STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT
DERBY STREET, KINGSWOOD NSW 2747
MAIN WORKS MAIN TOWER

DRAWING REGISTER AND CONSTRUCTION NOTES - CIVIL & STORMWATER

DRAWING No.	DESCRIPTION
NHR-BON-DRW-CIV-TB2-ALL-0000001	MAIN WORKS DRAWING REGISTER AND CONSTRUCTION NOTES
NHR-BON-DRW-CIV-TB2-ALL-0000002	GENERAL ARRANGEMENT PLAN
NHR-BON-DRW-CIV-TB2-ALL-0000005	MAIN WORKS SOIL AND WATER MANAGEMENT PLAN
~~NHR-BON-DRW-CIV-TB2-ALL-0000006~~	~~MAIN WORKS SOIL AND WATER MANAGEMENT DETAILS~~
NHR-BON-DRW-CIV-TB2-ALL-0000007	PATHOLOGY BUILDING SOIL AND WATER MANAGEMENT PLAN D
NHR-BON-DRW-CIV-TB2-ALL-0000009	MAIN WORKS BULK EARTHWORKS PLAN -SHEET 1
NHR-BON-DRW-CIV-TB2-ALL-0000010	MAIN WORKS BULK EARTHWORKS PLAN -SHEET 2
NHR-BON-DRW-CIV-TB2-ALL-0000011	MAIN WORKS BULK EARTHWORKS LONGITUDINAL SECTIONS - SHEET 1
NHR-BON-DRW-CIV-TB2-ALL-0000012	MAIN WORKS BULK EARTHWORKS LONGITUDINAL SECTIONS - SHEET 2
NHR-BON-DRW-CIV-TB2-ALL-0000013	MAIN WORKS BULK EARTHWORKS LONGITUDINAL SECTIONS - SHEET 3
NHR-BON-DRW-CIV-TB2-ALL-0000022	MAIN WORKS STORMWATER DRAINAGE PLAN - SHEET 1
NHR-BON-DRW-CIV-TB2-ALL-0000023	MAIN WORKS STORMWATER DRAINAGE PLAN - SHEET 2
NHR-BON-DRW-CIV-TB2-ALL-0000024	MAIN WORKS STORMWATER DRAINAGE PLAN - SHEET 3
NHR-BON-DRW-CIV-TB2-ALL-0000025	MAIN WORKS STORMWATER DRAINAGE PLAN - SHEET 4
NHR-BON-DRW-CIV-TB2-ALL-0000026	MAIN WORKS STORMWATER DRAINAGE PLAN - SHEET 5
NHR-BON-DRW-CIV-TB2-ALL-0000027	OSD DETAILS & PIT SCHEDULE
NHR-BON-DRW-CIV-TB2-ALL-0000040	MAIN WORKS STORMWATER DRAINAGE DETAILS - SHEET 1
NHR-BON-DRW-CIV-TB2-ALL-0000041	MAIN WORKS STORMWATER DRAINAGE DETAILS - SHEET 2
NHR-BON-DRW-CIV-TB2-ALL-0000050	MAIN WORKS SITEWORKS PLAN - SHEET 1
NHR-BON-DRW-CIV-TB2-ALL-0000051	MAIN WORKS SITEWORKS PLAN - SHEET 2
NHR-BON-DRW-CIV-TB2-ALL-0000052	MAIN WORKS SITEWORKS PLAN - SHEET 3
NHR-BON-DRW-CIV-TB2-ALL-0000053	PATHOLOGY BUILDING SITEWORKS PLAN
NHR-BON-DRW-CIV-TB2-ALL-0000055	MAIN WORKS PAVEMENT PLAN - SHEET 1
NHR-BON-DRW-CIV-TB2-ALL-0000056	MAIN WORKS PAVEMENT PLAN - SHEET 2
NHR-BON-DRW-CIV-TB2-ALL-0000057	MAIN WORKS PAVEMENT PLAN - SHEET 3
NHR-BON-DRW-CIV-TB2-ALL-0000058	PATHOLOGY BUILDING PAVEMENT PLAN
NHR-BON-DRW-CIV-TB2-ALL-0000061	MAIN WORKS SITEWORKS AND PAVEMENT DETAILS - SHEET 1
NHR-BON-DRW-CIV-TB2-ALL-0000062	MAIN WORKS SITEWORKS AND PAVEMENT DETAILS - SHEET 2

GENERAL NOTES

G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH WORK.

G2 MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SPECIFICATION, CURRENT SAA CODES, BUILDING REGULATIONS AND THE REQUIREMENTS OF ANY OTHER RELEVANT STATUTORY AUTHORITIES.

G3 THESE DRAWINGS MUST NOT BE SCALED. ALL DIMENSIONS ARE IN METERS. ALL SET OUT DIMENSIONS AND LEVELS, INCLUDING THOSE SHOWN ON THESE DRAWINGS SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S DRAWINGS AND VERIFIED ON SITE.

G4 ALL SETOUT AND DIMENSIONS OF THE BUILDING STRUCTURE MUST BE TAKEN FROM THE ARCHITECT'S DRAWINGS. CONTRACTOR TO CONFIRM SETOUT OF SERVICE TRENCHING INCLUDING SUBSOIL ON SITE.

G5 THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF AUTHORITIES HAVING JURISDICTON OVER THE WORKS. REFER TO GEOTECHNICAL REPORT.

G6 ALL DIMENSIONS AND REDUCED LEVELS MUST BE VERIFIED ON SITE BEFORE THE COMMENCEMENT OF ANY WORK.

G7 THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE SUPERINTENDENT BUT IS NOT AN AUTHORISATION OF A COST VARIATION. THE SUPERINTENDENT MUST APPROVE ANY COST VARIATION INVOLVED BEFORE ANY WORK STARTS.

G8 ALL LEVELS SHOWN ARE TO THE AUSTRALIAN HEIGHT DATUM.

G9 SERVICE INFORMATION SHOWN IS APPROXIMATE ONLY. PRIOR TO COMMENCEMENT OF ANY WORKS, THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND SERVICES AND COMPLY WITH ALL REQUIREMENTS OF THOSE AUTHORITIES.

G10 EXISTING SURFACE CONTOURS, WHERE SHOWN, ARE INTERPOLATED AND MAY NOT BE ACCURATE.

G11 UNLESS NOTED OTHERWISE, ALL VEGETATION SHALL BE STRIPPED TO A MINIMUM DEPTH OF 150mm UNDER ALL PROPOSED PAVEMENT AND BUILDING AREAS.

G12 MAKE SMOOTH CONNECTION WITH ALL EXISTING WORKS.

SITEWORKS NOTES

S1 PRIOR TO THE PLACEMENT OF ANY PAVEMENTS, BUILDINGS OR DRAINS THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD COMPACTION IN ACCORDANCE WITH TEST 'E1.1' OF A.S. 1289 FOR THE TOP 300mm. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH GRANULAR FILL TO THE ENGINEERS APPROVAL AND COMPACTED IN ACCORDANCE WITH THE COMPACTION REQUIREMENTS SET OUT BELOW. ON HIGHLY REACTIVE CLAY AREAS SITE EXCAVATED MATERIAL MAY BE USED WITH THE PRIOR AUTHORISATION OF THE ENGINEER.

S2 ALL FILL AND PAVEMENT MATERIALS SHALL BE COMPACTED IN ACCORDANCE WITH JK GEOTECHNICS GEOTECHNICAL REPORT REF: 29845L3rpt DATED 7 SEPTEMBER 2018. MOISTURE CONTENT TO BE MAINTAINED AT +/- 2% OMC. MINIMUM COMPACTION REQUIREMENTS ARE DETAILED BELOW FOR (ALL REQUIREMENTS ARE TO VERIFIED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER):

- LANDSCAPED AREAS — 98% STD.
- FILL UNDER ANY FOOTINGS AND FLOOR SLABS FOR ANY STRUCTURE TO SUBGRADE LEVEL;
  - FINE CRUSHED ROCK — 98% STD.
  - SELECTED FILL WITHOUT CONSPICUOUS CLAY CONTENT — 98% STD.
- BUILDING BASECOURSE — 98% MOD
- FILL UNDER ROAD PAVEMENTS;
  - TO WITHIN 500mm OF FINISHED SUBGRADE LEVEL — 98% STD.
  - UP TO FINISHED SUBGRADE LEVEL — 98% STD.
- ROAD PAVEMENT MATERIALS;
  - SUB BASE — 98% MOD.
  - BASE COURSE — 98% MOD.

THE MAXIMUM COMPACTION IS TO BE NO GREAT THAN 4% ON TOP OF THE ABOVE MENTION VALUES.

S3 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.

S4 ALL DIMENSIONS GIVEN ARE TO FACE OF KERB, CENTER OF PIPE OR EXTERIOR FACE OF BUILDING UNLESS NOTED OTHERWISE.

S5 ANY STRUCTURES, PAVEMENTS OR SURFACES DAMAGED, DIRTIED OR MADE UNSERVICABLE DUE TO CONSTRUCTION WORK SHALL BE REINSTATED TO THE SATISFACTION OF THE ENGINEER.

S6 ANY FILL REQUIRED SHALL BE APPROVED BY THE ENGINEER / GEOTECHNICAL CONSULTANT

S7 CONTRACTOR IS TO ENSURE THAT ALL EXCAVATIONS ARE MAINTAINED IN A DRY CONDITION WITH NO WATER ALLOWED TO REMAIN IN THE EXCAVATIONS.

S8 ALL FINISHES AND COLOURS TO BE IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS.

S9 REFER TO STRUCTURAL DRAWINGS FOR CONCRETE, REINFORCEMENT AND RETAINING WALL DETAILS.

S10 GENERALLY FOR TRENCHING WORKS THE CONTRACTOR MUST:
A) COMPLY WITH THE GENERAL PROVISIONS OF PART 3.1 "MANAGING RISKS TO HEALTH AND SAFETY" OF NSW WORK AND HEALTH AND SAFETY REGULATION 2011
B) COMPLY PART 6.3 DIVISION 3 "EXCAVATION WORK" OF NSW WORK HEALTH AND SAFETY REGULATION NSW 2011

S11 PRIOR TO THE EXCAVATION OF ANY TRENCH DEEPER THAN 1.5 METRES THE CONTRACTOR MUST:
A) NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY ON THE APPROPRIATE FORM.

STORMWATER DRAINAGE NOTES

SW1 UNLESS NOTED OTHERWISE BY HYDRAULIC ENGINEERS DRAWINGS, ALL DOWNPIPES & GRATED INLETS SHALL BE CONNECTED TO PITS OR MAIN STORMWATER DRAINS WITH 150 DIA. UPVC PIPES LAID AT A MINIMUM GRADE OF 1 IN 100. FOR SYPHONIC ROOF DRAINAGE SYSTEMS ALL DOWNPIPES CONNECTION DRAIN SIZES TO BE CONNECTED INTO MAIN STORMWATER DRAINS SHALL BE IN ACCORDANCE WITH HYDRAULIC ENGINEERS DRAWINGS.

SW2 ALL MAIN STORMWATER DRAINS SHALL BE CONSTRUCTED USING MATERIALS AS SPECIFIED ON THE DRAWINGS IN ACCORDANCE WITH THE APPROPRIATE A.S. IF NOT SPECIFIED THEN CLASS 4 RRJ RCP SHALL BE USED FOR DIAMETERS > 225mm. SEWER CLASS SEH UPVC IN ACCORDANCE WITH AS1260 SHALL BE USED FOR Ø225mm OR SMALLER.

SW3 ALL PIPEWORK TO BE INSTALLED IN ACCORDANCE WITH AS3725 FOR RCP AND AS2032 FOR PVC. ALL BEDDING TO BE TYPE H2 UNLESS NOTED OTHERWISE.

SW4 FOR ALL PITS > 1.2m DEEP, STEP IRONS SHALL BE INSTALLED.

SW5 PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY BONACCI GROUP.

SW6 ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.

SW7 WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.

SW8 GRATES AND COVERS SHALL CONFORM WITH AS 3996 AND AS 1428.1 FOR ACCESS REQUIREMENTS.

SW9 CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES ARE NOT TO BE REDUCED WITHOUT APPROVAL.

SW10 AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

SW11 ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

KERBING NOTES

K1 ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32 MPa U.N.O.

K2 ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 75mm GRANULAR BASECOURSE COMPACTED TO A MINIMUM 98% MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 5.2.1.

K3 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 MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLAB.

K4 WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLAB.

K5 BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.

K6 IN THE REPLACEMENT OF KERBS:-
- EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O. FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER, NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.N.O.
- EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.

JOINTING NOTES

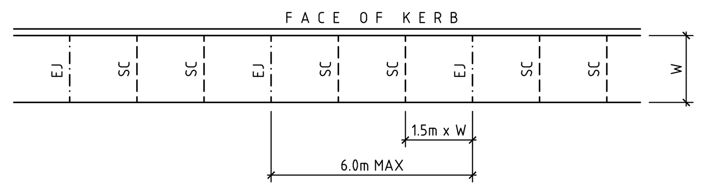
PEDESTRIAN FOOTPATH JOINTS (INTERNAL TO SITE)

J1 EXPANSION JOINTS (EJ) ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT 6m CENTRES.

J2 SAWCUT JOINTS (SC) ARE TO BE LOCATED AT A MAX 1.5m x WIDTH OF PAVEMENT.

J3 WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND / OR ADJACENT PAVEMENT JOINTS.

J4 ALL PEDESTRIAN FOOTPATH JOINTINGS AS FOLLOWS (U.N.O.).



VEHICULAR PAVEMENT JOINTS

J5 ALL VEHICULAR PAVEMENTS TO BE JOINTED AS SHOWN ON DRAWINGS.

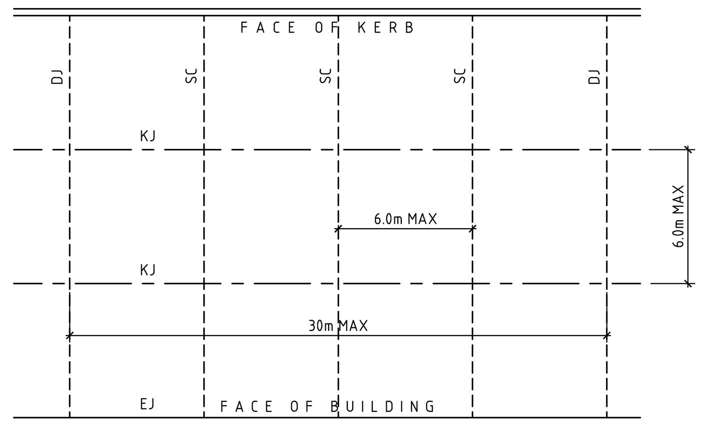
J6 KEYED CONSTRUCTION JOINTS (KJ) SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 6m CENTRES.

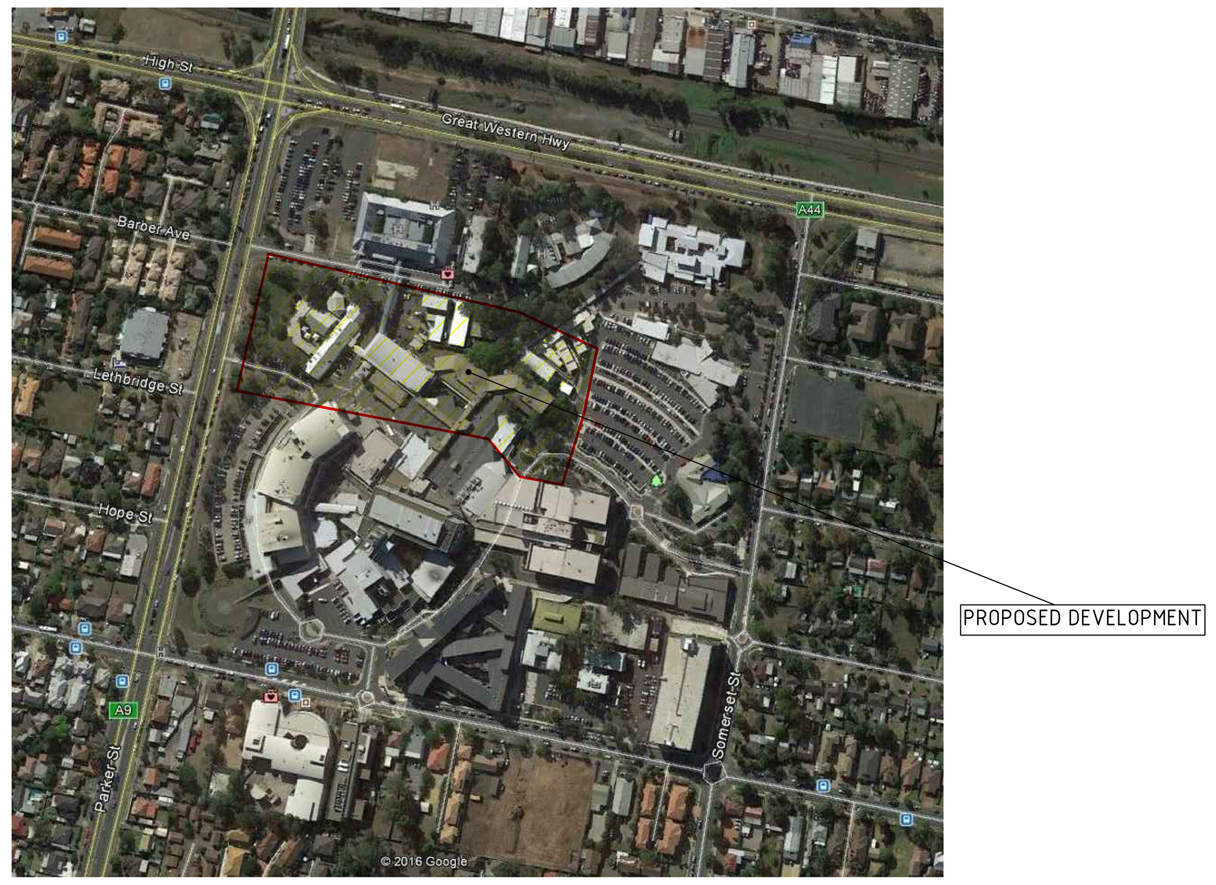
J7 SAWCUT JOINTS (SC) SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 6m CENTRES OR 1.5 x THE SPACING OF KEYED JOINTS, WHERE KEYED JOINT SPACING IS LESS THAN 4m, WITH DOWELLED EXPANSION JOINTS (DJ) AT MAXIMUM OF 30m CENTRES.

J8 PROVIDE 10mm WIDE FULL DEPTH EXPANSION JOINTS (EJ) BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVERS.

J9 VEHICULAR PAVEMENT JOINTING AS FOLLOWS (U.N.O.)

J10 THE TIMING OF THE SAW CUT IS TO BE CONFIRMED BY THE CONTRACTOR ON SITE. SITE CONDITIONS WILL DETERMINE HOW MANY HOURS AFTER THE CONCRETE POUR BEFORE THE SAW CUTS ARE COMMENCED.





LOCALITY PLAN
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Rev	Description	Date	By	App
E	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
D	ISSUE FOR SD SUBMISSION	25.05.21	HM	-
C	ISSUE FOR SD SUBMISSION	14.05.21	AM	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: DRAWING REGISTER AND CONSTRUCTION NOTES

SCHEMATIC DESIGN

Designed YK
Drawn HM
Scale AS SHOWN
Date NOV. 2020
Sheet A0

Approved | Date | North

Project Ref | Drawing No | Rev
NHR-BON-CIV-TB2-ALL-0000001 | E

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Rev	Description	Date	By	App
C	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-

Rev	Description	Date	By	App

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR)
DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: GENERAL ARRANGEMENT PLAN

SCHEMATIC DESIGN

Designed: YK
Drawn: HM
Scale: 1:500
Date: NOV. 2020
Sheet: A0

Approved | Date | North

Project Ref | Drawing No: NHR-BON-CIV-TB2-ALL-0000002 | Rev: C

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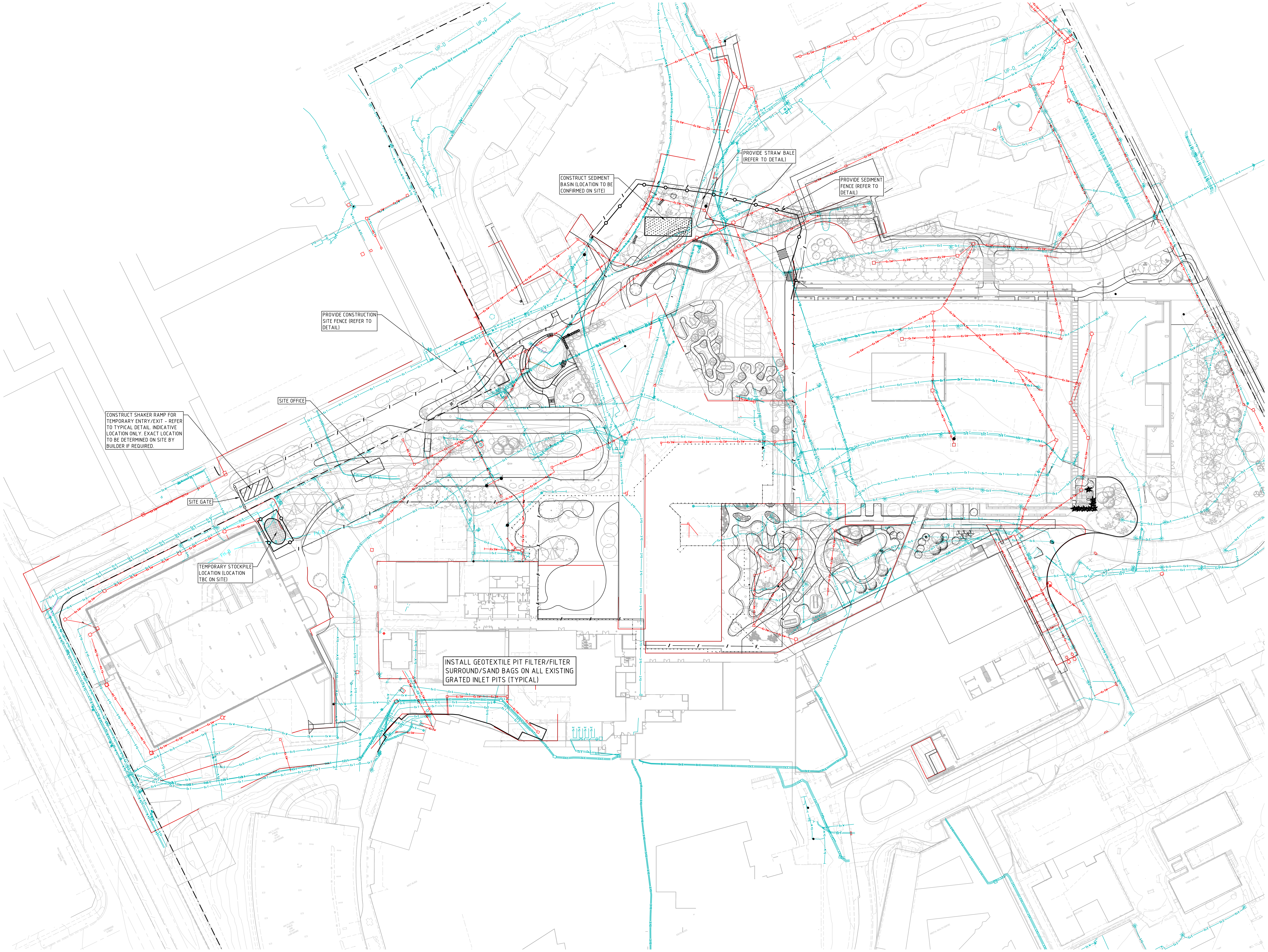

SOIL AND WATER MANAGEMENT NOTES

1. THE DISTURBED LAND FOR PROPOSED DEVELOPMENT IS MARGINAL (APPROX.250 SQ/M) IT HAS BEEN ASSUMED THAT NO MAJOR SEDIMENT BASIN IS REQUIRED FOR SEDIMENTATION CONTROL DURING CONSTRUCTION.
2. IT HAS BEEN ASSUMED THAT HOARDING/SILT FENCING WILL BE PROVIDED TO THE STAGE BOUNDARY SUFFICIENT TO PREVENT SEDIMENT RUNOFF FROM LEAVING SITE (EXCEPT IN THE CASE OF ENTRY/EXIT LOCATIONS WHERE TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP ARE PROVIDED). IF THIS IS NOT THE CASE, PROVIDE SEDIMENT FENCE TO STANDARD DETAIL BELOW AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING SITE, DIRECT RUNOFF TO SEDIMENT BASIN.
3. ALL SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH LANDCOM MANAGING URBAN STORMWATER "BLUE BOOK".

