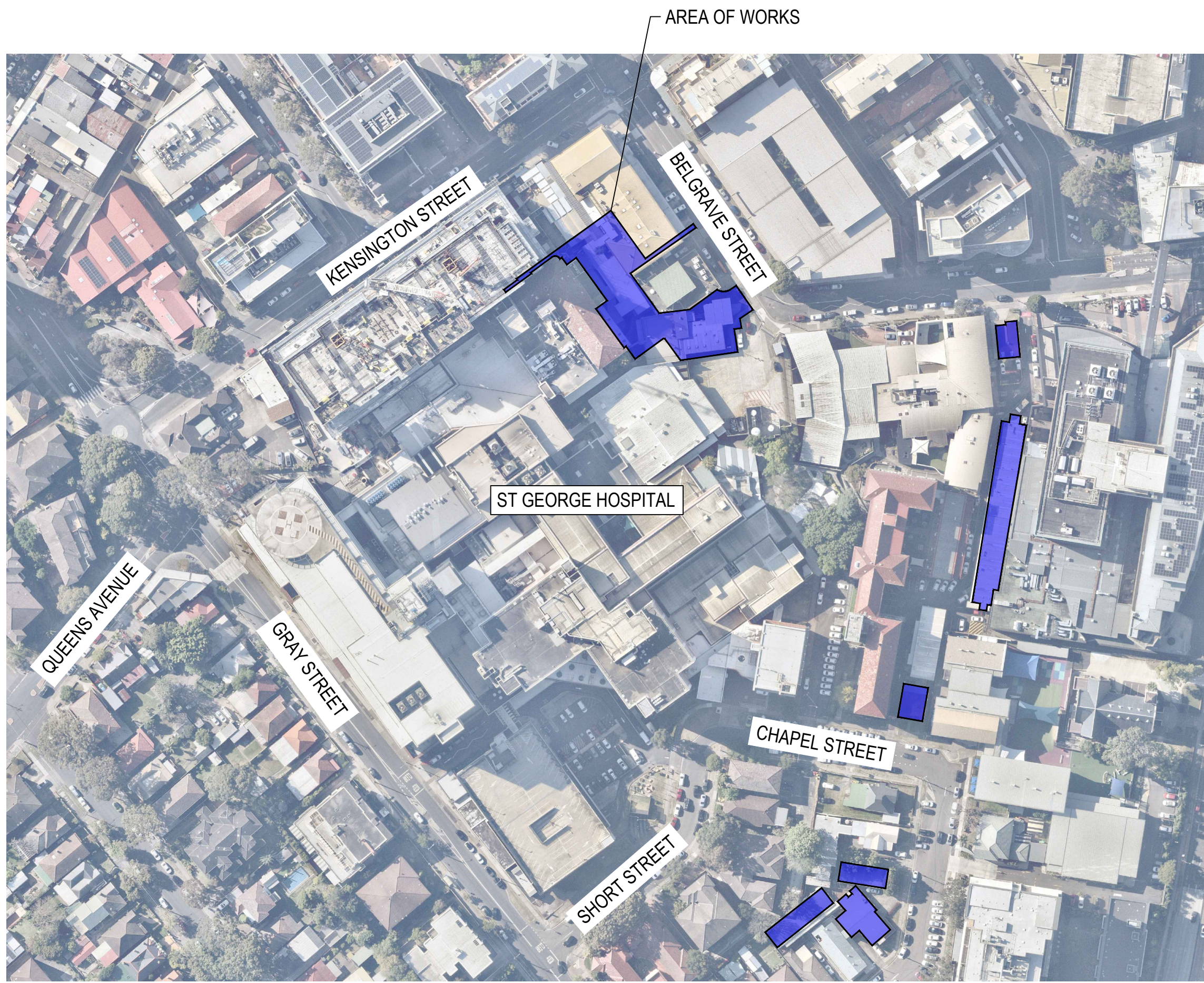
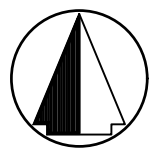


ST. GEORGE HOSPITAL - REFURBISHMENT

KOGARAH, NSW 2217



LOCALITY PLAN
N.T.S

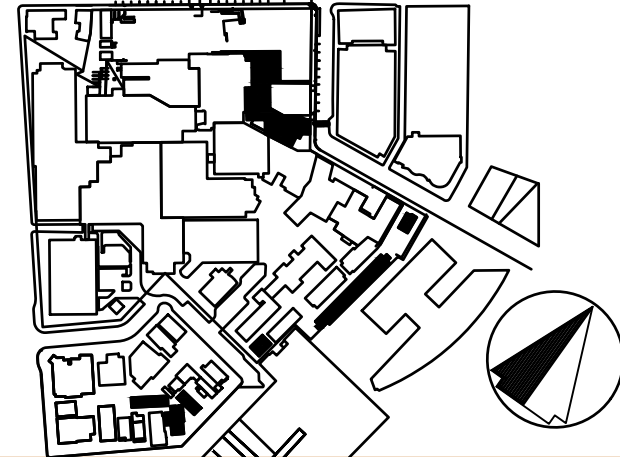


DRAWING REGISTER	
DRAWING NO.	DESCRIPTION
SGHS3-CI-DG-10GF010	COVER SHEET, DRAWING INDEX AND LOCALITY PLAN
SGHS3-CI-DG-10GF020	STANDARD NOTES
SGHS3-CI-DG-10GF030	GENERAL ARRANGEMENT PLAN
SGHS3-CI-DG-10GF060	SEDIMENT AND EROSION CONTROL PLAN LANDSCAPE AREA - SHEET 1
SGHS3-CI-DG-10GF061	SEDIMENT AND EROSION CONTROL PLAN LANDSCAPE AREA - SHEET 2
SGHS3-CI-DG-10GF070	SEDIMENT AND EROSION CONTROL PLAN DEMOLITION SITES - SHEET 1
SGHS3-CI-DG-10GF071	SEDIMENT AND EROSION CONTROL PLAN DEMOLITION SITES - SHEET 2
SGHS3-CI-DG-10GF072	SEDIMENT AND EROSION CONTROL PLAN DEMOLITION SITES - SHEET 3
SGHS3-CI-DG-10GF073	SEDIMENT AND EROSION CONTROL PLAN DEMOLITION SITES - SHEET 4
SGHS3-CI-DG-10GF080	BULK EARTHWORKS PLAN LANDSCAPE AREA - SHEET 1
SGHS3-CI-DG-10GF081	BULK EARTHWORKS PLAN LANDSCAPE AREA - SHEET 2
SGHS3-CI-DG-10GF090	BULK EARTHWORKS SITE SECTIONS LANDSCAPE AREA
SGHS3-CI-DG-10GF100	SITWORKS LANDSCAPE AREA - SHEET 1
SGHS3-CI-DG-10GF101	SITWORKS LANDSCAPE AREA - SHEET 2
SGHS3-CI-DG-10GF110	PAVEMENT PLAN - SHEET 1
SGHS3-CI-DG-10GF111	PAVEMENT PLAN - SHEET 2
SGHS3-CI-DG-10GF200	SEDIMENT AND EROSION CONTROL DETAILS

P2 26.11.24 ISSUE FOR REF
P1 15.11.24 ISSUE FOR REF
AMENDMENT

DRAWING TO BE PRINTED IN COLOUR

KEY PLAN



CLIENT



SERVICE PROVIDER



Meinhardt (NSW) Pty Ltd
A.C.N. 951 927 951

Level 4, 65 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3068
F: +61 2 9315 7518
info@meinhardtgroup.com
http://www.meinhardtgroup.com
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PROJECT
ST. GEORGE HOSPITAL -
REFURBISHMENT
KOGARAH, NSW 2217
PROJECT NO.
130507

DRAWING TITLE
COVER SHEET, DRAWING INDEX
AND LOCALITY PLAN

STATUS

PRELIMINARY

DRAWN

JG

DESIGNED

AM

CHECKED

BK

APPROVED

BL

SCALE @ B1
N.T.S

DRAWING NO.
REFB3-CI-DG-10GF010

REVISION
P2

NOT FOR CONSTRUCTION

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

IMPORTANT NOTES

- PRIOR TO THE COMMENCEMENT OF BUILDING WORKS ONSITE, THE CONTRACTOR MUST VERIFY THE FEASIBILITY OF THE OUTFALL STORMWATER DRAINAGE SYSTEM/S TO THE LEGAL POINT OF DISCHARGE AS DOCUMENTED BY:
 - VERIFICATION OF THE INVERT LEVEL OF THE DRAIN FORMING THE LEGAL POINT OF DISCHARGE
 - VERIFICATION THAT THE ROUTE FROM THE SITE TO THE LEGAL POINT/S OF DISCHARGE IS CLEAR OF ALL OTHER AUTHORITY SERVICES.IF EITHER OF THE ABOVE CANNOT BE VERIFIED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT MANAGER OR CONSULTING CIVIL ENGINEER.
- PRIOR TO THE COMMENCEMENT OF ANY WORKS, THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND SERVICES, NOTIFY THE AUTHORITIES RESPONSIBLE FOR THOSE SERVICES AND COMPLY WITH ALL OF THE REQUIREMENTS OF THOSE AUTHORITIES.

ENVIRONMENTAL MANAGEMENT PLAN

PRIOR TO THE COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL PREPARE A SITE MANAGEMENT PLAN FOR APPROVAL BY THE ENGINEER. ITEMS TO BE ADDRESSED INCLUDE:

- EROSION AND SEDIMENT CONTROL
- FLORA AND FAUNA CONSERVATION
- WATER QUALITY MANAGEMENT
- DUST CONTROL
- NOISE CONTROL
- ACCESS MANAGEMENT
- WASTE MANAGEMENT
- POLLUTION CONTROL
- MONITORING AND REPORTING
- CORRECTIVE ACTION

ATTENTION TO CONTRACTOR

OH & S REQUIREMENTS

- IN ACCORDANCE WITH CLAUSE 15 OF AS2124-1992, THE CONTRACTOR MUST ENSURE THE SAFETY OF THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PEOPLE WHO ARE ON OR ADJACENT TO THE SITE. THE CONTRACTOR MUST COMPLY WITH THE VICTORIAN OCCUPATIONAL HEALTH AND SAFETY ACT.
- THE CONTRACTOR MUST ENSURE THAT ALL PEOPLE EMPLOYED ON THE SITE WEAR APPROVED SAFETY APPAREL. THIS INCLUDES SAFETY HELMETS, SAFETY BOOTS, EAR AND EYE PROTECTION, WHERE APPROPRIATE.
- THE CONTRACTOR IS NOT PERMITTED TO BREAK-IN TO AN EXISTING LIVE PIPELINE, ENTER A LIVE ACCESS CHAMBER OR REMOVE THE COVER TO A LIVE ACCESS CHAMBER.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES IN WORKS AFFECTED AREAS PRIOR TO COMMENCING ANY WORKS.

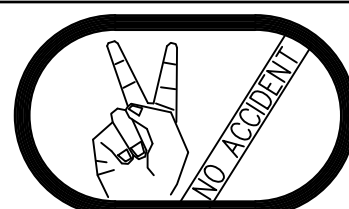
DEMOLITION NOTES:

FOR DETAILS OF DEMOLITION OF EXISTING BUILDINGS AND INFRASTRUCTURE, REFER TO DEMOLITION PLANS.

NOTE:

THIS PROJECT SHOULD BE READ IN CONJUNCTION WITH ALL OTHER SERVICES CONSULTANTS ASSOCIATED WITH THIS PROJECT BEFORE COMMENCEMENT OF ANY WORKS.

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.



THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR AND AT ALL TIMES PROVIDE A SAFE WORKING ENVIRONMENT IN THE VICINITY OF THE SITE OF WORKS IN FULL COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.

HEALTH AND SAFETY

- H1. THE OBLIGATION OF MEINHARDT GROUP PTY LTD (OR OTHER RELEVANT MEINHARDT ENTITY) (MEINHARDT) AS THE DESIGN ENGINEER IS LIMITED TO ENSURING THAT THOSE PARTS OF THE BUILDING OR STRUCTURE THAT ARE TO BE USED AS A WORKPLACE ARE AS FAR AS REASONABLY PRACTICABLE DESIGNED TO BE SAFE AND WITHOUT RISKS TO THE HEALTH OF THOSE PERSONS USING THE BUILDING OR STRUCTURE AS A WORKPLACE FOR THE PURPOSE FOR WHICH IT WAS DESIGNED IN ACCORDANCE WITH SECT. 28 OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 (VIC).
- H2. MEINHARDT IS NOT RESPONSIBLE FOR THE OCCUPATIONAL HEALTH AND SAFETY OF PERSONS AT THE SITE AS THOSE OBLIGATIONS RESIDE WITH THE CONTRACTORS AND/OR SUB-CONTRACTORS WHO OCCUPY OR HAVE CONTROL OF THE SITE IN ACCORDANCE WITH APPLICABLE OCCUPATIONAL HEALTH AND SAFETY LEGISLATION, CODES OR PRACTICE GUIDANCE NOTES, AUSTRALIAN STANDARDS AND OTHER RELEVANT DOCUMENTATION.
- H3. ANY ADVICE OR GUIDANCE CONCERNING OCCUPATIONAL HEALTH AND SAFETY ISSUES ARISING AT THE SITE SHOULD BE DIRECTED TO THE HEALTH AND SAFETY EXECUTIVE OR OFFICER NOMINATED FOR THE PROJECT.

GEOTECHNICAL DESIGN COMPLIANCE AND SITE INSPECTION ATTENDANCE

THESE DESIGN PLANS SHALL BE READ IN CONJUNCTION WITH GEOTECHNICAL REPORT BY TETRA TECH COFFEY PTY LTD. DOCUMENT REFERENCE SYDGE311083-AD, REV03 DATED 24 FEBRUARY 2023. THE PROVISIONS AND RECOMMENDATION CONTAINED WITHIN THE REPORT ARE TO BE STRICTLY COMPLIED WITH.

ALL COMPACTION REQUIREMENT RESULTS SHALL BE CARRIED OUT IN ACCORDANCE WITH GEOTECHNICAL REPORT RECOMMENDATIONS.

LATENT CONDITIONS (SUBGRADE IMPROVEMENTS)

ANY ADDITIONAL WORKS WHICH MAY LEAD TO A VARIATION SHALL BE APPROVED BY THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF ANY WORKS AND INCLUDE THE FOLLOWING PROVISIONS:

- NOTIFICATIONS FOR INSPECTIONS TO SUPPORT POTENTIAL VARIATION CLAIMS REQUIRE MINIMUM 48 HOUR NOTICE PERIOD. (SITE REPRESENTATION WILL BE AT THE DISCRETION OF THE SUPERINTENDENT).
- SUBGRADE IMPROVEMENTS ARE TO BE MANAGED BY THE PROJECT GEOTECHNICAL ENGINEER WITH INPUT FROM THE SUPERINTENDENT.
- CONSULTANT COSTS FOR GEOTECHNICAL REPRESENTATION AND REPORTING TO BE BORNE BY THE CONTRACTOR.
- ADDITIONAL INSPECTIONS BY THE SUPERINTENDENT TO SUPPORT VARIATION CLAIMS FOR LATENT CONDITIONS SHALL BE BORNE BY CONTRACTOR.



WARNING

PROPOSED SERVICES

THE LOCATION AND EXTENT OF PROPOSED SERVICES IS INDICATIVE ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION. REFER TO AUTHORISED DOCUMENTATION BY RELEVANT AUTHORITY FOR CONSTRUCTION DETAILS.

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

1. GENERAL

1.1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS, AND SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH THE WORK. THESE PLANS ARE BASED UPON THE EXISTING CONDITION SURVEY PREPARED BY OTHERS. WHERE SITE CONDITIONS DIFFER TO THE SURVEY OR DESIGN DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT PRIOR TO PROCEEDING WITH WORKS.

1.2 IF ANY DISCREPANCY OCCURS ON THE DRAWINGS OR BETWEEN THE DRAWINGS AND SPECIFICATION, THE TENDERER SHALL DURING TENDER REFER THE DISCREPANCY TO THE SUPERINTENDENT. OR ASSUME THAT THE DRAWINGS TAKE PRECEDENCE OVER THE SPECIFICATION, ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT FOR WRITTEN CLARIFICATION BEFORE PROCEEDINGS WITH THE WORK.

1.3 THESE DRAWINGS MUST NOT BE SCALED.

1.4 ALL DIMENSIONS AND REDUCED LEVELS MUST BE VERIFIED ON SITE BEFORE THE COMMENCEMENT OF ANY WORK.

1.5 THE CONTRACTOR SHALL SET OUT THE WORKS FROM THE NOMINATED DESIGN LINES, SURVEY BENCHMARKS AND CONTROL POINTS SHOWN ON THE PLANS AND TO THE SPECIFIED DETAILS. UPON REQUEST AN ELECTRONIC BASE PLAN OF THE CIVIL DRAWING CAN BE SUPPLIED FOR INFORMATION, MEINHARDT HOLDS NO LIABILITY TO THE ACCURACY OF ELECTRONIC FILES.

1.6 ALL LEVELS SHOWN ARE TO THE AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA 2020).

1.7 ALL SPOT LEVELS SHOWN ARE TO INVERT (FACE) OF KERB OR EDGE OF PAVEMENT WHERE APPLICABLE, UNLESS SHOWN OTHERWISE.

1.8 EXISTING SURFACE CONTOURS, WHERE SHOWN, ARE INTERPOLATED AND MAY NOT BE ACCURATE.

1.9 GRADE EVENLY BETWEEN FINISHED SURFACE SPOT LEVELS. FINISHED SURFACE CONTOURS ARE SHOWN FOR CLARITY. WHERE FINISHED SURFACE LEVELS ARE NOT SHOWN, THE SURFACE SHALL BE GRADED SMOOTHLY SO THAT IT WILL DRAIN AND MATCH ADJACENT SURFACES OR STRUCTURES.

1.10 MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN AND RESPONSIBLE AUTHORITY STANDARDS.

1.11 THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORKS.

1.12 ONLY SUBSTITUTIONS APPROVED IN WRITING BY THE SUPERINTENDENT SHALL BE ACCEPTED.

1.13 ALL WORKS WITHIN THE ROAD RESERVE SHALL BE IN ACCORDANCE WITH THE RESPONSIBLE ROAD AUTHORITY SPECIFICATIONS AND DRAWINGS AND ENGINEERING, DESIGN AND CONSTRUCTION MANUALS.

1.14 SERVICE INFORMATION SHOWN IS BASED ON PLANS SUPPLIED BY AUTHORITIES AND IS APPROXIMATELY ONLY. PRIOR TO COMMENCEMENT OF ANY WORKS, THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND SERVICES AND COMPLY WITH ALL REQUIREMENTS OF THOSE AUTHORITIES.

