FOR CONSTRUCTION HAVE BEEN APPROVED BY ALL RELEVANT AUTHORITIES PRIOR TO COMMENCEMENT SITE.
6. ALL WORK ON PUBLIC PROPERTY, PROPERTY WHICH IS TO BECOME PUBLIC PROPERTY, OR ANY WORK WHICH IS TO COME UNDER THE CONTROL OF THE STATUTORY AUTHORITY IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY. THE CONTRACTOR SHALL OBTAIN THESE REQUIREMENTS FROM THE AUTHORITY. WHERE THE REQUIREMENTS OF THE AUTHORITY ARE DIFFERENT TO THE DRAWINGS AND SPECIFICATIONS, THE REQUIREMENTS OF THE AUTHORITY SHALL BE APPLICABLE.
7. FOR ALL TEMPORARY BATTERS REFER TO GEOTECHNICAL RECOMMENDATIONS.

BOUNDARIES AND EASEMENTS

1. THE PROPERTY BOUNDARY AND EASEMENT LOCATIONS SHOWN ON TAYLOR THOMSON WHITTING DRAWING'S HAVE BEEN BASED ON SURVEY

2. TAYLOR THOMSON WHITTING MAKES NO GUARANTEES THAT THE BOUNDARY OR EASEMENT INFORMATION SHOWN IS CORRECT. TAYLOR THOMSON WHITTING WILL ACCEPT NO LIABILITIES FOR BOUNDARY INACCURACIES. THE CONTRACTOR/BUILDER IS ADVISED TO CHECK/CONFIRM ALL BOUNDARIES IN RELATION TO ALL PROPOSED WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. BOUNDARY INACCURACIES FOUND ARE TO BE REPORTED TO THE SUPERINTENDENT PRIOR TO CONSTRUCTION STARTING.

REFERENCE DRAWINGS

1. THESE DRAWINGS HAVE BEEN BASED FROM, AND TO BE READ IN CONJUNCTION WITH THE FOLLOWING CONSULTANTS DRAWINGS. ANY CONFLICT TO THE DRAWINGS MUST BE NOTIFIED IMMEDIATELY TO THE ENGINEER.

CONSULTANT	DRAWING TITLE	DRAWING NUMBER	REVISION	DATE
McNally Architects	Proposed Site Plan	A100	01	5/12/2024
Bee & Lethbridge	Survey	15445	00	March 2018

SURVEY

ORIGIN OF LEVELS: -
DATUM OF LEVELS: -
COORDINATE SYSTEM: AHD
SURVEY PREPARED BY: Bee & Lethbridge

1. TAYLOR THOMSON WHITTING DOES NOT GUARANTEE THAT THE SURVEY INFORMATION SHOWN ON THESE DRAWINGS IS ACCURATE AND WILL ACCEPT NO LIABILITY FOR ANY INACCURACIES IN THE SURVEY INFORMATION PROVIDED TO US FROM ANY CAUSE WHATSOEVER.

SITE WORKS

1. ALL BASECOURSE MATERIAL TO COMPLY WITH RMS SPECIFICATION NO 3051 AND COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
2. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
3. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED SELECT MATERIAL AND COMPACTED TO A MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1

UNDERGROUND SERVICES - WARNING

1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON TAYLOR THOMSON WHITTINGS DRAWINGS HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITIES OWN USE AND MAY NOT NECESSARILY BE UPDATED OR ACCURATE.
2. THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION.
3. THE CONTRACTOR MUST CONFIRM THE EXACT LOCATION AND EXTENT OF SERVICES PRIOR TO CONSTRUCTION AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY TO THE ENGINEER/SUPERINTENDENT.
4. THE CONTRACTOR IS TO GET APPROVAL FROM THE RELEVANT STATE SURVEY DEPARTMENT, TO REMOVE/ADJUST ANY SURVEY MARK. THIS INCLUDES BUT IS NOT LIMITED TO; STATE SURVEY MARKS (SSM), PERMANENT MARKS (PM), CADASTRAL REFERENCE MARKS OR ANY OTHER SURVEY MARK WHICH IS TO BE REMOVED OR ADJUSTED IN ANY WAY.
5. TAYLOR THOMSON WHITTING PLANS DO NOT INDICATE THE PRESENCE OF ANY SURVEY MARK. THE CONTRACTOR IS TO UNDERTAKE THEIR OWN SEARCH.

KERBING

INCLUDES ALL KERBS, GUTTERS, DISH DRAINS, CROSSINGS AND EDGES.

1. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MINIMUM 75mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
2. EXPANSION JOINTS (EJ) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT 12M CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
3. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3M CENTRES EXCEPT FOR INTEGRAL KERBS WHERE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
4. BROOMED FINISHED TO ALL RAMPED AND VEHICULAR CROSSINGS, ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
5. IN THE REPLACEMENT OF KERBS - EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm FROM LIP OF GUTTER. UPON COMPLETION OF NEW KERBS, NEW BASE COURSE AND SURFACE IS TO BE LAID 900mm WIDE TO MATCH EXISTING MATERIALS AND THICKNESSES. EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB WITH A 100mm DIA HOLE. EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.

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RETAINING WALLS

1. DRAINAGE SHALL BE PROVIDED AS SHOWN ON THE DRAINAGE DRAWINGS.
2. BACKFILLING SHALL BE CARRIED OUT AFTER GROUT OR CONCRETE HAS REACHED A MINIMUM STRENGTH OF 0.85 F'C. BACKFILLING SHALL BE APPROVED GRANULAR MATERIAL COMPACTED IN LAYERS NOT EXCEEDING 200mm TO 95% STANDARD COMPACTION UNLESS NOTED OTHERWISE.
3. PROVIDE WATERPROOFING TO BACK OF WALLS AS SPECIFIED OR NOTED.
4. WHERE RETAINING WALLS RELY ON CONNECTING STRUCTURAL ELEMENTS FOR STABILITY, DO NOT BACKFILL AGAINST THE WALL UNLESS IT IS ADEQUATELY PROPPED OR THE ELEMENTS HAVE BEEN CONSTRUCTED AND HAVE SUFFICIENT STRENGTH TO WITHSTAND THE LOADS.
5. FOR ALL TEMPORARY BATTERS OBTAIN GEOTECHNICAL ENGINEERS RECOMMENDATIONS.

BEFORE YOU DIG AUSTRALIA (BYDA)

1. PUBLIC SERVICE UTILITY INFORMATION SHOWN ON PLAN HAS BEEN COMPLIED FROM INFORMATION RECEIVED FROM DIAL BEFORE YOU DIG INQUIRY, REFERENCE NUMBER No.3325120 OBTAINED ON 10.12.2024 UNLESS SPECIFICALLY SHOWN OTHERWISE, THIS LOCATION AND DEPTH OF SERVICES SHOWN ON THIS PLAN HAVE NOT BEEN VERIFIED.
2. THE LOCATION OF SERVICES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES AND SHOULD BE CONFIRMED BY SITE INSPECTION."

CONCRETE

1. PLACE CONCRETE OF THE FOLLOWING CHARACTERISTIC COMPRESSIVE STRENGTH f'c IN ACCORDANCE WITH AS 1379.
2.

LOCATION	f'c MPa (28 DAYS)	SPECIFIED SLUMP	NOMINAL AGG. SIZE
KERBS	S20	80	20
RETAINING WALL FOOTINGS	S40	80	20

3. USE TYPE 'GP' CEMENT, UNLESS OTHERWISE SPECIFIED.
4. ALL CONCRETE SHALL BE SUBJECT TO PROJECT ASSESSMENT AND TESTING TO AS 1379.
5. CONSOLIDATE BY MECHANICAL VIBRATION. CURE ALL CONCRETE SURFACES AS DIRECTED IN THE SPECIFICATION.
6. FOR ALL FALLS IN SLAB, DRIP GROOVES, REGLETS, CHAMFERS ETC. REFER TO ARCHITECTS DRAWINGS AND SPECIFICATIONS.
7. UNLESS SHOWN ON THE DRAWINGS, THE LOCATION OF ALL CONSTRUCTION JOINTS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.
8. NO HOLES OR CHASES SHALL BE MADE IN THE SLAB WITHOUT THE APPROVAL OF THE ENGINEER.
9. CONDUITS AND PIPES ARE TO BE FIXED TO THE UNDERSIDE OF THE TOP REINFORCEMENT LAYER.
10. SLURRY USED TO LUBRICATE CONCRETE PUMP LINES IS NOT TO BE USED IN ANY STRUCTURAL MEMBERS.
11. ALL SLABS CAST ON GROUND REQUIRE SAND BLINDING WITH A CONCRETE UNDERLAY

CONCRETE FINISHING

1. ALL EXPOSED CONCRETE PAVEMENTS ARE TO BE BROOMED FINISHED.
2. ALL EDGES OF THE CONCRETE PAVEMENT INCLUDING KEYED AND DOWELLED JOINTS ARE TO BE FINISHED WITH AN EDGING TOOL.
3. CONCRETE PAVEMENTS WITH GRADES GREATER THAN 10 % SHALL BE HEAVILY BROOMED FINISHED.
4. CARBORUNDUM TO BE ADDED TO ALL STAIR TREADS AND RAMPED CROSSINGS U.N.O.