SEDIMENT CONTROL CONDITIONS

1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN AND ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER TO CONTAIN COARSER SEDIMENT FRACTIONS INCLUDING AGGREGATED FINES) AS NEAR AS POSSIBLE TO THEIR SOURCE.
2. SEDIMENT REMOVED FROM ANY TRAPPING DEVICE WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS & WATERWAYS CANNOT OCCUR.
3. STOCKPILES WILL BE PLACED WHERE SHOWN ON DRAWING OR ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER AND NOT WITHIN 5m OF HAZARD AREAS INCLUDING LIKELY AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS & DRIVEWAYS.
4. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM WITH INLET FILTERS (SEE DETAILS) UNLESS IT IS SEDIMENT FREE.
5. TEMPORARY SEDIMENT TRAPS WILL BE RETAINED UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
6. CONTRACTOR TO DESIGN/SIZE/CONSTRUCT TEMPORARY SEDIMENT BASIN, WATER SHOULD BE ALLOWED TO SETTLE BEFORE DISCHARGE. CONTRACTOR MUST VERIFY THAT WATER QUALITY MEETS AUTHORITIES REQUIREMENTS PRIOR TO DISCHARGE . ACCUMULATED SEDIMENT SHOULD THEN BE REMOVED & DISPOSED OF IN ACCORDANCE WITH ENVIRONMENTAL MANAGEMENT PROCEDURES.

SITE INSPECTION & MAINTENANCE CONDITIONS

THE SITE MANAGER WILL INSPECT THE SITE AT LEAST WEEKLY AND WILL:

1. ENSURE THAT DRAINS OPERATE PROPERLY & TO EFFECT ANY NECESSARY REPAIRS
2. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5m FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS & PAVED AREAS.
3. REMOVE TRAPPED SEDIMENT WHENEVER LESS THAN DESIGN CAPACITY REMAINS WITHIN THE STRUCTURE
4. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS APPROPRIATE.
5. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS.
6. MAINTAIN EROSION & SEDIMENT CONTROL MEASURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
7. REMOVE TEMPORARY SOIL CONSERVATION STRUCTURES AS THE LAST ACTIVITY IN THE REHABILITATION PROGRAM.

AS PART OF THE STATUTORY 'DILIGENCE OF CARE' RESPONSIBILITIES, THE SITE MANAGER WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL.
ENTRIES WILL INCLUDE:

1. THE VOLUME & INTENSITY OF ANY RAINFALL EVENTS
2. THE CONDITION OF ANY SOIL & WATER MANAGEMENT WORKS
3. THE CONDITION OF VEGETATION & ANY NEED TO IRRIGATE
4. THE NEED FOR DUST PREVENTION STRATEGIES
5. ANY REMEDIAL WORKS TO BE UNDERTAKEN

THE BOOK WILL BE KEPT ONSITE & MADE AVAILABLE TO ANY AUTHORISED PERSON ON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF WORKS.

SURVEY LEGEND

SITE BOUNDARY
× 24.50 EX SURFACE LEVEL
5.00 EX SURFACE CONTOUR
EX TREE
SW / D(D) EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
S EX SEWER LINE
W EX WATER MAIN
G EX GAS LINE
T EX TELECOMMUNICATIONS LINE
E EX ELECTRICAL LINE
EX UNKNOWN SERVICE
E EXISTING SERVICE TO BE MADE REDUNDANT
SEDIMENT FENCE
TEMPORARY SHAKER RAMP FOR ENTRY/EXIT
TEMPORARY STOCKPILE (LOCATION TBC ON-SITE)
GEOTEXTILE PIT FILTER / FILTER SURROUND INSTALLED ON EXISTING PIT
SANDBAGS INSTALLED ON EXISTING PIT
HOARDING OR SITE FENCE
STRAWBALE

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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.

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.

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Rev	Description	Date	By	App
B	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
A	ISSUE FOR SD SUBMISSION	23.04.21	HM	-

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CBRE

NSW GOVERNMENT Health Infrastructure

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: MAIN WORKS SOIL AND WATER MANAGEMENT PLANS

SCHEMATIC DESIGN

Designed	YK
Drawn	HM
Scale	1:500
Date	NOV. 2020
Sheet	A0

Approved | Date | North

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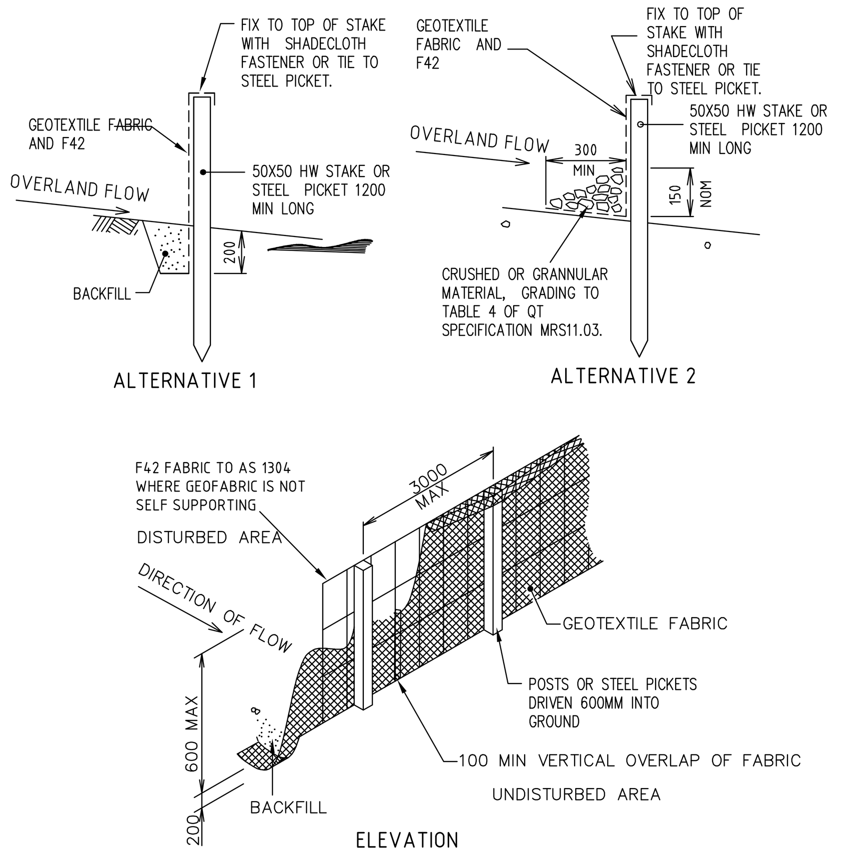
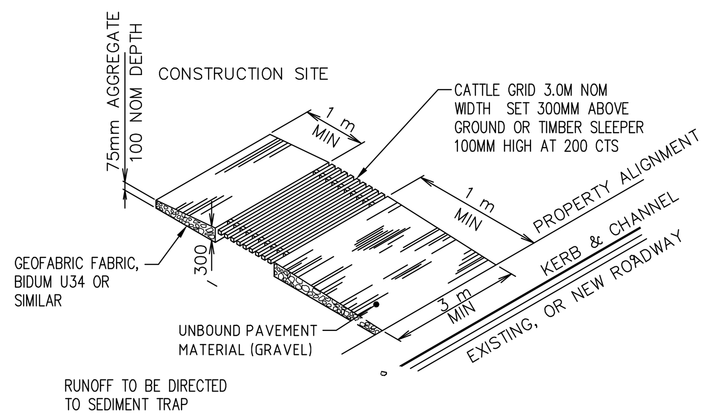


SEDIMENT FENCE

NOT TO SCALE



TEMPORARY CONSTRUCTION VEHICLE ENTRY/EXIT SEDIMENT TRAP

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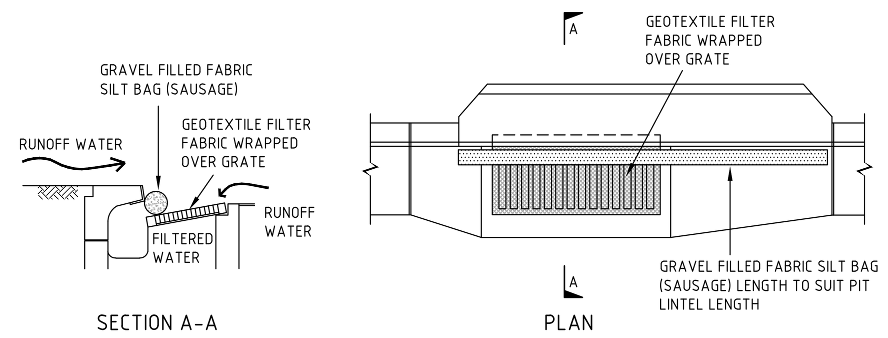
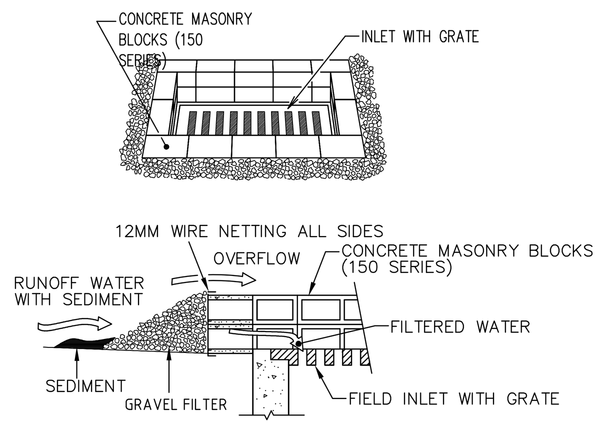


KERB INLET SEDIMENT TRAP

NOT TO SCALE



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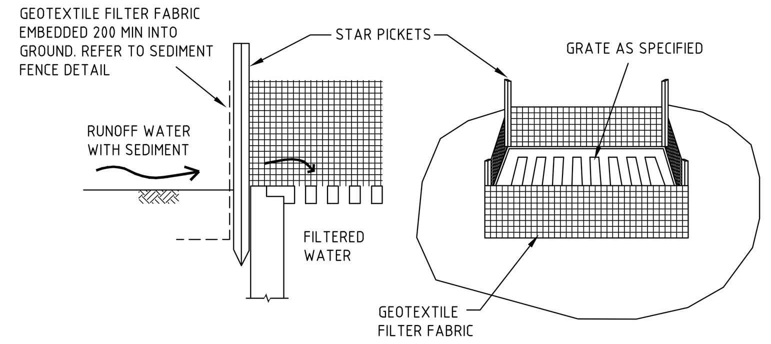
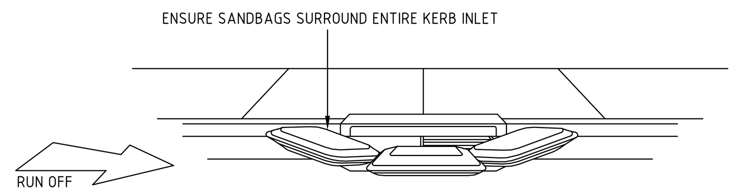


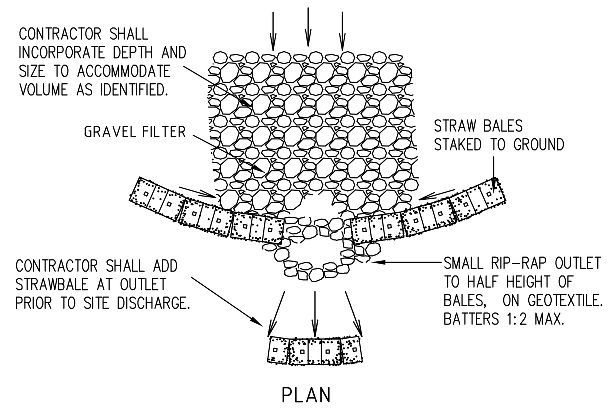
GEOTEXTILE PIT FILTER 1

NOT TO SCALE



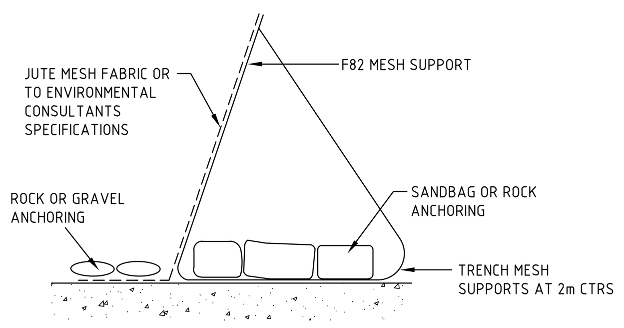
SANDBAG KERB INLET SEDIMENT TRAP

NOT TO SCALE



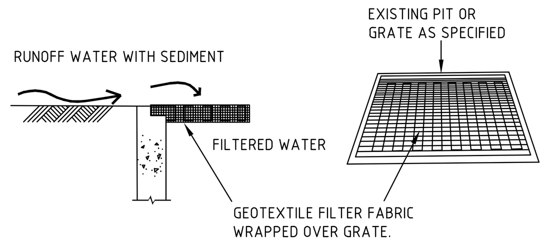
STRAW BALE AND STONE TRAP SEDIMENT CONTROL (CONCENTRATE FLOW)

NOT TO SCALE



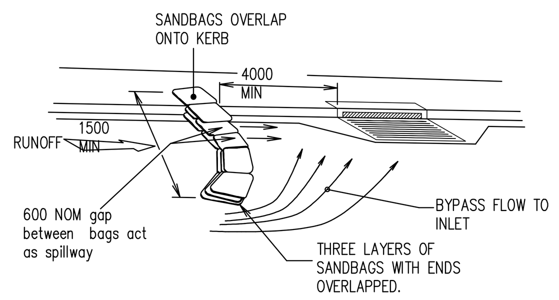
ALTERNATIVE SEDIMENT FENCE

NOT TO SCALE



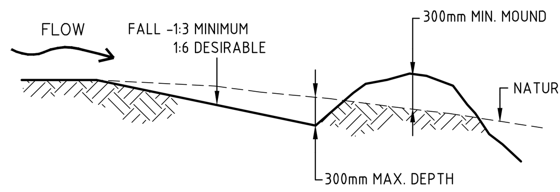
GEOTEXTILE PIT FILTER 2

NOT TO SCALE



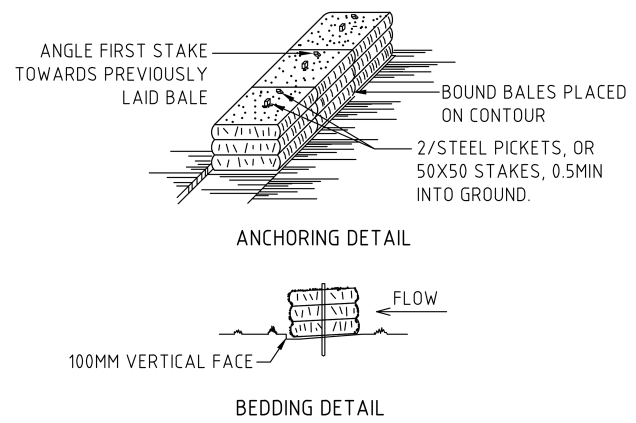
ON GRADE KERB INLET SEDIMENT TRAP

NOT TO SCALE



CATCH DRAIN

NOT TO SCALE



STRAW BALE BANK SEDIMENT CONTROL

NOT TO SCALE

ALTERNATIVE SEDIMENT FENCE NOTES

1. INSTALL THIS TYPE OF SEDIMENT FENCE WHEN USE OF SUPPORT POSTS IS NOT DESIRABLE OR NOT POSSIBLE. SUCH CONDITIONS MIGHT APPLY, FOR EXAMPLE, WHERE APPROVAL IS GRANTED FROM THE APPROPRIATE AUTHORITIES TO PLACE THESE FENCES IN HIGHLY SENSITIVE ESTUARINE AREAS.
2. USE BENT TRENCH MESH TO SUPPORT THE F82 WELDED MESH FACING AS SHOWN ON THE DRAWING ABOVE. ATTACH THE JUTE MESH TO THE WELDED MESH FACING USING UV-RESISTANT CABLE TIES.
3. STABILISE THE WHOLE STRUCTURE WITH SANDBAG OR ROCK ANCHORING OVER THE TRENCH MESH AND THE LEADING EDGE OF THE JUTE MESH. THE ANCHORING SHOULD BE SUFFICIENTLY LARGE TO ENSURE STABILITY OF THE STRUCTURE IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT.

File: \\AU-SYD-FS01\Data\Job\12260-01\03 WIP\02 Civil\01 CAD\01 Autocad\Nepean Tower Stage 2\NHR-BON-DRW-CIV-TB2-ALL-0000006.dwg
Plotted: 05.08.21 at 8:14 AM By: Neil Carino

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Rev	Description	Date	By	App
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A	ISSUE FOR SD SUBMISSION	23.04.21	HM	-

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info@meinhardt-bonacci.com
www.meinhardt-bonacci.com
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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: MAIN WORKS SOIL AND WATER MANAGEMENT DETAILS

SCHEMATIC DESIGN

Designed: YK
Drawn: HM
Scale: AS SHOWN
Date: NOV. 2020
Sheet: A0

Approved / Date / North

Project Ref / Drawing No: NHR-BON-CIV-TB2-ALL-0000006 / Rev: B

FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000010

FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000010

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL (x 24.50)
- EX SURFACE CONTOUR (5.00)
- EX. TREE
- SW / D(D) — EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
- S — EX SEWER LINE
- W — EX WATER MAIN
- G — EX GAS LINE
- T — EX TELECOMMUNICATIONS LINE
- E — EX ELECTRICAL LINE
- EX UNKNOWN SERVICE
- E — EXISTING SERVICE TO BE MADE REDUNDANT

STAGE 1 AS-BUILT SERVICES LEGEND

- E — AS-BUILT ELECTRICAL LINE
- ELV — AS-BUILT ELECTRICAL (LOW VOLTAGE) LINE
- EHV — AS-BUILT ELECTRICAL (HIGH VOLTAGE) LINE
- S — AS-BUILT SEWER (PLUMBING) LINE
- G — AS-BUILT GAS LINE
- W — AS-BUILT WATER LINE
- T — AS-BUILT COMMS LINE
- STORMWATER NETWORK BUILT AS PART OF STAGE 1 WORKS TO BE RETAINED UNO
- SD — FLUSHOUT RISER WITH SUBSOIL DRAINAGE BUILT AS PART OF STAGE 1 WORKS

BULK EARTHWORKS LEGEND

- BEL 48.72 — FINISHED BULK EXCAVATION LEVEL
- 48.50 — BULK EARTHWORKS CONTOURS

EARTHWORKS DEPTH RANGE

Lower_value		Upper_value		Colour
-10.5	to	-10	2	
-10	to	-9.5	2	
-9.5	to	-9	2	
-9	to	-8.5	2	
-8.5	to	-8	2	
-8	to	-7.5	2	
-7.5	to	-7	2	
-7	to	-6.5	2	
-6.5	to	-6	2	
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4.0	to	4.5	2	
4.5	to	5.0	2	
5.0	to	5.5	2	
5.5	to	6	2	
6	to	6.5	2	
6.5	to	7	2	
7.5	to	8	2	

EXCAVATION NOTES

E1 VOLUMES ARE APPROXIMATE ONLY AND DO NOT INCORPORATE BULKING FACTORS AND OVER EXCAVATION. VOLUMES HAVE BEEN CALCULATED BETWEEN STRIPPED EXISTING SURFACE LEVELS AND BULK EARTHWORKS LEVELS.

E2 GROUND WATER SEEPAGE MAY OCCUR IN EXCAVATED AREAS. DE-WATERING MAY BE REQUIRED IN THIS INSTANCE.

E3 THIS DRAWING ONLY DETAILS EXCAVATION ASSOCIATED WITH THE BUILDING SLAB (IGNORING STRUCTURAL FOOTINGS, BEAMS AND COLUMNS).

E4 THE EXCAVATED MATERIAL IS TO BE TEMPORARILY STOCKPILED WITHIN THE LANDSCAPED AREAS (TO BE CONFIRMED ON-SITE) AND RE-USED AS LANDSCAPING SOIL BUILD-UP IN ACCORDANCE WITH LANDSCAPE ARCHITECTS SPECIFICATIONS.

E5 REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED.

E6 1500mm ZONE OFFSET FROM BUILDING HAS BEEN ALLOWED FOR FORM WORK AND SCAFFOLDING WHERE SPECIFIED UNO.

E7 PROVIDE 100mm VOID FORMER TO EXTENT OF BURROW PIT WHICH INCLUDES THE FOLLOW:
- SUSPENDED SLABS (NOT REQUIRED TO SLAB ON GROUND)
- NORTHERN STAIR BASES

E8 PROVIDE MIN. 150mm DRAINAGE LAYER TO ALL AREAS EXCEPT AT STAIR AND LIFT BASES.

E9 PROVIDE 50mm BLINDING SLAB TO ALL STAIR AND LIFT BASES.

E10 PROVIDE EXCAVATION BATTERS AS FOLLOWS:
- MAX 1 IN 4 FOR PERMANENT BATTERS
- MAX 1 IN 2 FOR TEMPORARY BATTERS IN UPPER HARD RESIDUAL CLAY SOILS
- MAX 1 IN 0.5 TEMPORARY BATTERS IN LOW TO MEDIUM STRENGTH ROCK
- VERTICAL EXCAVATION IN HIGH STRENGTH ROCK

GEOTECH TO CONFIRM BATTER ACCEPTABILITY DURING CONSTRUCTIONS.

BULK EARTHWORKS QUANTITIES SUMMARY (IN-PLACE)

150mm STRIPPED SURFACE (ASSUMED TO BE REMOVED OFF-SITE)	= 2,000m^3
TOTAL CUT VOLUME	= 24,307m^3
TOTAL FILL VOLUME	= 1,886m^3
TOTAL EXCESS CUT	= 22,421m^3

NOTE:
THE INCREASE IN THE CUT VOLUME IS DUE TO THE INTRODUCTION OF THE TEMPORARY BATTERS AROUND THE STAGE 2 TOWER EXCAVATION . SOME OF THIS MATERIAL WILL BE REUSED AS BACKFILLED AFTER THE CONSTRUCTION OF THE RETAINING WALL.

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.

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.