1.15 WHERE CIVIL DRAWINGS HAVE BEEN PROVIDED IN AUTOCAD OR DIGITAL FORMAT, THE CONTRACTOR SHALL UTILISE THESE FOR INFORMATION ONLY. DESIGN DRAWINGS ARE TO BE REFERENCED FOR SURFACE LEVELS AND WILL TAKE PRECEDENCE FOR SETOUT OVER 3D MODELS. ANY INFORMATION EXTRACTED FROM 3D MODELS ARE TO BE GROSS-CHECKED WITH FORMALLY ISSUED PDF FILES AND SITE CONDITIONS. IF ANY DISCREPANCIES EXIST, THE SUPERINTENDENT IS TO BE CONSULTED FOR REVIEW.

1.16 SHOP DRAWING REVIEW OF SUBCONTRACTOR DRAWINGS ARE NOT WITHIN THE CIVIL SCOP. WHERE SHOP DRAWINGS ARE PRODUCED, MEINHARDT DOES NOT TAKE ANY RESPONSIBILITY TO THE SUITABILITY OF ACCURACY OF THESE DRAWINGS.

1.17 THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ALL TEMPORARY WORKS.

2. EARTHWORKS AND GEOTECHNICAL

2.1 THE CONTRACTOR SHALL COMPLY WITH THE CURRENT EDITIONS OF THE FOLLOWING ROAD AUTHORITY AND AUSTRALIAN STANDARDS:
- AS 1289 TESTING SOILS FOR ENGINEERING PURPOSES
- AS 3798 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS
- ROAD AUTHORITY SPECIFICATION - SITE CLEARING

2.2 GRANULAR MATERIAL SPECIFIED AS PER GEOTECHNICAL REPORT SUBJECT TO SUPERINTENDENTS APPROVAL.

2.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT ALL CONTROL AND COMPLIANCE EXAMINATION AND TESTING OF MATERIALS AND WORK, UNLESS OTHERWISE SPECIFIED. ALL TESTS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE APPROPRIATE AUSTRALIAN STANDARD TEST METHOD. WHERE THERE IS NO RELEVANT AUSTRALIAN STANDARD TEST METHOD THEN THE CURRENT APPROPRIATE ROAD AUTHORITY TEST METHOD OR OTHER SPECIFIED TEST METHOD SHALL BE USED. ALL TESTS SHALL BE CONDUCTED BY EXPERIENCED TESTING OFFICERS IN A LABORATORY ACCREDITED BY THE NATIONAL ASSOCIATION OF TESTING AUTHORITIES (NATA).

2.4 DETERMINATION OF THE NATURE AND QUANTITY(IES) OF THE EXISTING SITE MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (GEOTECHNICAL REPORT PREPARED BY OTHERS).

THE GEOTECHNICAL REPORT WAS USED AS THE BASIS OF DESIGN. INTERPRETATION OF THE REPORT'S SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL ENGAGE THEIR OWN GEOTECHNICAL ENGINEER DURING CONSTRUCTION TO VERIFY ACTUAL SITE CONDITIONS.

2.5 THE CONTRACTOR SHALL BE DEEMED TO HAVE ALLOWED IN THE CONTRACT SUM FOR EXCAVATION IN ALL MATERIAL. NO ADDITIONAL PAYMENT SHALL BE MADE FOR EXCAVATION IN ROCK NOR ANY HARD OR SOFT MATERIAL.

SUITABLE MATERIAL EXCAVATED FROM THE SITE MAY BE USED AS FILL ONLY WHERE APPROVED IN WRITING BY THE SUPERINTENDENT, OR WHERE SHOWN ON THE DRAWINGS. IMPORTED FILL SHALL BE APPROVED MATERIALS COMPRISING GRANULAR IGNEOUS WEATHERED ROCK OR QUARRY WASTE (SUCH AS 40mm CLASS 3 OR CLASS 4), SANDY CLAY OR WEATHERED SEDIMENTARY ROCK. THE FILL MATERIAL MAXIMUM PARTICLE SIZE AFTER COMPACTION SHALL NOT EXCEED 40mm, NOT LESS THAN 50% OF THE MATERIAL SHALL BE COARSER THAN 75 MICRON AND IT SHALL HAVE A LIQUID LIMIT NOT EXCEEDING 35%. GRANULAR MATERIAL SHALL BE WELL GRADED.

UNSUITABLE MATERIAL SHALL MEAN ANY MATERIAL WHICH CONTAINS VEGETABLE MATTER, ROOTS, STUMPS AND OR ANY OTHER PERISHABLE, FOREIGN OR DELETERIOUS MATTER, OR CONTAINS CLAY HAVING A LIQUID LIMIT EXCEEDING 80% AND OR A PLASTICITY INDEX EXCEEDING 50% OR CONTAINS ROCK, GRAVEL OR OTHER PIECES WHOSE LEAST DIMENSION EXCEEDS 100mm, OR IS SILTY MATERIAL OR IS OTHERWISE CONSIDERED AS BEING UNSUITABLE.

2.6 WHEN A SURFACE IS UNABLE TO SUPPORT CONSTRUCTION EQUIPMENT OR IT IS NOT POSSIBLE TO COMPACT THE OVERLYING MATERIALS BECAUSE OF HIGH MOISTURE CONTENT, THEN ONE OR MORE OF THE FOLLOWING ALTERNATIVE ACTIONS MAY BE TAKEN:
A) ALLOW THE MATERIAL TO DRY TO A MOISTURE CONTENT WHICH ALLOW IT TO BE COMPACTED AND ALLOW THE PLACEMENT AND COMPACTION OF OVERLYING MATERIAL
B) SCARIFY THE MATERIAL TO A DEPTH OF 200mm AND WORK AS NECESSARY TO ACCELERATE DRYING. RECOMPACT AS SPECIFIED WHEN MOISTURE CONTENT APPROXIMATES OPTIMUM
C) EXCAVATE AND REPLACE THE SOFT MATERIAL
THE ACTION TO BE ADOPTED SHALL BE AT THE CONTRACTOR'S DISCRETION AND EXPENSE, BUT SHALL BE ADVISED TO THE SUPERINTENDENT BEFORE ACTION COMMENCES
D) IF THE CONTRACTOR ELECTS PURSUANT TO (A) ABOVE TO ALLOW THE MATERIAL TO DRY, RESULTING DELAYS, IF ANY, SHALL NOT CONSTITUTE GROUNDS FOR AN EXTENSION OF CONTRACT PERIOD OR DATE OF PRACTICAL COMPLETION.

2.7 THE NATURAL SUBGRADE SHALL BE MOISTURE CONDITIONED TO WITHIN THE RANGE 98% TO 102% OF MAXIMUM OPTIMUM MOISTURE CONTENT AND COMPACTED TO ACHIEVE A MINIMUM STANDARD DRY DENSITY RATIO TO A MINIMUM DEPTH OF 200mm. IF REQUIRED THE AREA SHOULD BE TYND AND SCARIFIED FULL DEPTH TO FACILITATE THIS PROCESS.

2.8 ANY SOFT, WEAK OR UNSTABLE AREAS EXPOSED BY THE COMPACTION PROCESS, OR DURING TEST ROLLING, AND WHICH DO NOT RESPOND TO FURTHER COMPACTION OR MOISTURE CONDITIONING SHALL BE EXCAVATED AND REPLACED. THE CONTRACTOR SHALL BE DEEMED TO HAVE ASSESSED THE EXTENT OF UNSTABLE AREAS AND SHALL BE DEEMED TO HAVE INCLUDED IN THE CONTRACT SUM FOR ALL ACTIVITIES REQUIRED FOR UNSTABLE AREA RECTIFICATION INCLUDING THE DELIVERY, PLACING AND COMPACTION OF APPROVED MATERIAL AS WELL AS THE EXCAVATION AND DISPOSAL OF REPLACED MATERIAL.

2.9 THE FINISHED SUBGRADE SHALL NOT BE DISTURBED BY TRAFFIC OR OTHER OPERATIONS, AND SHALL BE PROTECTED AND MAINTAINED BY THE CONTRACTOR UNTIL THE FIRST LAYER OF FILL OR SUB-BASE IS PLACED THEREON. THE SUBGRADE SHALL BE KEPT DRAINED AND COMPLETELY FREE OF STANDING WATER AT ALL TIMES. THE CONTRACTOR SHALL PLAN AND CONSTRUCT THE COMPLETION OF THE WORKS TO MINIMISE THE EFFECTS OF RUN-OFF AND EROSION ON THE SITE AND ON DOWNSTREAM AREAS. THE CONTRACTOR SHALL AVOID UNNECESSARY GROUND DISTURBANCE AND PROVIDE AS NECESSARY FOR THE PROPER CONTROL OF STORMWATER RUN-OFF AT EVERY STAGE OF THE WORKS.

2.10 ALL FILL AND PAVEMENT MATERIALS SHALL BE COMPACTED IN LAYERS NOT EXCEEDING A MAXIMUM LOOSE THICKNESS OF 250mm TO THE DENSITIES SPECIFIED BELOW:
A) LANDSCAPED AREAS 98% STANDARD DRY DENSITY
B) FILL UNDER ANY FOOTINGS AND FLOOR SLABS FOR ANY STRUCTURE
- FINE CRUSHED ROCK 98% MODIFIED DRY DENSITY
C) FILL UNDER ROAD PAVEMENTS
- FINE CRUSHED ROCK 98% MODIFIED DRY DENSITY
D) ROAD PAVEMENT MATERIALS
- SUBBASE AND BASE COURSE 98% MODIFIED DRY DENSITY

2.11 WHERE EXCAVATED MATERIAL IS NOT SUITABLE FOR FILLING, "IMPORTED FILL" SHALL BE USED. COMPACT IMPORTED BULK FILL IN LAYERS OF 150mm MAXIMUM COMPACTED DEPTH AND AT OPTIMUM MOISTURE CONTENT. THE CONTRACTOR SHALL CARRY OUT TESTING AT A FREQUENCY WHICH IS SUFFICIENT TO ENSURE THAT THE MATERIALS AND WORK SUPPLIED UNDER THE CONTRACT COMPLIES WITH THE SPECIFIED REQUIREMENTS AND CONFORMING TO AS3798 TABLE 8.1 (ADOPTING WHICHEVER GIVES THE MOST TEST RESULTS). NO FILL SHALL BE PLACED OVER LAYERS NOT TESTED AND HAVING UNSATISFACTORY RESULTS.

2.12 EXCAVATION TO THE LINES, LEVELS AND GRADES AS REQUIRED FOR UNDERGROUND SERVICES SPECIFIED IN THE RELEVANT SERVICES SECTIONS, INCLUDING DRAINAGE, HYDRAULIC, ELECTRICAL, AND THE LIKE, UNLESS OTHERWISE SPECIFIED MAKE THE TRENCHES STRAIGHT BETWEEN MANHOLES, INSPECTION POINTS, JUNCTIONS AND THE LIKE, WITH VERTICAL SIDES AND UNIFORM GRADES. DEPTH SHALL BE AS REQUIRED BY THE RELEVANT SERVICES AND ITS BEDDING. CUT BACK ROOTS ENCOUNTERED IN TRENCHES TO LESS THAN 600mm CLEAR OF THE RELEVANT SERVICE. REMOVE SUCH OTHER OBSTRUCTIONS INCLUDING ROOTS, STUMPS, BOULDERS, REDUNDANT SERVICES AND THE LIKE WHICH MAY, IN THE

OPINION OF THE SUPERINTENDENT, INTERFERE WITH THE PROPER FUNCTIONING OF THE SERVICE.
LAY AND BED SERVICES IN ACCORDANCE WITH THE RELEVANT SERVICES SPECIFICATION SECTION.

2.13 BACKFILL AND COMPACT SERVICE TRENCHES AS SOON AS POSSIBLE AFTER APPROVAL OF LAID AND BEDDED SERVICE. COMPACT BACKFILL IN PIPE TRENCHES SO THAT THE PIPE IS BUTTRESSED BY THE WALLS OF THE TRENCH.

2.14 WHERE FILLING IS DESIGNATED BY THE CONTRACT OR IS SHOWN ON THE DRAWINGS AS STRUCTURAL OR CONTROLLED FILL, THE CONTRACTOR SHALL ENGAGE AN INDEPENDENT GEOTECHNICAL TESTING AUTHORITY TO SUPERVISE SUBGRADE PREPARATION, FILL PLACEMENT, COMPACTION AND TO UNDERTAKE SAMPLING AND TESTING AND REPORTING TO SATISFY THE REQUIREMENTS OF THIS SPECIFICATION AND THOSE OF AS 2670 AND AS 3798, FOR CONTROLLED FILL.

2.15 UNLESS OTHERWISE PERMITTED, NO FILLING SHALL BE PLACED AGAINST ANY STRUCTURES, WING WALLS OR RETAINING WALLS WITHIN FOURTEEN DAYS OF CASTING. STRUT WALLS AS NECESSARY TO PREVENT MOVEMENT DURING PLACING AND COMPACTION. PLACE AND COMPACT FILLING OVER AND AROUND PIPES, CULVERTS, BRIDGES AND OTHER STRUCTURES SO AS TO AVOID UNBALANCED LOADING OR MOVEMENT, UNLESS OTHERWISE DETAILED BACKFILL AT STRUCTURES SHALL BE FILLED AS FOLLOWS:
A) WHERE THE GAP BETWEEN THE STRUCTURE AND UNDISTURBED GROUND EXCEEDS 2m, BACKFILL THE ZONE WITHIN 2m OF THE STRUCTURE WITH CLASS 3 FINE CRUSHED ROCK AND BACKFILL IN THE ZONE BEYOND 2m OF THE STRUCTURE WITH SELECT FILL TO THE APPROVAL OF THE SUPERINTENDENT OR CLASS 3 FINE CRUSHED ROCK, UNLESS OTHERWISE DETAILED, MATERIAL WITHIN 300mm OF WEEPHOLES SHALL BE AN APPROVED GRANULAR FILTER MEDIA OF COARSE SAND OR CRUSHED STONE WRAPPED AND SURROUNDED WITH AN APPROVED GEOTEXTILE SEPARATION LAYER.

2.16 AREAS UPON WHICH FILL IS TO BE CONSTRUCTED, ALL LAYERS OF FILLING, AND MATERIALS LESS THAN 150mm BELOW PERMANENT SUBGRADE LEVELS, IN CUT, SHALL BE COMPACTED SO AS TO BE CAPABLE OF WITHSTANDING TEST ROLLING, WITHOUT VISIBLE DEFORMATION OR SPRINGING, WITH A PNEUMATIC TYRED ROLLER OR HIGHWAY TRUCK BALLASTED TO COMPLY WITH THE FOLLOWING:
A) PNEUMATIC TYRED - NOT LESS THAN 3 PER TYRE WITH TYRES AT LEAST TO 550 kPa
B) HIGHWAY TRUCK - WITH REAR AXLE OR AXLES LOADED TO NOT LESS THAN 8 t EACH WITH TYRES INFLATED TO 550 kPa
TEST ROLLING SHALL BE CARRIED OUT IMMEDIATELY BEFORE OVERLYING LAYERS ARE PLACED.
WHERE TEST ROLLING IS REQUIRED AT SOME LATER DATE, THE SURFACE SHALL BE MOISTURE CONDITIONED AS REQUIRED AND GIVEN NOT LESS THAN FOUR COVERAGES OF THE TEST ROLLER BEFORE TEST ROLLING COMMENCES.

2.17 THE WORK SHALL NOT BE ACCEPTED AS COMPLETE UNLESS ALL TEST RESULTS ARE PROVIDED TO THE SUPERINTENDENT AND APPROVED. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL PROPERTY AND QUALITY TEST RESULTS TO THE SUPERINTENDENT.

3. SITE CLEAN UP

3.1 ALL EXISTING REDUNDANT CONCRETE, PAVEMENT, SOIL, RUBBISH AND CONSTRUCTION DEBRIS SHALL BE TAKEN UP AND REMOVED FROM SITE.

3.2 PRIOR TO COMPLETION, THE CONTRACTOR SHALL ENSURE THE SITE OF WORKS IS TIDIED AND OBTAIN A CLEARANCE FROM THE SUPERINTENDENT.

3.3 APPROPRIATE CLEANING FACILITIES WILL BE INSTALLED ON SITE TO ENSURE THERE IS NO MUD, SOIL OR DEBRIS DEPOSITED BY VEHICLES ON ABUTTING PUBLIC ROADS.

3.4 SITE ACCESS ROADS AND ABUTTING PUBLIC ROADS TO BE REGULARLY SWEEPED TO KEEP THEM CLEAN AND DEBRIS FREE.

4. STORMWATER DRAINAGE

4.1 ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE CURRENT EDITIONS OF THE FOLLOWING AUSTRALIAN STANDARDS.
- AS 1260 UNPLASTICISED PVC (UPVC) PIPES AND FITTINGS FOR SEWERAGE APPLICATIONS.
PART 1, SMALL CULVERTS (NOT EXCEEDING 1200mm WIDTH AND 900mm DEPTH).
- AS 1631 CAST IRON NON-PRESSURE PIPES AND PIPE FITTINGS
- AS 1650 GALVANISED COATINGS
- AS 1657 FIXED PLATFORMS, WALKWAYS, STAIRWAYS AND LADDERS
- AS 2032 CODE OF PRACTICE FOR INSTALLATION OF UPVC PIPE SYSTEMS
- AS 2439 PERFORATED PLASTICS DRAINAGE AND EFFLUENT PIPE FITTINGS. PART 1, PERFORATED DRAINAGE PIPE AND ASSOCIATED FITTINGS
- AS 3500.3 NATIONAL PLUMBING AND DRAINAGE CODE. PART 3, STORMWATER DRAINAGE
- AS 3725 LOADS ON BURIED CONCRETE PIPES
- AS 3998 METAL ACCESS COVERS, ROAD GRATES AND FRAMES
- AS 4598 PRECAST CONCRETE PIPES (PRESSURE AND NON-PRESSURE)
- AS 4139 FIBRE REINFORCED CONCRETE PIPES AND FITTINGS

4.2 ALL BEDDING TO BE TYPE H2 IN ACCORDANCE WITH AS3725 UNLESS NOTED OTHERWISE.

4.3 THE CONTRACTOR SHALL COMPLY WITH THE 'MINES (TRENCHES) REGULATIONS' 1987 FOR ALL SHORING, SUPPORT OF TRENCHES, QUALIFICATIONS OF PERSONNEL AND NOTIFICATION TO THE RESPONSIBLE AUTHORITY.