FORMWORK

1. THE DESIGN, CERTIFICATION, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK, FALSEWORK AND BACKPROPPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROPOSED METHOD OF INSTALLATION AND REMOVAL OF FORMWORK IS TO BE SUBMITTED TO THE SUPERINTENDENT FOR COMMENT PRIOR TO WORK BEING CARRIED OUT.

EROSION AND SEDIMENT CONTROL

1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH:-

- LOCAL AUTHORITY REQUIREMENTS,
- EPA POLLUTION CONTROL MANUAL FOR URBAN STORMWATER,
- LANDCOM NSW - MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION ("BLUE BOOK").

1. EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES ARE PROVIDED FOR THE WHOLE OF THE WORKS. SHOULD THE CONTRACTOR STAGE THESE WORKS THEN THE DESIGN MAY BE REQUIRED TO BE MODIFIED. VARIATION TO THESE DETAILS MAY REQUIRE APPROVAL BY THE RELEVANT AUTHORITIES. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IMPLEMENTED AND ADAPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE PROGRESSES.
2. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
3. WHEN STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING THE PITS UNLESS SILT FENCES ARE ERECTED AROUND PITS.
4. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
5. PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.
6. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORKING DAY, AND MODIFIED TO BEST SUIT SITE CONDITIONS.
7. CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.
8. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE TEMPORARY CONSTRUCTION ENTRY/EXIT.
9. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING.
10. MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. INSPECT STORMWATER SYSTEM AND CLEAN OUT AFTER EACH STORM EVENT.
11. CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT.

SEQUENCE OF WORKS

1. PRIOR TO COMMENCEMENT OF EXCAVATION THE FOLLOWING SOIL MANAGEMENT DEVICES MUST BE INSTALLED.

1.1. CONSTRUCT SILT FENCES BELOW THE SITE AND ACROSS ALL POTENTIAL RUNOFF SITES.
1.2. CONSTRUCT TEMPORARY CONSTRUCTION ENTRY/EXIT AND DIVERT RUNOFF TO SUITABLE CONTROL SYSTEMS.
1.3. CONSTRUCT MEASURES TO DIVERT UPSTREAM FLOWS INTO EXISTING STORMWATER SYSTEM.
1.4. CONSTRUCT SEDIMENTATION TRAPS/BASIN INCLUDING OUTLET CONTROL AND OVERFLOW.
1.5. CONSTRUCT TURF LINED SWALES.
1.6. PROVIDE SANDBAG SEDIMENT TRAPS UPSTREAM OF EXISTING PITS.

2. CONSTRUCT GEOTEXTILE FILTER PIT SURROUND AROUND ALL PROPOSED PITS AS THEY ARE CONSTRUCTED.
3. ON COMPLETION OF PAVEMENT PROVIDE SAND BAG KERB INLET SEDIMENT TRAPS AROUND PITS.
4. PROVIDE AND MAINTAIN A STRIP OF TURF ON BOTH SIDES OF ALL ROADS AFTER THE CONSTRUCTION OF KERBS.

WATER QUALITY TESTING REQUIREMENTS

1. PRIOR TO DISCHARGE OF SITE STORMWATER, GROUNDWATER AND SEEPAGE WATER INTO COUNCIL'S STORMWATER SYSTEM, CONTRACTORS MUST UNDERTAKE WATER QUALITY TESTS IN CONJUNCTION WITH A SUITABLY QUALIFIED ENVIRONMENT CONSULTANT OUTLINING THE FOLLOWING: -

- COMPLIANCE WITH THE CRITERIA OF THE AUSTRALIAN AND NEW ZEALAND GUIDELINES FOR FRESH AND MARINE WATER QUALITY (2000)
- IF REQUIRED SUBJECT TO THE ENVIRONMENTAL CONSULTANTS ADVICE, PROVIDE REMEDIAL MEASURES TO IMPROVE THE QUALITY OF WATER THAT IS TO BE DISCHARGED INTO COUNCILS STORM WATER DRAINAGE SYSTEM.THIS SHOULD INCLUDE COMMENTS FROM A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT CONFIRMING THE SUITABILITY OF THESE REMEDIAL MEASURES TO MANAGE THE WATER DISCHARGED FROM THE SITE INTO COUNCILS STORM WATER DRAINAGE SYSTEM. OUTLINING THE PROPOSED, ONGOING MONITORING, CONTINGENCY PLANS AND VALIDATION PROGRAM THAT WILL BE IN PLACE TO CONTINUALLY MONITOR THE WATER QUALITY TESTING THAT WILL BE UNDERTAKEN BY A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT.

SAFETY AND DESIGN

1. TAYLOR THOMSON WHITTING (NSW) PTY LTD OPERATES UNDER SAFE WORK AUSTRALIA'S CODE OF CONDUCT FOR THE SAFE DESIGN OF STRUCTURES.
2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE TAYLOR THOMSON WHITTING TRANSFER OF INFORMATION LETTER AND CIVIL RISK AND SOLUTIONS REGISTER.
3. UNDER THE CODE OF CONDUCT IT IS THE CLIENT'S RESPONSIBILITY TO PROVIDE A COPY OF THE CIVIL RISK AND SOLUTIONS REGISTER TO THE PRINCIPAL CONTRACTOR.
4. IT IS THE PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO REVIEW THE HAZARDS AND RISKS IDENTIFIED DURING THE DESIGN PROCESS TO ENSURE A SAFE WORKPLACE IS MAINTAINED FOR THE CONSTRUCTION, MAINTENANCE AND EVENTUAL DEMOLITION OF THE CIVIL INFRASTRUCTURE.

SAFETY IN DESIGN

CONTRACTOR TO REFER TO APPENDIX B OF THE CIVIL SPECIFICATION FOR THE CIVIL RISK AND SOLUTIONS REGISTER.

1. EXISTING SERVICES
CONTRACTOR TO BE AWARE EXISTING SERVICES ARE LOCATED WITHIN THE SITE. LOCATION OF ALL SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORKS. CONTRACTOR TO CONFIRM WITH RELEVANT AUTHORITY REGARDING MEASURES TO BE TAKEN TO ENSURE SERVICES ARE PROTECTED OR PROCEDURES ARE IN PLACE TO DEMOLISH AND/OR RELOCATE.

2. EXISTING STRUCTURES
CONTRACTOR TO BE AWARE EXISTING STRUCTURES MAY EXIST WITHIN THE SITE. TO PREVENT DAMAGE TO EXISTING STRUCTURE(S) AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING STRUCTURE(S).

3. EXISTING TREES
CONTRACTOR TO BE AWARE EXISTING TREES EXIST WITHIN THE SITE WHICH NEED TO BE PROTECTED. TO PREVENT DAMAGE TO TREES AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING TREES. ADVICE NEEDS TO BE SOUGHT FROM ARBORIST AND/OR LANDSCAPE ARCHITECT ON MEASURES REQUIRED TO PROTECT TREES.

4. GROUNDWATER
CONTRACTOR TO BE AWARE GROUND WATER LEVELS ARE CLOSE TO EXISTING SURFACE LEVEL. TEMPORARY DE-WATERING MAY BE REQUIRED DURING CONSTRUCTION WORKS.

5. EXCAVATIONS
DEEP EXCAVATIONS DUE TO STORMWATER DRAINAGE WORKS IS REQUIRED. CONTRACTOR TO ENSURE SAFE WORKING PROCEDURES ARE IN PLACE FOR WORKS. ALL EXCAVATIONS TO BE FENCED OFF AND BATTERS ADEQUATELY SUPPORTED TO APPROVAL OF GEOTECHNICAL ENGINEER.