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NOTES

1. SITE SURVEY SUPPLIED BY CARDNO PTY LTD DRAWING No. 118117502 REV 04 DATED 07.06.2017
2. EXISTING SERVICES ARE INTERPOLATED FROM SITE SURVEY SUPPLIED BY SURESEARCH UNDERGROUND SERVICES PTY LTD DRAWING FILE NAME 56426-CPB_NEPEAN HOSPITAL_V5 REV 1 DATED 01.09.2018
3. ROCK LEVELS ARE INTERPOLATED FROM BOREHOLE LOGS SUPPLIED BY JK GEOTECHNICS GEOTECNICAL AND ENVIRONMENTAL ENGINEERS
   - REF No. 29845L1rptMWCDB, DATED 24TH FEBRUARY 2017
   - REF No. 29845L3rpt DATED 7 SEPTEMBER 2018

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

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Rev	Description	Date	By	App
D	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
C	ISSUE FOR SD SUBMISSION	28.04.21	HM	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-

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F: +61 2 9319 7518
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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: BULK EARTHWORKS PLAN SHEET 1

SCHEMATIC DESIGN

Designed	YK	Approved	Date	North
Drawn	HM			
Scale	1:250	Project Ref	Drawing No	Rev
Date	JAN. 21	NHR-BON-SKT-CIV-TB2-ALL-0000009		D
Sheet	A0			

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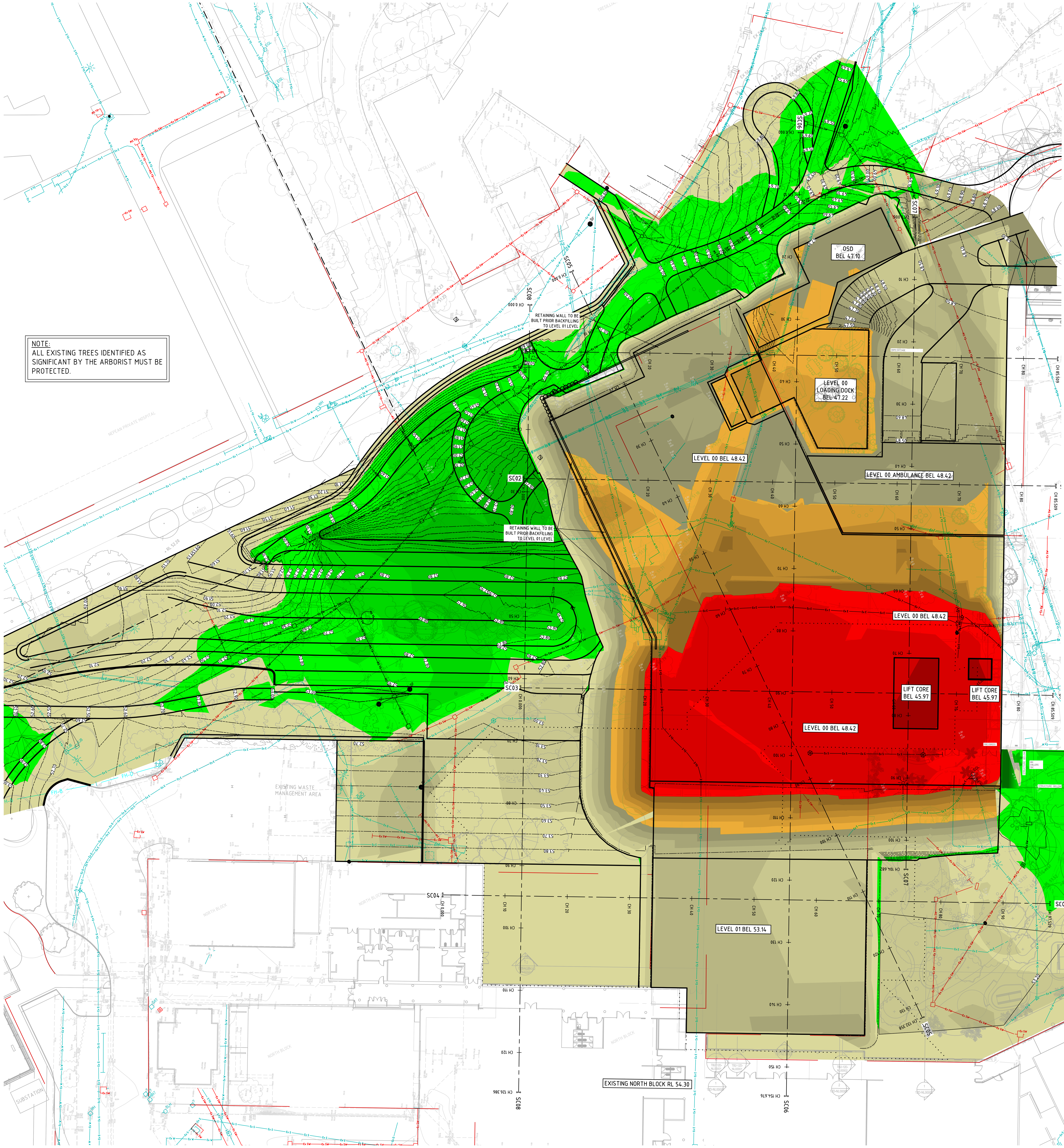
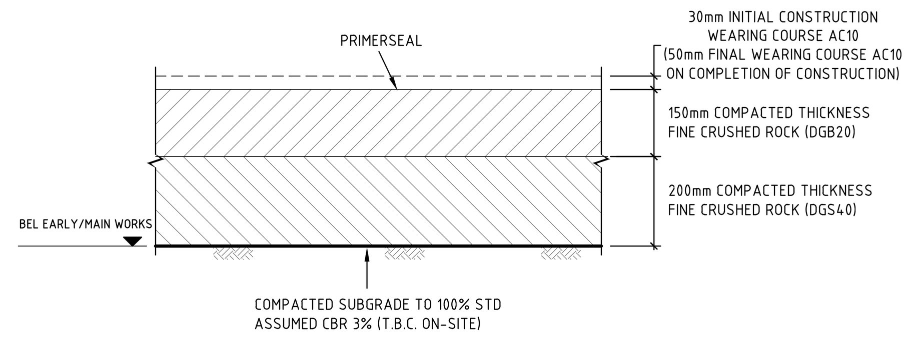
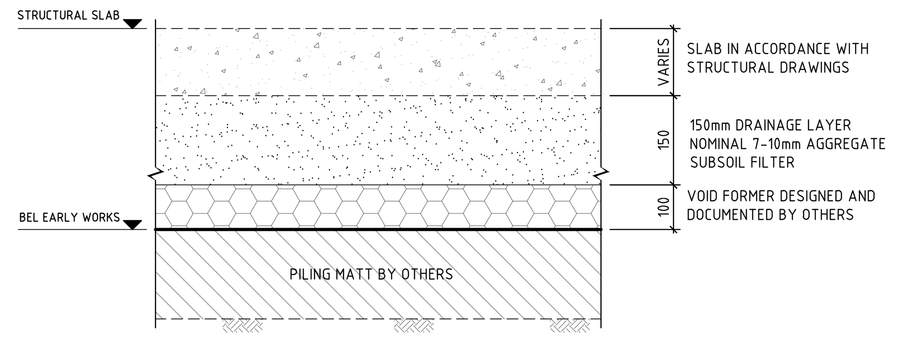


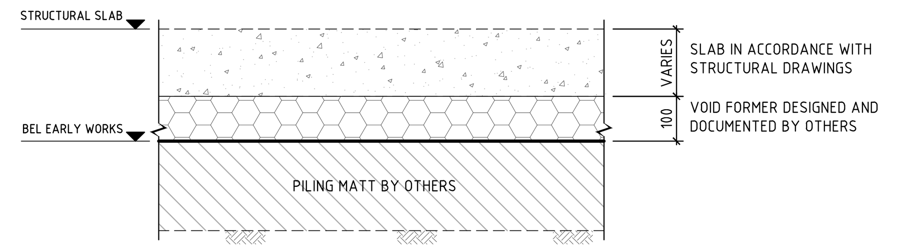
FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000009



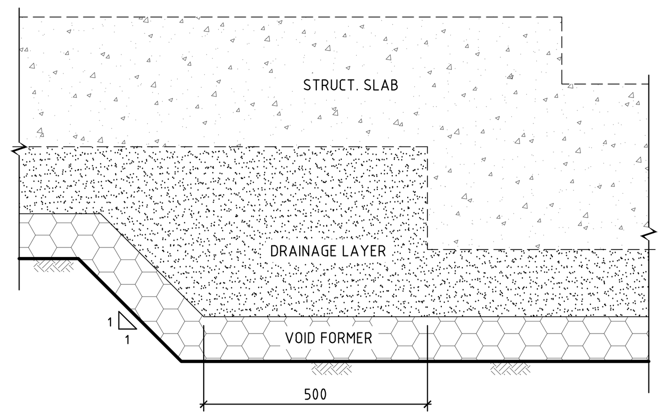
ACCESS ROAD BULK EXCAVATION DETAIL
SCALE 1:10



BUILDING BULK EXCAVATION DETAIL (LEVEL 00)
SCALE 1:10



BUILDING BULK EXCAVATION DETAIL (LEVEL 01)
SCALE 1:10



DRAINAGE LAYER STEP DETAIL
SCALE 1:10

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX. TREE
- EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
- EX SEWER LINE
- EX WATER MAIN
- EX GAS LINE
- EX TELECOMMUNICATIONS LINE
- EX ELECTRICAL LINE
- EX UNKNOWN SERVICE
- EXISTING SERVICE TO BE MADE REDUNDANT

STAGE 1 AS-BUILT SERVICES LEGEND

- E — AS-BUILT ELECTRICAL LINE
- ELV — AS-BUILT ELECTRICAL (LOW VOLTAGE) LINE
- EHV — AS-BUILT ELECTRICAL (HIGH VOLTAGE) LINE
- S — AS-BUILT SEWER (PLUMBING) LINE
- G — AS-BUILT GAS LINE
- W — AS-BUILT WATER LINE
- T — AS-BUILT COMMS LINE
- STORMWATER NETWORK BUILT AS PART OF STAGE 1 WORKS TO BE RETAINED UNO
- SD — FLUSHOUT RISER WITH SUBSOIL DRAINAGE BUILT AS PART OF STAGE 1 WORKS

BULK EARTHWORKS LEGEND

- BEL 48.72 — FINISHED BULK EXCAVATION LEVEL
- 48.50 — BULK EARTHWORKS CONTOURS

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- VERTICAL EXCAVATION IN HIGH STRENGTH ROCK

GEOTECH TO CONFIRM BATTER ACCEPTABILITY DURING CONSTRUCTIONS.

EARTHWORKS DEPTH RANGE

Lower_value		Upper_value		Colour
-10.5	to	-10	2	
-10	to	-9.5	2	
-9.5	to	-9	2	
-9	to	-8.5	2	
-8.5	to	-8	2	
-8	to	-7.5	2	
-7.5	to	-7	2	
-7	to	-6.5	2	
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4.5	to	5.0	2	
5.0	to	5.5	2	
5.5	to	6	2	
6	to	6.5	2	
6.5	to	7	2	
7.5	to	8	2	

BULK EARTHWORKS QUANTITIES SUMMARY (IN-PLACE)

150mm STRIPPED SURFACE = 2,000m³
(ASSUMED TO BE REMOVED OFF-SITE)

TOTAL CUT VOLUME = 24,307m³
TOTAL FILL VOLUME = 1,886m³

TOTAL EXCESS CUT = 22,421m³

NOTE:
THE INCREASE IN THE CUT VOLUME IS DUE TO THE INTRODUCTION OF THE TEMPORARY BATTERS AROUND THE STAGE 2 TOWER EXCAVATION . SOME OF THIS MATERIAL WILL BE REUSED AS BACKFILLED AFTER THE CONSTRUCTION OF THE RETAINING WALL.

WARNING
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2. EXISTING SERVICES ARE INTERPOLATED FROM SITE SURVEY SUPPLIED BY SURESEARCH UNDERGROUND SERVICES PTY LTD DRAWING FILE NAME 56426-CPB_NEPEAN HOSPITAL_V5 REV 1 DATED 01.09.2018
3. ROCK LEVELS ARE INTERPOLATED FROM BOREHOLE LOGS SUPPLIED BY JK GEOTECHNICS GEOTECNICAL AND ENVIRONMENTAL ENGINEERS
   - REF No. 29845L1rptMWCDB, DATED 24TH FEBRUARY 2017
   - REF No. 29845L3rpt DATED 7 SEPTEMBER 2018

WARNING
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D	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
C	ISSUE FOR SD SUBMISSION	28.04.21	HM	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-
P2	PRELIMINARY ISSUE	21.01.21	HM	-

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Sydney NSW 2000
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info@meinhardt-bonacci.com
www.meinhardt-bonacci.com

Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

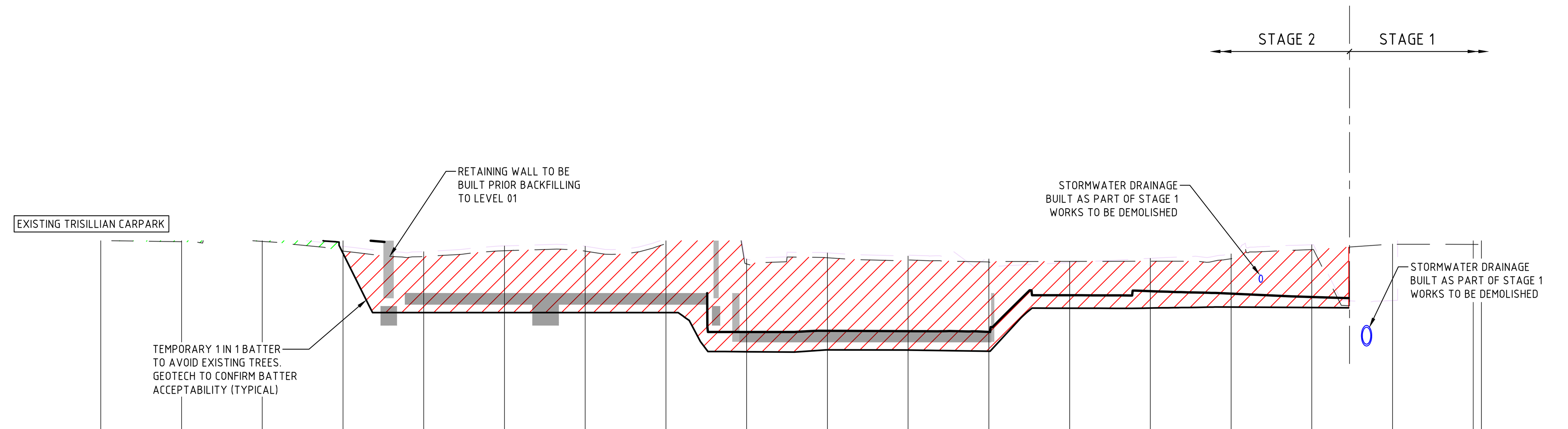
Drawing Title: BULK EARTHWORKS PLAN SHEET 2

SCHEMATIC DESIGN

Designed	YK
Drawn	HM
Scale	1:250
Date	JAN. 21
Sheet	A0

Approved | Date | North

Project Ref | Drawing No: NHR-BON-SKT-CIV-TB2-ALL-0000010 | Rev: D

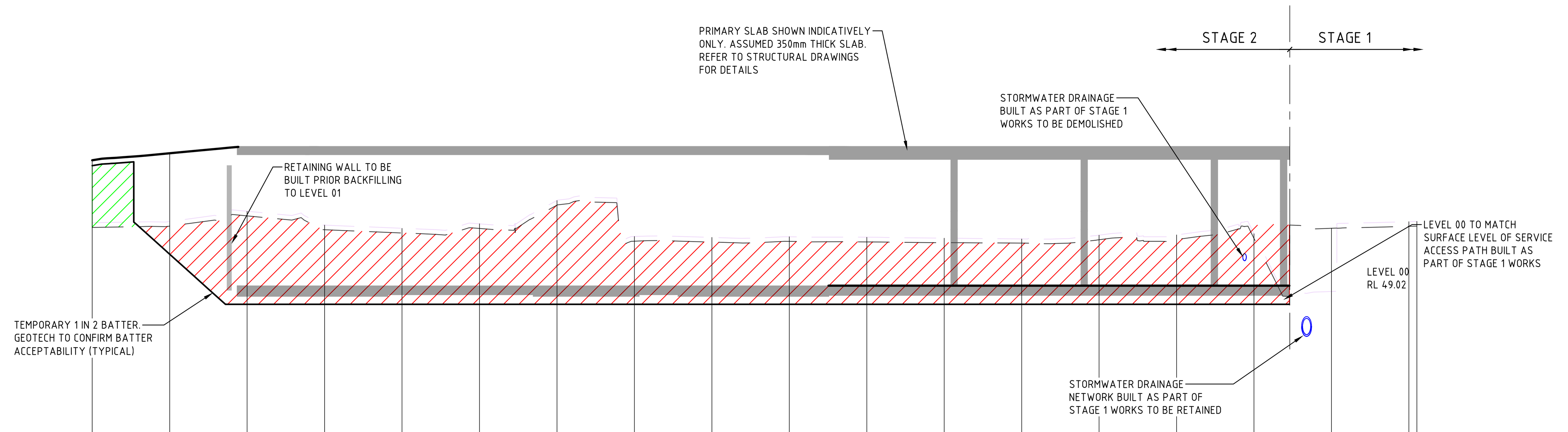


DATUM 36.6

SC01																			
DESIGN SURFACE LEVEL	50.989	50.970	50.938	50.728					47.820	47.857	47.844	47.822	48.957	49.083	49.006	48.903			
BULK EARTHWORKS SURFACE LEVEL	50.815	50.698	50.763	50.254	48.420	48.420	48.420	48.420	47.206	47.263	47.259	47.221	48.557	48.560	48.589	48.576			
STRIPPED EXISTING SURFACE LEVEL	50.651	50.615	50.625	50.327	50.159	50.337	50.325	50.557	49.930	50.120	50.024	49.985	50.006	50.011	50.090	50.372	50.544	50.534	50.534
EXISTING SURFACE LEVEL	50.801	50.765	50.775	50.477	50.309	50.487	50.475	50.707	50.080	50.270	50.174	50.083	49.972	50.100	50.240	50.522	48.794	50.684	50.684
CHAINAGES	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	85.509

1 in 200 HORIZONTAL
1 in 100 VERTICAL

SC01 LONGITUDINAL SECTION

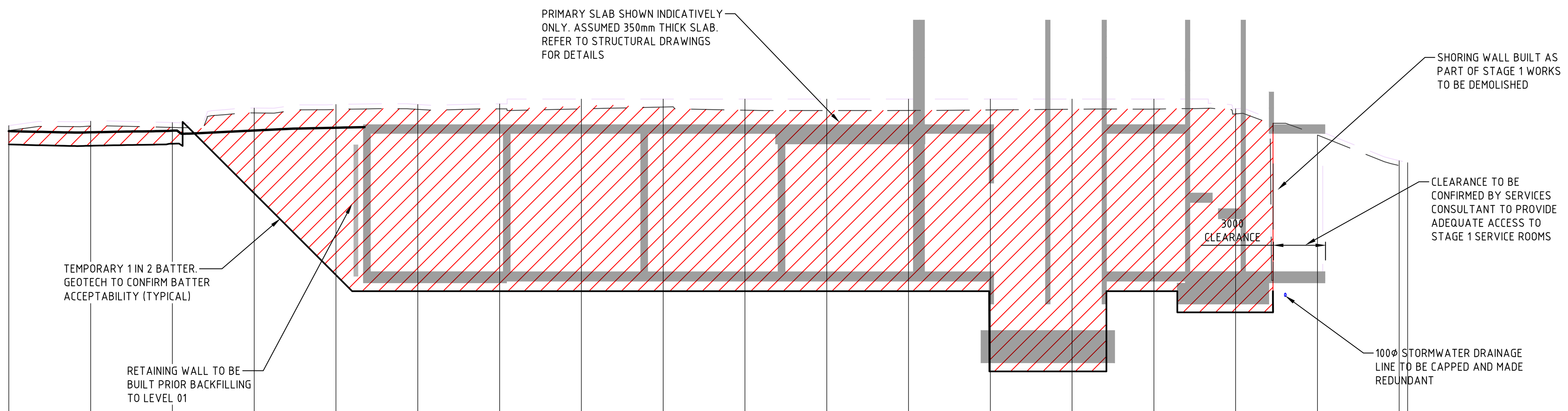


DATUM 36.6

SC02																			
DESIGN SURFACE LEVEL	53.068	53.294																	
BULK EARTHWORKS SURFACE LEVEL	52.893	50.036	48.420	48.420	48.420	48.420	48.420	48.420	48.420	48.420	48.420	48.420	48.420	48.420	48.420	48.420			
STRIPPED EXISTING SURFACE LEVEL	50.901	50.943	51.272	50.825	50.723	50.867	51.619	50.457	50.428	50.449	50.435	50.409	50.395	50.502	50.510	50.546	50.874	50.937	50.944
EXISTING SURFACE LEVEL	51.051	51.093	51.422	50.975	50.873	51.017	51.769	50.607	50.578	50.599	50.585	50.554	50.530	50.652	50.660	50.697	48.835	51.087	51.094
CHAINAGES	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	85.509

1 in 200 HORIZONTAL
1 in 100 VERTICAL

SC02 LONGITUDINAL SECTION

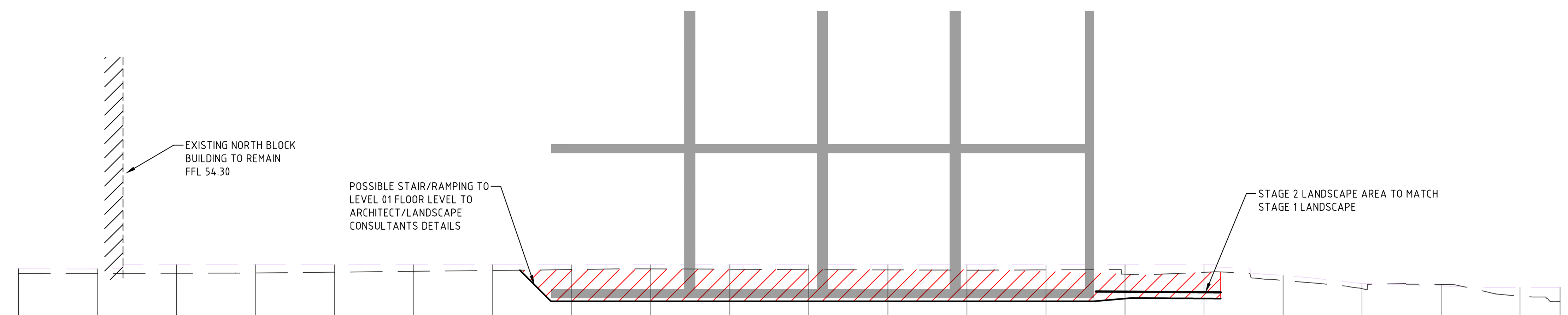


DATUM 36.6

SC03																			
DESIGN SURFACE LEVEL	53.315	53.281	53.329	53.337	53.422														
BULK EARTHWORKS SURFACE LEVEL	52.911	52.869	52.932	51.415	48.915	48.420	48.420	48.420	48.420	48.420	48.420	48.420	45.970	45.970	48.420	47.830			
STRIPPED EXISTING SURFACE LEVEL	53.334	53.472	53.430	53.874	53.982	53.983	53.999	53.998	54.055	53.957	53.948	53.950	53.965	53.988	53.990	53.843	53.196	52.262	52.200
EXISTING SURFACE LEVEL	53.484	53.622	53.580	54.024	54.132	54.133	54.149	54.300	54.300	54.300	54.300	54.300	54.300	54.300	54.300	54.001	48.919	52.412	52.350
CHAINAGES	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	85.509