4.4 TRENCHES MUST BE KEPT CLEAR OF WATER AT ALL TIMES AND TIMBERED >1m DEPTH WHERE NECESSARY TO PREVENT COLLAPSE.
4.5 SUITABLE SAFETY BARRIERS SHALL BE PROVIDED AROUND THE EXCAVATION AT ALL TIMES. THE BARRIERS SHALL BE SUITABLY ILLUMINATED OVERNIGHT TO THE SATISFACTION OF THE SUPERINTENDENT.

STANDARD CIVIL NOTES

4.6 PIPES SHALL BEAR EVENLY ON THE BED PREPARED AS SPECIFIED ABOVE AND LAID WITH THE SOCKETS POINTED UPGRADE. ALL PIPES SHALL BE LAID IN STRAIGHT LINES, TO TRUE INVERT LEVELS AND GRADES AS SHOWN ON PLANS. EACH PIPE SHALL BE SEPARATELY LEVELLED BETWEEN ACCURATELY ESTABLISHED GRADE POINTS. THE CONTRACTOR SHALL ADHERE TO THE DRAWINGS AND SHALL NOT BE PERMITTED TO VARY THE LINE, LEVELS OR LOCATION OF THE DRAIN WITHOUT THE SUPERINTENDENT'S WRITTEN APPROVAL.

4.7 ALL PIPE JOINTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN SPECIFICATIONS FOR THE TYPE OF PIPE BEING USED.

4.8 FOR REACTIVE CLAY SITES, ALL STORMWATER DRAINAGE CONNECTIONS SHALL BE PROVIDED WITH A MECHANICAL FLEXIBLE JOINT AT THE INTERFACE BETWEEN THE STRUCTURE AND IN-GROUND PIPE INSTALLATION.

4.9 WHERE ANY PIPE IS CUT INTO A LARGER PIPE, SUCH CONNECTION SHALL BE NEATLY MADE AND NO PART OF THE PIPE OR DOWNPIPE SHALL BE ALLOWED TO PROJECT. ANY CUT-IN JUNCTION SHALL BE MADE IN THE TOP HALF OF THE LARGER PIPE. SUCH JUNCTION TO CONCRETE PIPES SHALL BE SURROUNDED WITH A NEAT COLLAR OF CEMENT MORTAR AS DIRECTED BY THE SUPERINTENDENT OR AS DETAILED ON THE DRAWINGS. JUNCTIONS BETWEEN PVC PIPES SHALL USE PROPERTY FITTINGS INTENDED FOR THE PURPOSE.

4.10 THE ENDS OF PIPES WHICH CONNECT WITH DRAIN ENTRY, JUNCTION OR OTHER PITS SHALL BE NEATLY CUT TO FIT THE INNER FACE OF THE CONCRETE. WHERE UPVC PIPES ENTER/LEAVE PITS A RUBBER RING JOINT MANHOLE COUPLING SHALL BE CAST INTO THE PIT WALL.

4.11 ALL PITS AND ENDWALLS SHALL BE CONSTRUCTED IN THE POSITIONS AND TO THE LEVELS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE SUPERINTENDENT.
PIT COVERS SHALL BE PLACED IN ACCORDANCE WITH THE DETAIL, SITE PLANS AND PIT SCHEDULE (IF PROVIDED) IN REGARD TO TYPE, SIZE, LOCATION AND LEVEL.
THE BASE OF EACH PIT SHALL BE INFILLED AND SHAPED WITH CONCRETE OR CEMENT MORTAR TO PROVIDE A SMOOTH FLOW PATH.
PIT COVER LEVELS ARE SHOWN FOR GUIDANCE ONLY. THE CONTRACTOR SHALL ALLOW TO CONSTRUCT THE COVERS ON A SLOPE AS REQUIRED TO SUIT THE FINAL SURFACE SHAPES AND GRADES.

4.12 ALL DRAINAGE TO BE SETOUT A MINIMUM OF 1000mm FROM ADJACENT BUILDINGS UNLESS NOTED OTHERWISE.

4.13 ALL DRAINAGE PITS TO BE EITHER CAST IN-SITU CONCRETE PITS AS DETAILED OR AN APPROVED PRECAST PIT COMPLYING WITH THE RELEVANT AUSTRALIAN STANDARDS. CONTRACTOR TO OBTAIN APPROVAL FROM THE MAINTAINING AUTHORITY TO INSTALL PRECAST PITS. PITS LOCATED IN GROUND WATER OR COASTAL AREAS SHALL HAVE MINIMUM 600mm COVER TO REINFORCEMENT AT ALL FACES.

4.14 UNLESS NOTED OTHERWISE, ALL DRAINAGE PITS SHALL BE FITTED WITH BOL-T DOWN CONCRETE INFILL COVERS AND ANGRER FABRICATED STEEL GRATES COMPLYING WITH AS 3996 AS REQUIRED, OR AS DIRECTED BY SUPERINTENDENT.

4.15 UNLESS NOTED OTHERWISE, ALL PIT COVERS SHALL MEET THE FOLLOWING MINIMUM CLASS:
CLASS B FOR PITS WITHIN LANDSCAPING OR AREAS NOT SUBJECT TO VEHICLE TRAFFIC
CLASS C FOR PITS WITHIN LIGHT-VEHICLE TRAFFICKED AREAS AND PRIVATE ROADWAYS
CLASS D FOR PITS WITHIN HEAVY-VEHICLE TRAFFICKED AREAS AND/OR PUBLIC ROADWAYS
IF ANY DISCREPANCY EXISTS BETWEEN THE ABOVE AND THE PIT SCHEDULE DRAWING, THE DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT FOR REVIEW AND DIRECTION.

4.16 CONTRACTOR TO ALLOW TO FINISH PITS FLUSH WITH SURROUNDING LEVELS ON COMPLETION. COVER LEVELS ON THE DRAWINGS AND PIT SCHEDULE ARE TO THE CENTER OF THE PIT AND MAY BE MODIFIED ON SITE >20mm TO MEET CONSTRUCTION TOLERANCES AND FINISHED PAVEMENT LEVELS.

4.17 ALL DOWNPIPES SHALL BE CONNECTED TO THE END OF A PIPE OR ELBOW AND WHICH THEY SHALL ENTER CENTRALLY.
WHERE PVC DOWNPIPES AND UNDERGROUND DRAINAGE ARE USED, THE DOWNPIPES SHALL BE CONNECTED TO THE UNDERGROUND DRAINS WITH SUITABLE STANDARD FITTINGS, BENDS ETC AND WITH SOLENT JOINTS. THE CONTRACTOR SHALL LAY AND GRADE DRAINS FROM DOWNPIPES TO COMPLY WITH THE REQUIREMENTS FOR PIPE MATERIAL AND COVER REQUIRED BY AS3500.3. WHERE THE REQUIREMENTS OF AS3500.3 CANNOT BE MET THE CONTRACTOR SHALL REFER THE MATTER TO THE SUPERINTENDENT.

4.18 UNLESS NOTED OTHERWISE, ALL DOWNPIPES & GRATED LISTS SHALL BE CONNECTED TO PITS OR MAIN STORMWATER DRAINS WITH PVC S80 OR S910 OF THE FOLLOWING SIZES LAID AT MINIMUM GRADE OF 1 IN 100:
A) 1000 SM10 FOR DOMESTIC CONSTRUCTION
B) 1500 S80 FOR COMMERCIAL/INDUSTRIAL CONSTRUCTION
C) 1000 SM10 FOR BASEMENT GRATED LISTS
D) IF U.P.V.C. OR OTHER PIPES ARE TO BE USED, APPROVAL MUST BE GIVEN BY THE SUPERINTENDENT
E) GREEN STAR PROJECTS SHALL SUBSTITUTE PVC WITH APPROVED EQUIVALENT HDPE OR PP PIPES.

4.19 ALL IN GROUND DOWNPIPE CONNECTIONS ARE TO BE 1500 UPVC OR EQUAL TO THE DOWNPIPE SIZE, WHICHEVER IS GREATER, UNLESS SHOWN OTHERWISE. DOWNPIPE CONNECTIONS TO THE MAIN STORMWATER DRAINAGE SHALL BE VIA A 45° OBLIQUE JUNCTION OR BANDAGE JOINT AS DETAILED OR DIRECT TO A STORMWATER PIT. SUSPENDED DOWNPIPE CONNECTIONS WITHIN THE BUILDING ARE TO BE SUPPORTED WITH APPROVED HANGERS AT 1.2m CENTRES. THE ALIGNMENT OF SUSPENDED DRAINS IS SCHEMATIC ONLY. THE FINAL

ALIGNMENT IS TO COMPLY WITH THE ARCHITECTURAL PLANS.

4.20 ALL MAIN STORMWATER DRAINS SHALL BE CONSTRUCTED USING ONE OF THE FOLLOWING TYPES OF PIPES WITH RUBBER RING JOINTS:
A) 3000 AND ABOVE, MIN. CLASS 2 RCP OR SHOWN OTHERWISE ON PLAN IN ACCORDANCE WITH AS4058
B) 1000 STIFFNESS S810, 1500 AND ABOVE, STIFFNESS S80 P.V.C. IN ACCORDANCE WITH AS1260
C) CLASS 2 F.R.C. OR SHOWN OTHERWISE ON PLAN TO AS4139
D) IF U.P.V.C. OR OTHER PIPES ARE TO BE USED, APPROVAL MUST BE GIVEN BY THE SUPERINTENDENT.

E) ALL STORMWATER DRAINAGE PIPES 2250 AND LESS TO BE SEWER QUALITY UPVC WITH SOLVENT WELDED JOINTS, UNLESS NOTED OTHERWISE.

4.21 FOR SYPHONIC ROOF DRAINAGE SYSTEMS, REFER TO HYDRAULIC DRAWINGS FOR SIZE OF ALL CONNECTIONS BETWEEN DOWNPIPES AND MAIN STORMWATER DRAINS. THE CONNECTOR TO THE STORMWATER SYSTEM SHALL HAVE THREE TIMES THE CAPACITY OF THE FLOW RATE FROM THE SYPHONIC SYSTEM.

4.22 FOR SUBSIDIARY DRAINAGE, 1000 CLASS 1000 IN THE ROAD RESERVE AND CLASS 400 UPVC AGI (AG) DRAINS ELSEWHERE WITH 20mm N.S. SCREENINGS BACKFILL SHALL BE INSTALLED BEHIND ALL KERBING AND RETAINING WALLS UNLESS OTHERWISE NOTED. AT MANHOLE DETAILS, THE DRAINAGE SHALL BE CONNECTED TO THE NEAREST DRAIN OR PIT. WHERE AGI DRAINS PASS UNDER SLABS OR PAVEMENTS, UNFLOTTED SECTIONS OF PIPE ARE TO BE USED.

4.23 THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION MACHINERY DOES NOT TRAFFIC DIRECTLY OVER STORMWATER DRAINAGE. WHERE THIS IS NOT POSSIBLE, ENSURE THAT MINIMUM 300mm COVER IS PROVIDED OVER THE STORMWATER DRAINAGE FOR THE DURATION OF THE WORKS. WHERE MINIMUM COVER OVER STORMWATER DRAINAGE IS NOT AVAILABLE, THE CONTRACTOR SHALL USE APPROPRIATE MEASURES TO PROTECT THE INTEGRITY OF THE PIPE OR INCREASE THE CLASS OF THE PIPE.

4.24 FOR BASEMENTS WITHIN THE GROUNDWATER TABLE, ALL STORMWATER DRAINAGE CONNECTIONS ARE TO BE SEALED WITH AN APPROVED SEALANT TO PREVENT GROUNDWATER INGRESS INTO THE DRAINAGE SYSTEM, AND FIXED IN PLACE TO PREVENT FLUTATION DUE TO BUOYANCY, UNLESS NOTED OTHERWISE.

4.25 UNLESS NOTED OTHERWISE, GROUNDWATER IS NOT TO BE DISCHARGED INTO THE LOCAL STORMWATER SYSTEM IN THE PERMANENT CONDITION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A TRADE WASTE AGREEMENT WITH THE RELEVANT AUTHORITY FOR THE TEMPORARY DISCHARGE OF GROUNDWATER DURING CONSTRUCTION.

4.26 IN CIRCUMSTANCES WHERE FIRE TEST DRAINS HAVE BEEN CONNECTED TO THE STORMWATER SYSTEM, TESTS CANNOT BE CARRIED OUT WITHIN ONE HOUR OF A STORM EVENT.

4.27 OUTFALL DRAINAGE CONNECTION INVERT LEVELS ARE TO BE VERIFIED & CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS ON SITE. ANY DISCREPANCIES TO BE NOTIFIED TO THE SUPERINTENDENT.

4.28 SUPPLY APPARATUS AND MATERIALS NECESSARY FOR, AND CARRY OUT THE TESTS REQUIRED BY THE SPECIFICATION OR REGULATORY AUTHORITIES, IN THE PRESENCE OF THE SUPERINTENDENT AND THE RELEVANT AUTHORITY. LEAVE PIPE JOINTS EXPOSED TO ENABLE OBSERVATION DURING THE TESTS. ENSURE PVC SOLVENT CEMENT JOINTS HAVE BEEN CURED FOR AT LEAST 24 HOURS BEFORE TESTING.

4.29 THE CONTRACTOR SHALL PRESSURE TEST WITH WATER, ALL STORMWATER PIPEWORK IN OR UNDER THE STRUCTURE, IN ACCORDANCE WITH AS 3500.3.

4.30 WHERE WATER TANKS ARE SPECIFIED, APPROPRIATE FILTERS ARE TO BE INCORPORATED TO ENSURE GROSS POLLUTANTS AND LITTER ARE PREVENTED FROM ENTERING THE TANKS. NOMINAL APERTURE SIZE OF 5mm IS RECOMMENDED. AN EFFECTIVE MAINTENANCE PROGRAM INCLUDING REGULAR CLEANING OF FILTERS IS TO BE ADOPTED TO ENSURE SYSTEM REMAINS FULLY FUNCTIONAL.

4.31 PROPRIETARY STORMWATER FILTRATION/TREATMENT SYSTEMS AND PUMPS ARE TO BE INSTALLED AND CONSTRUCTED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

4.32 FOR SITES WHERE STORMWATER INFRASTRUCTURE IS CONSIDERED A LIGATURE RISK, THE CONTRACTOR IS RESPONSIBLE FOR PROCURING SUITABLE ANTI-LIGATURE PRODUCTS FOR PIT LIDS, GRATES, ETC.

5. CONCRETE

5.1 ALL WORKMANSHIP AND CONCRETE MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING AUSTRALIAN STANDARDS AS APPLICABLE. THE SPECIFICATION AND DETAILS ON THE DRAWINGS UNLESS INSTRUCTED OTHERWISE BY THE SUPERINTENDENT:
- AS 1012 METHODS OF TESTING CONCRETE
- AS 2758.1 DENSE NATURAL AGGREGATES
- AS 1476 CHEMICAL ADMIXTURES FOR USE IN CONCRETE
- AS 1379 READY MIXED CONCRETE
- AS 3972 PORTLAND AND BLENDED CEMENTS
- AS 1302 STEEL REINFORCING BARS FOR CONCRETE
- AS 1303 HARD DRAWN STEEL REINFORCING WIRE FOR CONCRETE
- AS 1304 HARD DRAWN STEEL WIRE REINFORCING FABRIC FOR CONCRETE
- AS 3600 CONCRETE STRUCTURES
- AS 3610 FORMWORK FOR CONCRETE

THE WORK USED SHALL BE FREE OF ALL SUBSTANCES HARMFUL TO CONCRETE AND ITS REINFORCEMENT. ADMIXTURES SHALL NOT BE USED WITHOUT WRITTEN PERMISSION FROM THE SUPERINTENDENT. ALL CONCRETE SHALL BE READY MIXED CONCRETE.

5.2 UNLESS OTHERWISE SPECIFIED, SHOWN ON THE DRAWINGS, OR DIRECTED BY THE SUPERINTENDENT, REINFORCEMENT FOR CONCRETE SHALL BE FREE FROM ANY COATING WHICH WILL REDUCE, OR PREVENT BONDING OF THE CONCRETE TO THE STEEL.

5.3 UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 1.5 TIMES THE DIAMETER OF THE BARS OR 40mm, WHICHEVER IS GREATER, AND 80mm COVER IN GROUNDWATER OR COASTAL AREAS.

5.4 ALL KERBS, KERB & CHANNEL, SPOON DRAINS ETC, SHALL BE LAID OVER 75mm MINIMUM DEPTH OF COMPACTED CLASS 2 CRUSHED ROCK, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

5.5 WHERE REQUIRED MATCH ALL NEW KERBS TO EXISTING LEVEL NEATLY, ENSURING MINIMUM 1 IN 200 GRADE, SAW CUTTING AND REINSTATING PAVEMENT IN FRONT OF KERB TO FALL TOWARDS OR AWAY FROM NEW KERB LEVEL.

5.6 SCHEDULE OF CONCRETE PROPERTIES TO BE USED FOR THE PARTICULAR SECTION OF WORK SHALL BE AS FOLLOWS UNLESS STATED OTHERWISE INSTRUCTED OR SHOWN ON THE DRAWINGS. (MIX DESIGNS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE SUPERINTENDENT FOR INSPECTION 28 DAYS PRIOR TO POUR).

LOCATION	GRADE (MPa)	MAX. AGGREGATE (mm)	SUMP (mm)
KERBS, PITS, HEADWALLS	N25	20	80 ± 15
FOOTPATHS, RETAINING WALLS	N32	20	80 ± 15
VEHICULAR PAVEMENT	N32 TYPE 1	20	80 ± 15

TYPE 1 CONCRETE SHALL HAVE THE PROPERTIES OF NORMAL N32 CONCRETE WITH A FLEXURAL STRENGTH OF F_{th} 4 MPa

5.7 ALL REINFORCEMENT IN SLABS AND BEAMS SHALL BE SUPPORTED ON CHAIRS TO GIVE THE REQUIRED COVER. SPACING OF REINFORCEMENT CHAIRS SHALL NOT EXCEED 800mm IN ANY DIRECTION.

5.8 MINIMUM LAPS FOR REINFORCEMENT SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

FABRIC	2 CROSS WIRES ± 25mm.
N12:	400mm.
N24:	1100mm
N16:	600mm.
N28:	1350mm
N20:	800mm.
N32:	1500mm

COG AND HOOK PN DIAMETERS AND OVERALL DIMENSIONS SHALL BE AS PER THE REQUIREMENTS OF AS 3600 UNLESS NOTED OTHERWISE.

5.9 ALL BAR CRANKS SHALL BE NO GREATER THAN 1 IN 6, UNLESS NOTED OTHERWISE. REINFORCEMENT GRADES SHALL BE AS FOLLOWS:

BAR:	GRADE 500N TO AS/NZS 4671.
FABRIC:	HARD DRAWN WIRE FABRIC TO AS/NZS 4671.
LIGS & TIES:	HARD DRAWN WIRE, GRADE 450W, TO AS/NZS 4671.