6. GROUND CONDITIONS
CONTRACTOR TO BE AWARE OF THE SITE GEOTECHNICAL CONDITIONS. REFER TO GEOTECHNICAL REPORT

7. HAZARDOUS MATERIALS
EXISTING ASBESTOS PRODUCTS & CONTAMINATED MATERIAL MAY BE PRESENT ON SITE. CONTRACTOR TO ENSURE ALL HAZARDOUS MATERIALS ARE IDENTIFIED PRIOR TO COMMENCING WORKS. SAFE WORKING PRACTICES AS PER RELEVANT AUTHORITY TO BE ADOPTED AND APPROPRIATE PPE TO BE USED WHEN HANDLING ALL HAZARDOUS MATERIALS. REFER TO GEOTECHNICAL/ENVIRONMENTAL REPORT

8. CONFINED SPACES
CONTRACTOR TO BE AWARE OF POTENTIAL HAZARDS DUE TO WORKING IN CONFINED SPACES SUCH AS STORMWATER PITS, TRENCHES AND/OR TANKS. CONTRACTOR TO PROVIDE SAFE WORKING METHODS AND USE APPROPRIATE PPE WHEN ENTERING CONFINED SPACES.

9. MANUAL HANDLING
CONTRACTOR TO BE AWARE MANUAL HANDLING MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ENSURE MANUAL HANDLING PROCEDURES AND ASSESSMENTS ARE IN PLACE PRIOR TO COMMENCING WORKS.

10. WATER POLLUTION
CONTRACTOR TO ENSURE APPROPRIATE MEASURES ARE TAKEN TO PREVENT POLLUTANTS FROM CONSTRUCTION WORKS CONTAMINATING THE SURROUNDING ENVIRONMENT.

11. SITE ACCESS/EGRESS
CONTRACTOR TO BE AWARE SITE WORKS OCCUR IN CLOSE PROXIMITY TO FOOTPATHS AND ROADWAYS. CONTRACTOR TO ERECT APPROPRIATE BARRIERS AND SIGNAGE TO PROTECT SITE PERSONNEL AND PUBLIC.

12. VEHICLE MOVEMENT
CONTRACTOR TO SUPPLY AND COMPLY WITH TRAFFIC MANAGEMENT PLAN AND PROVIDE ADEQUATE SITE TRAFFIC CONTROL INCLUDING A CERTIFIED TRAFFIC MARSHALL TO SUPERVISE VEHICLE MOVEMENTS WHERE NECESSARY.

STORMWATER DRAINAGE

1. STORMWATER DESIGN CRITERIA

(A) AVERAGE EXCEEDANCE PROBABILITY: -
- 1% AEP FOR ROOF DRAINAGE TO FIRST EXTERNAL PIT
- 5% AEP FOR PAVED AND LANDSCAPED AREAS

(B) RAINFALL INTENSITIES : -
- TIME OF CONCENTRATION: 5 MINUTES
- 1% AEP = 261 mm/hr
- 5% AEP = 198 mm/hr

(C) RAINFALL LOSSES: -
- IMPERVIOUS AREAS: IL = 1 mm CL = 0 mm/hr
- PERVIOUS AREAS: IL = 41 mm CL = 0.72 mm/hr

2. PIPES 300 DIA AND LARGER TO BE REINFORCED CONCRETE CLASS "-" APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS U.N.O.
3. PIPES UP TO 300 DIA MAY BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS, SUBJECT TO APPROVAL BY THE ENGINEER
4. EQUIVALENT STRENGTH VCP OR FRP PIPES MAY BE USED SUBJECT TO APPROVAL.
5. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY ENGINEER.
6. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE MANUFACTURED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
7. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED UPVC SEWER GRADE PIPE IS TO BE USED.
8. GRATES AND COVERS SHALL CONFORM WITH AS 3996-2006, AND AS 1428.1 FOR ACCESS REQUIREMENTS.
9. PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH AS 3725. ALL BEDDING TO BE TYPE H2 U.N.O.
10. CARE IS TO BE TAKEN WITH INVERT LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
11. ALL STORMWATER PIPES TO BE 150 DIA AT 1.0% MIN FALL U.N.O.
12. SUBSOIL DRAINS TO BE SLOTTED FLEXIBLE UPVC U.N.O.
13. ADOPT INVERT LEVELS FOR PIPE INSTALLATION (GRADES SHOWN ARE ONLY NOMINAL).

TENDER DOCUMENTATION

1. THESE DRAWINGS ARE PRELIMINARY DRAWINGS ISSUED FOR TENDER AS AN INDICATION OF THE EXTENT OF WORKS ONLY. THEY ARE NOT A COMPLETE CONSTRUCTION SET OF DRAWINGS.
2. TO DETERMINE THE FULL EXTENT OF WORK, THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS. ALLOW FOR ALL ITEMS SHOWN ON ARCHITECTURAL AND OTHER DRAWINGS AS NOT ALL ITEMS ARE SHOWN ON THE STRUCTURAL/CIVIL WORKS DRAWINGS.
3. SHOULD ANY AMBIGUITY, ERROR, OMISSIONS, DISCREPANCY, INCONSISTENCY OR OTHER FAULT EXIST OR SEEM TO EXIST IN THE DOCUMENTS, IMMEDIATELY NOTIFY IN WRITING TO THE SUPERINTENDENT.
4. RATES SHOWN ON THE DRAWINGS ARE FOR THE FINAL STRUCTURE/CIVIL WORKS IN PLACE AND DO NOT ALLOW FOR ANY WASTAGE, ROLLING MARGINS, OVER SUPPLY OR FABRICATION REQUIREMENTS. ETC.

SIGNS AND LINE MARKING

1. PAVEMENT MARKING AND SIGN POSTING ON PUBLIC ROADS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT ROAD AUTHORITY. THE CONTRACTOR SHALL OBTAIN THESE REQUIREMENTS FROM THE ROAD AUTHORITY.
2. PAVEMENT MARKING AND SIGN POSTING TO BE IN ACCORDANCE WITH R.T.A. 'INTERIM GUIDE TO SIGNS AND MARKINGS'.
3. CONTRACTOR IS TO PROVIDE GUIDE POSTS, SPACED IN ACCORDANCE WITH AS1742.2. THEY ARE TO BE LOCATED NEAR ALL HEAD WALLS AND PIPE OUTLETS.
4. RAISED PAVEMENT MARKERS TO BE IN ACCORDANCE WITH AS1742.2
5. WHERE EXISTING PAVEMENT MARKING CONFLICTS WITH PROPOSED, IT IS TO BE REMOVED.
6. LANE WIDTHS DO NOT INCLUDE WIDTH OF GUTTER.
7. LINE MARKING PLAN DOES NOT DEFINE BOUNDARIES.
8. ERECT TEMPORARY SIGN 'CHANGED TRAFFIC CONDITIONS AHEAD' 120M AHEAD OF NEW WORK IN BOTH DIRECTIONS.
9. ESTABLISH THE LOCATION OF EXISTING UTILITY SERVICES AND LOCATE NEW SIGNS CLEAR OF THESE INSTALLATIONS.
10. THE SLOPED FACE OF THE SF MEDIAN KERBS WHICH ADJOIN THROUGH LANES, ARE TO BE PAINTED WHITE IN LIEU OF AN E3 EDGE LINE. THE REFLECTIVE PAVEMENT MARKERS NORMALLY ASSOCIATED WITH AN E3 EDGE LINE ARE TO BE LOCATED ON THE PAVEMENT ADJACENT TO THE SF KERB.
11. BICYCLE PAVEMENT MARKINGS AND SIGN POSTING TO BE IN ACCORDANCE WITH AUSTROADS STANDARDS.
12. THE DESIGN OF MAJOR DIRECTIONAL SIGN POSTING TO BE PREPARED AND ASSESSED BY THE RELAVENT ROAD AUTHORITY

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
A	ISSUED FOR DA	JH	JH 16.12.2024

Client: RSL LifeCare

Engineer: TTW www.ttwengineers.com

Project: ANZAC VILLAGE MONTGOMERY CENTRE NARRABEEN, NSW

Drawing Title: GENERAL NOTES

Scale at A1	Drawn	Designed	Approved
N.T.S	DA	JH	AH

Project No | Originator | Zone | Type | Role | Sheet No. | Rev
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NEW DROP OFF PARKING BAY

NEW ACCESSABILITY PARKING BAY.

NEW TREE
REFER LANDSCAPE ARCHITECTS DOCUMENTATION

BUILDING OUTLINE.
REFER ARCHITECTS DOCUMENTATION

NEW REINFORCED CONCRETE RETAINING WALL (TYPICAL)

NEW ANGLED PARKING LINEMARKING.