1 in 200 HORIZONTAL
1 in 100 VERTICAL

SC03 LONGITUDINAL SECTION



DATUM 41.7

SC04																					
DESIGN SURFACE LEVEL															53.500	53.500					
BULK EARTHWORKS SURFACE LEVEL								53.140	53.140	53.140	53.140	53.140	53.140	53.140	53.200	53.200					
STRIPPED EXISTING SURFACE LEVEL	54.021	54.018	54.029	54.036	54.063	54.089	54.116	54.146	54.167	54.156	54.141	54.134	54.127	54.135	53.999	54.058	53.798	53.541	53.674	53.301	53.128
EXISTING SURFACE LEVEL	54.171	54.168	54.300	54.300	54.300	54.300	54.300	54.300	54.300	54.300	54.300	54.300	54.300	54.300	54.300	54.300	53.957	53.704	53.625	53.579	53.578
CHAINAGES	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	97.529

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SC04 LONGITUDINAL SECTION

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Rev	Description	Date	By	App
C	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-
P1	PRELIMINARY ISSUE	11.11.20	HM	-

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CBRE

NSW GOVERNMENT Health Infrastructure

MEINHARDT BONACCI

Level 4, 66 Clarence Street Sydney NSW 2000 Australia

Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: BULK EARTHWORKS SECTIONS SHEET 1

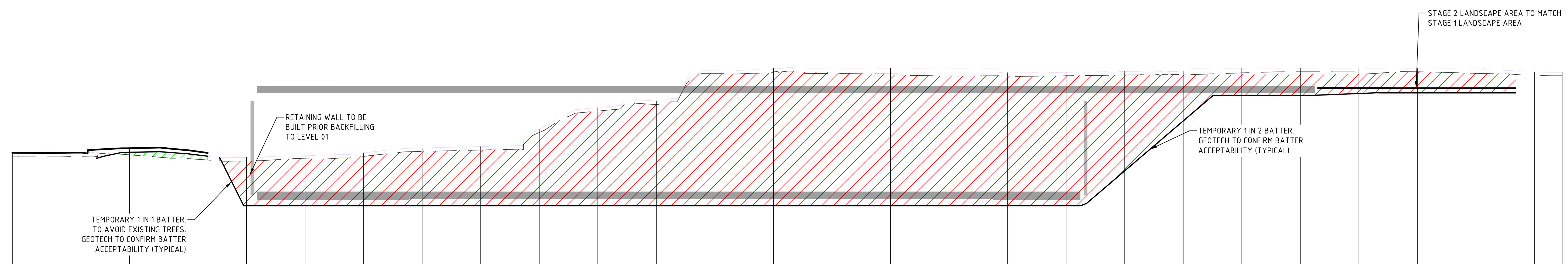
SCHEMATIC DESIGN

Designed JF
Drawn JF
Scale AS SHOWN
Date NOV. 2020
Sheet A0

Approved | Date | North

Project Ref | Drawing No: NHR-BON-CIV-TB2-ALL-0000011 | Rev: C

File: \\AU-SYD-FS01\Data\Job\12260-01\03 WIP\02 Civil\01 CAD\01 Autocad\Nepean Tower Stage 2\NHR-BON-DRW-CIV-TB2-ALL-0000011.dwg
Plotted: 05.08.21 at 9:18 AM By: Neil Carino



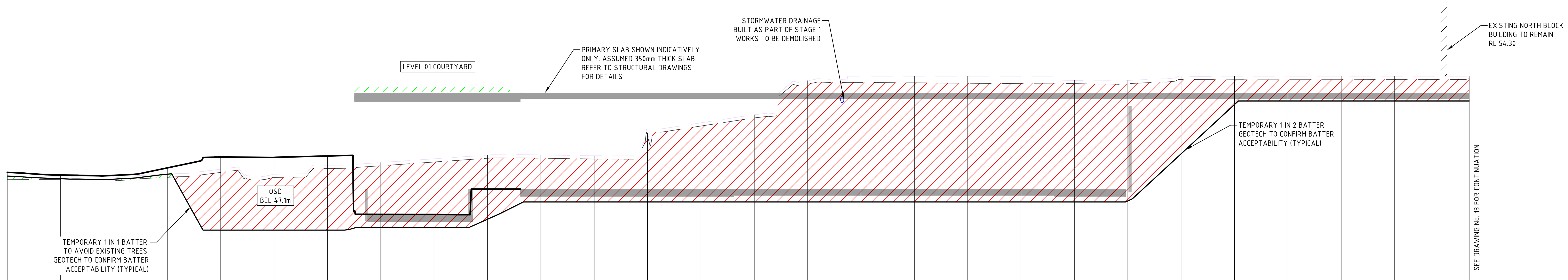
DATUM 42.0

SC05

CHAINAGES	DESIGN SURFACE LEVEL	BULK EARTHWORKS SURFACE LEVEL	STRIPPED EXISTING SURFACE LEVEL	EXISTING SURFACE LEVEL
0.000	50.682		50.509	50.659
5.000	50.685		50.518	50.668
10.000	50.879	50.704	50.594	50.744
15.000	50.788	50.636	50.437	50.587
20.000		48.420	50.335	50.485
25.000		48.420	50.427	50.577
30.000		48.420	50.529	50.679
35.000		48.420	50.741	50.891
40.000		48.420	50.799	50.949
45.000		48.420	51.548	51.698
50.000		48.420	52.463	52.613
55.000		48.420	52.744	52.894
60.000		48.420	54.063	54.213
65.000		48.420	54.140	54.290
70.000		48.420	54.068	54.300
75.000		48.420	54.052	54.300
80.000		48.420	53.964	54.300
85.000		48.420	53.956	54.106
90.000		48.420	53.972	54.122
95.000		49.675	54.005	54.155
100.000		51.965	54.017	54.161
105.000		53.140	54.096	54.300
110.000		53.140	54.143	54.300
115.000	53.500	53.200	54.139	54.300
120.000	53.500	53.200	54.142	54.300
125.000	53.500	53.200	54.077	54.300
130.000			53.992	54.142
132.358			53.973	54.123

1 in 200 HORIZONTAL
1 in 100 VERTICAL

SC05 LONGITUDINAL SECTION



SEE DRAWING No. 13 FOR CONTINUATION

DATUM 37.6

SC06

CHAINAGES	DESIGN SURFACE LEVEL	BULK EARTHWORKS SURFACE LEVEL	STRIPPED EXISTING SURFACE LEVEL	EXISTING SURFACE LEVEL
0.000	49.804	49.629	49.476	49.626
5.000	49.675	49.505	49.472	49.622
10.000	49.660	49.485	49.447	49.597
15.000	50.012	49.718	49.569	49.719
20.000	50.515	47.100	49.800	49.950
25.000	50.503	47.100	49.567	49.717
30.000	50.569	47.100	49.985	50.135
35.000	47.839	47.217	50.110	50.260
40.000	47.833	47.227	50.285	50.435
45.000	49.020	47.609	50.460	50.610
50.000		48.420	50.465	50.615
55.000		48.420	50.426	50.576
60.000		48.420	51.472	51.622
65.000		48.420	51.967	52.117
70.000		48.420	52.347	52.497
75.000		48.420	53.940	54.090
80.000		48.420	54.007	54.300
85.000		48.420	53.988	54.300
90.000		48.420	53.969	54.300
95.000		48.420	53.963	54.300
100.000		48.420	53.950	54.100
105.000		48.468	53.944	54.094
110.000		50.464	54.140	54.290
115.000		52.964	54.131	54.300
120.000		53.140	54.131	54.300
125.000		53.140	54.134	54.300
130.000		53.140	54.137	54.300
135.000		53.140	54.140	54.300
137.000		53.140	54.179	54.300

1 in 200 HORIZONTAL
1 in 100 VERTICAL

SC06 LONGITUDINAL SECTION

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Plotted: 05.08.21 at 9:20 AM By: Neil Carino

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Rev	Description	Date	By	App
C	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-
P1	PRELIMINARY ISSUE	11.11.20	HM	-

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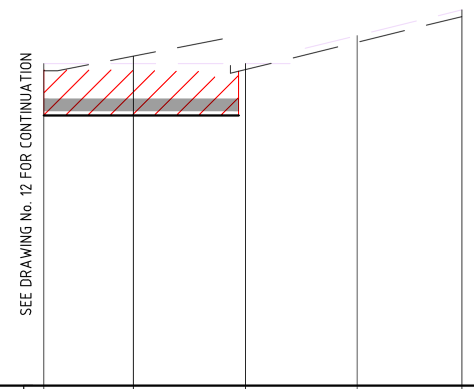
Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR)
DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: BULK EARTHWORKS SECTIONS SHEET 2

SCHEMATIC DESIGN

Designed	JF
Drawn	JF
Scale	AS SHOWN
Date	NOV. 2020
Sheet	A0
Approved	
Date	
North	
Project Ref	
Drawing No	NHR-BON-CIV-TB2-ALL-0000012
Rev	C

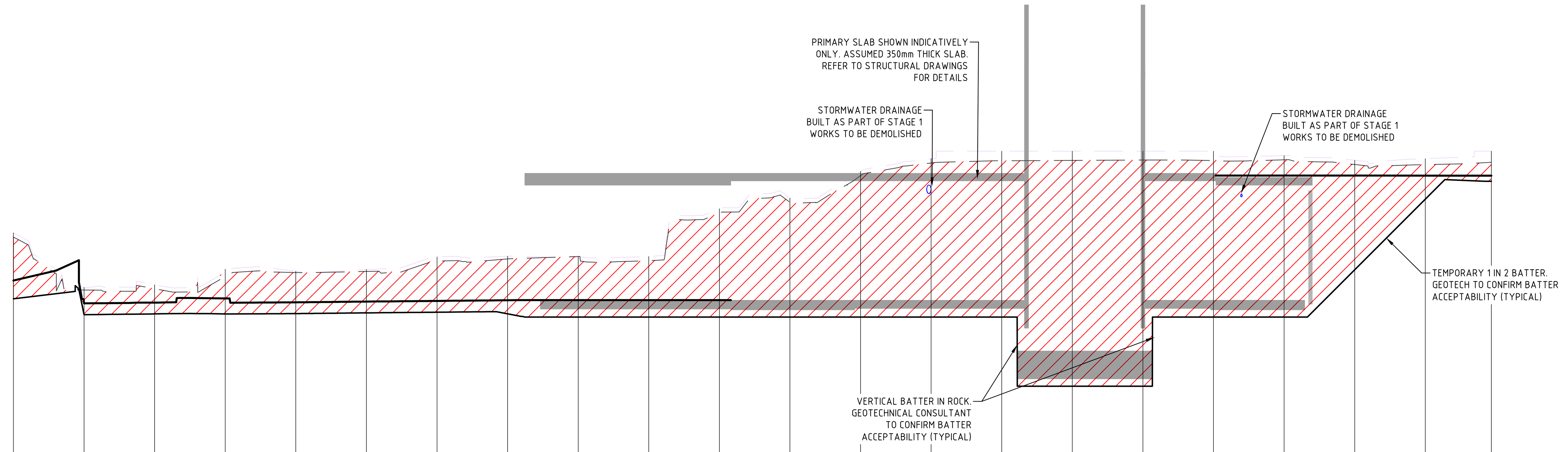


DATUM 47.1

SC06					
DESIGN SURFACE LEVEL					
BULK EARTHWORKS SURFACE LEVEL	53.140	53.140			
STRIPPED EXISTING SURFACE LEVEL	54.141	54.468	54.166	54.780	55.353
EXISTING SURFACE LEVEL	54.300	54.300	54.300	54.930	55.503
CHAINAGES	136.000	140.000	145.000	150.000	154.676

1 in 200 HORIZONTAL
1 in 100 VERTICAL

SC06 LONGITUDINAL SECTION



DESIGN GRADELINE

HORIZONTAL GEOMETRY

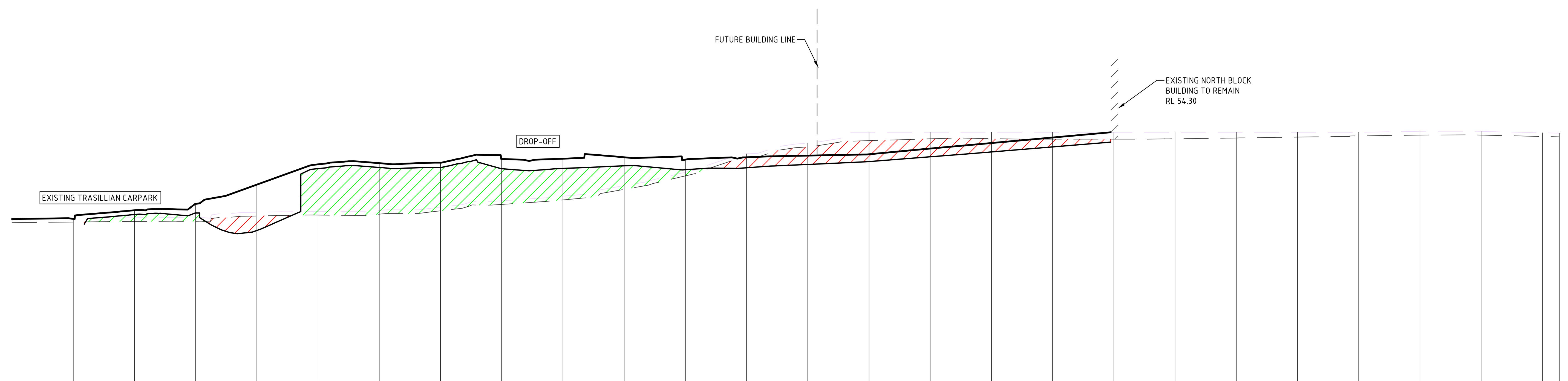
DATUM 40.1

SC07											
DESIGN SURFACE LEVEL	49.716	48.918	48.932	49.079	48.942	48.968	48.991	49.014	49.020	49.020	49.020
BULK EARTHWORKS SURFACE LEVEL	49.065	48.512	48.531	48.531	48.542	48.568	48.591	48.535	48.420	48.420	48.420
STRIPPED EXISTING SURFACE LEVEL	51.253	49.379	49.423	49.967	49.997	50.036	50.403	50.479	50.566	50.416	52.110
EXISTING SURFACE LEVEL	51.403	49.470	49.565	50.117	50.041	50.102	50.553	50.575	50.513	50.566	52.260
CHAINAGES	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000

SC07											
DESIGN SURFACE LEVEL								53.436	53.434	53.433	53.431
BULK EARTHWORKS SURFACE LEVEL	48.420	48.420	48.420	48.420	45.970	45.970	48.420	48.420	50.096	52.596	53.231
STRIPPED EXISTING SURFACE LEVEL	52.483	53.434	53.880	53.960	53.972	53.984	53.965	53.994	53.827	53.823	53.904
EXISTING SURFACE LEVEL	52.633	53.584	54.030	54.300	54.300	54.300	54.300	54.144	53.977	54.034	54.300
CHAINAGES	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	104.682

1 in 200 HORIZONTAL
1 in 100 VERTICAL

SC07 LONGITUDINAL SECTION



DATUM 44.1

SC08													
DESIGN SURFACE LEVEL	50.754	50.762	51.113	51.376	52.161	52.990	53.038	53.059	53.212	53.222	53.279	53.185	53.279
BULK EARTHWORKS SURFACE LEVEL			50.938	51.002	50.289	52.815	52.864	52.863	52.811	52.822	52.932	52.771	52.850
STRIPPED EXISTING SURFACE LEVEL	50.609	50.633	50.658	50.665	50.881	50.919	50.956	51.091	51.353	51.538	51.968	52.518	53.267
EXISTING SURFACE LEVEL	50.759	50.783	50.808	50.815	51.031	51.069	51.106	51.241	51.503	51.688	52.118	52.668	53.417
CHAINAGES	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000

SC08														
DESIGN SURFACE LEVEL	53.347	53.403	53.635	53.860	54.085									
BULK EARTHWORKS SURFACE LEVEL	52.985	53.102	53.298	53.498	53.704									
STRIPPED EXISTING SURFACE LEVEL	53.704	53.959	54.033	54.041	54.020	54.021	54.033	54.068	54.102	54.152	54.187	54.185	54.129	54.114
EXISTING SURFACE LEVEL	53.854	54.300	54.300	54.300	54.300	54.300	54.300	54.300	54.300	54.302	54.337	54.335	54.279	54.264
CHAINAGES	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	105.000	110.000	115.000	120.000	125.000	126.386

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SC08 LONGITUDINAL SECTION

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B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-
P1	PRELIMINARY ISSUE	11.11.20	HM	-

Rev	Description	Date	By	App

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR)
DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: BULK EARTHWORKS SECTIONS SHEET 3

SCHEMATIC DESIGN

Designed	JF	Approved	Date	North
Drawn	JF			
Scale	AS SHOWN	Project Ref	Drawing No	Rev
Date	NOV. 2020			
Sheet	A0	NHR-BON-CIV-TB2-ALL-0000013		C

File: \\AU-SYD-FS01\Data\Job\12260-01\03 WIP\02 Civil\01 CAD\01 Autocad\Nepean Tower Stage 2\NHR-BON-DRW-CIV-TB2-ALL-0000013.dwg
Plotted: 05.08.21 at 9:23 AM By: Neil Carino

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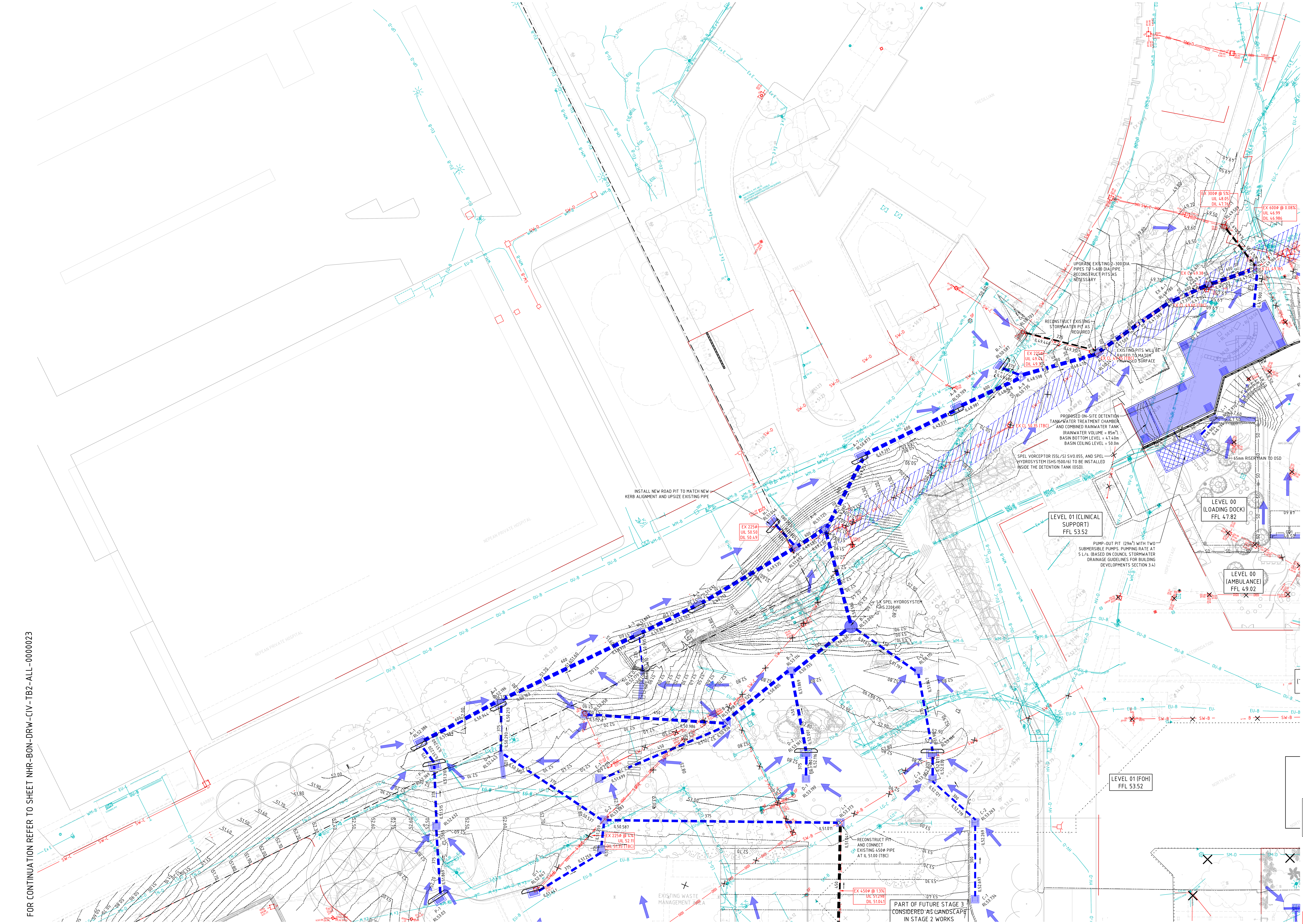
FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000023

FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000024 AND 0000026



FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000023 AND 0000024

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
- EX SEWER LINE
- EX WATER MAIN
- EX GAS LINE
- EX TELECOMMUNICATIONS LINE
- EX ELECTRICAL LINE
- EX UNKNOWN SERVICE
- EXISTING SERVICE TO BE MADE REDUNDANT

STAGE 1 AS-BUILT SERVICES LEGEND

- AS-BUILT ELECTRICAL LINE
- AS-BUILT ELECTRICAL (LOW VOLTAGE) LINE
- AS-BUILT ELECTRICAL (HIGH VOLTAGE) LINE
- AS-BUILT SEWER (PLUMBING) LINE
- AS-BUILT GAS LINE
- AS-BUILT WATER LINE
- AS-BUILT COMMS LINE
- STORMWATER NETWORK BUILT AS PART OF STAGE 1 WORKS TO BE RETAINED UNO
- FLUSHOUT RISER WITH SUBSOIL DRAINAGE BUILT AS PART OF STAGE 1 WORKS
- SURFACE CONTOURS

SITEWORKS LEGEND

- SURFACE INLET PIT
- JUNCTION PIT
- IL 0.00 PIPE Ø IL 0.00 — STORMWATER DRAINAGE LINE
- PROPOSED 300 WIDE GRATED DRAIN
- PROPOSED STORMWATER EASEMENT (SHOWN INDICATIVELY ONLY)
- PROPOSED ON-SITE DETENTION TANK/ WATER TREATMENT CHAMBER AND POSSIBLE COMBINED RAINWATER TANK

DIAL BEFORE YOU DIG www.1100.com.au The Essential First Step

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.

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.