ANY STEELWORK SOURCED FROM MILLS LOCATED OUTSIDE AUSTRALIA ARE TO BE PROVIDED WITH CERTIFICATES PROVING ABOVE REQUIREMENTS VERIFIED BY NATA REGISTERED ORGANISATIONS.

5.10 CONSTRUCTION JOINTS, WHERE NOT SHOWN ON THE DRAWINGS, SHALL BE LOCATED TO THE APPROVAL OF THE SUPERINTENDENT.

5.11 THE MINIMUM CLEAR SPACING BETWEEN CONDUITS, CABLES, PIPES AND BARS SHALL BE AS REQUIRED BY AS 3600 BUT NOT LESS THAN THREE DIAMETERS HORIZONTALLY FOR HORIZONTAL CONDUITS, ETC. IN SLABS, WALLS AND FOOTINGS AND NOT LESS THAN ONE DIAMETER FOR ALL OTHER CONDUITS, ETC.
ALL PRIMARY REINFORCEMENT SHALL BE PLACED OUTERMOST.

5.12 CONCRETE SHALL NOT BE PLACED UNTIL THE SUPERINTENDENT HAS EXAMINED BOTH FORMWORK AND REINFORCEMENT IN PLACE AND GIVEN THEIR CONSENT TO PROCEED. 48 HOURS NOTICE SHALL BE GIVEN TO THE SUPERINTENDENT BEFORE PLACEMENT OF ANY CONCRETE HAS COMMENCED. CONCRETE SHALL NOT BE PLACED UNDER WATER OR DROPPED THROUGH A DISTANCE GREATER THAN 1.5M WITHOUT THE CONSENT OF THE SUPERINTENDENT. DURING AND IMMEDIATELY AFTER THE PLACING OPERATION CONCRETE SHALL BE THOROUGHLY COMPACTED BY TAMPING, VIBRATION OR OTHER MEANS APPROVED BY THE SUPERINTENDENT. THE CONCRETE SHALL BE SPRAYED WITH AN APPROVED CURING MEMBRANE SUCH AS CONCURE WB, IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION.

6. CONCRETE JOINTING

6.1 THE JOINTS IN THE NEW WORK SHALL COINCIDE WITH THOSE IN ABUTTING CONCRETE PAVING, OR OTHER JOINTED WORK, WHICH IS EITHER EXISTING OR PROPOSED. IF THE SPACING OF THE JOINTS IN EXISTING OR PROPOSED WORK IS VERY MUCH GREATER THAN THAT SPECIFIED FOR THE NEW WORK THEN ONE OR MORE EQUALLY SPACED JOINTS SHALL BE MADE IN THE NEW WORK BETWEEN EXISTING OR PROPOSED JOINTS SUCH THAT THE SPECIFIED SPACING WILL BE RETAINED AS NEATLY AS POSSIBLE.

6.2 2N/2 DIAGONAL CORNER BARS 1200 LONG ARE REQUIRED AT ALL RE-ENTRANT CORNERS OF OPENINGS IN FOOTPATHS.

6.3 EDGINGS
WHEN USING AN EXTRUSION MACHINE THE JOINTS SHALL BE MADE BY A METHOD APPROVED BY THE SUPERINTENDENT. WHEN USING FORMWORK, THEY SHALL CONSIST OF 3mm THICK STEEL PLATE PROFILED TO MATCH THE ITEM BEING CONSTRUCTED AND SHALL

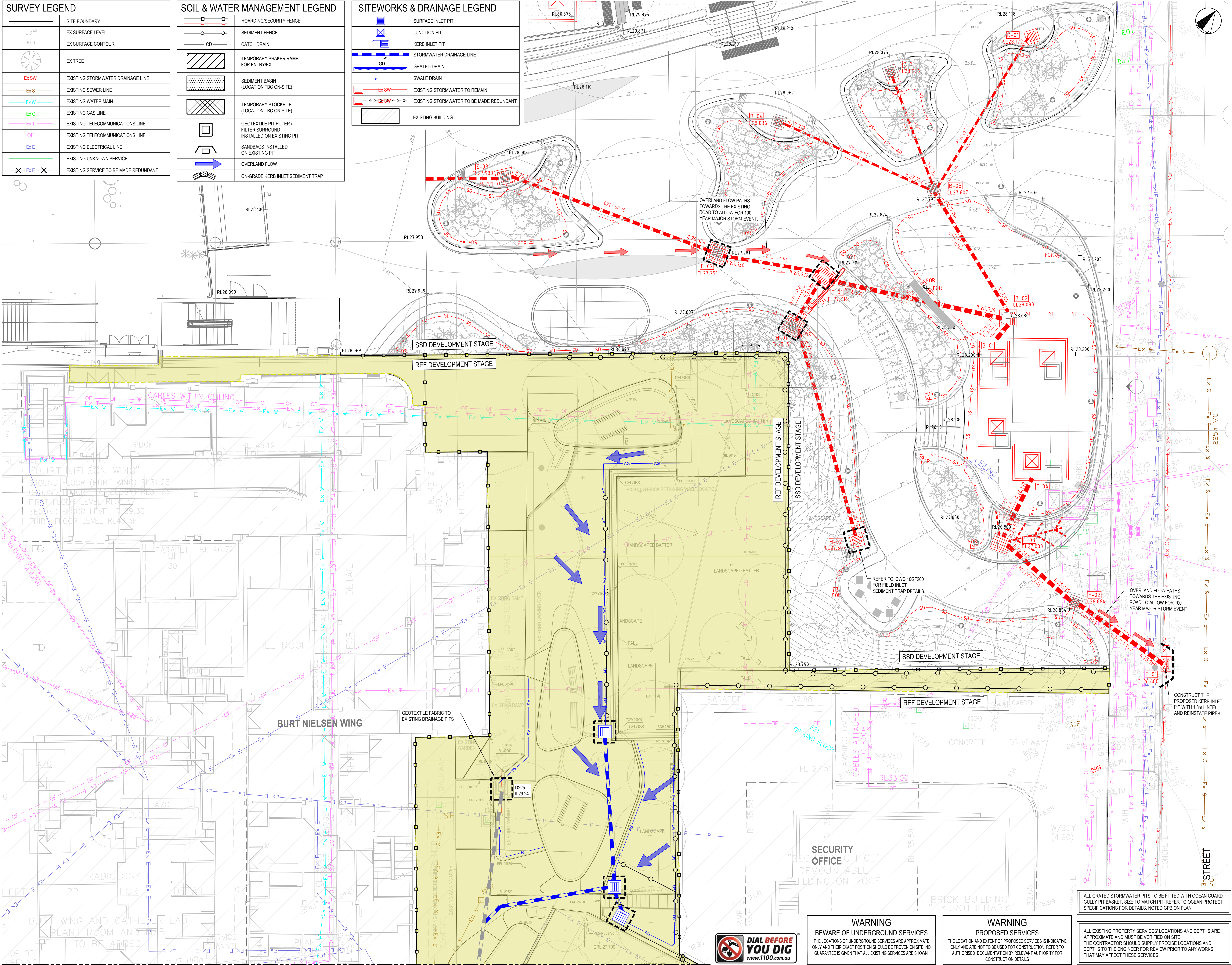
HAVE AN AREA NOT LESS THAN 75% OF THE SECTION BEING CONSTRUCTED, AS SOON AS IT IS PRACTICABLE AFTER THE FINISHING OF ANY WORK, THE TEMPLATES SHALL BE REMOVED AND THE RESULTANT GAP FINISHED WITH A GROOVING TOOL, TO A DEPTH OF NOT LESS THAN 25mm TO PRODUCE A NEAT GROOVE WITH ROUNDED EDGES. JOINTS SHALL BE AT REGULAR INTERVALS AND THE SPACING BETWEEN JOINTS SHALL NOT EXCEED 3 METRES WITHOUT THE APPROVAL OF THE SUPERINTENDENT.

6.4 PROVIDE EXPANSION JOINTS AT 30m MAXIMUM CENTRES AND OR COINCIDE WITH THE JOINT SPACING IN THE ADJACENT ROADS OR FOOTPATHS. EXPANSION JOINTS SHALL ALSO BE PLACED AT EACH T

SURVEY LEGEND	
	SITE BOUNDARY
	EX SURFACE LEVEL
	EX SURFACE CONTOUR
	EX TREE
	EXISTING STORMWATER DRAINAGE LINE
	EXISTING SEWER LINE
	EXISTING WATER MAIN
	EXISTING GAS LINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING ELECTRICAL LINE
	EXISTING UNKNOWN SERVICE
	EXISTING SERVICE TO BE MADE REDUNDANT

SOIL & WATER MANAGEMENT LEGEND	
	HOARDING/SECURITY FENCE
	SEDIMENT FENCE
	CATCH DRAIN
	TEMPORARY SHAKER RAMP FOR ENTRY/EXIT
	SEDIMENT BASIN (LOCATION TBC ON-SITE)
	TEMPORARY STOCKPILE (LOCATION TBC ON-SITE)
	GEOTEXTILE PIT FILTER / FILTER SURROUND INSTALLED ON EXISTING PIT
	SANDBAGS INSTALLED ON EXISTING PIT
	OVERLAND FLOW
	ON-GRADE KERB INLET SEDIMENT TRAP

SITeworks & DRAINAGE LEGEND	
	SURFACE INLET PIT
	JUNCTION PIT
	KERB INLET PIT
	STORMWATER DRAINAGE LINE
	GRATED DRAIN
	SWALE DRAIN
	EXISTING STORMWATER TO REMAIN
	EXISTING STORMWATER TO BE MADE REDUNDANT
	EXISTING BUILDING

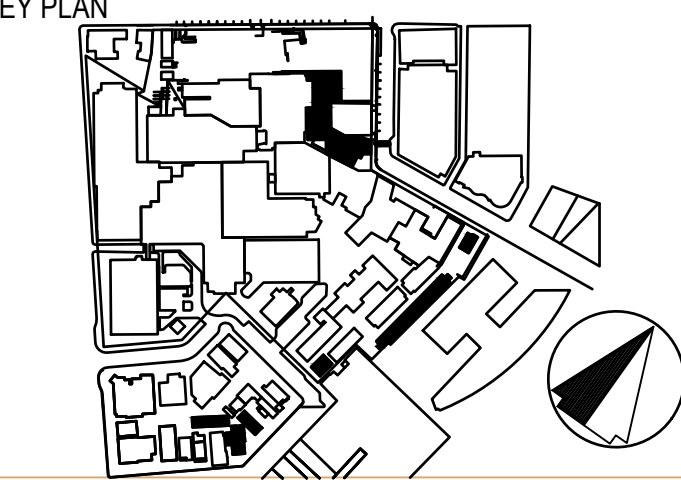


WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.

WARNING
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.



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SERVICE PROVIDER
MEIN-HARDT
Meinhardt NSW Pty Ltd
A.C.N. 951 927 991
Level 4, 65 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9699 7518
info@meinhardtgroup.com
http://www.meinhardtgroup.com
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PROJECT
ST. GEORGE HOSPITAL -
REFURBISHMENT
KOGARAH, NSW 2217
PROJECT NO.
130507

DRAWING TITLE
SEDIMENT AND EROSION CONTROL PLAN
LANDSCAPE AREA - SHEET 1

STATUS
PRELIMINARY

DRAWN JG	DESIGNED AM
CHECKED BK	APPROVED BL

SCALE @ B1
1:100

DRAWING NO.
REFB3-CI-DG-10GF060

REVISION
P2

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WARNING
PROPOSED SERVICES
THE LOCATION AND EXTENT OF PROPOSED SERVICES IS INDICATIVE ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION. REFER TO AUTHORISED DOCUMENTATION BY RELEVANT AUTHORITY FOR CONSTRUCTION DETAILS.

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE.
THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

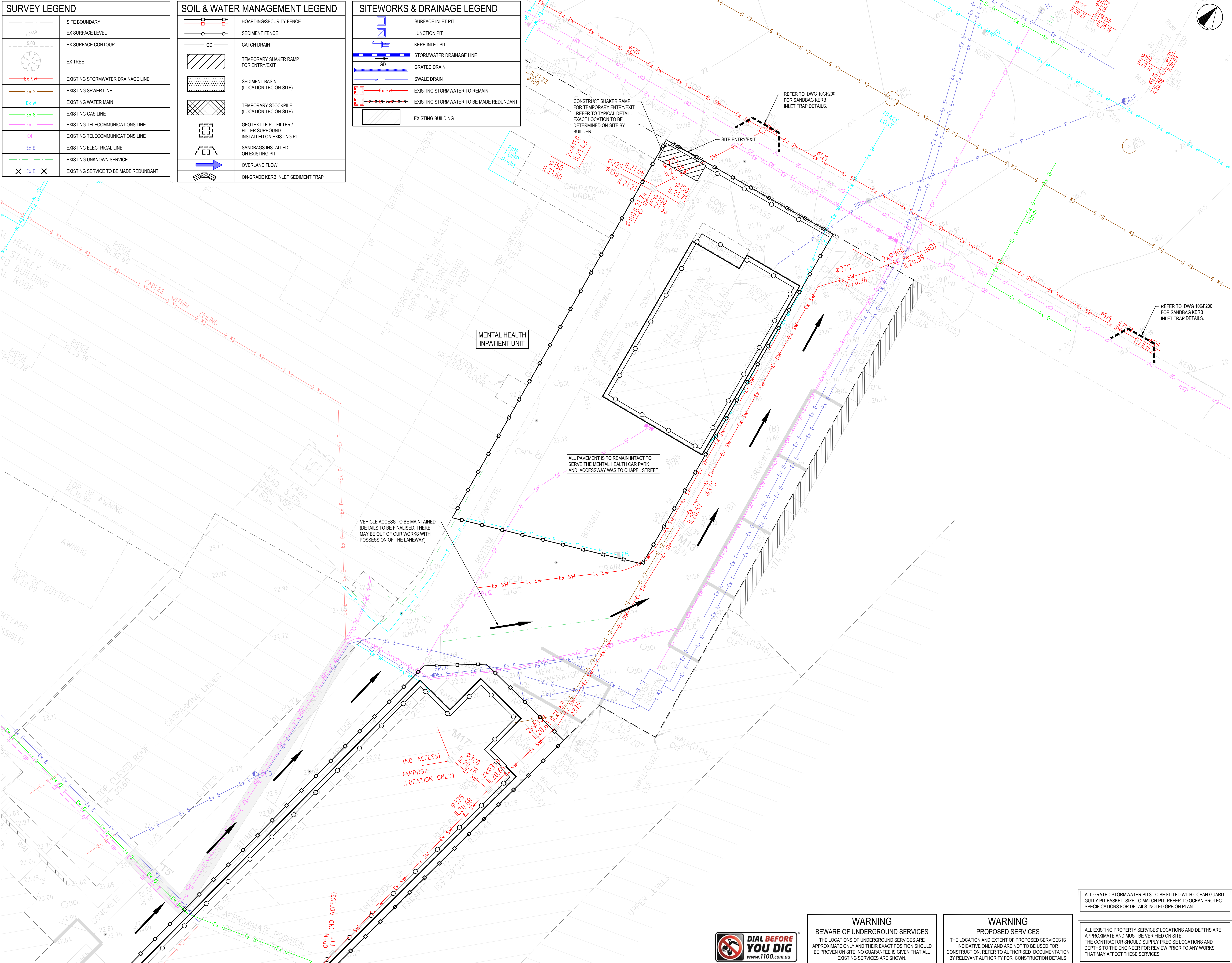


FOR CONTINUATION REFER TO DRAWING REFB3-CI-DG-10GF061

SURVEY LEGEND	
	SITE BOUNDARY
	EX SURFACE LEVEL
	EX SURFACE CONTOUR
	EX TREE
	EXISTING STORMWATER DRAINAGE LINE
	EXISTING SEWER LINE
	EXISTING WATER MAIN
	EXISTING GAS LINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING ELECTRICAL LINE
	EXISTING UNKNOWN SERVICE
	EXISTING SERVICE TO BE MADE REDUNDANT

SOIL & WATER MANAGEMENT LEGEND	
	HOARDING/SECURITY FENCE
	SEDIMENT FENCE
	CATCH DRAIN
	TEMPORARY SHAKER RAMP FOR ENTRY/EXIT
	SEDIMENT BASIN (LOCATION TBC ON-SITE)
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SITeworks & DRAINAGE LEGEND	
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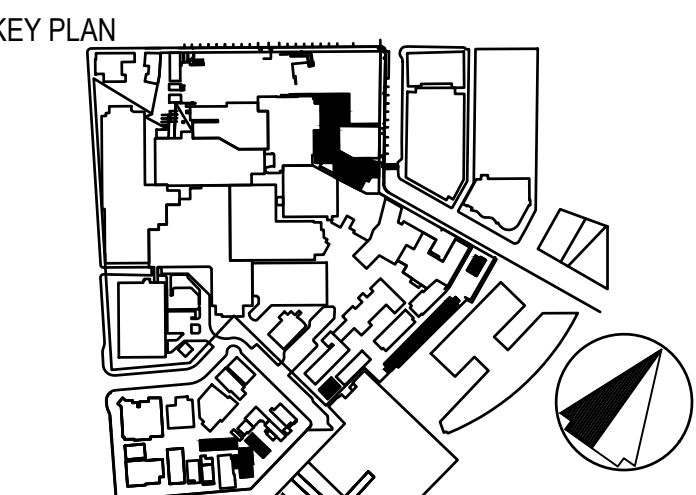
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P1	15.11.24	ISSUE FOR REF
AMENDMENT		

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SERVICE PROVIDER
MEIN-HARDT
Mainhardt NSW Pty Ltd
A.C.N. 951 927 951
Level 4, 65 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9315 7318
info@meinhardtgroup.com
http://www.meinhardtgroup.com
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PROJECT
ST. GEORGE HOSPITAL - REFURBISHMENT
KOGARAH, NSW 2217
PROJECT NO.
130507