ENDEAVOUR DRIVE

MEMORIAL TERRACE

1
DP 803645

REST AREA WITH DDA SEATING
REFER ARCHITECTS DOCUMENTATION

NEW GATE TO LOADING DOCK.
REFER ARCHITECTS DOCUMENTATION

DEMOLISH EXISTING GRATED DRAIN AND ADJACTENT PIT. REFER DRAWING No. 04101

NEW BRICK RETAINING WALL AND BALUSTRADE

WASTE ENCLOSURE WITH SCREENING.
REFER WASTE CONSULTANTS DOCUMENTATION

RETAIN EXISTING LANDING RAMP

ADJUST EXISTING SERVICES PIT COVER FLUSH WITH FINISHED SURFACE. FURTHER CONSULTATION WITH SERVICE CONSULTANT REQUIRED.

REST AREA WITH DDA SEATING
REFER ARCHITECTS DOCUMENTATION

NEW INLET PIT
REFER DRAWING No. 04101

RETAIN EXISTING RETAINING WALLS AS SHOWN.

DEMOLISH EXISTING KERB. CONSTRUCT NE AC PAVEMENT. REFER DRAWING No. 07101

CONNECT NEW STORMWATER PIPE TO EXISTING DOWNSTREAM PIT

EXISTING BRICK WALL CUT DOWN TO CREATE NEW PLANTER TIERS

NEW STORMWATER PIPE.
REFER DRAWING No. 04101

PROPOSED OVERLAND FLOW PATH.
REFER DRAWING No. 04101

NEW REINFORCED CONCRETE RETAINING WALL AND PEDESTRIAN HANDRAILS

EDMONDSON DRIVE

ENDEAVOUR DRIVE

NEW VEHICULAR CROSSING LAYBACK TO NORTHERN BEACHES COUNCIL DRAWING No.3

EXISTING STORMWATER PIT
REFER DRAWING No. 04101

NEW GRATED DRAIN AT BOTTOM OF RAMP.
REFER DRAWING No.04101

NEW KERB ALIGNMENT
REFER DRAWING No. 07101

NEW DDA COMPLIANT RAMP REFER DRAWING No. 01101 FOR LEVELS AND GRADES

ADJUST EXISTING STORMWATER PIT COVER FLUSH WITH FINISHED SURFACE.
REFER DRAWING No. 04101

ADJUST EXISTING STORMWATER PIT COVER FLUSH WITH FINISHED SURFACE.
REFER DRAWING No. 04101

NEW KERB ALIGNMENT
REFER DRAWING No. 07101

REMOVE EXISTING TREE.
REFER LANDSCAPE ARCHITECTS DOCUMENTATION (TYPICAL)

REMOVE EXISTING GENERATOR REFER SERVICES CONSULTANTS DRAWINGS

REST AREA WITH DDA SEATING
REFER ARCHITECTS DOCUMENTATION

NEW KERB ALIGNMENT
REFER DRAWING No. 07101

DEMOLISH EXISTING PARKING BAYS.
CONSTRUCT 3 x NEW PARKING BAYS

ADJUST EXISTING STORMWATER PIT COVER FLUSH WITH FINISHED SURFACE. REFER DRAWING No. 04101

NEW TREE.
REFER LANDSCAPE ARCHITECTS DOCUMENTATION

DEMOLISH EXISTING SPEED CUSHION. REINSTATE EXISTING WEARING COURSE, PEDESTRIAN CROSSING PAVEMENT MARKINGS AND SIGNAGE

RETAIN EXISTING KERB INLET
REFER DRAWING No. 04101

DEMOLISH EXISTING KERB AND ASSOCIATED PAVEMENT AS SHOWN. CONSTRUCT TO REINFORCED CONCRETE PARKING BAY. REFER DRAWING No.07101

0.0 4.0 8.0 12.0 16.0m
1:200 A1 1:400 A3

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NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	RE-ISSUED FOR DA	JH	19.12.2024
A	ISSUED FOR DA	JH	16.12.2024

Client: RSL LifeCare

Engineer: TTW www.ttwengineers.com

Project: ANZAC VILLAGE MONTGOMERY CENTRE NARRABEEN, NSW

Drawing Title: GENERAL ARRANGEMENT PLAN

Scale at A1	Drawn	Designed	Approved
1:200	DA	JH	AH

Project No	Originator	Zone	Type	Role	Sheet No.	Rev
241807	TTW	00	DR	CI	00404	B

19.12.2024 10:00 AM

ENDEAVOUR DRIVE

EDMONDSON DRIVE

ENDEAVOUR DRIVE

1
DP 803645

MEMORIAL TERRACE

NOT FOR CONSTRUCTION

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1:200 A1 1:400 A3

Rev	Description	Eng Draft	Date
A	ISSUED FOR DA	JH	DA 16.12.2024

Client: RSL LifeCare

Engineer: TTW www.ttwengineers.com

Project: ANZAC VILLAGE MONTGOMERY CENTRE NARRABEEN, NSW

Drawing Title: SITEWORKS ALIGNMENT CONTROL AND GRADING PLAN

Scale at A1	Drawn	Designed	Approved
1:200	DA	JH	AH

Project No	Originator	Zone	Type	Role	Sheet No.	Rev
241807	TTW	00	DR	CI	01101	A

16.12.2024 4:24 PM

EROSION AND SEDIMENT CONTROL NOTES

1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH:-
   - LOCAL AUTHORITY REQUIREMENTS,
   - EPA POLLUTION CONTROL MANUAL FOR URBAN STORMWATER,
   - LANDCOM NSW - MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION ("BLUE BOOK").
2. EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES ARE PROVIDED FOR THE WHOLE OF THE WORKS. SHOULD THE CONTRACTOR STAGE THESE WORKS THEN THE DESIGN MAY BE REQUIRED TO BE MODIFIED. VARIATION TO THESE DETAILS MAY REQUIRE APPROVAL BY THE RELEVANT AUTHORITIES. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IMPLEMENTED AND ADAPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE PROGRESSES.
3. THE EROSION & SEDIMENT CONTROL PLAN IS PREPARED FOR INFORMATION & PLANNING APPROVALS ONLY. THE CONTRACTOR SHALL PREPARE THE CONSTRUCTION EROSION & SEDIMENT CONTROL PLAN BASED ON THEIR WORKS STAGING & PROPOSED SITE FACILITIES.
4. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
5. WHEN STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING THE PITS UNLESS SILT FENCES ARE ERECTED AROUND PITS.
6. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
7. PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.
8. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORKING DAY, AND MODIFIED TO BEST SUIT SITE CONDITIONS.
9. CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.
10. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE TEMPORARY CONSTRUCTION ENTRY/EXIT.
11. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING.
12. MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. INSPECT STORMWATER SYSTEM AND CLEAN OUT AFTER EACH STORM EVENT.
13. CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT.

SEQUENCE OF WORKS

1. PRIOR TO COMMENCEMENT OF EXCAVATION THE FOLLOWING SOIL MANAGEMENT DEVICES MUST BE INSTALLED.

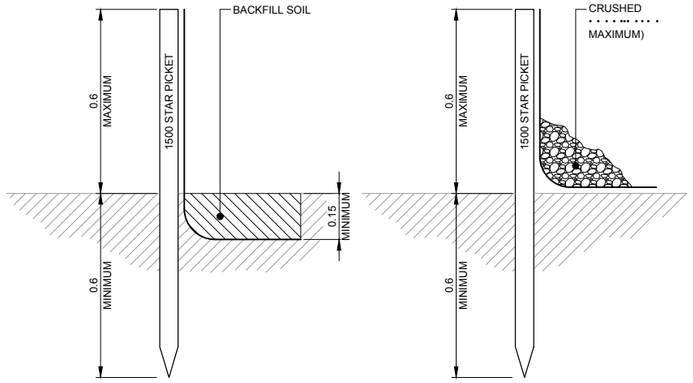
1.1. CONSTRUCT SILT FENCES BELOW THE SITE AND ACROSS ALL POTENTIAL RUNOFF SITES.
1.2. CONSTRUCT TEMPORARY CONSTRUCTION ENTRY/EXIT AND DIVERT RUNOFF TO SUITABLE CONTROL SYSTEMS.
1.3. CONSTRUCT MEASURES TO DIVERT UPSTREAM FLOWS INTO EXISTING STORMWATER SYSTEM.
1.4. CONSTRUCT SEDIMENTATION TRAPS/BASIN INCLUDING OUTLET CONTROL AND OVERFLOW.
1.5. CONSTRUCT TURF LINED SWALES.
1.6. PROVIDE SANDBAG SEDIMENT TRAPS UPSTREAM OF EXISTING PITS.