FOR REVIEW ONLY

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B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-
P2	ISSUE FOR SD	08.02.21	HM	-
P1	PRELIMINARY ISSUE	11.11.20	HM	-

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: MAIN WORKS STORMWATER DRAINAGE PLAN SHEET 1

SCHEMATIC DESIGN

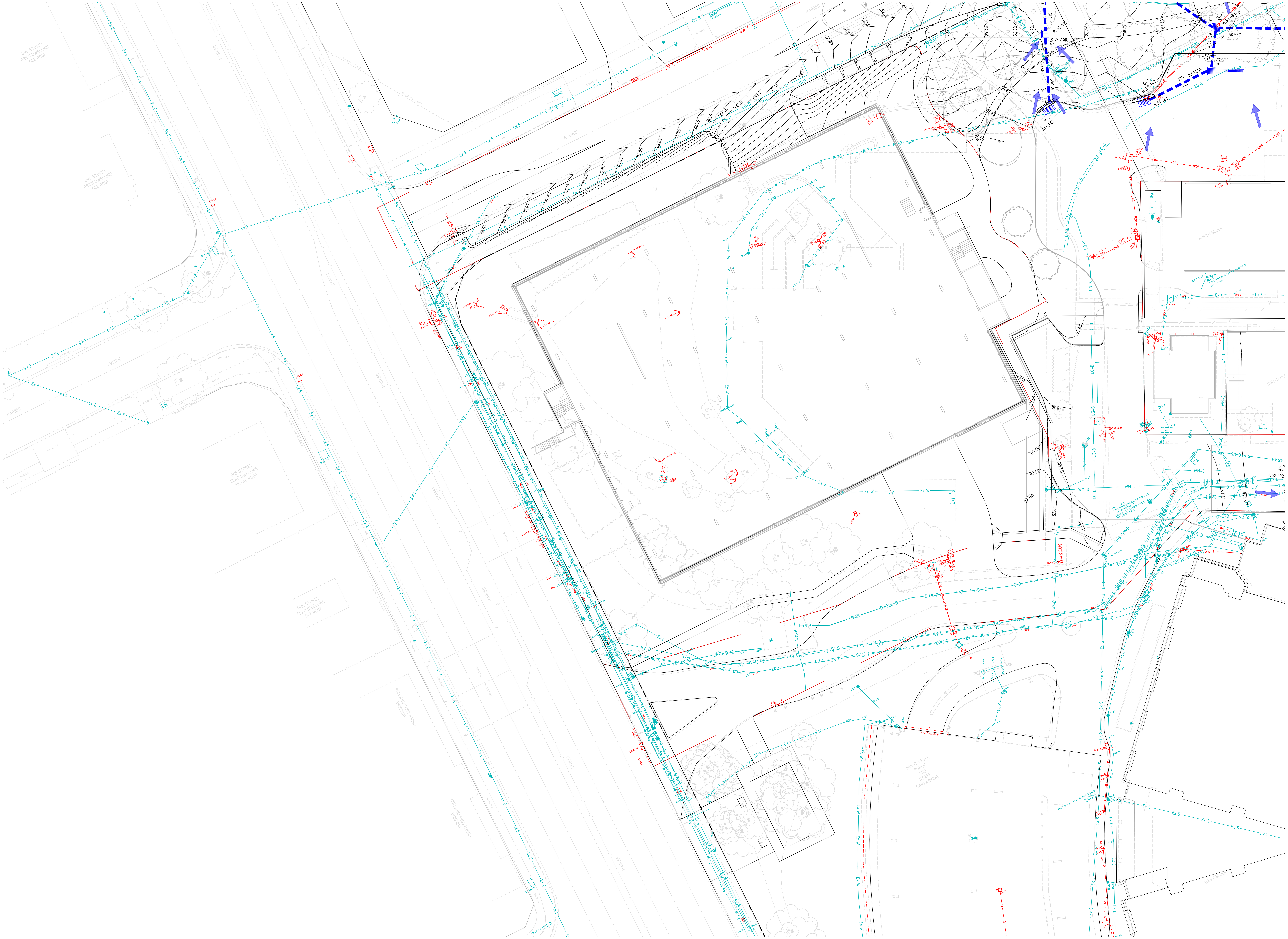
Designed YK | Drawn HM | Scale 1:200 | Date NOV. 2020 | Sheet A0

Approved | Date | North

Project Ref | Drawing No NHR-BON-CIV-TB2-ALL-0000022 | Rev C

File: \\AU-SYD-FS01\Data\Job\12260-01\03 WIP\02 Civil\01 CAD\01 Autocad\Nepean Tower Stage 2\NHR-BON-DRW-CIV-TB2-ALL-0000022.dwg
Plotted: 09.08.21 at 8:41 AM By: Neil Carino

FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000022



FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000024

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
- EX SEWER LINE
- EX WATER MAIN
- EX GAS LINE
- EX TELECOMMUNICATIONS LINE
- EX ELECTRICAL LINE
- EX UNKNOWN SERVICE
- EXISTING SERVICE TO BE MADE REDUNDANT

STAGE 1 AS-BUILT SERVICES LEGEND

- AS-BUILT ELECTRICAL LINE
- AS-BUILT ELECTRICAL (LOW VOLTAGE) LINE
- AS-BUILT ELECTRICAL (HIGH VOLTAGE) LINE
- AS-BUILT SEWER (PLUMBING) LINE
- AS-BUILT GAS LINE
- AS-BUILT WATER LINE
- AS-BUILT COMMS LINE
- STORMWATER NETWORK BUILT AS PART OF STAGE 1 WORKS TO BE RETAINED UNO
- FLUSHOUT RISER WITH SUBSOIL DRAINAGE BUILT AS PART OF STAGE 1 WORKS
- SURFACE CONTOURS

SITEWORKS LEGEND

- SURFACE INLET PIT
- JUNCTION PIT
- IL 0.00 PIPE ⌀ IL 0.00 STORMWATER DRAINAGE LINE
- PROPOSED 300 WIDE GRATED DRAIN
- PROPOSED STORMWATER EASEMENT (SHOWN INDICATIVELY ONLY)
- PROPOSED ON-SITE DETENTION TANK/ WATER TREATMENT CHAMBER AND POSSIBLE COMBINED RAINWATER TANK

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Rev	Description	Date	By	App
C	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-

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info@meinhardt-bonacci.com
www.meinhardt-bonacci.com

Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR)
DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: MAIN WORKS STORMWATER DRAINAGE PLAN SHEET 2

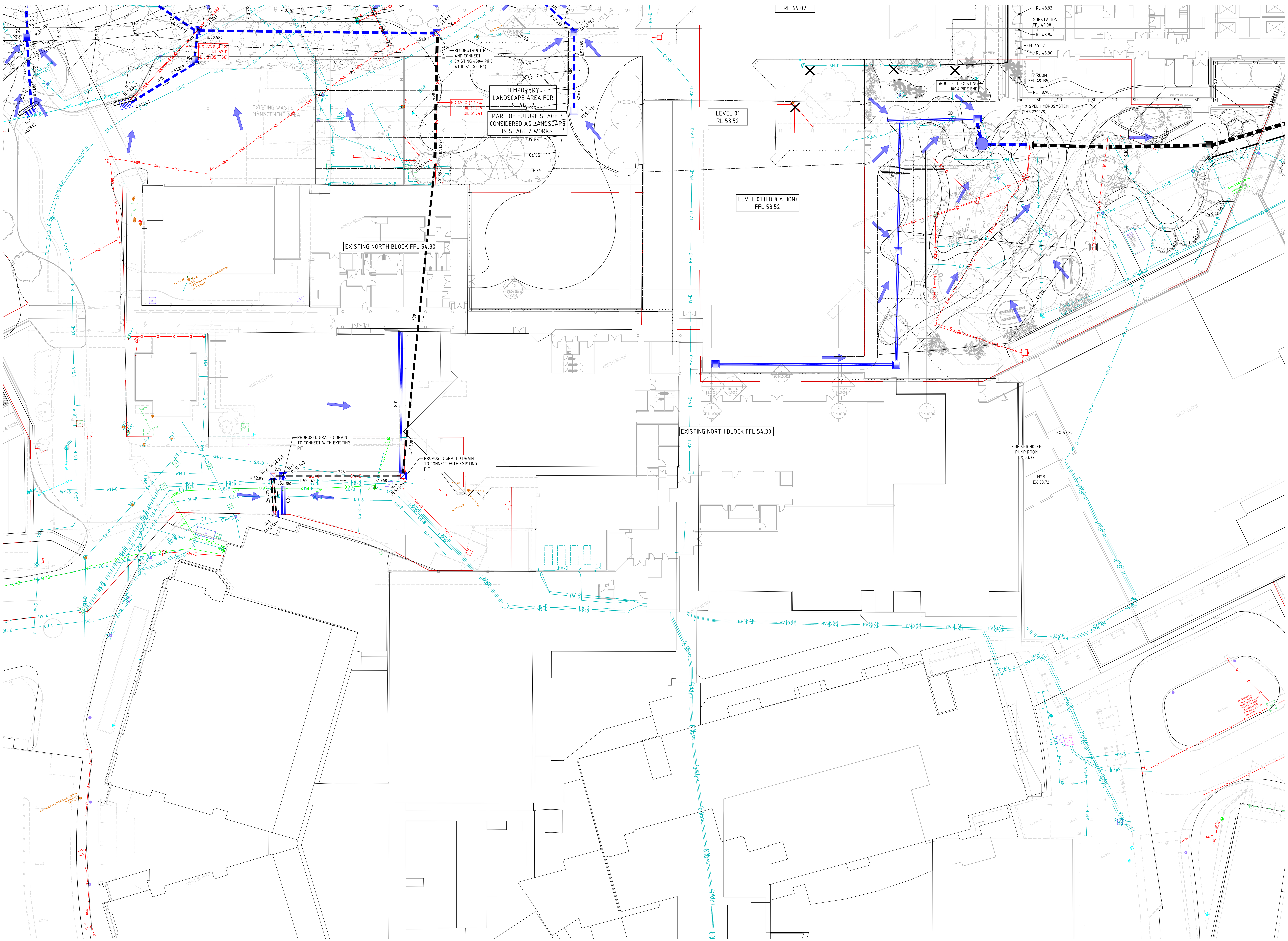
SCHEMATIC DESIGN

Designed	YK
Drawn	HM
Scale	1:200
Date	NOV. 2020
Sheet	A0
Approved	
Date	
North	
Project Ref	
Drawing No	NHR-BON-CIV-TB2-ALL-0000023
Rev	C

File: \\AU-SYD-FS01\Data\Job\12260-01\03 WIP\02 Civil\01 CAD\01 Auto...
Plotted: 03.08.21 at 4:16 PM By: Neil Carino

FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000022 AND 0000026

FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000023



FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000025

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
- EX SEWER LINE
- EX WATER MAIN
- EX GAS LINE
- EX TELECOMMUNICATIONS LINE
- EX ELECTRICAL LINE
- EX UNKNOWN SERVICE
- EXISTING SERVICE TO BE MADE REDUNDANT

STAGE 1 AS-BUILT SERVICES LEGEND

- AS-BUILT ELECTRICAL LINE
- AS-BUILT ELECTRICAL (LOW VOLTAGE) LINE
- AS-BUILT ELECTRICAL (HIGH VOLTAGE) LINE
- AS-BUILT SEWER (PLUMBING) LINE
- AS-BUILT GAS LINE
- AS-BUILT WATER LINE
- AS-BUILT COMMS LINE
- STORMWATER NETWORK BUILT AS PART OF STAGE 1 WORKS TO BE RETAINED UNO
- FLUSHOUT RISER WITH SUBSOIL DRAINAGE BUILT AS PART OF STAGE 1 WORKS
- SURFACE CONTOURS

SITEWORKS LEGEND

- SURFACE INLET PIT
- JUNCTION PIT
- IL 0.00 PIPE Ø IL 0.00 STORMWATER DRAINAGE LINE
- PROPOSED 300 WIDE GRATED DRAIN
- PROPOSED STORMWATER EASEMENT (SHOWN INDICATIVELY ONLY)
- PROPOSED ON-SITE DETENTION TANK/ WATER TREATMENT CHAMBER AND POSSIBLE COMBINED RAINWATER TANK

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File: \\AU-SYD-FS01\Data\Job\12260-01\03 WIP\02 Civil\01 CAD\01 Autocad\...
Plotted: 09.08.21 at 8:48 AM By: Neil Carino

Rev	Description	Date	By	App
C	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-
P2	ISSUE FOR SD	08.02.21	HM	-
P1	PRELIMINARY ISSUE	11.11.20	HM	-

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: MAIN WORKS STORMWATER DRAINAGE PLAN SHEET 3

SCHEMATIC DESIGN

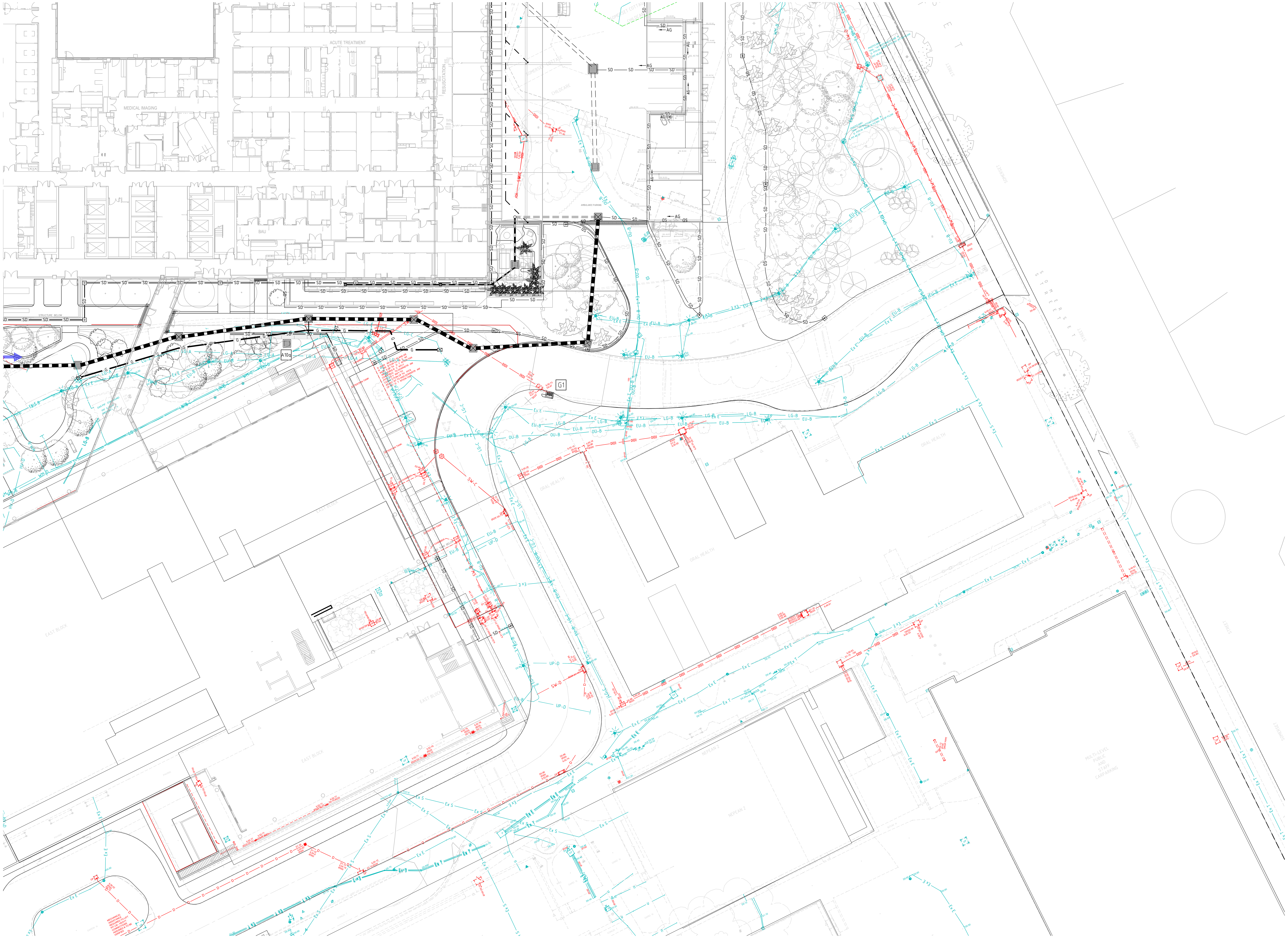
Designed	YK
Drawn	HM
Scale	1:200
Date	NOV. 2020
Sheet	A0

Approved | Date | North

Project Ref | Drawing No: NHR-BON-CIV-TB2-ALL-0000024 | Rev: C

FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000022 AND 0000026

FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000024



SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- SW / D(D) — EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
- S — EX SEWER LINE
- W — EX WATER MAIN
- G — EX GAS LINE
- T — EX TELECOMMUNICATIONS LINE
- E — EX ELECTRICAL LINE
- EX UNKNOWN SERVICE
- E — EXISTING SERVICE TO BE MADE REDUNDANT

STAGE 1 AS-BUILT SERVICES LEGEND

- E — AS-BUILT ELECTRICAL LINE
- ELV — AS-BUILT ELECTRICAL (LOW VOLTAGE) LINE
- EHV — AS-BUILT ELECTRICAL (HIGH VOLTAGE) LINE
- S — AS-BUILT SEWER (PLUMBING) LINE
- G — AS-BUILT GAS LINE
- W — AS-BUILT WATER LINE
- T — AS-BUILT COMMS LINE
- STORMWATER NETWORK BUILT AS PART OF STAGE 1 WORKS TO BE RETAINED UNO
- SD — FLUSHOUT RISER WITH SUBSOIL DRAINAGE BUILT AS PART OF STAGE 1 WORKS
- 49.00 — SURFACE CONTOURS

SITEWORKS LEGEND

- SURFACE INLET PIT
- JUNCTION PIT
- IL 0.00 PIPE ⌀ IL 0.00 — STORMWATER DRAINAGE LINE
- PROPOSED 300 WIDE GRATED DRAIN
- PROPOSED STORMWATER EASEMENT (SHOWN INDICATIVELY ONLY)
- PROPOSED ON-SITE DETENTION TANK/ WATER TREATMENT CHAMBER AND POSSIBLE COMBINED RAINWATER TANK

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Plotted: 05.08.21 at 2:44 PM By: Divisha Prasad

Rev	Description	Date	By	App
C	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-

Rev	Description	Date	By	App

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

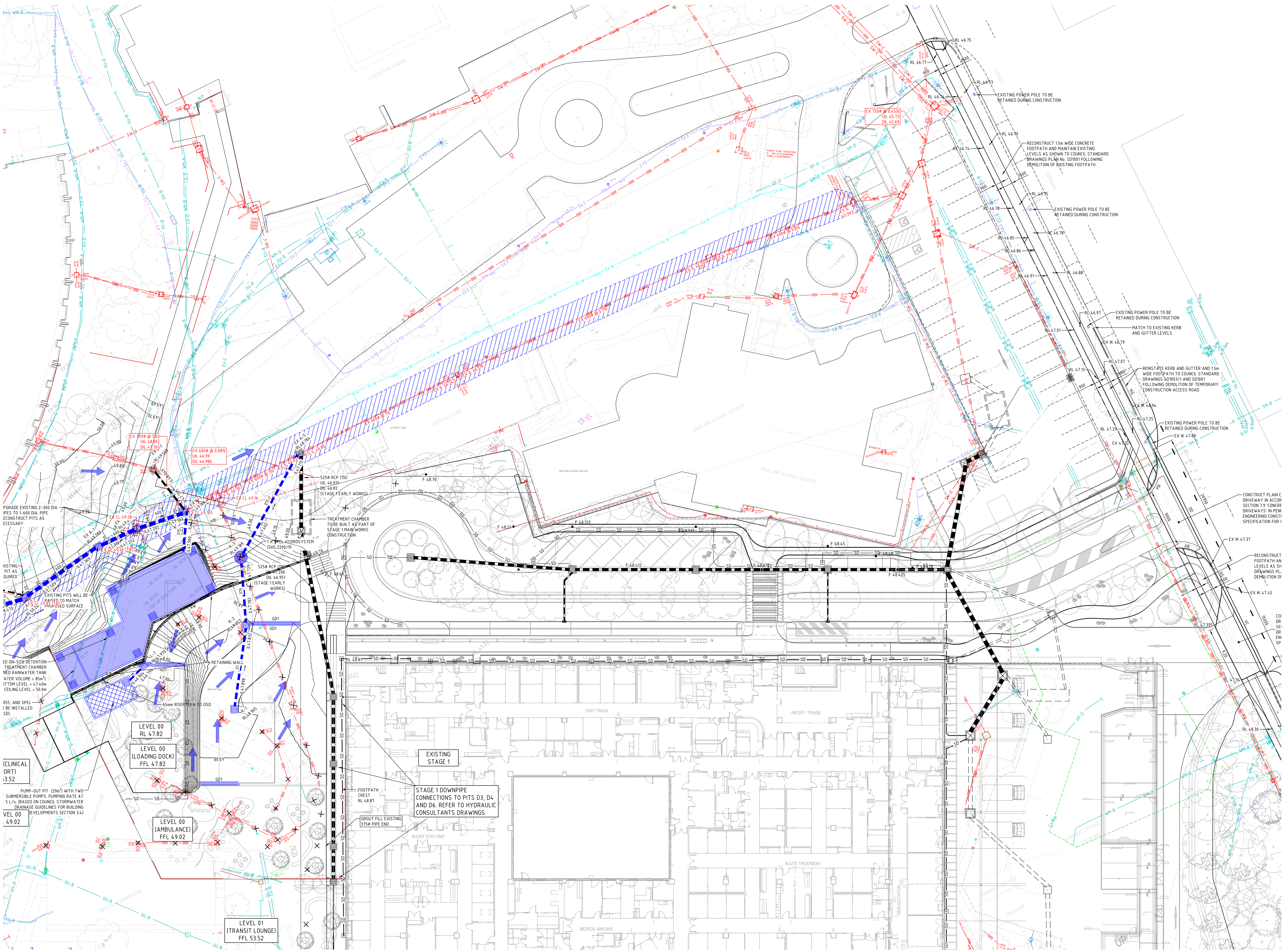
Drawing Title: MAIN WORKS STORMWATER DRAINAGE PLAN SHEET 4

SCHEMATIC DESIGN

Designed	YK
Drawn	HM
Scale	1:200
Date	NOV. 2020
Sheet	A0

Approved | Date | North

Project Ref | Drawing No: NHR-BON-CIV-TB2-ALL-0000025 | Rev: C



FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000024 AND 0000025

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
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- AS-BUILT ELECTRICAL (LOW VOLTAGE) LINE
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- SURFACE CONTOURS

SITEWORKS LEGEND

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Plotted: 08.08.21 at 4:16 PM By: Neil Carino

Rev	Description	Date	By	App
C	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-

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MEINHARDT BONACCI

Level 4, 66 Clarence Street
Sydney NSW 2000

Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR)
DERBY STREET, KINGSWOOD NSW 2747