DRAWING TITLE
SEDIMENT AND EROSION CONTROL PLAN
DEMOLITION SITES - SHEET 1

STATUS
PRELIMINARY

DRAWN JG	DESIGNED AM
CHECKED BK	APPROVED BL

SCALE @ B1
1:100

DRAWING NO.
REFB3-CI-DG-10GF070

REVISION
P2



WARNING
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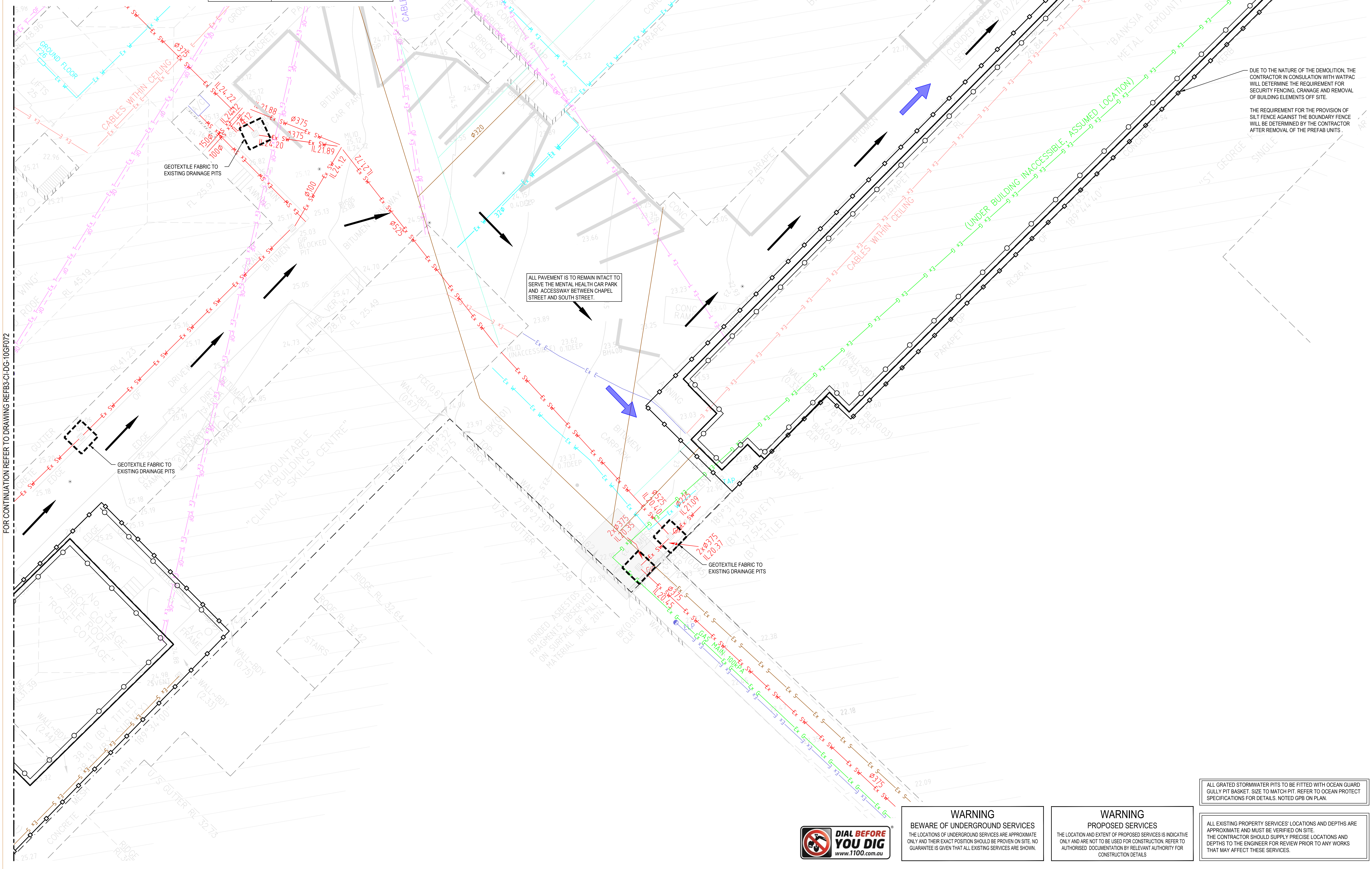
WARNING
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ALL GRATED STORMWATER PITS TO BE FITTED WITH OCEAN GUARD GULLY PIT BASKET. SIZE TO MATCH PIT. REFER TO OCEAN PROTECT SPECIFICATIONS FOR DETAILS. NOTED GPB ON PLAN.

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

FOR CONTINUATION REFER TO DRAWING REFB3-CI-DG-10GF071

SITEWORKS & DRAINAGE LEGEND	
	SURFACE INLET PIT
	JUNCTION PIT
	KERB INLET PIT
	STORMWATER DRAINAGE LINE
	GRATED DRAIN
	SWALE DRAIN
	EXISTING STORMWATER TO REMAIN
	EXISTING STORMWATER TO BE MADE REDUNDANT
	EXISTING BUILDING



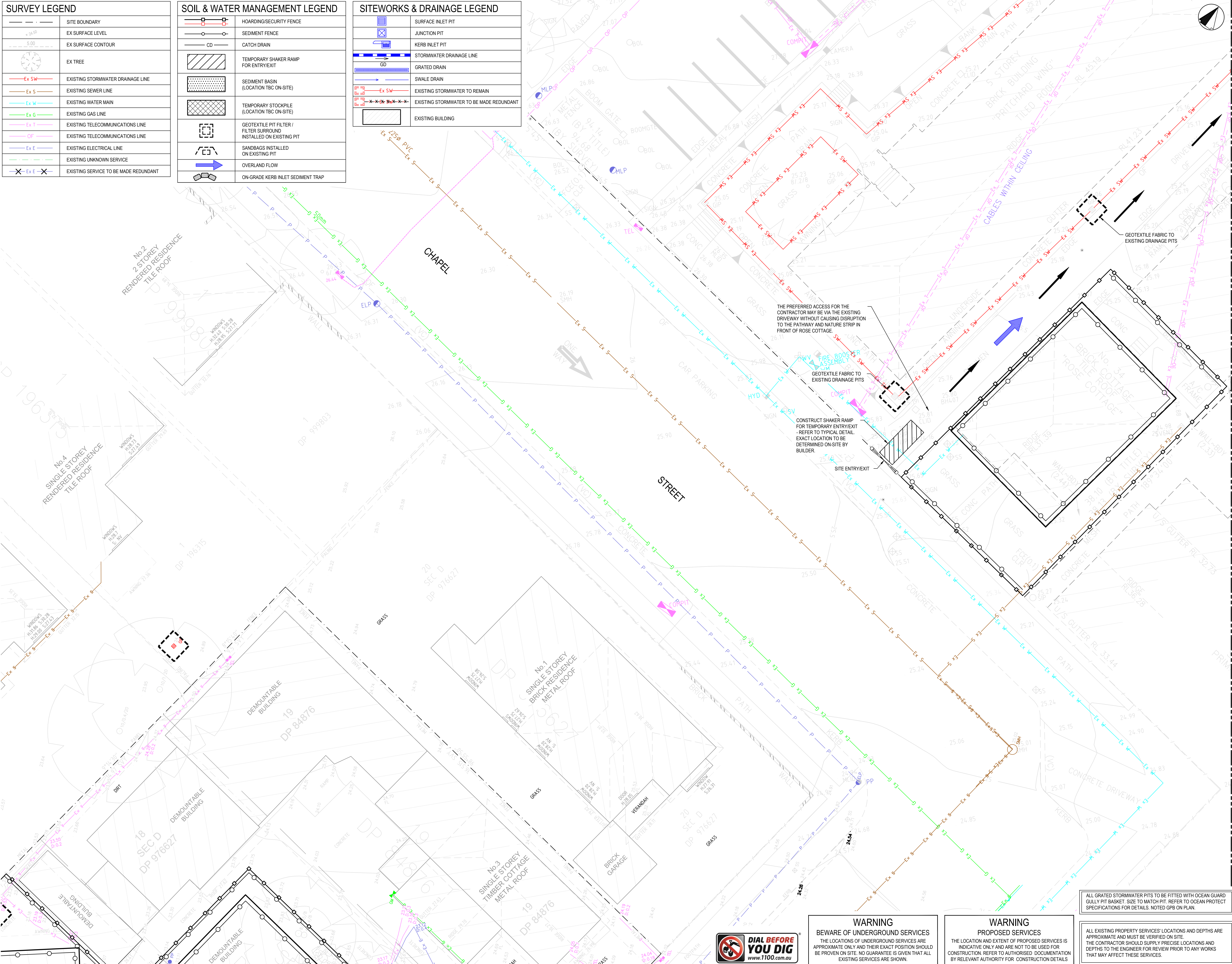
REVISION



SURVEY LEGEND	
	SITE BOUNDARY
	EX SURFACE LEVEL
	EX SURFACE CONTOUR
	EX TREE
	EXISTING STORMWATER DRAINAGE LINE
	EXISTING SEWER LINE
	EXISTING WATER MAIN
	EXISTING GAS LINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING ELECTRICAL LINE
	EXISTING UNKNOWN SERVICE
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SOIL & WATER MANAGEMENT LEGEND	
	HOARDING/SECURITY FENCE
	SEDIMENT FENCE
	CATCH DRAIN
	TEMPORARY SHAKER RAMP FOR ENTRY/EXIT
	SEDIMENT BASIN (LOCATION TBC ON-SITE)
	TEMPORARY STOCKPILE (LOCATION TBC ON-SITE)
	GEOTEXTILE PIT FILTER / FILTER SURROUND INSTALLED ON EXISTING PIT
	SANDBAGS INSTALLED ON EXISTING PIT
	OVERLAND FLOW
	ON-GRADE KERB INLET SEDIMENT TRAP

SITEWORKS & DRAINAGE LEGEND	
	SURFACE INLET PIT
	JUNCTION PIT
	KERB INLET PIT
	STORMWATER DRAINAGE LINE
	GRATED DRAIN
	SWALE DRAIN
	EXISTING STORMWATER TO REMAIN
	EXISTING STORMWATER TO BE MADE REDUNDANT
	EXISTING BUILDING



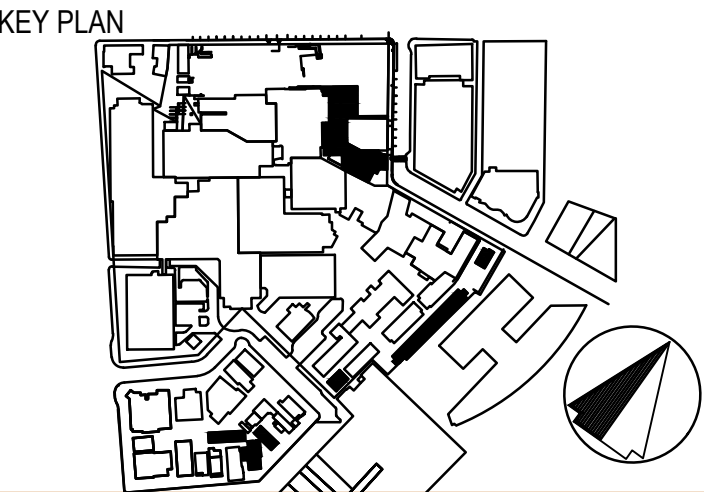
P3	06.12.24	ISSUE FOR REF
P2	26.11.24	ISSUE FOR REF
P1	15.11.24	ISSUE FOR REF

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.

WARNING
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.



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SERVICE PROVIDER
MEIN-HARDT
Meinhardt (NSW) Pty Ltd
A.C.N. 951 927 991
Level 4, 65 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9315 7318
info@meinhardtgroup.com
http://www.meinhardtgroup.com
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PROJECT
ST. GEORGE HOSPITAL -
REFURBISHMENT
KOGARAH, NSW 2217
PROJECT NO.
130507

DRAWING TITLE
SEDIMENT AND EROSION CONTROL PLAN
DEMOLITION SITES - SHEET 3

STATUS
PRELIMINARY

DRAWN JG	DESIGNED AM
CHECKED BK	APPROVED BL

SCALE @ B1
1:100

DRAWING NO.
REFB3-CI-DG-10GF072

REVISION
P3



WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

WARNING
PROPOSED SERVICES
THE LOCATION AND EXTENT OF PROPOSED SERVICES IS INDICATIVE ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION. REFER TO AUTHORISED DOCUMENTATION BY RELEVANT AUTHORITY FOR CONSTRUCTION DETAILS

ALL GRATED STORMWATER PITS TO BE FITTED WITH OCEAN GUARD GULLY PIT BASKET. SIZE TO MATCH PIT. REFER TO OCEAN PROTECT SPECIFICATIONS FOR DETAILS. NOTED GPB ON PLAN.

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

FOR CONTINUATION REFER TO DRAWING REFB3-CI-DG-10GF073

SURVEY LEGEND

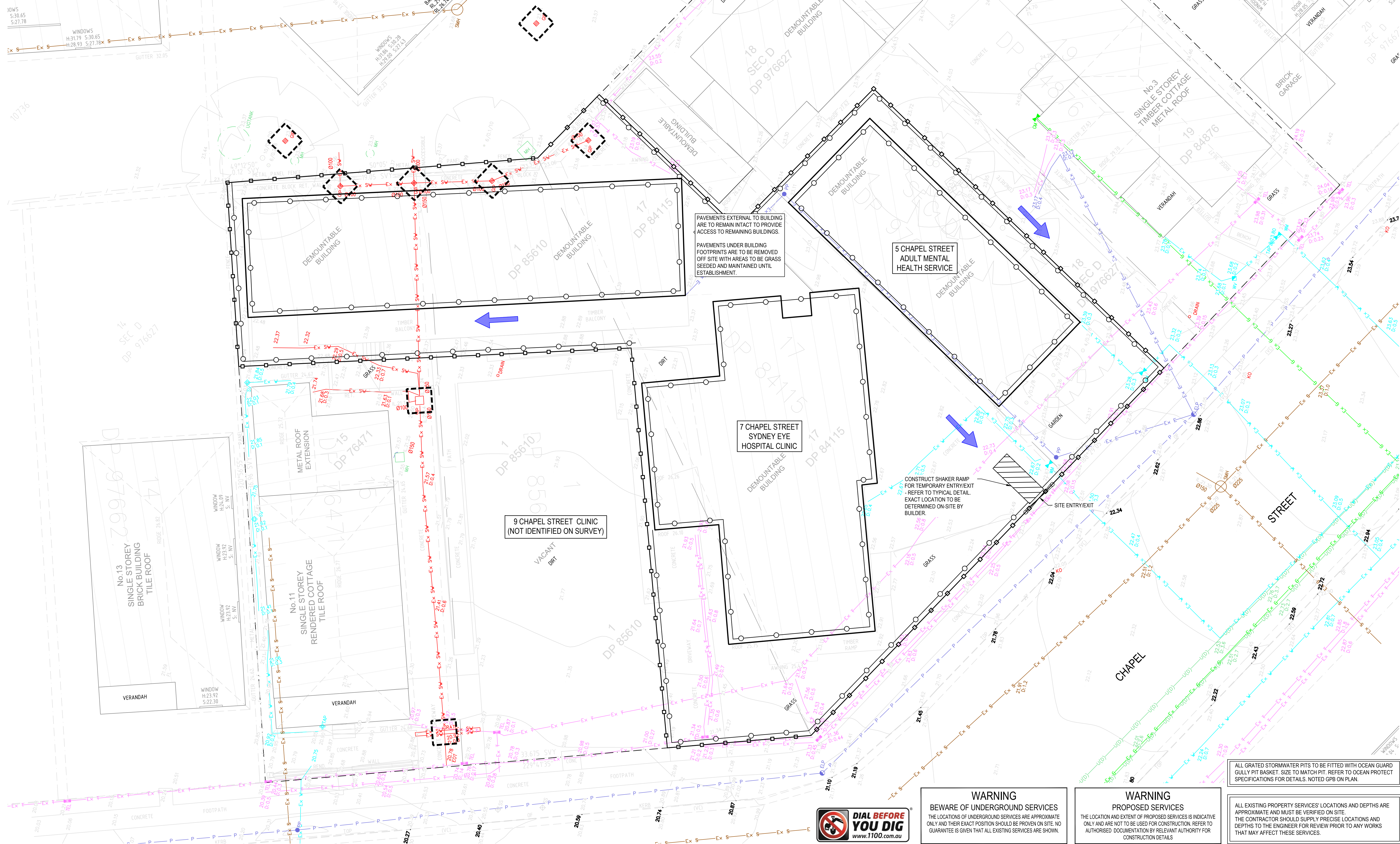
	SITE BOUNDARY
	EX SURFACE LEVEL
	EX SURFACE CONTOUR
	EX TREE
	EXISTING STORMWATER DRAINAGE LINE
	EXISTING SEWER LINE
	EXISTING WATER MAIN
	EXISTING GAS LINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING ELECTRICAL LINE
	EXISTING UNKNOWN SERVICE
	EXISTING SERVICE TO BE MADE REDUNDANT

SOIL & WATER MANAGEMENT LEGEND

	HOARDING/SECURITY FENCE
	SEDIMENT FENCE
	CATCH DRAIN
	TEMPORARY SHAKER RAMP FOR ENTRY/EXIT
	SEDIMENT BASIN (LOCATION TBC ON-SITE)
	TEMPORARY STOCKPILE (LOCATION TBC ON-SITE)
	GEOTEXTILE PIT FILTER / FILTER SURROUND INSTALLED ON EXISTING PIT
	SANDBAGS INSTALLED ON EXISTING PIT
	OVERLAND FLOW
	ON-GRADE KERB INLET SEDIMENT TRAP

SITEWORKS & DRAINAGE LEGEND

	SURFACE INLET PIT
	JUNCTION PIT
	KERB INLET PIT
	STORMWATER DRAINAGE LINE
	GRATED DRAIN
	SWALE DRAIN
	EXISTING STORMWATER TO REMAIN
	EXISTING STORMWATER TO BE MADE REDUNDANT
	EXISTING BUILDING

STOREY
RESIDENTIAL
BUILDING
_E ROOF

PAVEMENTS EXTERNAL TO BUILDING ARE TO REMAIN INTACT TO PROVIDE ACCESS TO REMAINING BUILDINGS.

PAVEMENTS UNDER BUILDING FOOTPRINTS ARE TO BE REMOVED OFF SITE WITH AREAS TO BE GRASS SEEDING AND MAINTAINED UNTIL ESTABLISHMENT.

5 CHAPEL STREET
ADULT MENTAL
HEALTH SERVICE7 CHAPEL STREET
SYDNEY EYE
HOSPITAL CLINIC9 CHAPEL STREET CLINIC
(NOT IDENTIFIED ON SURVEY)CONSTRUCT SHAKER RAMP
FOR TEMPORARY ENTRY/EXIT
- REFER TO TYPICAL DETAIL
EXACT LOCATION TO BE
DETERMINED ON-SITE BY
BUILDER.

SITE ENTRY/EXIT

WARNING

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WARNING

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ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.