2. CONSTRUCT GEOTEXTILE FILTER PIT SURROUND AROUND ALL PROPOSED PITS AS THEY ARE CONSTRUCTED.
3. ON COMPLETION OF PAVEMENT PROVIDE SAND BAG KERB INLET SEDIMENT TRAPS AROUND PITS.
4. PROVIDE AND MAINTAIN A STRIP OF TURF ON BOTH SIDES OF ALL ROADS AFTER THE CONSTRUCTION OF KERBS.

WATER QUALITY TESTING REQUIREMENTS

1. PRIOR TO DISCHARGE OF SITE STORMWATER, GROUNDWATER AND SEEPAGE WATER INTO COUNCIL'S STORMWATER SYSTEM, CONTRACTORS MUST UNDERTAKE WATER QUALITY TESTS IN CONJUNCTION WITH A SUITABLY QUALIFIED ENVIRONMENT CONSULTANT OUTLINING THE FOLLOWING: -

- COMPLIANCE WITH THE CRITERIA OF THE AUSTRALIAN AND NEW ZEALAND GUIDELINES FOR FRESH AND MARINE WATER QUALITY (2000)
- IF REQUIRED SUBJECT TO THE ENVIRONMENTAL CONSULTANTS ADVICE, PROVIDE REMEDIAL MEASURES TO IMPROVE THE QUALITY OF WATER THAT IS TO BE DISCHARGED INTO COUNCILS STORM WATER DRAINAGE SYSTEM.THIS SHOULD INCLUDE COMMENTS FROM A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT CONFIRMING THE SUITABILITY OF THESE REMEDIAL MEASURES TO MANAGE THE WATER DISCHARGED FROM THE SITE INTO COUNCILS STORM WATER DRAINAGE SYSTEM. OUTLINING THE PROPOSED, ONGOING MONITORING, CONTINGENCY PLANS AND VALIDATION PROGRAM THAT WILL BE IN PLACE TO CONTINUALLY MONITOR THE WATER QUALITY TESTING THAT WILL BE UNDERTAKEN BY A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT.

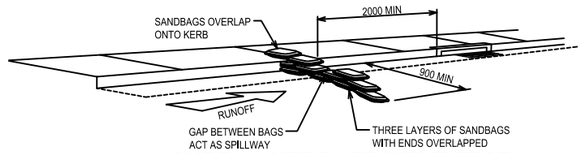


SILT FENCE TYPE 1
SCALE 1:10

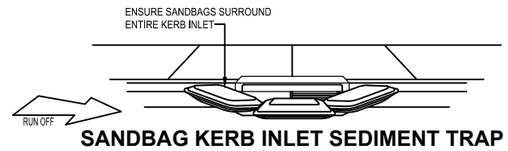
SILT FENCE TYPE 2
SCALE 1:10

GEOTEXTILE SEDIMENT FENCE DESIGN CRITERIA

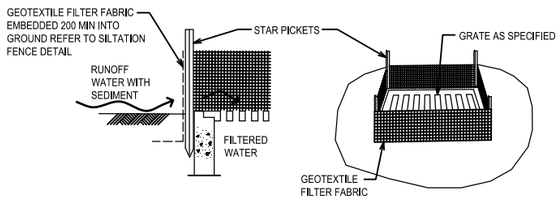
1. IDENTIFY LOW POINT OF SITE.
2. CONSTRUCT A SEDIMENT FENCE PARALLEL TO THE SITE CONTOURS OR AS CLOSE AS POSSIBLE.
3. 1.5 METER STAR PICKETS TO BE PLACED AT MAXIMUM 3m CENTRES AND 600mm MINIMUM DEPTH INTO GROUND.
4. EVERY 20m (FOR FENCES LONGER THAN 20m) POSITION A STAR PICKET 1.5m UP-SLOPE OF THE OTHERS, TO SPREAD VOLUME OF WATER FLOWING THROUGH FENCE.
5. BASE OF SEDIMENT CONTROL FABRIC TO BE BURIED A MINIMUM OF 150mm INTO THE GROUND. ALTERNATIVELY, BACKFILL OR AGGREGATE SHOULD BE PLACED ON TOE OF FABRIC, ENSURING FABRIC IS TIGHT TO GROUND.
6. WIRE TIES ARE TO BE USED TO ATTACH SEDIMENT CONTROL FABRIC TO THE UPHILL SIDE OF STAR PICKETS.
7. JOINS IN SEDIMENT CONTROL FABRIC TO OVERLAP A MINIMUM 150mm AND TO BE SUPPORTED BY A STAR PICKET.



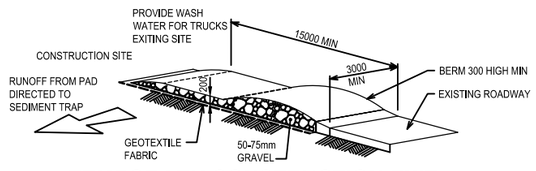
SANDBAG KERB SEDIMENT TRAP
NTS



SANDBAG KERB INLET SEDIMENT TRAP
NTS



GEOTEXTILE FILTER PIT SURROUND
NTS



TEMPORARY CONSTRUCTION EXIT
NTS

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NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
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Client: RSL LifeCare

Engineer: TTW www.ttwengineers.com

Project: ANZAC VILLAGE MONTGOMERY CENTRE NARRABEEN, NSW

Drawing Title: EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

Scale at A1	Drawn	Designed	Approved
N.T.S	DA	JH	AH

Project No	Originator	Zone	Type	Role	Sheet No.	Rev
241807	TTW	00	DR	CI	02001	A

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SOIL EROSION AND SEDIMENT CONTROL LEGEND

- SEDIMENT FENCE
- WRAP INLET GRATE AND PIT OPENING IN FILTER FABRIC
- SAND BAG SEDIMENT TRAP
- STABILISED CONSTRUCTION EXIT

ENDEAVOUR DRIVE

EDMONDSON DRIVE

ENDEAVOUR DRIVE

1 DP 803645

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WRAP ALL GRATES AND PIT OPENINGS IN BIDUM A14 OR APPROVED EQUIVALENT GEOTEXTILE FABRIC UNTIL COMPLETION OF WORKS. TYPICAL.

INSTALL TEMPORARY SEDIMENT FENCE. TYPICAL. REFER DETAIL.

INSTALL TEMPORARY SAND FILLED HESSIAN BAG SEDIMENT TRAPS UNTIL AFTER COMPLETION OF WORKS. TYPICAL.

0.0 4.0 8.0 12.0 16.0m
1:200 A1 1:400 A3

NOT FOR CONSTRUCTION

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Rev	Description	Eng Draft	Date
A	ISSUED FOR DA	JH	JH 16.12.2024

Client: RSL LifeCare

Engineer: TTW www.ttwengineers.com

Project: ANZAC VILLAGE MONTGOMERY CENTRE NARRABEEN, NSW

Drawing Title: EROSION AND SEDIMENT CONTROL PLAN

Scale at A1	Drawn	Designed	Approved
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Project No	Originator	Zone	Type	Role	Sheet No.	Rev
241807	TTW	00	DR	CI	02101	A

16.12.2024 4:25 PM

STORMWATER LEGEND

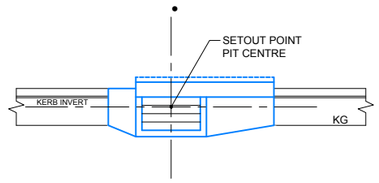
DP	DOWN PIPE
RO	RAINWATER OUTLET
GPT	GROSS POLLUTANT TRAP
	OVERLAND FLOW ARROW
	CONCRETE INCASED PIPE
SW Φ150 — SW Φ150	PROPOSED STORMWATER PIPE
	PROPOSED STORMWATER PITS
	PROPOSED STORMWATER GRATED DRAIN