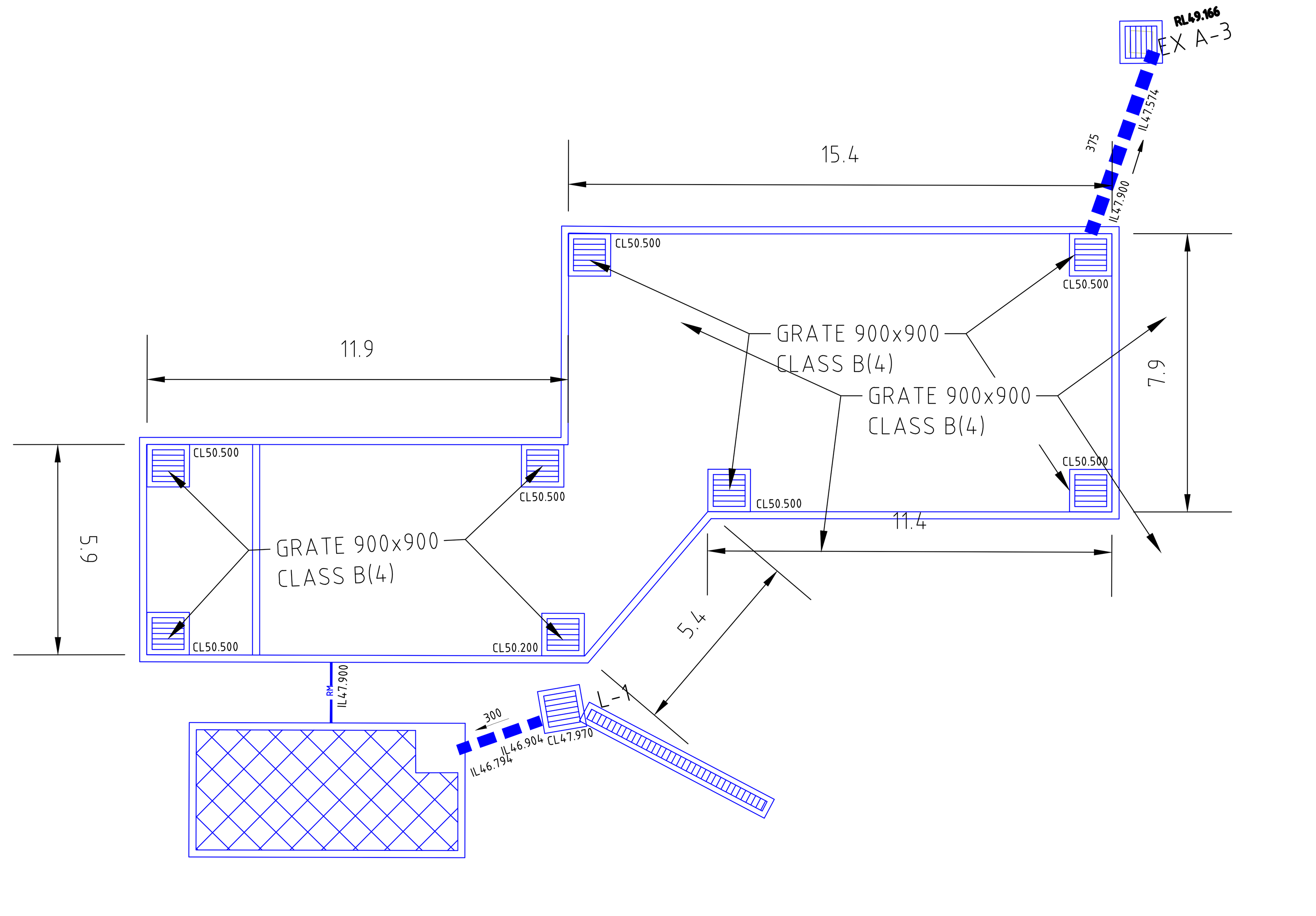
Drawing Title: MAIN WORKS STORMWATER DRAINAGE PLAN
SHEET 5

SCHEMATIC DESIGN

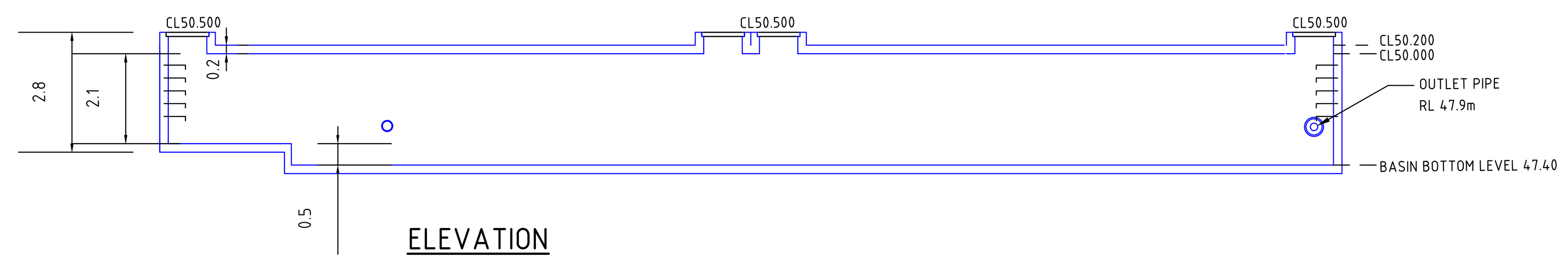
Designed	YK
Drawn	HM
Scale	1:200
Date	NOV. 2020
Sheet	A0

Approved | Date | North

Project Ref | Drawing No: NHR-BON-CIV-TB2-ALL-0000026 | Rev: C



ROOF PLAN



ELEVATION

NAPEAN STAGE 2 - PIT SCHEDULE								
PIT NAME	TYPE	EASTING	NORTHING	PIT SETOUT CL	INLET DIA	INV LEVEL	OUTLET DIA	INV LEVEL
A-1	1.8m INLET PIT	288183.070	6262295.678	52.386	600.000	51.084	600.000	51.084
A-2	1.8m INLET PIT	288196.650	6262292.288	52.196	600.000	50.944	600.000	50.163
A-3	1.8m INLET PIT	288220.289	6262286.388	51.803	600.000	49.919	600.000	49.869
A-4	1.8m INLET PIT	288230.591	6262283.832	51.471	600.000	49.763	600.000	49.713
A-5	GRATED INLET PIT 900x900	288248.183	6262280.962	51.692	600.000	49.535	600.000	49.485
A-6	GRATED INLET PIT 900x900	288253.539	6262280.167	51.725	600.000	49.430	600.000	49.380
A-7	1.8m INLET PIT	288265.436	6262285.003	50.873	600.000	49.251	600.000	49.201
A-7A	1.8m INLET PIT	288281.992	6262281.042	50.709	600.000	49.031	600.000	48.981
A-7B	1.8m INLET PIT (SAG)	288292.772	6262278.426	50.735	600.000	48.648	600.000	48.598
A-8	GRATED INLET PIT 900x900	288304.481	6262273.479	50.249	600.000	48.470	600.000	47.509
B-1	GRATED INLET PIT 900x900	288205.788	6262282.374	52.350		51.218	450.000	51.218
B-2	GRATED INLET PIT 900x900	288221.915	6262266.811	53.018	450.000	50.986	525.000	50.936
B-3	GRATED INLET PIT 900x900	288235.028	6262266.513	53.114	525.000	50.805	525.000	50.755
B-4	SPEL HYDROSYSTEM	288246.865	6262265.736	53.094	525.000	50.636	525.000	50.586
C-1	GRATED INLET PIT 900x900	288233.830	6262220.187	53.734		52.697	300.000	52.697
C-2	GRATED INLET PIT 900x900	288241.650	6262229.390	53.263	300.000	52.269	300.000	52.219
C-3	GRATED INLET PIT 900x900	288241.059	6262239.079	53.187	300.000	52.121	375.000	52.071
C-4	1.8m INLET PIT (SAG)	288243.675	6262242.182	53.166	375.000	52.030	375.000	51.980
C-5	GRATED INLET PIT 900x900	288250.353	6262253.490	53.115	375.000	51.847	450.000	51.797
D-1	GRATED INLET PIT 900x900	288225.817	6262252.031	53.190		52.180	375.000	52.180
D-2	1.8m INLET PIT (SAG)	288228.491	6262255.172	53.161	375.000	52.116	450.000	52.001
E-1	GRATED INLET PIT 900x900	288200.912	6262273.188	53.115		51.699	375.000	51.699
EX A-1	GRATED INLET PIT 900x900	288318.399	6262272.132	49.780	600.000	47.319	600.000	47.319
EX A-2	GRATED INLET PIT 900x900	288324.861	6262270.306	49.498	600.000	47.252	600.000	47.202
EX A-3	GRATED INLET PIT 900x900	288332.230	6262267.446	49.166	600.000	47.123	600.000	47.073
EX A-4	GRATED INLET PIT 900x900	288337.362	6262266.127	46.970	600.000	47.020	600.000	46.970
EX A-5	GRATED INLET PIT 900x900	288351.769	6262262.832	48.784	600.000	46.839	600.000	46.530
G-1	1.8m INLET PIT (SAG)	288181.952	6262266.322	52.947	375.000	51.463	375.000	51.413
G-2	GRATED INLET PIT 900x900	288197.284	6262267.682	53.083	375.000	51.259	375.000	50.537
G-3	ACO KS300	288191.576	6262286.122	52.443	375.000	50.343	375.000	50.293
H-1	1.8m INLET PIT	288248.099	6262286.052	51.046		50.080	525.000	50.080
I-1	JUNCTION PIT 900x900	288225.417	6262243.185	53.373		51.011	375.000	51.011
I-2	GRATED INLET PIT 900x900	288207.151	6262258.120	53.086	375.000	50.775	375.000	50.725
J-1	GRATED INLET PIT 900x900	288201.241	6262248.122	53.099		52.018	375.000	52.018
K-1	GRATED INLET PIT 900x900	288318.134	6262239.043	48.965		47.898	375.000	47.898
K-2	ACO KS300	288327.976	6262247.848	49.053	375.000	47.832	375.000	47.782
K-3	SPEL HYDROSYSTEM	288334.265	6262256.432	49.189	375.000	47.729	375.000	47.402
N-3	ACO KS300	288162.478	6262206.134	53.140	225.000	52.092	225.000	52.042
O-1	GRATED INLET PIT 900x900	288217.211	6262281.742	52.179		51.410	225.000	51.410
P-1	1.8m INLET PIT (SAG)	288182.506	6262291.738	52.369	375.000	51.310	375.000	51.260
R-1	1.8m INLET PIT	288291.404	6262281.655	50.587		49.485	375.000	49.485

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C	ISSUE FOR SD SUBMISSION	06.08.21	HC	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-

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MEINHARDT BONACCI

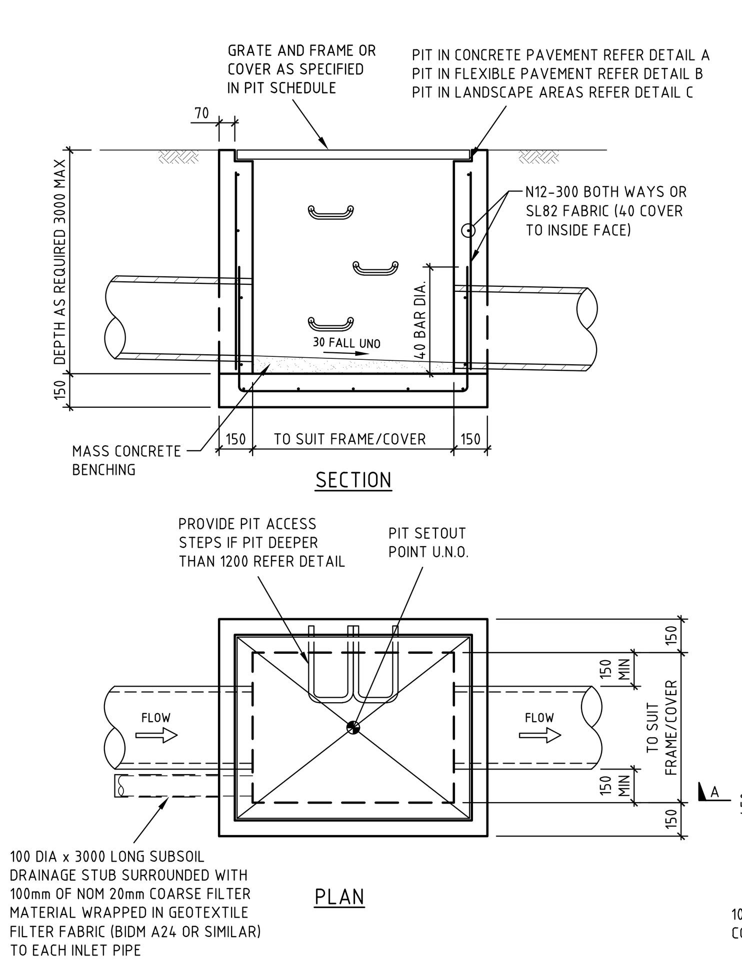
Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR)
DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: OSD DETAILS & PIT SCHEDULE
DRAINAGE PLAN

SCHEMATIC DESIGN

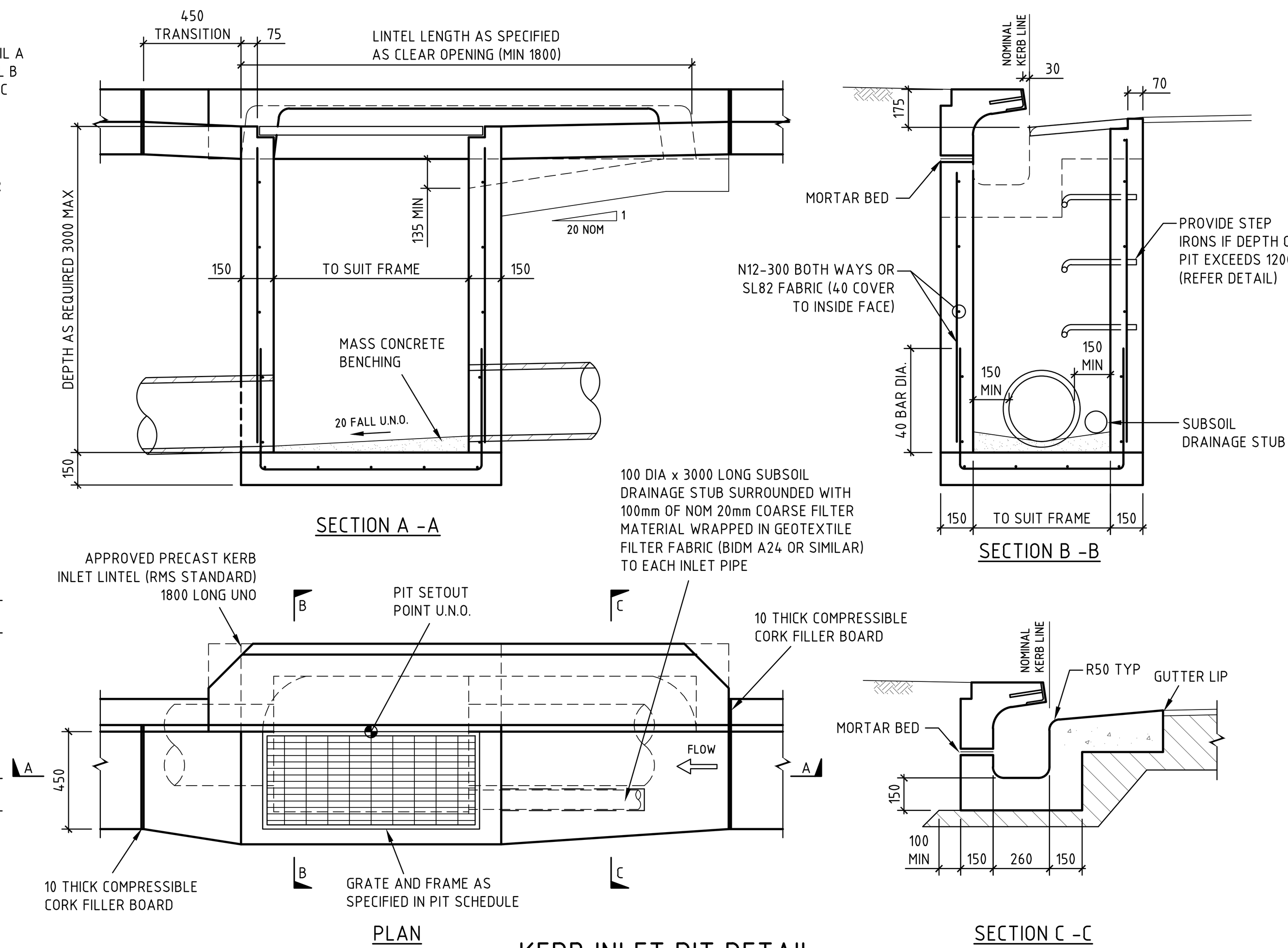
Designed: YK
Drawn: HM
Scale: AS NOTED
Date: NOV. 2020
Sheet: A0

Drawing No: NHR-BON-CIV-TB2-ALL-0000027
Rev: C



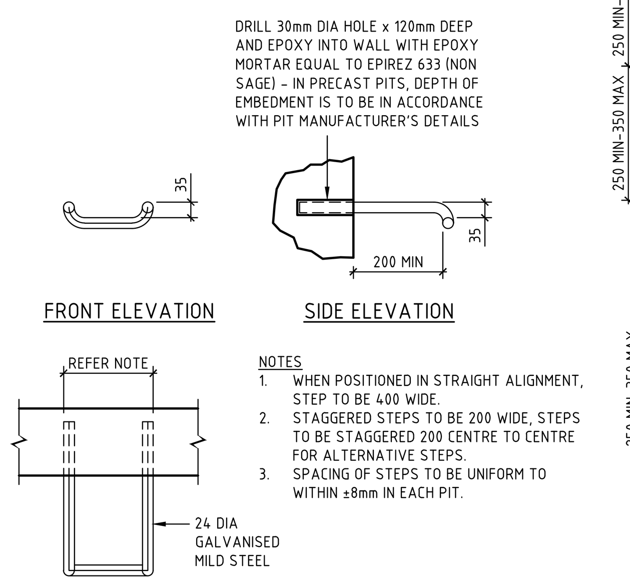
SURFACE INLET/JUNCTION PIT DETAIL

SCALE 1:20



KERB INLET PIT DETAIL

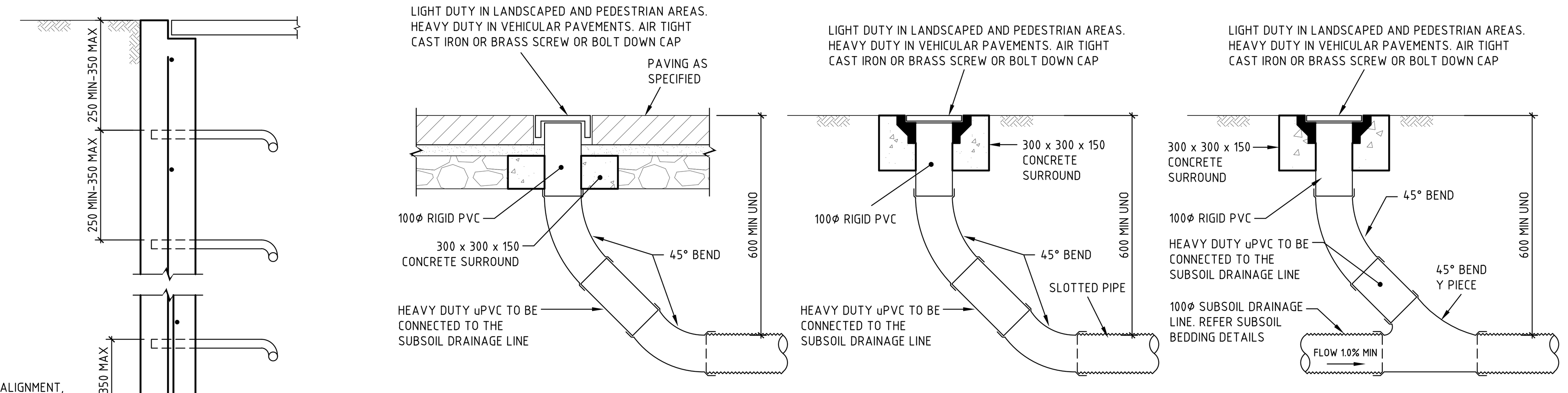
SCALE 1:20



NOTES
1. WHEN POSITIONED IN STRAIGHT ALIGNMENT, STEP TO BE 400 WIDE.
2. STAGGERED STEPS TO BE 200 WIDE, STEPS TO BE STAGGERED 200 CENTRE TO CENTRE FOR ALTERNATIVE STEPS.
3. SPACING OF STEPS TO BE UNIFORM TO WITHIN ±8mm IN EACH PIT.

PIT ACCESS STEP DETAIL

SCALE 1:10



FLUSHOUT RISER (FOR) IN PAVING BRICKS

SCALE 1:10

FLUSHOUT RISER (FOR)

SCALE 1:10

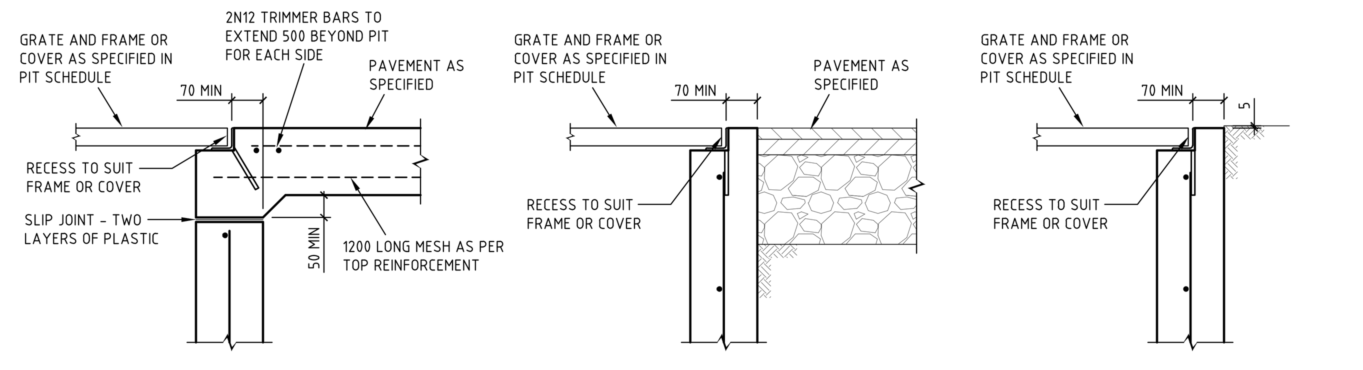
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS WITHIN DRAINAGE LAYER ONLY

INTERMEDIATE RISER

SCALE 1:10

NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED

FLUSHOUT RISER LOCATIONS TO COMPLY WITH AS3500.3 AS FOLLOWS:
- EACH POINT OF CONNECTION
- EVEN SPACINGS NOT MORE THAN 30m APART
- EACH END OF ANY INCLINED JUMP-UP THAT EXCEEDS 6m IN LENGTH
- EACH CONNECTION TO AN EXISTING SITE STORMWATER DRAIN
- AT ANY CHANGE OF DIRECTION GREATER THAN 45°



DETAIL A

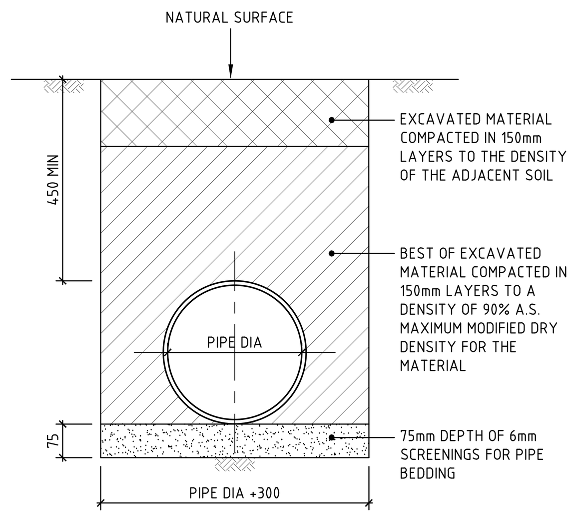
SCALE 1:10

DETAIL B

SCALE 1:10

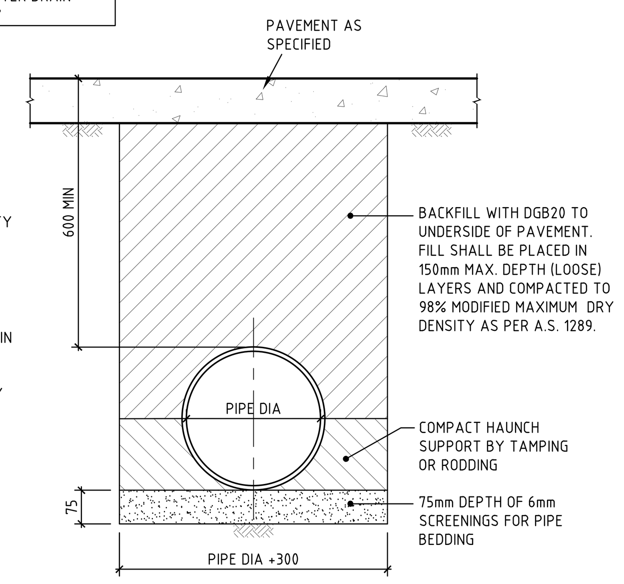
DETAIL C

SCALE 1:10



PIPE LAYING DETAIL (ALL PIPES) UNDER LANDSCAPED AREAS

SCALE 1:10



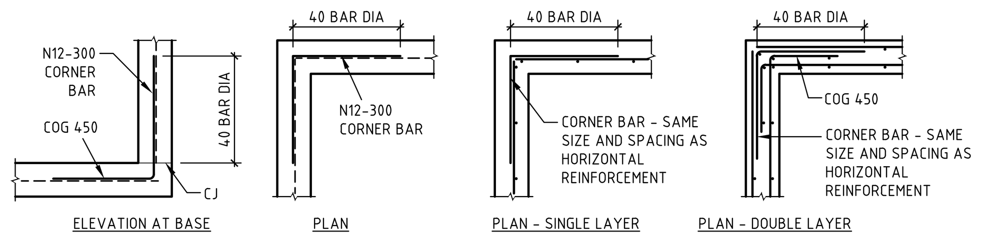
PIPE LAYING DETAILS UNDER ALL PAVEMENTS

SCALE 1:10

NOTE: AVOID RUNNING CONSTRUCTION EQUIPMENT OVER THE PIPES UNTIL BACKFILL MATERIAL IS 300mm MIN. ABOVE CROWN OF PIPE.