WARNING

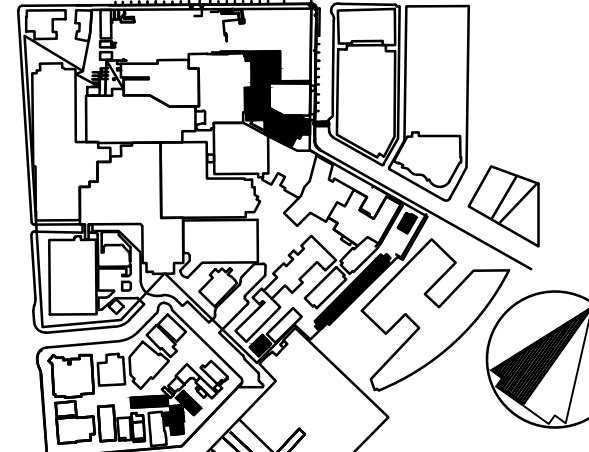
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.



The Essential First Step

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KEY PLAN



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SERVICE PROVIDER



Mainhardt (NSW) Pty Ltd

A.C.N. 951 927 951

Level 4, 65 Clarence Street

Sydney NSW 2000

Australia

T: +61 2 9699 3088

F: +61 2 9315 7518

info@meinhardtgroup.com

http://www.meinhardtgroup.com

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PROJECT

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REFURBISHMENT

KOGARAH, NSW 2217

PROJECT NO.

130507

DRAWING TITLE

SEDIMENT AND EROSION CONTROL PLAN

DEMOLITION SITES - SHEET 4

STATUS

PRELIMINARY

DRAWN

JG

DESIGNED

AM

CHECKED

BK

APPROVED

BL

SCALE @ B1

1:100



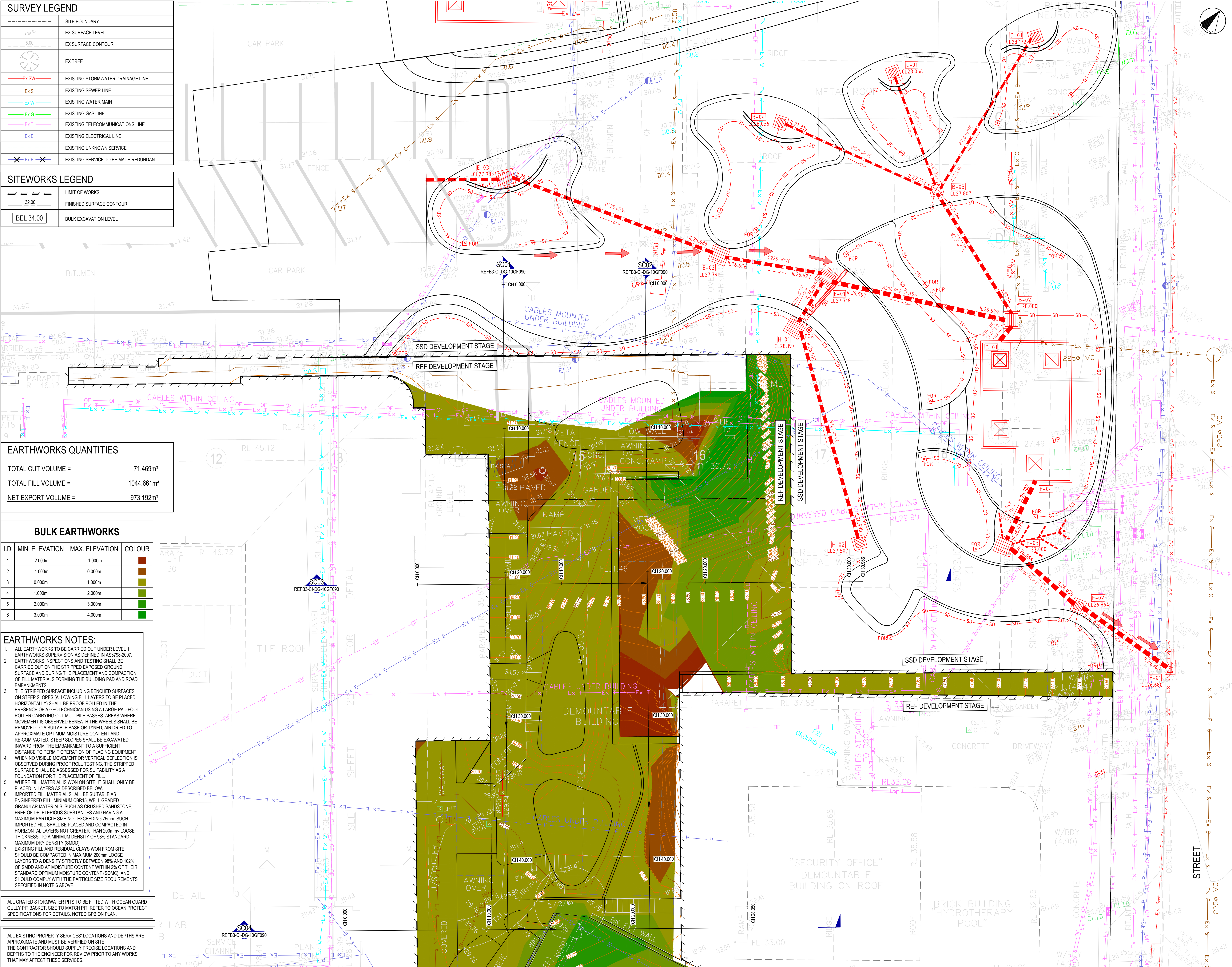
DRAWING NO.

REFB3-CI-DG-10GF073

REVISION

P3

SURVEY LEGEND	
	SITE BOUNDARY
	EX SURFACE LEVEL
	EX SURFACE CONTOUR
	EX TREE
	EXISTING STORMWATER DRAINAGE LINE
	EXISTING SEWER LINE
	EXISTING WATER MAIN
	EXISTING GAS LINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING ELECTRICAL LINE
	EXISTING UNKNOWN SERVICE
	EXISTING SERVICE TO BE MADE REDUNDANT
SITEWORKS LEGEND	
	LIMIT OF WORKS
	FINISHED SURFACE CONTOUR
	BULK EXCAVATION LEVEL



EARTHWORKS QUANTITIES	
TOTAL CUT VOLUME =	71.469m³
TOTAL FILL VOLUME =	1044.661m³
NET EXPORT VOLUME =	973.192m³

BULK EARTHWORKS			
I.D	MIN. ELEVATION	MAX. ELEVATION	COLOUR
1	-2.000m	-1.000m	
2	-1.000m	0.000m	
3	0.000m	1.000m	
4	1.000m	2.000m	
5	2.000m	3.000m	
6	3.000m	4.000m	

- EARTHWORKS NOTES:**
- ALL EARTHWORKS TO BE CARRIED OUT UNDER LEVEL 1 EARTHWORKS SUPERVISION AS DEFINED IN AS3798:2007.
 - EARTHWORKS INSPECTIONS AND TESTING SHALL BE CARRIED OUT ON THE STRIPPED EXPOSED GROUND SURFACE AND DURING THE PLACEMENT AND COMPACTION OF FILL MATERIALS FORMING THE BUILDING PAD AND ROAD EMBANKMENTS.
 - THE STRIPPED SURFACE INCLUDING BENCHED SURFACES ON STEEP SLOPES (ALLOWING FILL LAYERS TO BE PLACED HORIZONTALLY) SHALL BE PROOF ROLLED IN THE PRESENCE OF A GEOTECHNICIAN USING A LARGE PAD FOOT ROLLER CARRYING OUT MULTIPLE PASSES. AREAS WHERE MOVEMENT IS OBSERVED BENEATH THE WHEELS SHALL BE REMOVED TO A SUITABLE BASE OR TYRED, AIR DRIED TO APPROXIMATE OPTIMUM MOISTURE CONTENT AND RE-COMPACTED. STEEP SLOPES SHALL BE EXCAVATED INWARD FROM THE EMBANKMENT TO A SUFFICIENT DISTANCE TO PERMIT OPERATION OF PLACING EQUIPMENT.
 - WHEN NO VISIBLE MOVEMENT OR VERTICAL DEFLECTION IS OBSERVED DURING PROOF ROLL TESTING, THE STRIPPED SURFACE SHALL BE ASSESSED FOR SUITABILITY AS A FOUNDATION FOR THE PLACEMENT OF FILL.
 - WHERE FILL MATERIAL IS WON ON SITE, IT SHALL ONLY BE PLACED IN LAYERS AS DESCRIBED BELOW.
 - IMPORTED FILL MATERIAL SHALL BE SUITABLE AS ENGINEERED FILL, MINIMUM COR3, WELL GRADED GRANULAR MATERIALS, SUCH AS CRUSHED SANDSTONE, FREE OF DELETERIOUS SUBSTANCES AND HAVING A MAXIMUM PARTICLE SIZE NOT EXCEEDING 75mm. SUCH IMPORTED FILL SHALL BE PLACED AND COMPACTED IN HORIZONTAL LAYERS NOT GREATER THAN 200mm LOOSE THICKNESS, TO A MINIMUM DENSITY OF 98% STANDARD MAXIMUM DRY DENSITY (SMDD).
 - EXISTING FILL AND RESIDUAL CLAYS WON FROM SITE SHOULD BE COMPACTED IN MAXIMUM 200mm LOOSE LAYERS TO A DENSITY STRICTLY BETWEEN 98% AND 102% OF SMDD AND AT MOISTURE CONTENT WITHIN 2% OF THEIR STANDARD OPTIMUM MOISTURE CONTENT (SOMC), AND SHOULD COMPLY WITH THE PARTICLE SIZE REQUIREMENTS SPECIFIED IN NOTE 6 ABOVE.

ALL GRATED STORMWATER PITS TO BE FITTED WITH OCEAN GUARD GULLY PIT BASKET. SIZE TO MATCH PIT. REFER TO OCEAN PROTECT SPECIFICATIONS FOR DETAILS. NOTED GP8 ON PLAN.

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

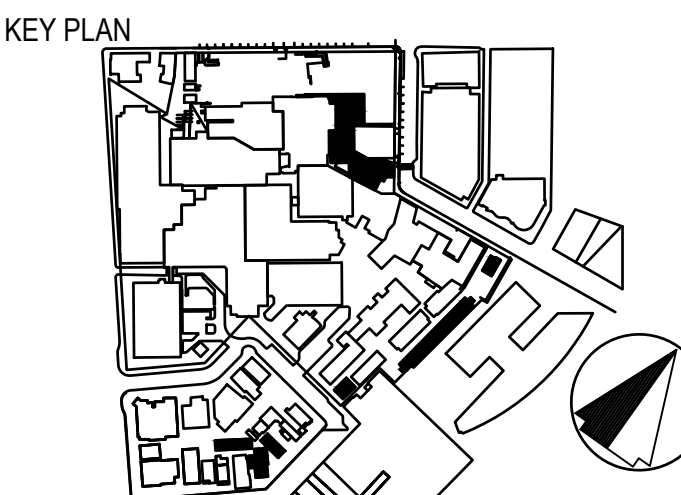
P2 26.11.24 ISSUE FOR REF
P1 15.11.24 ISSUE FOR REF

WARNING
BEWARE OF UNDERGROUND SERVICES
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WARNING
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.



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SERVICE PROVIDER
MEIN-HARDT
Meinhardt (NSW) Pty Ltd
AC/N: 951 927 991
Level 4, 65 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3988
F: +61 2 9699 7338
info@meinhardtgroup.com
http://www.meinhardtgroup.com
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PROJECT
ST. GEORGE HOSPITAL -
REFURBISHMENT
KOGARAH, NSW 2217
PROJECT NO.
130507

DRAWING TITLE
BULK EARTHWORKS PLAN
LANDSCAPE AREA - SHEET 1

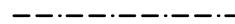
STATUS
PRELIMINARY

DRAWN JG	DESIGNED AM
CHECKED BK	APPROVED BL

SCALE @ B1
1:100

DRAWING NO.
REFB3-CI-DG-10GF080

REVISION
P2

SURVEY LEGEND	
	SITE BOUNDARY
	EX SURFACE LEVEL
	EX SURFACE CONTOUR
	EX TREE
	EXISTING STORMWATER DRAINAGE LINE
	EXISTING SEWER LINE
	EXISTING WATER MAIN
	EXISTING GAS LINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING ELECTRICAL LINE
	EXISTING UNKNOWN SERVICE
	EXISTING SERVICE TO BE MADE REDUNDANT

SITEWORKS LEGEND	
	LIMIT OF WORKS
	FINISHED SURFACE CONTOUR
	BULK EXCAVATION LEVEL

EARTHWORKS QUANTITIES	
TOTAL CUT VOLUME =	71.469m³
TOTAL FILL VOLUME =	1044.661m³
NET EXPORT VOLUME =	973.192m³

BULK EARTHWORKS			
I.D	MIN. ELEVATION	MAX. ELEVATION	COLOUR
1	-2.000m	-1.000m	
2	-1.000m	0.000m	
3	0.000m	1.000m	
4	1.000m	2.000m	
5	2.000m	3.000m	
6	3.000m	4.000m	

EARTHWORKS NOTES:

1. ALL EARTHWORKS TO BE CARRIED OUT UNDER LEVEL 1 EARTHWORKS SUPERVISION AS DEFINED IN AS3798-2007.
2. EARTHWORKS INSPECTION SHALL BE CARRIED OUT BY THE SUPERVISOR CARRIED OUT ON THE STRIPPED EXPOSED ROAD SURFACE AND DURING THE PLACEMENT AND COMPACTION OF FILL MATERIALS FORMING THE BUILDING PAD AND ROAD EMBANKMENTS.
3. THE EXISTING SURFACE INCLUDING BENCHED SURFACES ON STEEP SLOPES (ALLOWING FILL LAYERS TO BE PLACED HORIZONTALLY) SHALL BE PROOF ROLLED IN THE PRESENCE OF A GEOTECHNICIAN USING A LARGE PAD FOOT ROLLER CARRYING OUT MULTIPLE PASSES. AREAS WHERE MOISTURE IS OBSERVED TO BE LOW SHALL BE SPRAYED AND BE REMOVED TO A SUITABLE BASE OR TYPED, AIR DRIED TO APPROXIMATE OPTIMUM MOISTURE CONTENT AND RE-COMPACTED. STEEP SLOPES SHALL BE EXCAVATED INWARD FROM THE EMBANKMENT TO A SUFFICIENT DEPTH TO PERMIT THE USE OF PLACING EQUIPMENT.
4. WHEN NO VISIBLE MOVEMENT OR VERTICAL DEFLECTION IS OBSERVED DURING PROOF ROLL TESTING, THE STRIPPED SURFACE SHALL BE ASSESSED FOR SUITABILITY AS A FOUNDATION FOR THE PLACEMENT OF FILL.
5. WATER-BOUND MATERIALS IS WON OFF SITE SHALL ONLY BE PLACED IN LAYERS AS DESCRIBED BELOW.
6. IMPORTED FILL MATERIAL SHALL BE SUITABLE AS ENGINEERED FILL, MINIMUM CBR15, WELL GRADED GRANULAR MATERIALS, SUCH AS CRUSHED SANDSTONE, STONE OR GELTERITE. THE MAXIMUM PARTICLE SIZE SHALL NOT EXCEEDING 75mm. SUCH IMPORTED FILL SHALL BE PLACED AND COMPACTED IN HORIZONTAL LAYERS NOT GREATER THAN 200mm+ LOOSE THICKNESS, TO A MINIMUM DENSITY OF 98% STANDARD PROCTOR DENSITY.
7. EXISTING FILL AND RESIDUAL CLAYS WON FROM SITE SHOULD BE COMPACTED IN MAXIMUM 200mm LOOSE LAYERS TO A DENSITY STRICTLY BETWEEN 98% AND 102% OF SMD AND AT MOISTURE CONTENT WITHIN 10% OF THEIR MAXIMUM OPTIMUM MOISTURE CONTENT. SMD, AND SHOULD COMPLY WITH THE PARTICLE SIZE REQUIREMENTS SPECIFIED IN NOTE 6 ABOVE.

ALL GRATED STORMWATER PITS TO BE FITTED WITH OCEAN GUARD
GULLY PIT BASKET. SIZE TO MATCH PIT. REFER TO OCEAN PROTECT
SPECIFICATIONS FOR DETAILS. NOTED GPB ON PLAN.

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

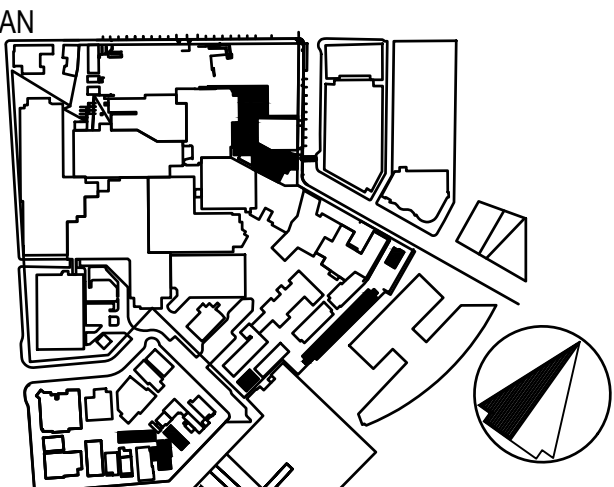
P1	26.11.24	ISSUE FOR REF
REV	DATE	AMENDMENT

WARNING
BEWARE OF UNDERGROUND SERVICES
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WARNING
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CONFIRMS THE I.L. OF ALL EXISTING
DRAINS, AND CONFIRMS IN WRITING
WITH THE ENGINEERING SUPERVISOR.