STORMWATER ANNOTATIONS

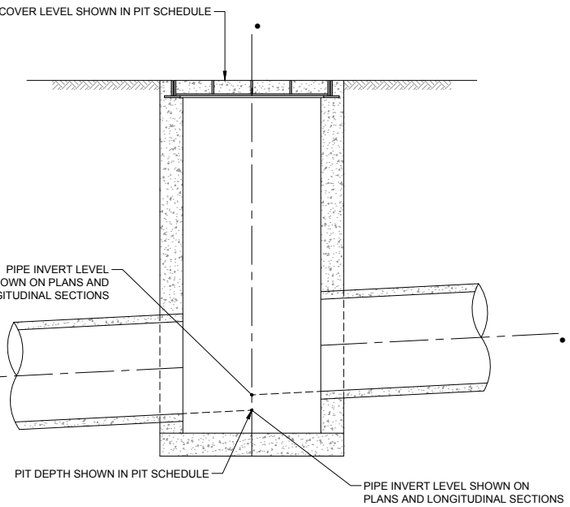
USIL 1.61	UPSTREAM INVERT LEVEL
• • • •	PIPE INTERNAL DIAMETER
uPVC '4'	PIPE MATERIAL AND CLASS
27.8m	PIPE LENGTH
1.0%	PIPE GRADE
DSIL	DOWNSTREAM INVERT LEVEL
IL	PIPE INVERT LEVEL
CL	PIT COVER LEVEL

NOTE

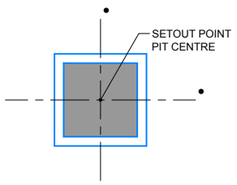
STORMWATER DRAINAGE NOTES AND LEGEND IS TO READ IN CONJUNCTION WITH GENERAL NOTES AND LEGEND. REFER DRAWING No. 00003



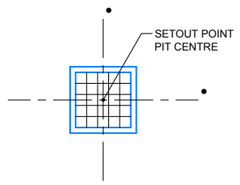
KERB INLET SUMP (KIS) ON GRADE
SCALE 1:50



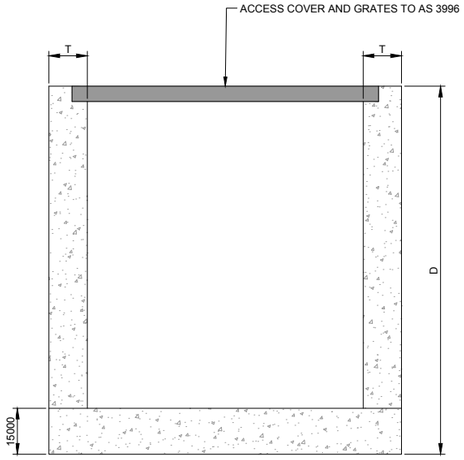
DESIGN INVERT LEVELS AT STORMWATER STRUCTURES
SCALE 1:20



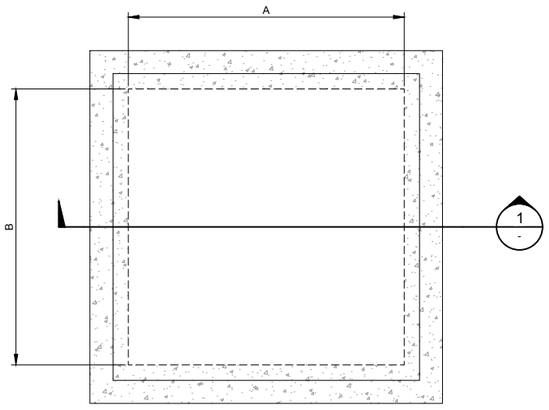
JUNCTION PIT
SCALE 1:50



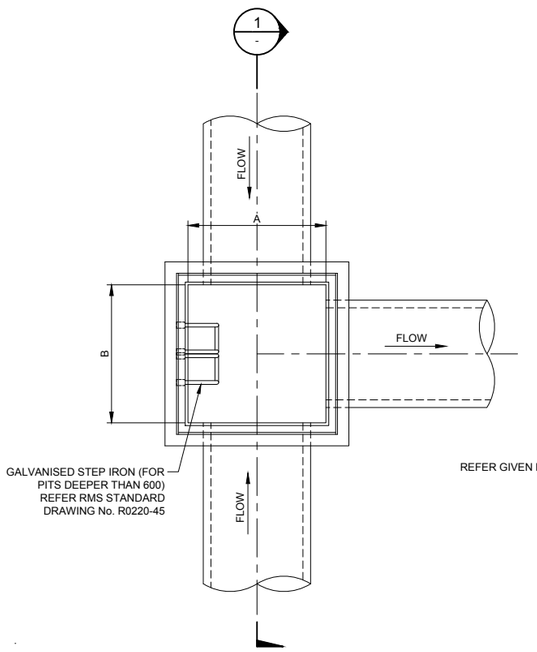
GRATED INLET SUMP
SCALE 1:50



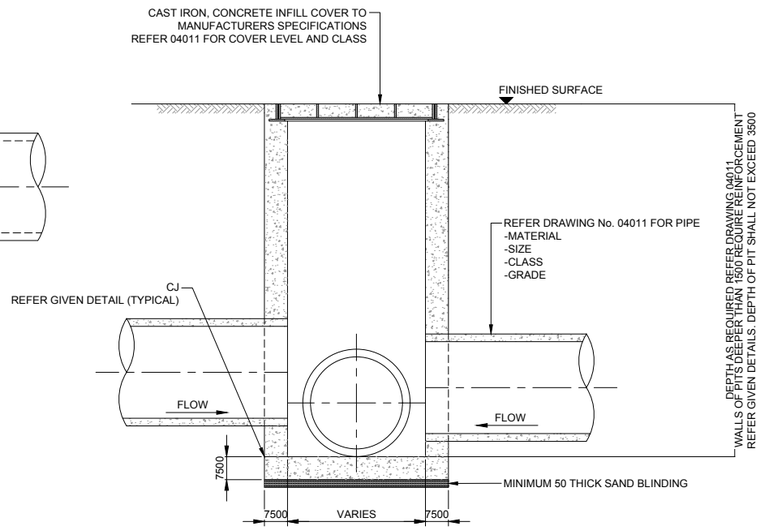
SECTION 1
SCALE 1:10



NON REINFORCED CONCRETE STORMWATER PITS
SCALE 1:10



JUNCTION PIT (JP)
SCALE 1:20



SECTION 1
SCALE 1:20

SIZE REQUIREMENTS

GOVERNED BY MAXIMUM PIPE DIAMETER

A (M), B (M)	• • • •• • • •• •• • ••
350	100
450	150
600	300
900	600
1200	900

SIZE REQUIREMENTS

GOVERNED BY MAXIMUM DEPTH

A	B	D
350	350	450
450	450	600
600	600	900
900	600	1200
900	900	5400
1200	1200	5400

SIZE REQUIREMENTS

MINIMUM WALL THICKNESS

A (M), B (M)	T
350	125
450	125
600	125
900	REFER MINIMUM WALL THICKNESS (A,B=900) TABLE
1200	REFER MINIMUM WALL THICKNESS (A,B=1200) TABLE

SIZE REQUIREMENTS

MINIMUM WALL THICKNESS (A,B =900)

D	T
1600	125
2300	150
3200	175
4300	200
5400	225

SIZE REQUIREMENTS

MINIMUM WALL THICKNESS (A,B =1200)

D	T
1800	175
2400	200
3000	225
3600	250
4300	275
5400	300

SIZE REQUIREMENTS

GOVERNED BY MAXIMUM PIPE DIAMETER

• •• • ••	A, B
300	600
600	900
900	1200
1200	1600

NOTES
1. CONCRETE STRENGTH 25MPa.
2. SIDE WALLS OF PITS DEEPER THAN 1500 ARE TO BE REINFORCED IN ACCORDANCE WITH GIVEN DETAIL.
3. STEP IRONS ARE REQUIRED WHERE PITS ARE DEEPER THAN 1200.
4. REFER DRAWING No. 00003 FOR CONCRETE NOTES

0 200 400 600 800mm
1:10 A1 1:20 A3

0 400 800 1200 1600mm
1:20 A1 1:40 A3

0.0 1000 2000 3000 4000mm
1:50 A1 1:100 A3

NOTE
THIS DETAIL IS TO BE READ IN CONJUNCTION WITH AS 3500.3, PLUMBING AND DRAINAGE, PART 3 STORMWATER DRAINAGE

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Client: RSL LifeCare

Engineer: TTW www.ttwengineers.com

Project: ANZAC VILLAGE MONTGOMERY CENTRE NARRABEEN, NSW

Drawing Title: STORMWATER NOTES AND LEGEND SHEET 1

Scale at A1	Drawn	Designed	Approved
AS SHOWN	DA	JH	AH

Project No	Originator	Zone	Type	Role	Sheet No.	Rev
241807	TTW	00	DR	CI	04001	A

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ENDEAVOUR DRIVE

EDMONDSON DRIVE

ENDEAVOUR DRIVE

1 DP 803645

EXISTING STORMWATER SURCHARGE PIT AT PODIUM LEVEL TO BE DEMOLISHED. INCOMING STORMWATER PIPES TO BE DIVERTED TO NEW STORMWATER DRAINAGE. FURTHER DETAILED SURVEY TO CONFIRM EXACT LOCATION AND SIZES OF INCOMING AND OUTGOING PIPES.