STORMWATER PIT NOTES

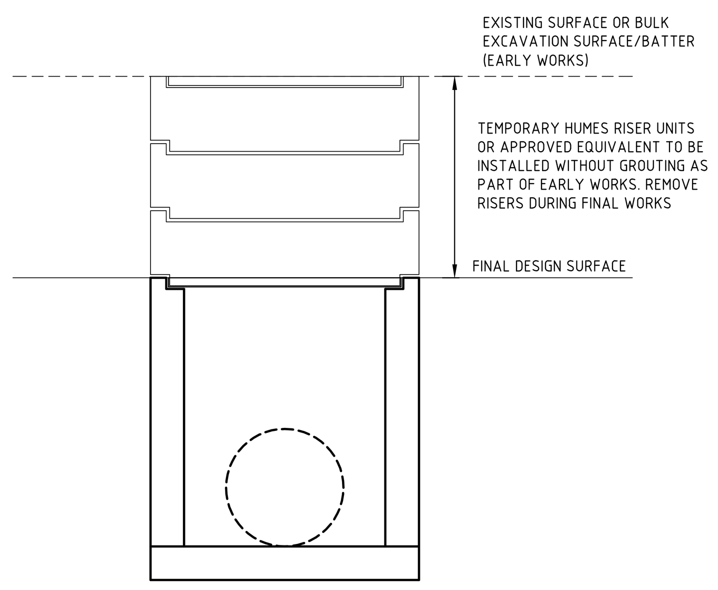
1. CONCRETE TO HAVE A MIN. COMPRESSIVE STRENGTH (F'c) OF 25 MPa AT 28 DAYS.
2. REINFORCEMENT NOT REQUIRED IF DEPTH OF PIT IS LESS THAN 1000mm. PITS GREATER THAN 3000mm DEEP TO HAVE WALL AND BASE 200mm THICK REINFORCED WITH N12-250 EACH WAY EACH FACE WITH CONCRETE STRENGTH F'c = 40 MPa.
3. PROVIDE STEP IRONS AT MAX 350mm CTRS IF DEPTH OF PIT EXCEEDS 1200mm.
4. IF REINFORCING FABRIC IS TO BE USED REFER TO WALL AND CORNER DETAILS
5. PRECAST PITS ARE TO GENERALLY COMPLY WITH THESE DETAILS.
6. PRECAST PIT MAY BE USED SUBJECT TO ENGINEERS APPROVAL.
7. ALL PITS TO BE LOCKABLE.
8. FINAL INTERNAL PIT DIMENSIONS ARE TO COMPLY WITH AS 3500.



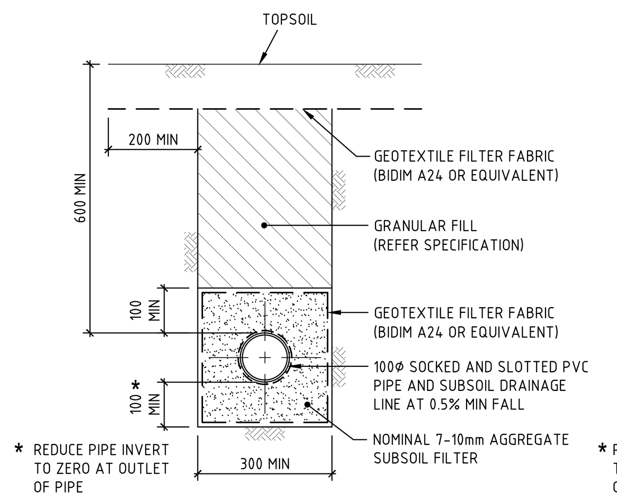
PIT CORNER DETAILS

SCALE 1:20

NOTE: DESIGNER TO VERIFY EXTENT OF DETAILING

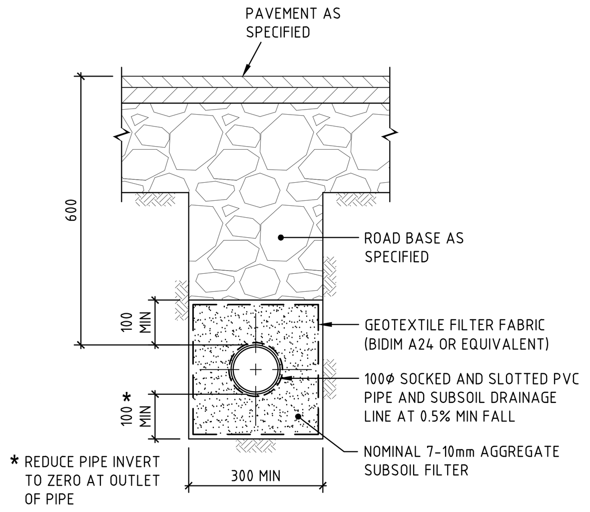


SURFACE INLET/JUNCTION PIT DETAIL (FOR PITS A3, A4, A5, A7 & B1)



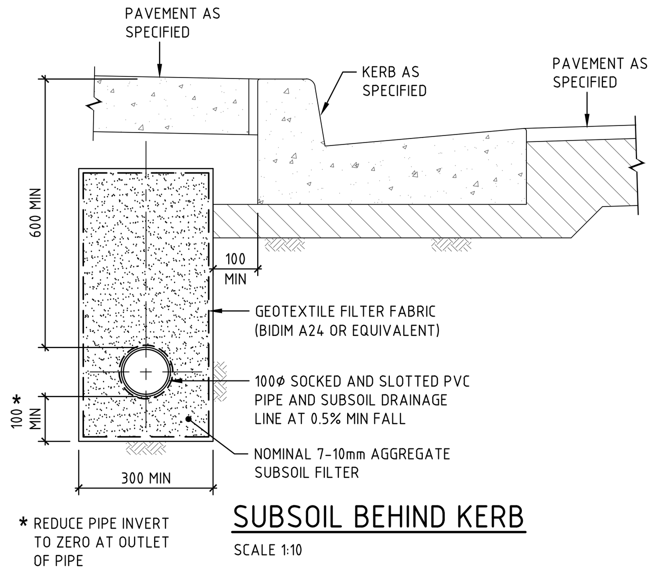
SUBSOIL IN LANDSCAPED AREAS

SCALE 1:10



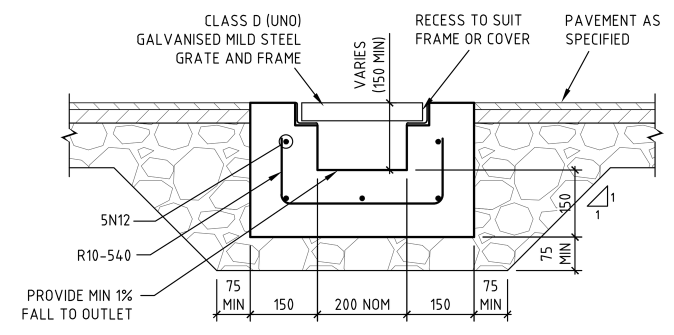
SUBSOIL IN PAVED AREAS

SCALE 1:10



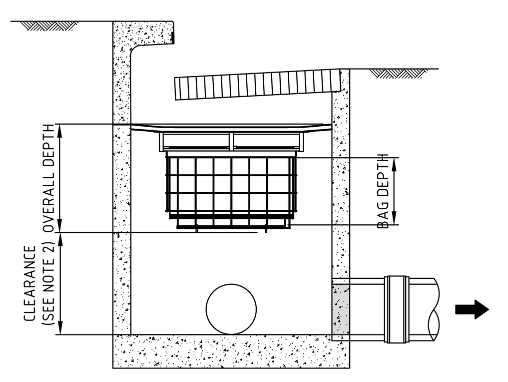
SUBSOIL BEHIND KERB

SCALE 1:10

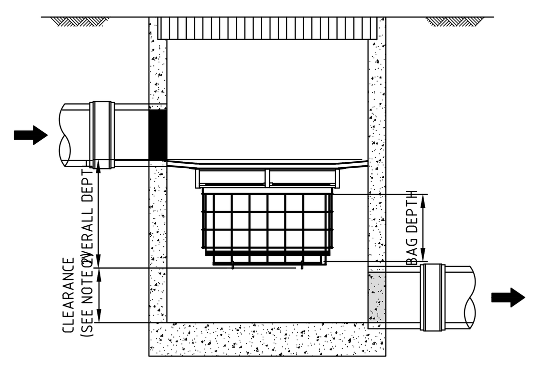


GRATED DRAIN (GD1)

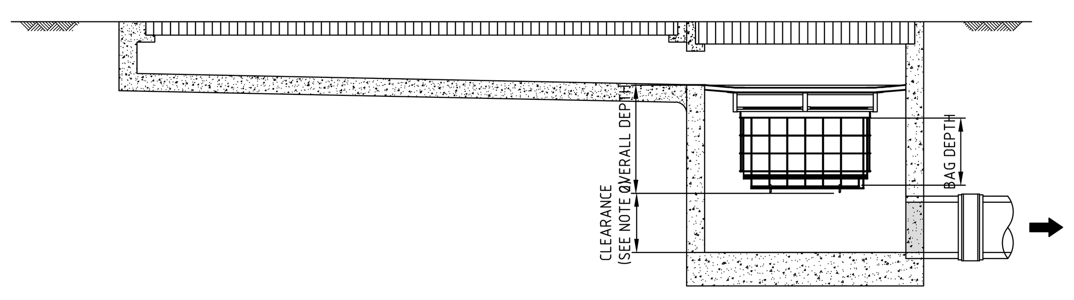
SCALE 1:10



SURFACE FLOW CONFIGURATION



PIPE FLOW CONFIGURATION



GRATED STRIP DRAIN CONFIGURATION

TYPICAL 'OCEANGUARD' FILTER BASKET PIT DETAILS

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: STORMWATER DRAINAGE DETAILS - SHEET 1

SCHEMATIC DESIGN

Designed YK | Drawn HM | Scale AS SHOWN | Date NOV. 2020 | Sheet A0

Approved | Date | North

Project Ref | Drawing No NHR-BON-CIV-TB2-ALL-0000040 | Rev C

File: \\AU-SYD-FS01\Data\Job\12260-01\03 WIP\02 Civil\01 CAD\01 Autocad\Nepean Tower Stage 2\NHR-BON-DRW-CIV-TB2-ALL-0000040.dwg
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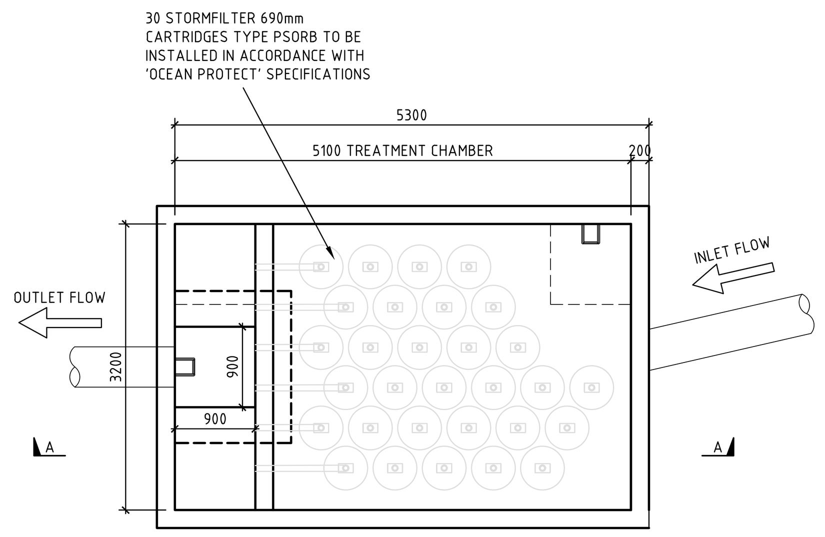
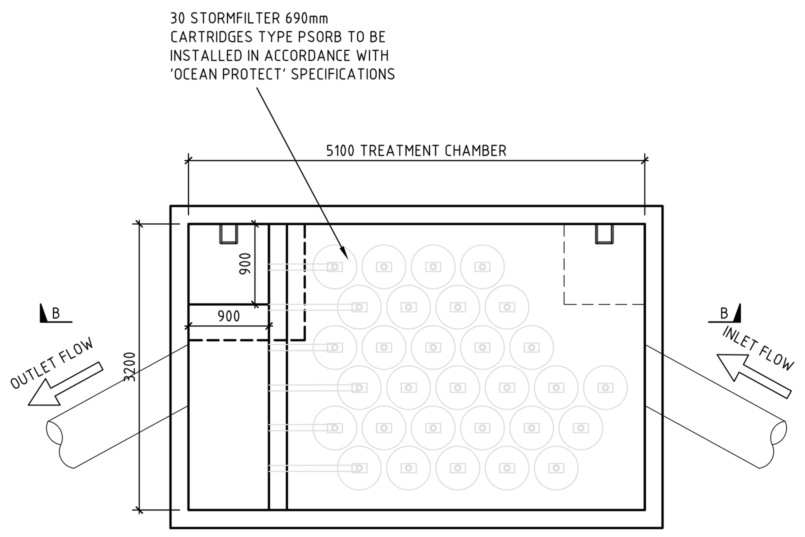


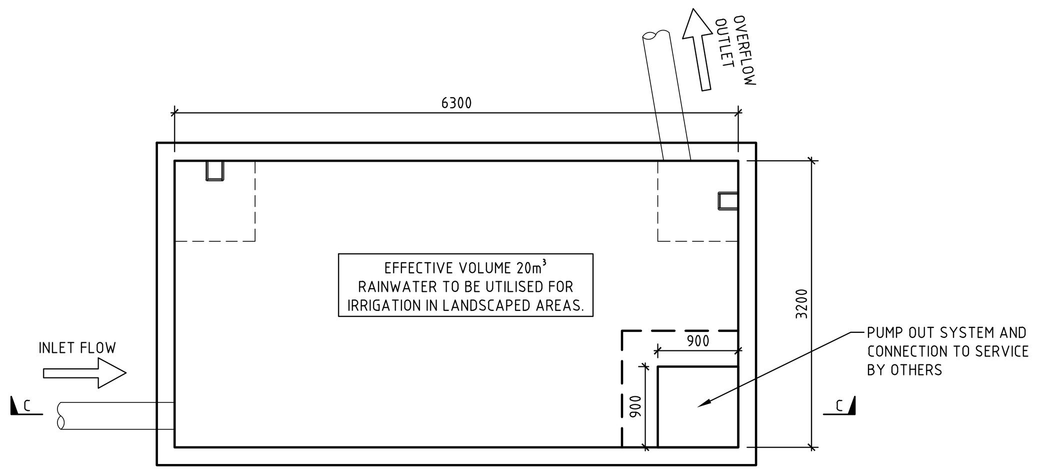
TREATMENT CHAMBER (WEST)

SCALE 1:50



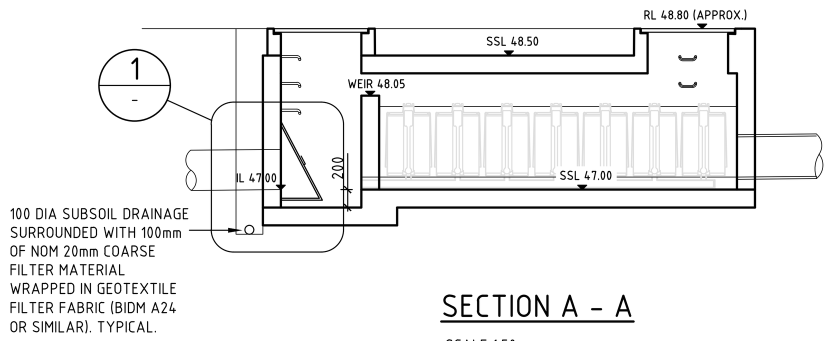
TREATMENT CHAMBER (EAST)

SCALE 1:50



RAINWATER RE-USE TANK (AMBULANCE BAY)

SCALE 1:50



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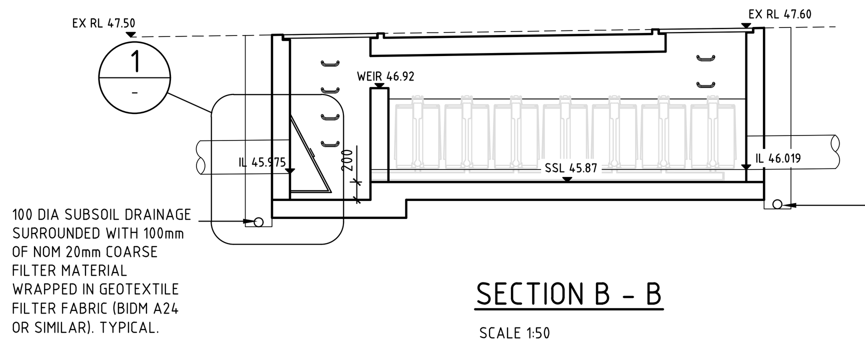
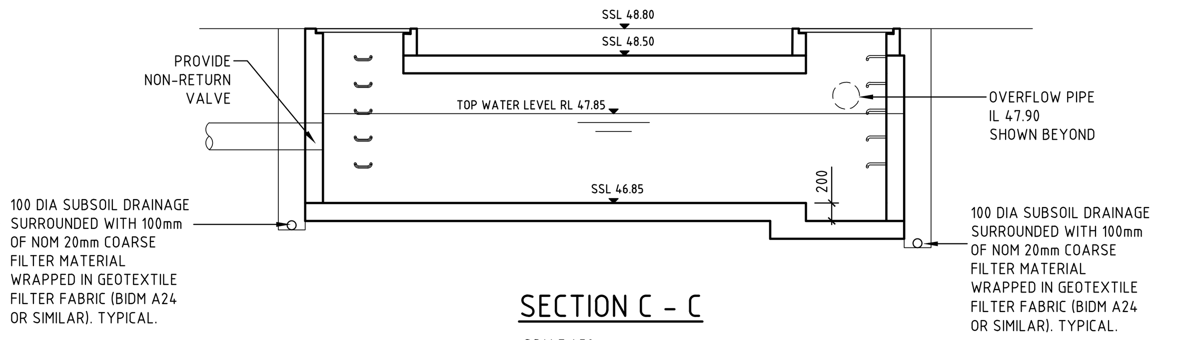


SECTION B - B

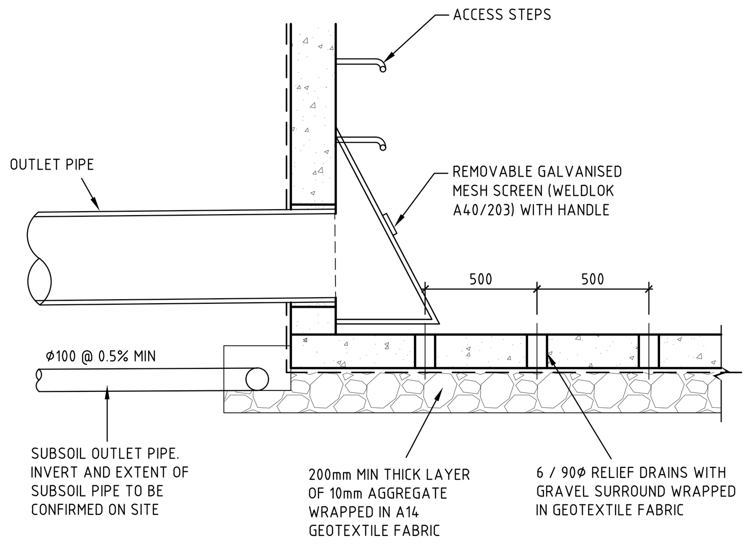
SCALE 1:50



SECTION C - C

SCALE 1:50

FOR ALL TANKS, ALLOW FOR 250 THICK BASE SLAB, 190 REINFORCED BLOCK WALLS AND 250 THICK BONDEK SLAB AS LID.
ALLOW FOR TEMPORARY PROPPING TO MID SPAN OF BONDEK SLAB AT MID SPAN. FINAL TANK DETAILS TO BE CONFIRMED



DETAIL 1

SCALE 1:20

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Plotted: 05.08.21 at 3:08 PM By: Divisha Prasad

Rev	Description	Date	By	App
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A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-
P1	PRELIMINARY ISSUE	11.11.20	HM	-

Rev	Description	Date	By	App

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR)
DERBY STREET, KINGSWOOD NSW 2747