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CLIENT



SERVICE PROVIDER



Meinhardt (NSW) Pty Ltd
A.C.N. 051 627 591
Level 4, 66 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3068
F: +61 2 9319 7518
info@meinhardtgroup.com
<http://www.meinhardtgroup.com>
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PROJECT
ST. GEORGE HOSPITAL -
REFURBISHMENT
KOGARAH, NSW 2217
PROJECT NO.
130507

DRAWING TITLE
**BULK EARTHWORKS PLAN
LANDSCAPE AREA - SHEET 2**

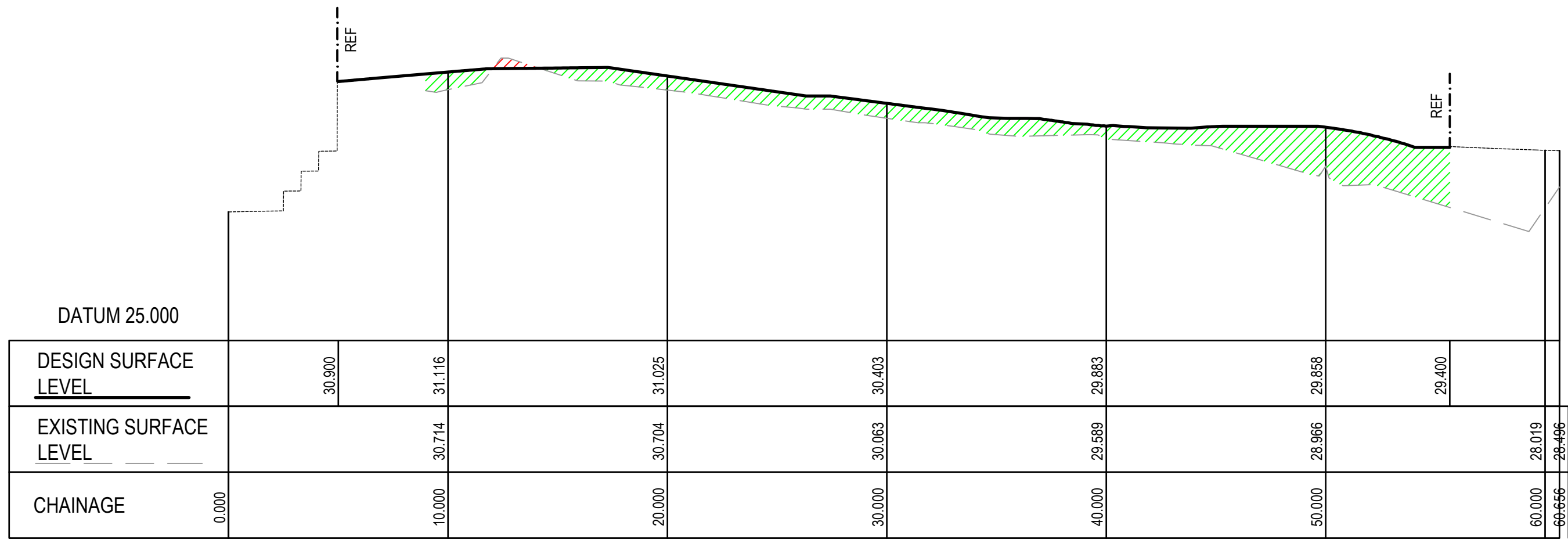
STATUS
PRELIMINARY

DRAWN JG	DESIGNED AM
CHECKED BK	APPROVED BL

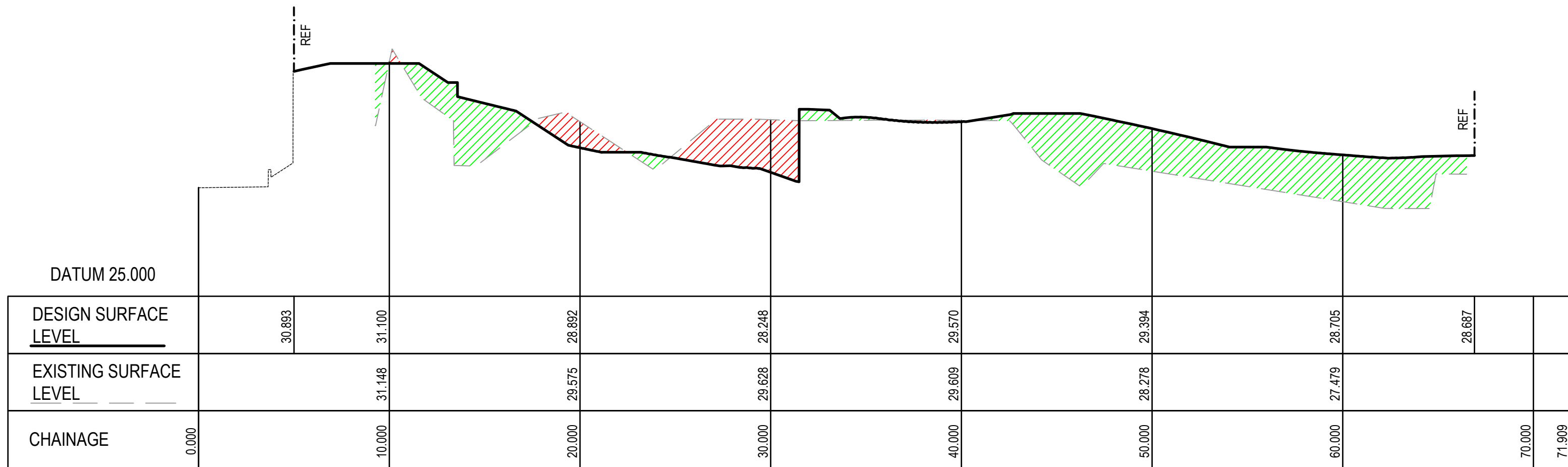
SCALE @ B1
1:100

A horizontal graphic scale bar with tick marks at 0m, 1m, 2m, 4m, and 6m. The bar is divided into segments of 1m, 1m, 1m, 2m, and 1m respectively.

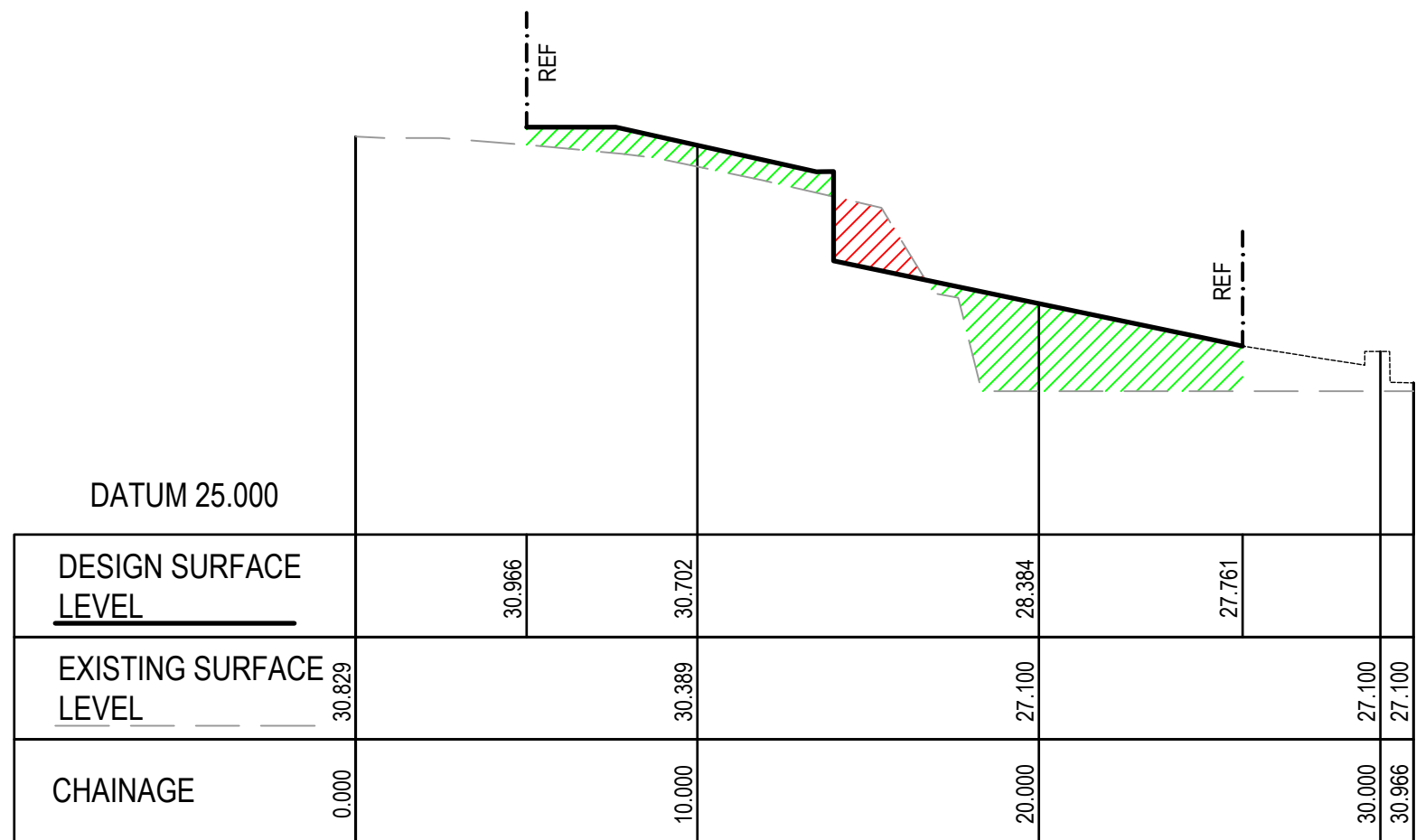
DRAWING NO. REVISION
REFB3-CI-DG-10GF081 **P1**



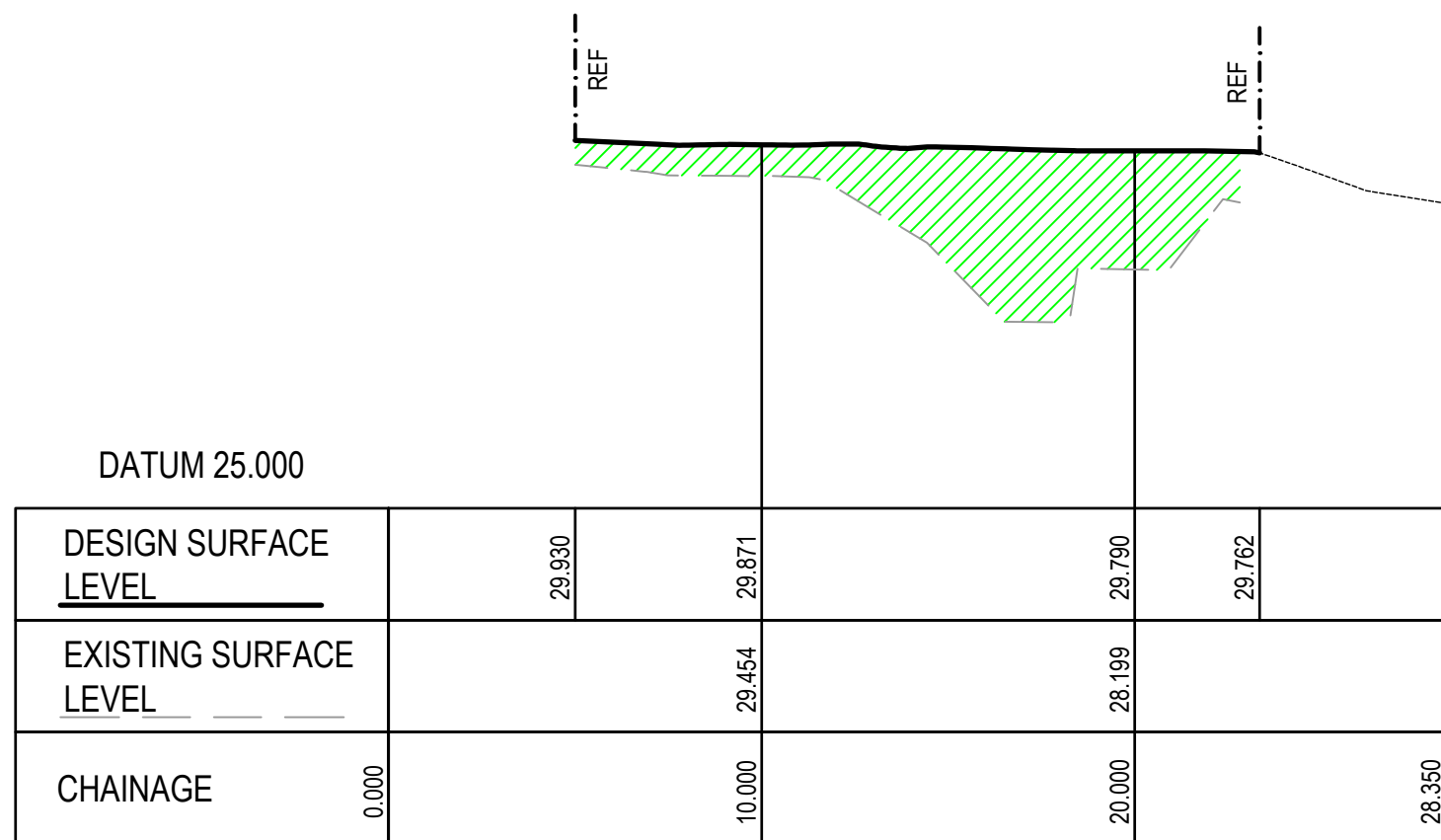
SECTION SC01
1:200 (H) REF B3-CI-DG-10GF080
1:100 (V)



SECTION SC02
1:200 (H) REF B3-CI-DG-10GF080
1:100 (V)



SECTION SC03
1:200 (H) REF B3-CI-DG-10GF080
1:100 (V)



SECTION SC04
1:200 (H) REF B3-CI-DG-10GF080
1:100 (V)

LEGEND	
	FILL FROM STRIPPING SURFACE TO BULK EARTHWORKS SURFACE
	OUT FROM STRIPPING SURFACE TO BULK EARTHWORKS SURFACE

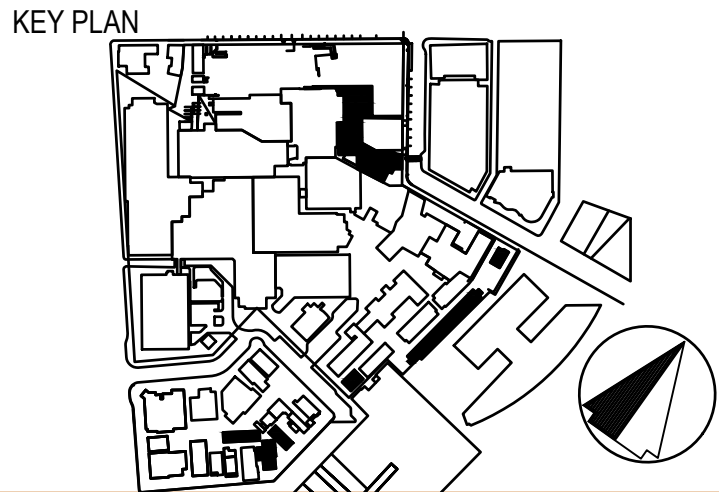
P2 26.11.24 ISSUE FOR REF
P1 15.11.24 ISSUE FOR REF
REV AMENDMENT

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DRAWING TO BE PRINTED IN COLOUR



SERVICE PROVIDER
MEIN-HARDT
Meinhardt (NSW) Pty Ltd
A.C.N. 951 927 931
Level 4, 65 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9669 3368
F: +61 2 9315 7318
info@meinhardtgroup.com
http://www.meinhardtgroup.com
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KOGARAH, NSW 2217
PROJECT NO.
130507

DRAWING TITLE
BULK EARTHWORKS SITE SECTIONS LANDSCAPE AREA

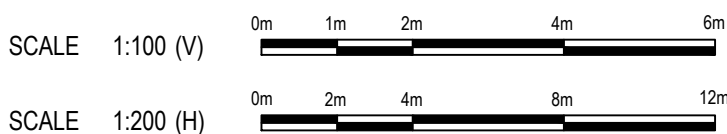
STATUS
PRELIMINARY

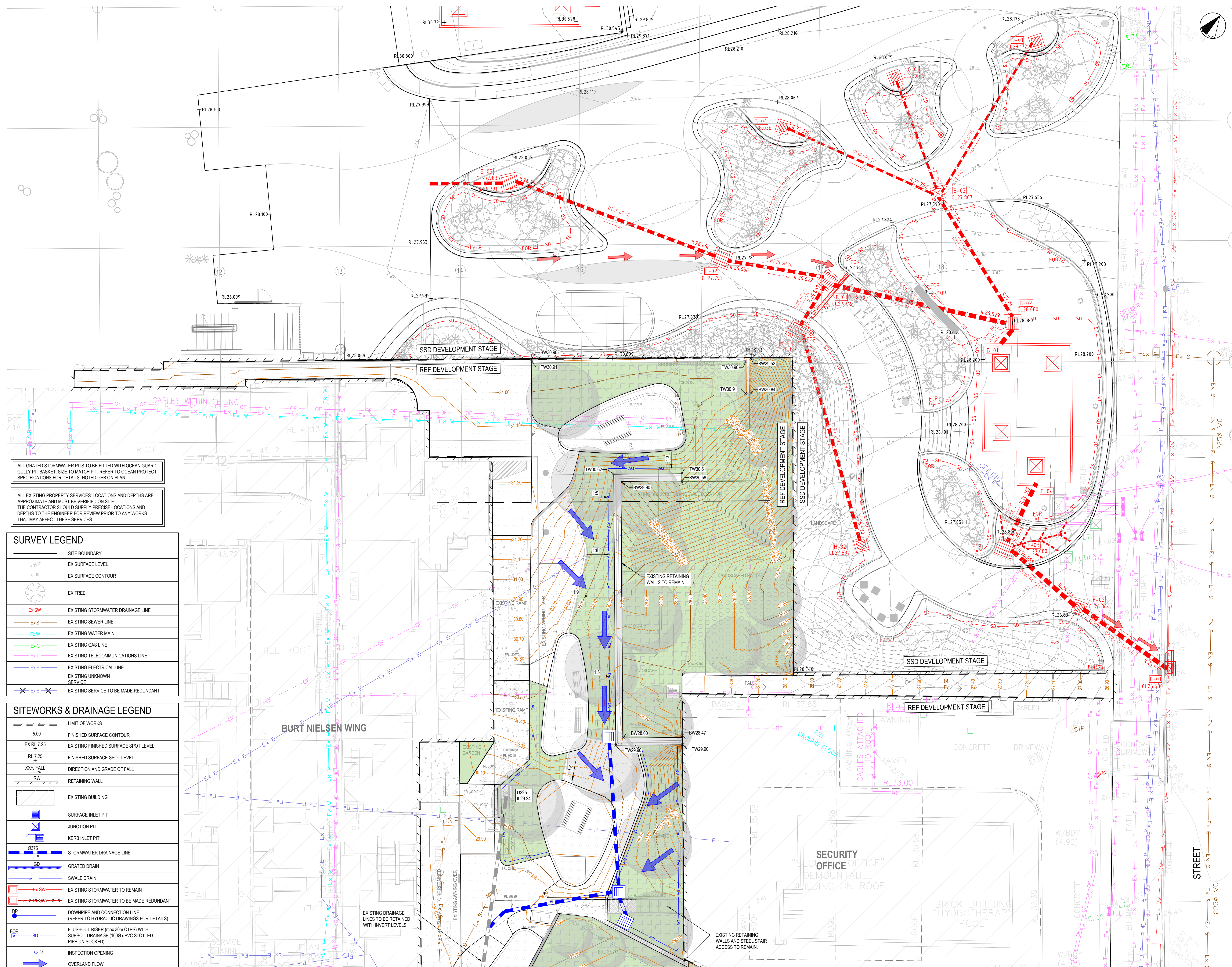
DRAWN
JG
DESIGNED
AM

CHECKED
BK
APPROVED
BL

SCALE @ B1
AS SHOWN

DRAWING NO.
REFB3-CI-DG-10GF090
REVISION
P2





ALL GRATED STORMWATER PITS TO BE FITTED WITH OCEAN GUARD GULLY PIT BASKET. SIZE TO MATCH PIT. REFER TO OCEAN PROTECT SPECIFICATIONS FOR DETAILS. NOTED GFB ON PLAN.