CONSTRUCT RHS 450x300 UNDER RAMP STRUCTURE TO ALLOW FOR OVERLAND FLOW PATH CONTINUATION. LEVELS TO BE CONFIRMED

CONSTRUCT NEW 900 x 600 INLET PIT WITH CLASS B COVER

PROPOSED OVERLAND FLOW PATH

USIL 46.40
uPVC
8.65m
3.5%
DSIL 46.10

DEMOLISH EXISTING GRATED DRAIN AND ADJACENT PIT. CONSTRUCT NEW CLASS D GRATED DRAIN AND 900x900 GRATED INLET PIT WITH HEELSAFE COVER

CONSTRUCT NEW 600 x 300 INLET PIT WITH CLASS D COVER

CONSTRUCT NEW GRATED DRAIN 100mm WIDE GRATE. CONNECT TO INLET PIT VIA

CONNECT NEW STORMWATER PIPE TO EXISTING DOWNSTREAM PIT. INGROUND SURVEY REQUIRED TO CONFIRM CONNECTION LEVELS.

USIL 44.96
uPVC
12.53m
8.0%
DSIL 43.96

DEMOLISH EXISTING 900x900 GRATED INLET PIT AND DIVERT EXISTING INLET PIPES TO NEW 900x600

USIL 46.00
uPVC
14.56m
6.9%
DSIL 45.00

CONSTRUCT NEW GRATED DRAIN 100mm WIDE GRATE. CONNECT TO INLET PIT VIA

DEMOLISH EXISTING STORMWATER PIT

RETAIN EXISTING KERB INLET

ADJUST EXISTING STORMWATER PIT COVER FLUSH WITH FINISHED SURFACE

ADJUST EXISTING STORMWATER PIT COVER FLUSH WITH FINISHED SURFACE

RETAIN EXISTING KERB INLET

ADJUST EXISTING STORMWATER PIT COVER FLUSH WITH FINISHED SURFACE

0.0 4.0 8.0 12.0 16.0m
1:200 A1 1:400 A3

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Rev	Description	Eng Draft	Date
A	ISSUED FOR DA	JH	DA 16.12.2024

Client: RSL LifeCare

Engineer: TTW www.ttwengineers.com

Project: ANZAC VILLAGE MONTGOMERY CENTRE NARRABEEN, NSW

Drawing Title: STORMWATER AND SUBSOIL DRAINAGE PLAN

Scale at A1	Drawn	Designed	Approved
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Project No	Originator	Zone	Type	Role	Sheet No.	Rev
241807	TTW	00	DR	CI	04101	A

16.12.2024 4:25 PM

LEGEND

- NEW AC VEHICULAR PAVEMENT
- NEW CONCRETE VEHICULAR PAVEMENT
- NEW CONCRETE VEHICULAR DRIVEWAY PAVEMENT
- NEW CONCRETE PEDESTRIAN PAVEMENT
  REFER LANDSCAPE ARCHITECTS DOCUMENTATION
- NEW SOFT LANDSCAPE
  REFER LANDSCAPE ARCHITECTS DOCUMENTATION
- ELEVATED WALKWAY
  REFER STRUCTURAL ENGINEER'S DOCUMENTATION

CONSTRUCT 2 x REINFORCED CONCRETE PARKING BAYS AS SHOWN

1
DP 803645

ENDEAVOUR DRIVE

TRANSITION NEW KERB AND GUTTER TO EXISTING KERB PROFILE. MAKE GOOD.

KEY NEW AC PAVEMENT INTO EXISTING. MATCH EXISTING LEVELS AND CROSSFALLS SMOOTHLY

SAWCUT BREAKOUT AND REMOVE EXISTING CONCRETE PAVEMENT.

SAWCUT BREAKOUT AND REMOVE EXISTING KERB AND ASSOCIATED PAVEMENT.

TRANSITION NEW KERB AND GUTTER AT EXISTING KERB INLET STRUCTURE MAKE GOOD

SAWCUT BREAKOUT AND REMOVE EXISTING KERB AND ASSOCIATED PARKING BAY PAVEMENT.

RETAIN EXISITING PARKING BAY PAVEMENT. CONSTRUCT NEW KERB ONLY TO DEFINE 2x REMAINING PARKING BAYS.

EDMONDSON DRIVE

ENDEAVOUR DRIVE

SAWCUT BREAKOUT AND REMOVE EXISTING KERB AS SHOWN. CONSTRUCT NEW KERB AND GUTTER TO DESIGN LEVELS

KEY NEW AC PAVEMENT INTO EXISTING. MATCH EXISTING LEVELS AND CROSSFALLS SMOOTHLY

TRANSITION NEW KERB AND GUTTER TO EXISTING KERB PROFILE. MAKE GOOD.

RETAIN EXISTING FOOTPATH ADJACENT TO CARPARK

RETAIN EXISTING PARKING BAY PAVEMENT

KEY NEW AC PAVEMENT INTO EXISTING. MATCH EXISTING LEVELS AND CROSSFALLS SMOOTHLY

1
DP 803645

SAWCUT BREAKOUT AND REMOVE EXISTING KERB AS SHOWN. CONSTRUCT NEW KERB AND GUTTER TO DESIGN LEVELS

SAWCUT BREAKOUT AND REMOVE EXISTING PARKING BAY KERBS AND ASSOCIATED PAVEMENT. CONSTRUCT 3x REINFORCED CONCRETE PARKING BAYS AS SHOWN

TRANSITION NEW KERB AND GUTTER AT EXISTING KERB INLET STRUCTURE. MAKE GOOD

NEW REINFORCED CONCRETE PARKING BAY

SAWCUT BREAKOUT AND REMOVE EXISTING KERB AND PATH AS SHOWN. CONSTRUCT NEW KERB AND DISH DRAIN TO DEFINE 4 x PARKING BAYS.

0.0 4.0 8.0 12.0 16.0m
1:200 A1 1:400 A3

NOT FOR CONSTRUCTION

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Rev	Description	Eng Draft	Date
B	RE-ISSUED FOR DA	JH	JH 19.12.2024
A	ISSUED FOR DA	JH	DA 16.12.2024

Client: RSL LifeCare

Engineer: TTW www.ttwengineers.com

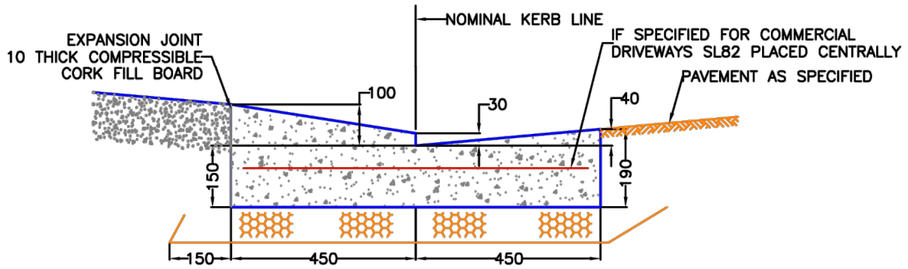
Project: ANZAC VILLAGE
MONTGOMERY CENTRE
NARRABEEN, NSW

Drawing Title: PAVEMENT PLAN

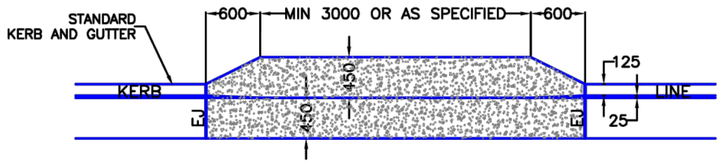
Scale at A1	Drawn	Designed	Approved
1:200	DA	JH	AH