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SURVEY LEGEND	
	SITE BOUNDARY
	EX SURFACE LEVEL
	EX SURFACE CONTOUR
	EX TREE
	EXISTING STORMWATER DRAINAGE LINE
	EXISTING SEWER LINE
	EXISTING WATER MAIN
	EXISTING GAS LINE
	EXISTING TELECOMMUNICATIONS LINE
	EXISTING ELECTRICAL LINE
	EXISTING UNKNOWN SERVICE
	EXISTING SERVICE TO BE MADE REDUNDANT

SITWORKS & DRAINAGE LEGEND	
	LIMIT OF WORKS
	FINISHED SURFACE CONTOUR
	EXISTING FINISHED SURFACE SPOT LEVEL
	FINISHED SURFACE SPOT LEVEL
	DIRECTION AND GRADE OF FALL
	RETAINING WALL
	EXISTING BUILDING
	SURFACE INLET PIT
	JUNCTION PIT
	KERB INLET PIT
	STORMWATER DRAINAGE LINE
	GRATED DRAIN
	SWALE DRAIN
	EXISTING STORMWATER TO REMAIN
	EXISTING STORMWATER TO BE MADE REDUNDANT
	DOWNPIPE AND CONNECTION LINE (REFER TO HYDRAULIC DRAWINGS FOR DETAILS)
	FLUSHOUT RISER (max 30m CTRS) WITH SUBSOIL DRAINAGE (1000 uPVC SLOTTED PIPE UN-SOCKED)
	INSPECTION OPENING
	OVERLAND FLOW

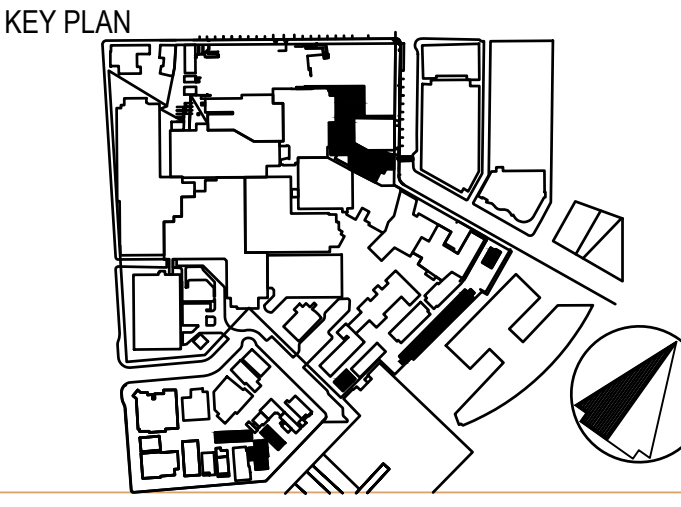
P2 26.11.24 ISSUE FOR REF
P1 15.11.24 ISSUE FOR REF
AMENDMENT

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DRAWING TO BE PRINTED IN COLOUR



SERVICE PROVIDER
MEIN-HARDT
Meinhardt (NSW) Pty Ltd
A.C.N. 951 927 991
Level 4, 65 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9699 7518
info@meinhardtgroup.com
http://www.meinhardtgroup.com
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PROJECT
**ST. GEORGE HOSPITAL -
REFURBISHMENT
KOGARAH, NSW 2217**
PROJECT NO.
130507

DRAWING TITLE
**SITWORKS LANDSCAPE AREA
SHEET 1**

STATUS
PRELIMINARY

DRAWN
JG
DESIGNED
AM

CHECKED
BK
APPROVED
BL

SCALE @ B1
1:100

DRAWING NO.
REFB3-CI-DG-10GF100
REVISION
P2

FOR CONTINUATION REFER TO DRAWING REFB3-CI-DG-10GF101

BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES
SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT
POSITION SHOULD BE PROVEN ON SITE.

WARNING
NO DRAINAGE WORKS SHALL
COMMENCE UNTIL THE CONTRACTOR
CONFIRMS THE I.L. OF ALL EXISTING
DRAINS, AND CONFIRMS IN WRITING
WITH THE ENGINEERING SUPERVISOR.



DRAWING TO BE PRINTED IN COLOUR



Health Infrastructure



Level 4, 66 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3068
F: +61 2 9319 7518
info@meinhardtgroup.com
<http://www.meinhardtgroup.com>
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PROJECT
ST. GEORGE HOSPITAL -
REFURBISHMENT
KOGARAH, NSW 2217
PROJECT NO.
130507

**SITWORKS LANDSCAPE AREA
SHEET 2**

PRELIMINARY

APPROVED:

1:100

DRAWING NO.
REFB3-CI-DG-10GF101

REVISION

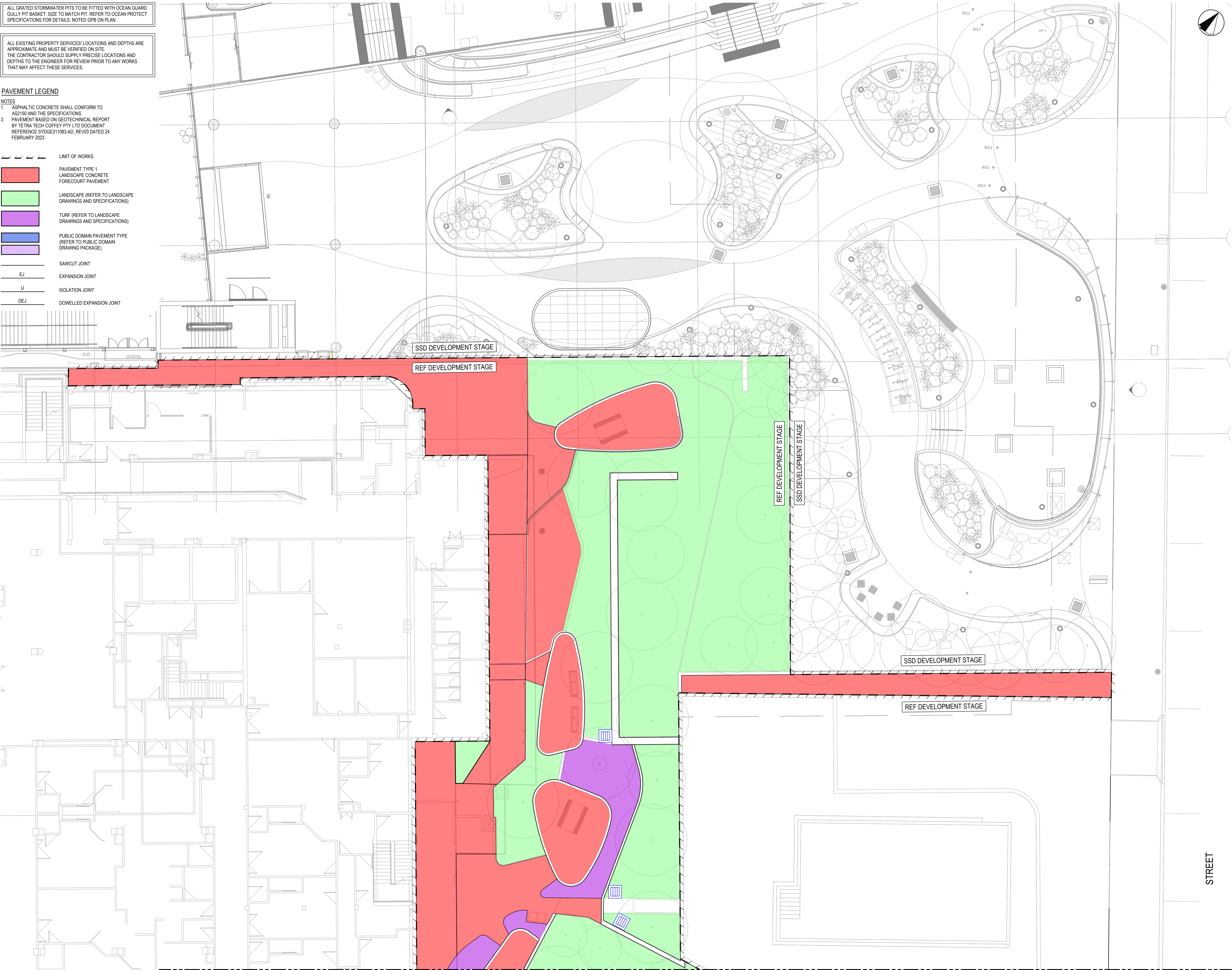
ALL GRATED STORMWATER PITS TO BE FITTED WITH OCEAN GUARD GULLY PIT BASKET. SIZE TO MATCH PIT. REFER TO OCEAN PROTECT SPECIFICATIONS FOR DETAILS. NOTED GPB ON PLAN.

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

PAVEMENT LEGEND

- NOTES
1. ASPHALTIC CONCRETE SHALL CONFORM TO AS2150 AND THE SPECIFICATIONS
 2. PAVEMENT BASED ON GEOTECHNICAL REPORT BY TETRA TECH COFFEY PTY LTD DOCUMENT REFERENCE SYDGE311083-AD_REV03 DATED 24 FEBRUARY 2023

- LIMIT OF WORKS
- PAVEMENT TYPE 1
LANDSCAPE CONCRETE
FORECOURT PAVEMENT
- LANDSCAPE (REFER TO LANDSCAPE DRAWINGS AND SPECIFICATIONS)
- TURF (REFER TO LANDSCAPE DRAWINGS AND SPECIFICATIONS)
- PUBLIC DOMAIN PAVEMENT TYPE
(REFER TO PUBLIC DOMAIN DRAWING PACKAGE)
- SAWCUT JOINT
- EJ EXPANSION JOINT
- I ISOLATION JOINT
- DEJ DOWELLED EXPANSION JOINT



FOR CONTINUATION REFER TO DRAWING REF3-CI-DG-10GF111

P2 26.11.24 ISSUE FOR REF
P1 15.11.24 ISSUE FOR REF

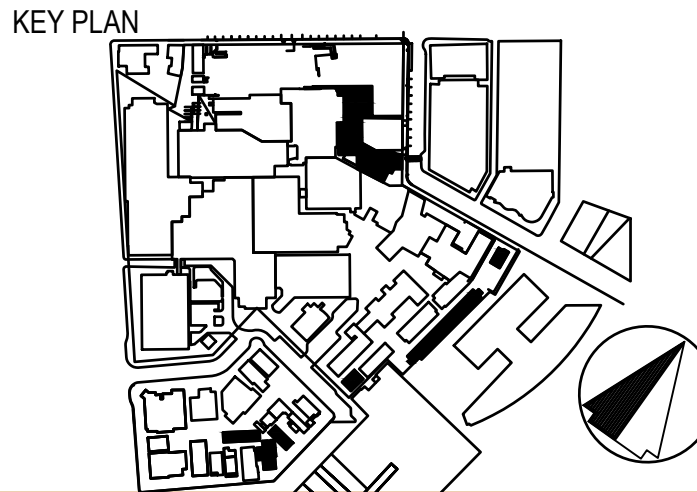
AMENDMENT

WARNING
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SERVICE PROVIDER
MEIN-HARDT
Meinhardt NSW Pty Ltd
A.C.N. 951 927 951
Level 4, 65 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9315 7518
info@meinhardtgroup.com
http://www.meinhardtgroup.com
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PROJECT
**ST. GEORGE HOSPITAL -
REFURBISHMENT**
KOGARAH, NSW 2217
PROJECT NO.
130507

DRAWING TITLE
**PAVEMENT PLAN
SHEET 1**

STATUS
PRELIMINARY

DRAWN
JG DESIGNED
AM

CHECKED
BK APPROVED
BL

SCALE @ B1
1:100



DRAWING NO.
REFB3-CI-DG-10GF110 REVISION
P2

FOR CONTINUATION REFER TO DRAWING REF B3-CI-DG-10GF110

ALL GRATED STORMWATER PITS TO BE FITTED WITH OCEAN GUARD GULLY PIT BASKET. SIZE TO MATCH PIT. REFER TO OCEAN PROTECT SPECIFICATIONS FOR DETAILS. NOTED GPB ON PLAN.

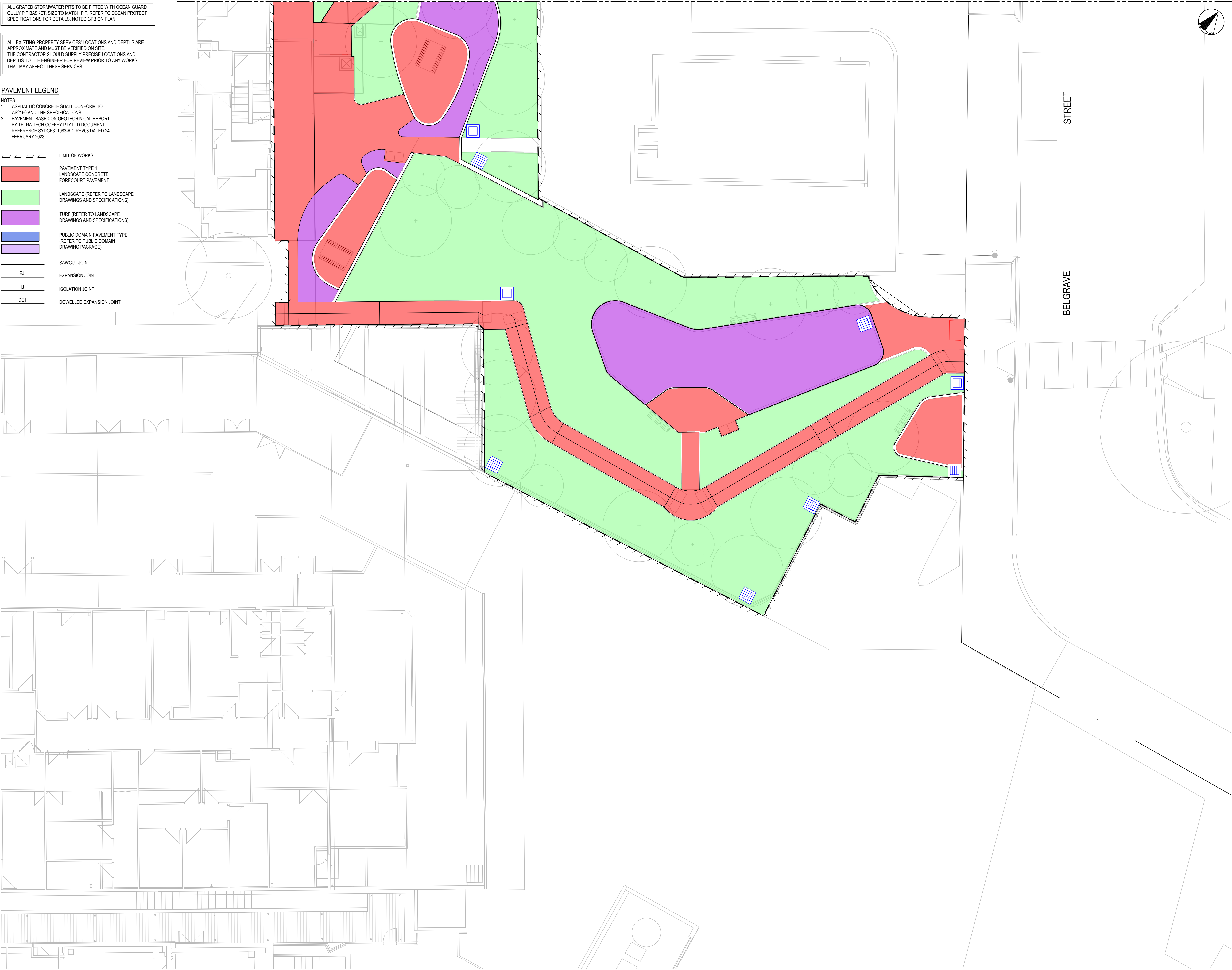
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PAVEMENT LEGEND

NOTES

1. ASPHALTIC CONCRETE SHALL CONFORM TO AS2150 AND THE SPECIFICATIONS
2. PAVEMENT BASED ON GEOTECHNICAL REPORT BY TETRA TECH COFFEY PTY LTD DOCUMENT REFERENCE SYDGE311083-AD_REV03 DATED 24 FEBRUARY 2023

- LIMIT OF WORKS
- PAVEMENT TYPE 1
LANDSCAPE CONCRETE
FORECOURT PAVEMENT
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- TURF (REFER TO LANDSCAPE DRAWINGS AND SPECIFICATIONS)
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- DEJ DOWELLED EXPANSION JOINT



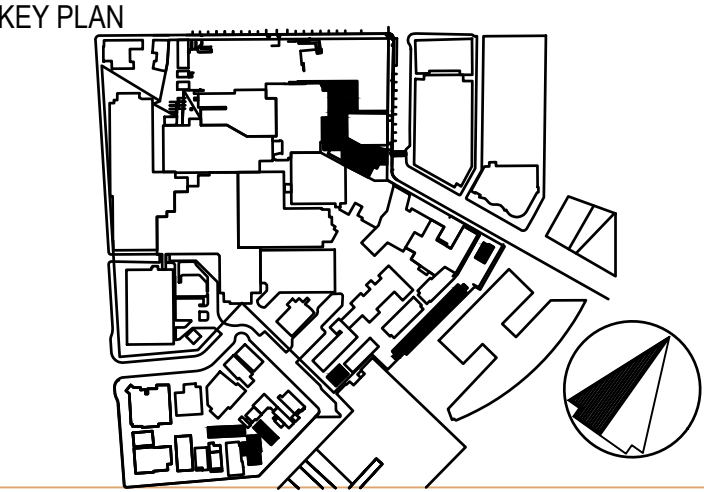
P1 26.11.24 ISSUE FOR REF AMENDMENT

WARNING
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SERVICE PROVIDER



Meinhardt (NSW) Pty Ltd
A.C.N. 951 927 951
Level 4, 65 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9659 3088
F: +61 2 9315 7518
info@meinhardtgroup.com
http://www.meinhardtgroup.com
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PROJECT NO.
130507

DRAWING TITLE
**PAVEMENT PLAN
SHEET 2**

STATUS
PRELIMINARY

DRAWN
JG

DESIGNED
AM

CHECKED
BK

APPROVED
BL

SCALE @ B1
1:100



DRAWING NO.
REFB3-CI-DG-10GF111

REVISION
P1