Project No	Originator	Zone	Type	Role	Sheet No.	Rev
241807-TTW-00-DR-CI-07101-B						

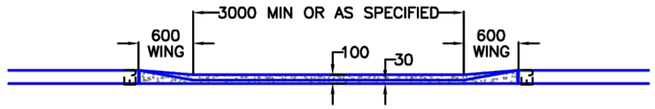
19.12.2024 10:00 AM



STANDARD CONCRETE LAYBACK DETAIL
NOT TO SCALE



CONCRETE LAYBACK – PLAN
NOT TO SCALE



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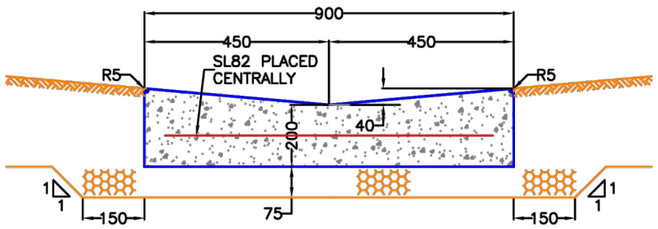
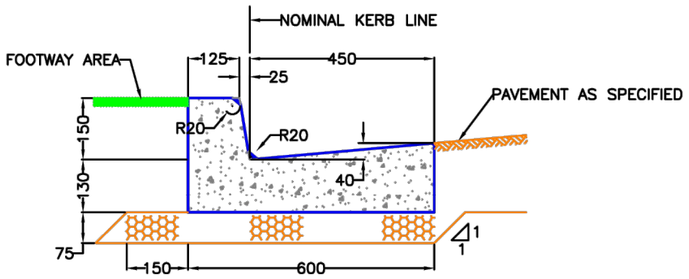
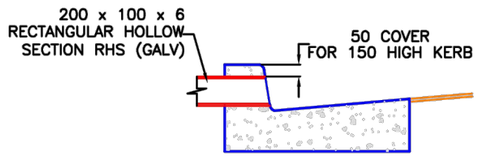


CONCRETE DISH DRAIN DETAIL
NOT TO SCALE



CONCRETE KERB & GUTTER DETAIL
NOT TO SCALE



PRIVATE PIPE CONNECTION TO KERB DETAIL
SCALE – NOT TO SCALE

STANDARD KERB AND GUTTER NOTES

1. KERB AND GUTTER, CONCRETE EDGING, DISH DRAINS AND THE LIKE SHALL BE POURED IN PLAIN CONCRETE AND FINISHED WITH A STEEL TROWEL.
2. THE MINIMUM COMPRESSIVE STRENGTH SHALL BE 25MPa AT 28 DAYS.
3. FOR ELEMENTS CONTRUCTED USING SLIPFORM, REINFORCEMENT WILL NOT BE REQUIRED PROVIDED THAT THE CONCRETE COMPRESSIVE STRENGTH IS NOT LESS THAN 32MPa AT 28 DAYS.
4. WHERE COUNCIL OR ITS REPRESENTATIVE DIRECTS THAT THE GUTTER IS TO BE RETAINED, THE CONTRACTOR SHALL PLACE A 75mm DEEP SAW CUT IN THE GUTTER INVERT AND REMOVE THE KERB AND OR LAYBACK.
5. WHERE EXISTING KERB AND ASSOCIATED ELEMENT IS TO BE REPLACED SAW CUT IN THE ASPHALT MINIMUM 500mm FROM LIP OF GUTTER, COMPACT SUBGRADE AND INSTALL ASPHALT STRIP TO MAKE SMOOTH TRANSITION.
6. THE CONSTRUCTION OF ALL VEHICLE CROSSINGS AND ASSOCIATED WORKS WITHIN THE ROAD RESERVE MUST BE UNDERTAKEN BY A COUNCIL APPROVED CONTRACTOR.

No	DATE	AMENDMENTS	INITIALS
1	16/06/22	INITIATE DRAWINGS	JM

LEVEL DATUM: AHD
CO-ORD SYSTEM: N.A.
SURVEYED: N.A.
WORK-AS-EXECUTED
BY: N.A.
DATE: **/**/****

PLOT DATE: 07/07/2022
PRELIMINARY
DRAWN BY: THOMAS LAU
DATED: 20/04/18
INITIATED BY: STEVE WATSON
(ASSET MANAGER)

DESIGN APPROVED
DESIGNED BY: THOMAS LAU
DATED: 20/04/18
APPROVED BY: E. HAVENSTEIN
DESIGN MANAGER

APPROVED FOR CONSTRUCTION
PROJ. MGR: N.A.
DATE: (**/**/****)
APPROVED BY: THOMAS LAU
PRINCIPAL ENGINEER

A	0 0.10 0.20 0.30 0.40 0.50	METRES	1:20 @ A3
B	0 0.2 0.4 0.6 0.8 1	METRES	1:40 @ A3
C	0 0.5 1.0 1.5 2.0 2.5	METRES	1:100 @ A3

northern beaches council

STANDARD DRAWINGS
CONCRETE KERB DETAILS AND NOTES
CONCRETE DISH DRAIN AND LAYBACK DETAILS & NOTES

DRAWING NO. 3 REVISION: 1

0.0 20.0 40.0 60.0 80.0m
1:1000 A1 1:2000 A3

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
A	ISSUED FOR DA	JH	JH 16.12.2024

Client: RSL LifeCare
Engineer: TTW www.ttwengineers.com
Project: ANZAC VILLAGE MONTGOMERY CENTRE NARRABEEN, NSW
Drawing Title: PAVEMENT DETAILS SHEET 1

Scale at A1	Drawn	Designed	Approved
N.T.S	DA	JH	AH

Project No	Originator	Zone	Type	Role	Sheet No.	Rev
241807	TTW	00	DR	CI	07501	A

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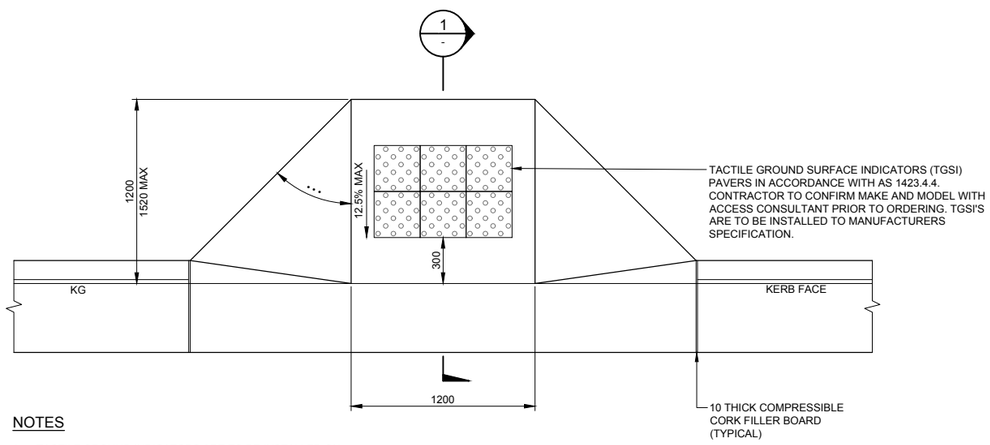
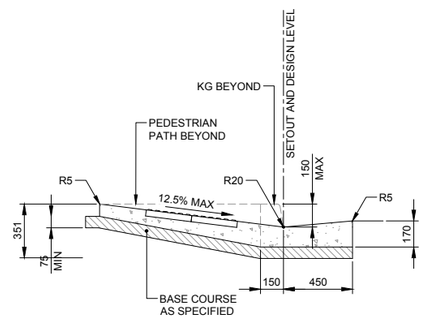


PLAN



SECTION 1 -

NOTES

1. TACTILE GROUND INDICATORS ARE TO BE INSTALLED ON ACCESSIBLE PEDESTRIAN ROUTES ONLY.
2. TGSI'S ARE TO BE IN ACCORDANCE WITH AS/NZS 1428.4.4 2009.
3. TGSI'S SHALL NOT BE INSTALLED WITHIN KERB RAMPS UNLESS APPROVED BY THE AUTHORITIES.

RAMPED PEDESTRIAN CROSSING (PC) - ON STRAIGHT

SCALE 1:20

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0 400 800 1200 1600mm
1:20 A1 1:40 A3

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
A	ISSUED FOR DA	JH	JH 16.12.2024

Client: RSL LifeCare

Engineer: TTW www.ttwengineers.com

Project: ANZAC VILLAGE MONTGOMERY CENTRE NARRABEEN, NSW

Drawing Title: PAVEMENT DETAILS SHEET 2

Scale at A1	Drawn	Designed	Approved
AS SHOWN	DA	JH	AH

Project No	Originator	Zone	Type	Role	Sheet No.	Rev
241807	TTW	00	DR	CI	07502	A

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