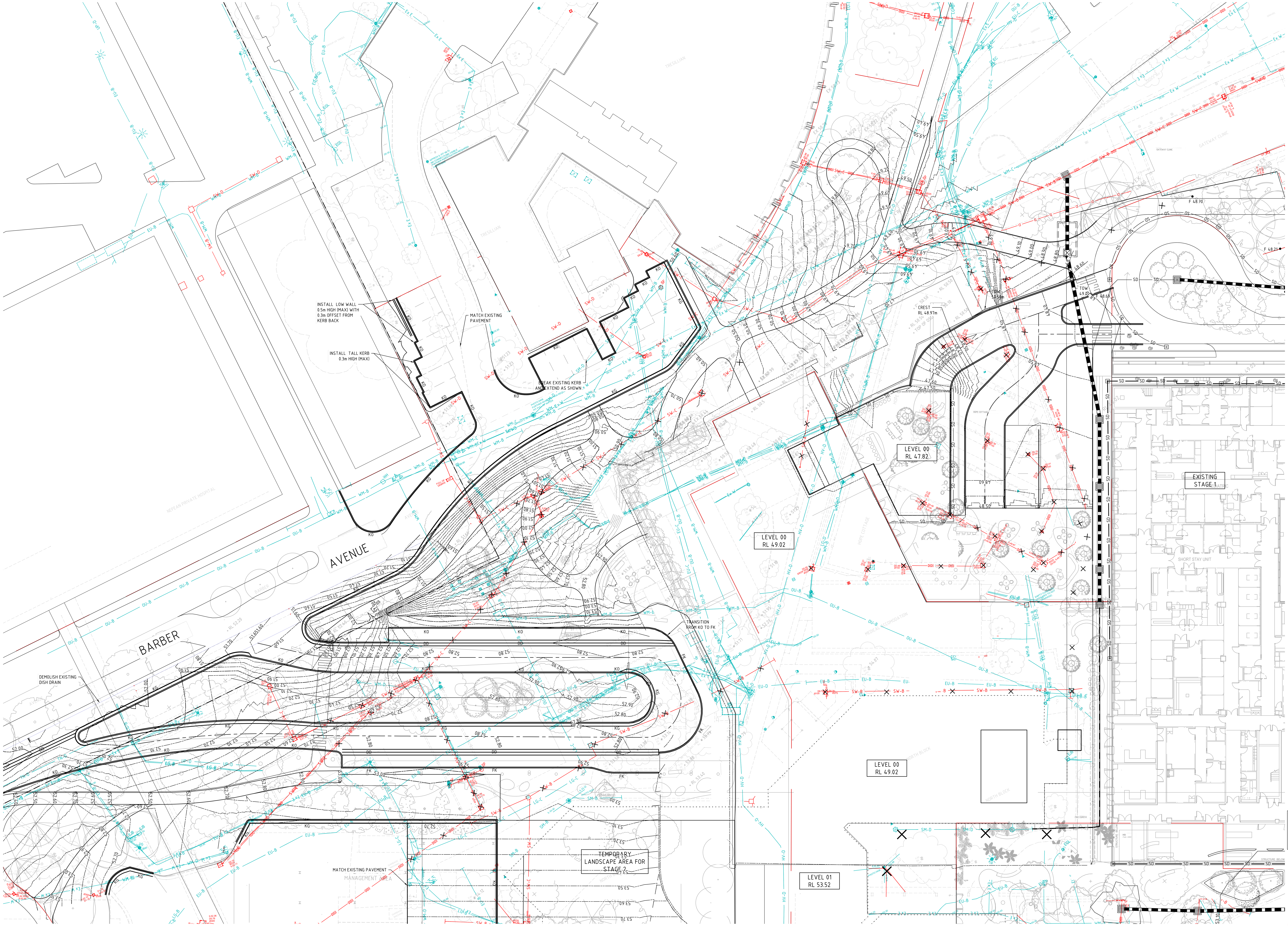
Drawing Title: STORMWATER DRAINAGE DETAILS - SHEET 2

SCHEMATIC DESIGN

Designed	YK
Drawn	HM
Scale	AS SHOWN
Date	NOV. 2020
Sheet	A0

Approved | Date | North

Project Ref	Drawing No	Rev
NHR-BON-CIV-TB2-ALL-0000041		C



FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000051

FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000051 AND 0000052

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- SW / D(D) — EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
- S — EX SEWER LINE
- W — EX WATER MAIN
- G — EX GAS LINE
- T — EX TELECOMMUNICATIONS LINE
- E — EX ELECTRICAL LINE
- EX UNKNOWN SERVICE
- E — EXISTING SERVICE TO BE MADE REDUNDANT

STAGE 1 AS-BUILT SERVICES LEGEND

- E — AS-BUILT ELECTRICAL LINE
- ELV — AS-BUILT ELECTRICAL (LOW VOLTAGE) LINE
- EHV — AS-BUILT ELECTRICAL (HIGH VOLTAGE) LINE
- S — AS-BUILT SEWER (PLUMBING) LINE
- G — AS-BUILT GAS LINE
- W — AS-BUILT WATER LINE
- T — AS-BUILT COMMS LINE
- STORMWATER NETWORK BUILT AS PART OF STAGE 1 WORKS TO BE RETAINED UNO
- SD — FLUSHOUT RISER WITH SUBSOIL DRAINAGE BUILT AS PART OF STAGE 1 WORKS
- 49.00 — SURFACE CONTOURS

SITEWORKS LEGEND

- SURFACE INLET PIT
- JUNCTION PIT
- IL 0.00 PIPE ø IL 0.00 — STORMWATER DRAINAGE LINE
- TEMPORARY 300 WIDE GRATED DRAIN
- PROPOSED STORMWATER EASEMENT (SHOWN INDICATIVELY ONLY)
- PROPOSED ON-SITE DETENTION TANK/ WATER TREATMENT CHAMBER AND POSSIBLE COMBINED RAINWATER TANK

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WARNING
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THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

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BEWARE OF UNDERGROUND SERVICES
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B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
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Project Name	STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747
Drawing Title	MAIN WORKS SITEWORKS PLAN - SHEET 1
	SCHEMATIC DESIGN
Designed	YK
Drawn	HM
Scale	1:200
Date	NOV. 2020
Sheet	A0
Approved	
Date	
North	
Project Ref	
Drawing No	NHR-BON-CIV-TB2-ALL-0000050
Rev	C

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FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000052

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
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STAGE 1 AS-BUILT SERVICES LEGEND

- AS-BUILT ELECTRICAL LINE
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- AS-BUILT ELECTRICAL (HIGH VOLTAGE) LINE
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- AS-BUILT GAS LINE
- AS-BUILT WATER LINE
- AS-BUILT COMMS LINE
- STORMWATER NETWORK BUILT AS PART OF STAGE 1 WORKS TO BE RETAINED UNO
- FLUSHOUT RISER WITH SUBSOIL DRAINAGE BUILT AS PART OF STAGE 1 WORKS
- SURFACE CONTOURS

SITEWORKS LEGEND

- SURFACE INLET PIT
- JUNCTION PIT
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- PROPOSED 300 WIDE GRATED DRAIN
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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: MAIN WORKS SITEWORKS PLAN - SHEET 2

SCHEMATIC DESIGN

Designed: YK
Drawn: HM
Scale: 1:200
Date: NOV. 2020
Sheet: A0

Approved / Date / North

Project Ref / Drawing No: NHR-BON-CIV-TB2-ALL-0000051 / Rev: C

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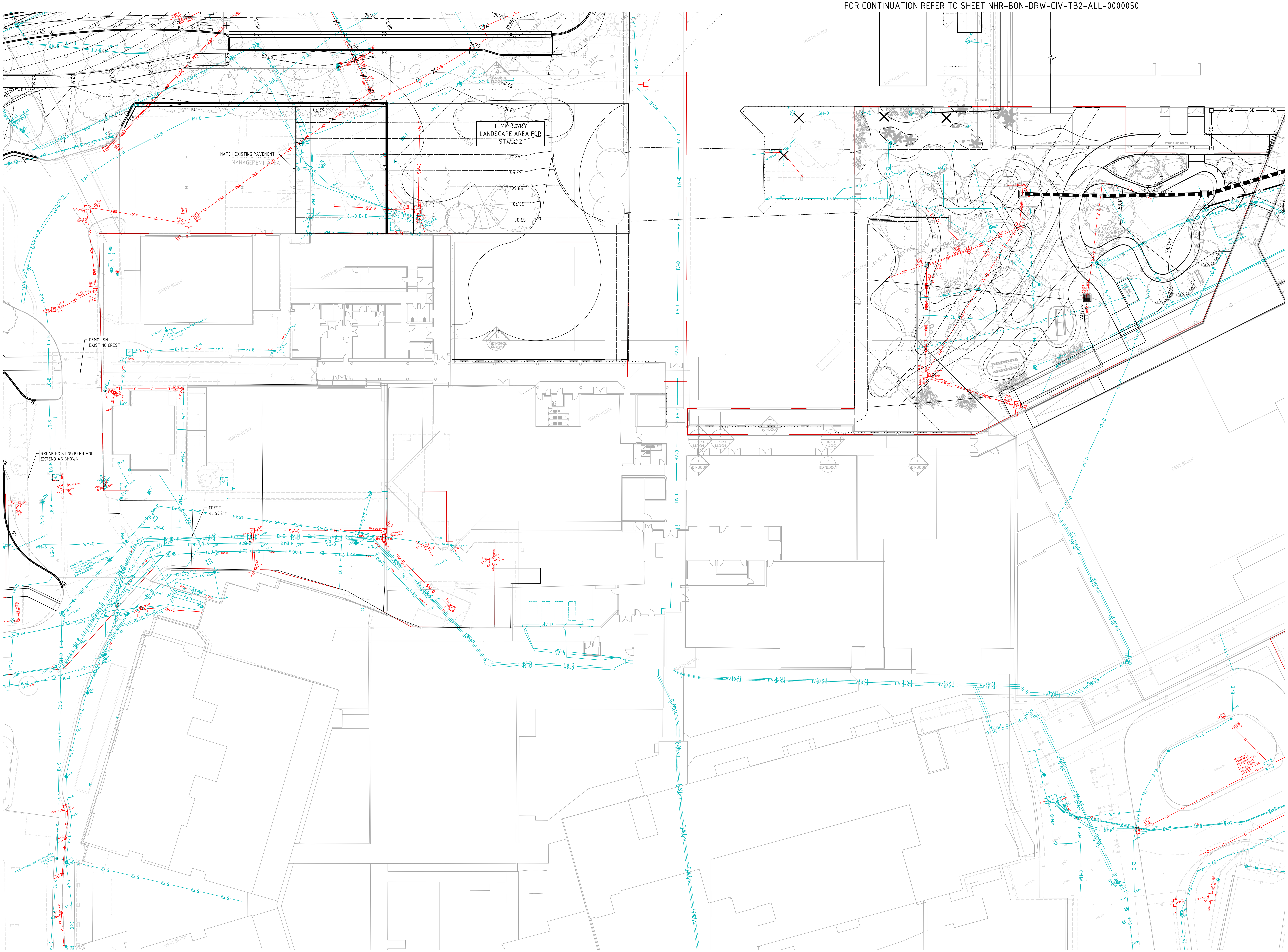

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
- EX SEWER LINE
- EX WATER MAIN
- EX GAS LINE
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- AS-BUILT SEWER (PLUMBING) LINE
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- STORMWATER NETWORK BUILT AS PART OF STAGE 1 WORKS TO BE RETAINED UNO
- FLUSHOUT RISER WITH SUBSOIL DRAINAGE BUILT AS PART OF STAGE 1 WORKS
- SURFACE CONTOURS

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DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: MAIN WORKS SITEWORKS PLAN - SHEET 3

SCHEMATIC DESIGN

Designed: YK
Drawn: HM
Scale: 1:200
Date: NOV. 2020
Sheet: A0

Approved | Date | North

Project Ref | Drawing No: NHR-BON-CIV-TB2-ALL-0000052 | Rev: C

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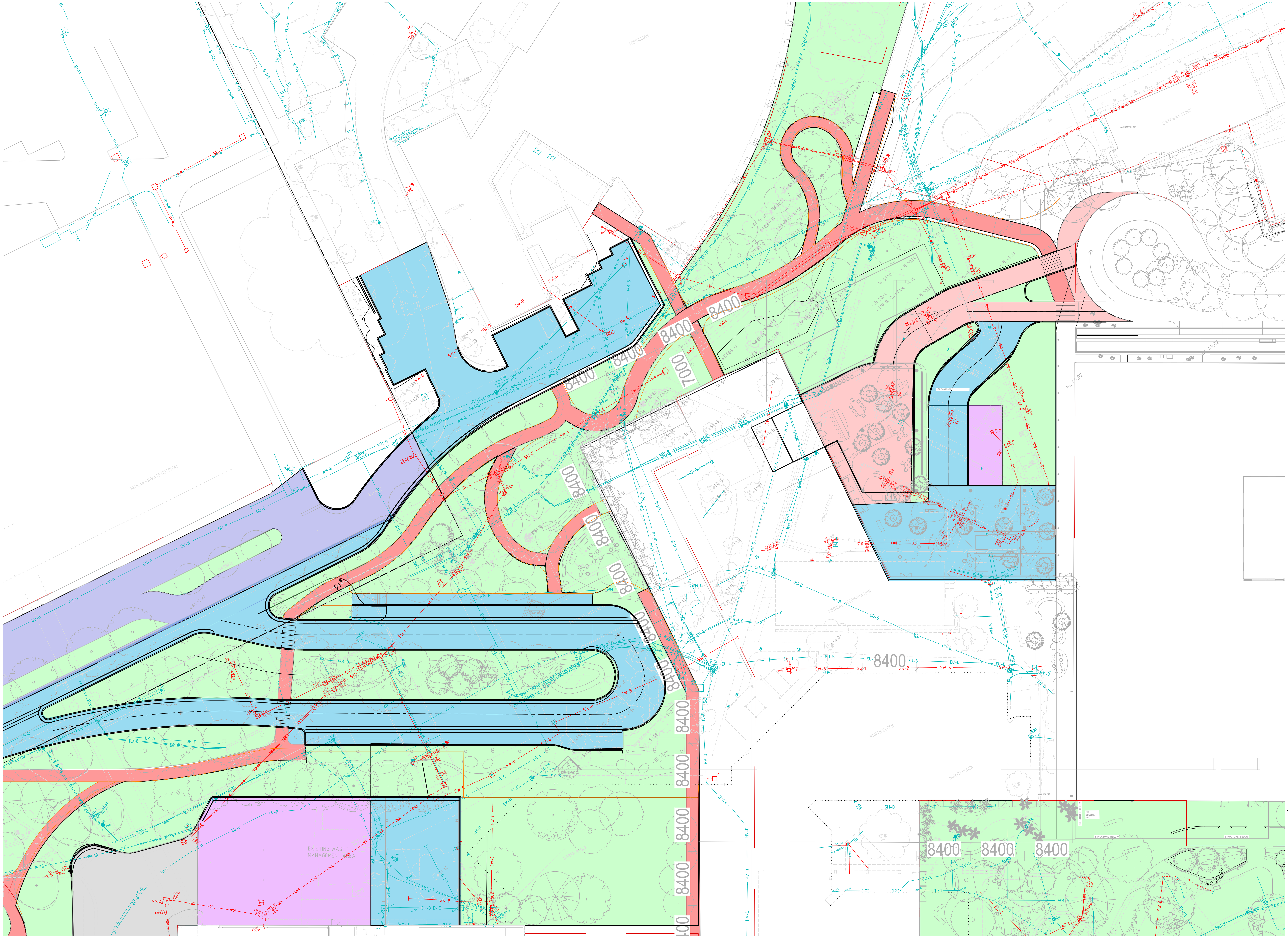

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SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- SW / D(D) — EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
- S — EX SEWER LINE
- W — EX WATER MAIN
- G — EX GAS LINE
- T — EX TELECOMMUNICATIONS LINE
- E — EX ELECTRICAL LINE
- EX UNKNOWN SERVICE
- EXISTING SERVICE TO BE MADE REDUNDANT

PAVEMENT LEGEND

- PAVEMENT TYPE CONCRETE FOOTPATH PAVEMENT FINISHING AS PER LANDSCAPE ARCHITECT
- PAVEMENT TYPE HEAVY DUTY CONCRETE PAVEMENT
- STRUCTURAL SLAB. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
- PAVEMENT TYPE ASPHALT
- LANDSCAPE (REFER TO LANDSCAPE CONSULTANTS DRAWINGS AND SPECIFICATIONS)
- EX. PAVEMENT FOR RE-SHEETING
- PAVEMENT TYPE ASPHALT RESHEET

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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
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Rev	Description	Date	By	App
C	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-
P1	PRELIMINARY ISSUE	25.11.20	HM	-

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: MAIN WORKS PAVEMENT PLAN - SHEET 1

SCHEMATIC DESIGN

Designed	YK
Drawn	HM
Scale	1:200
Date	NOV.2020
Sheet	A0
Approved	
Date	
North	
Project Ref	
Drawing No	NHR-BON-CIV-TB2-ALL-0000055
Rev	C

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FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000057

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
- EX SEWER LINE
- EX WATER MAIN
- EX GAS LINE
- EX TELECOMMUNICATIONS LINE
- EX ELECTRICAL LINE
- EX UNKNOWN SERVICE
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PAVEMENT LEGEND

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- PAVEMENT TYPE HEAVY DUTY CONCRETE PAVEMENT
- STRUCTURAL SLAB. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
- PAVEMENT TYPE ASPHALT
- LANDSCAPE (REFER TO LANDSCAPE CONSULTANTS DRAWINGS AND SPECIFICATIONS)
- EX. PAVEMENT FOR RE-SHEETING
- PAVEMENT TYPE ASPHALT RESHEET

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Rev	Description	Date	By	App
C	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: MAIN WORKS PAVEMENT PLAN - SHEET 2

SCHEMATIC DESIGN

Designed	YK
Drawn	HM
Scale	1:200
Date	NOV.2020
Sheet	A0

Approved / Date / North

Project Ref / Drawing No: NHR-BON-CIV-TB2-ALL-0000056 / Rev: C

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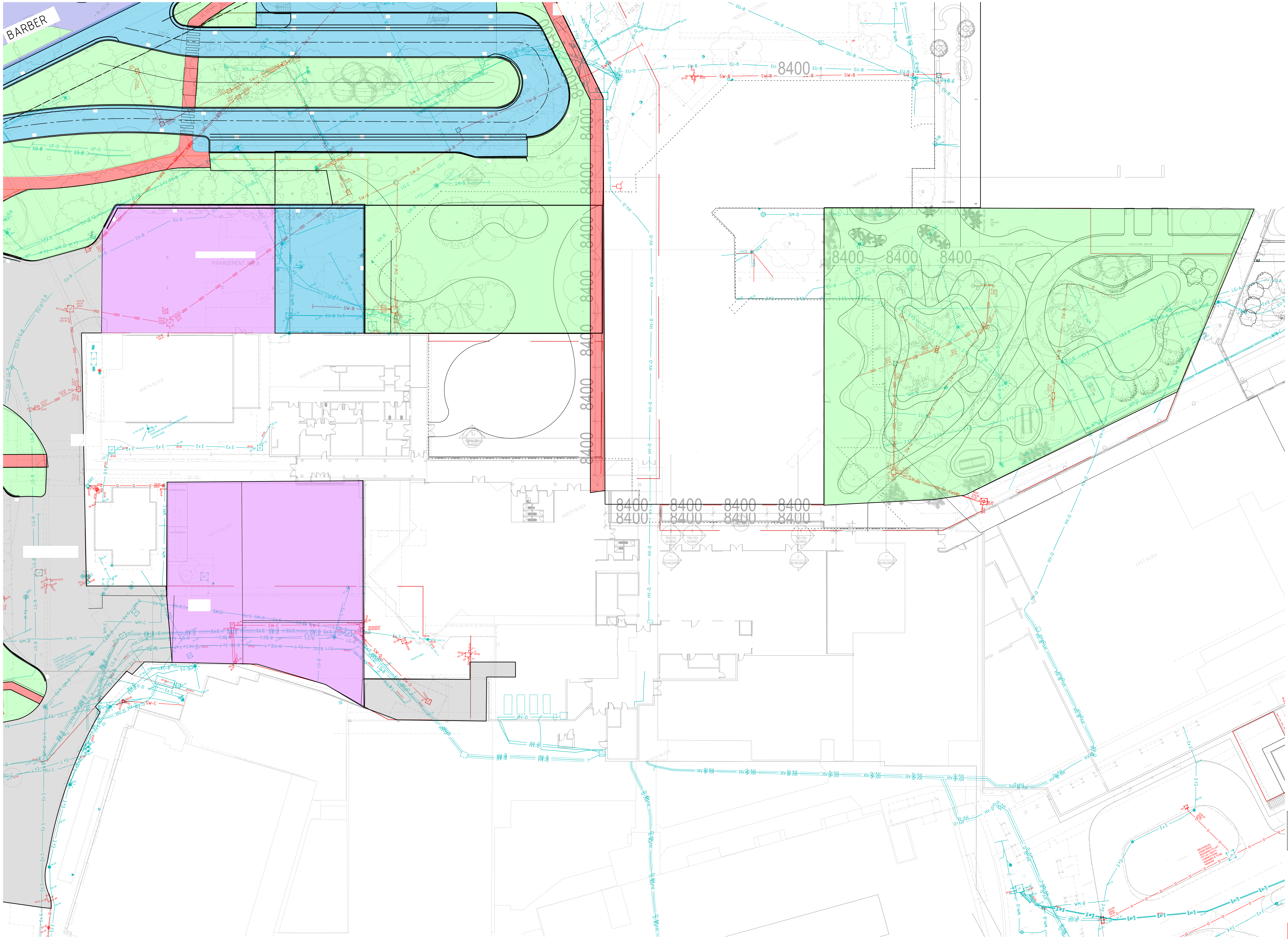

FOR CONTINUATION REFER TO SHEET NHR-BON-DRW-CIV-TB2-ALL-0000056

SURVEY LEGEND

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- EX SURFACE LEVEL
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PAVEMENT LEGEND

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- PAVEMENT TYPE HEAVY DUTY CONCRETE PAVEMENT
- STRUCTURAL SLAB. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
- PAVEMENT TYPE ASPHALT
- LANDSCAPE (REFER TO LANDSCAPE CONSULTANTS DRAWINGS AND SPECIFICATIONS)
- PAVEMENT TYPE
- PAVEMENT TYPE ASPHALT RESHEET

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Rev	Description	Date	By	App
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: MAIN WORKS PAVEMENT PLAN - SHEET 3

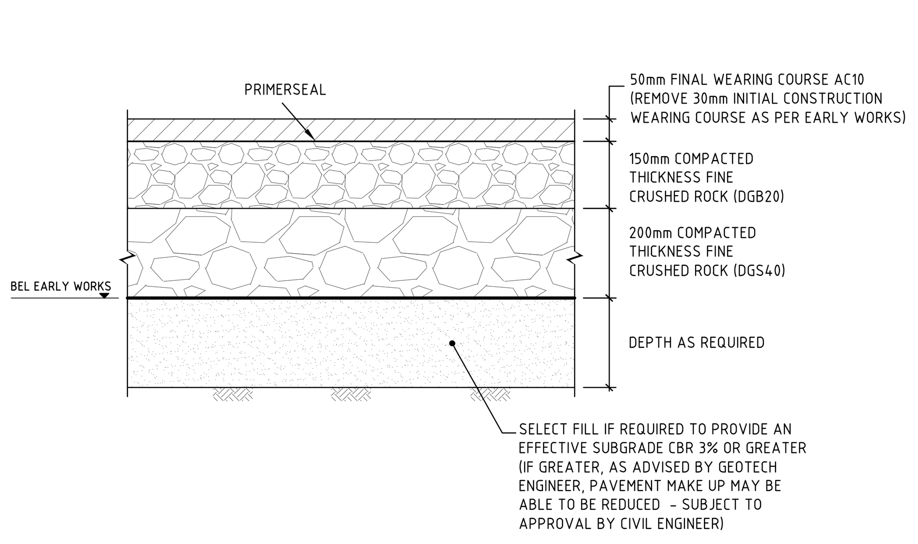
SCHEMATIC DESIGN

Designed	YK
Drawn	HM
Scale	1:200
Date	NOV.2020
Sheet	A0

Approved | Date | North

Project Ref | Drawing No: NHR-BON-CIV-TB2-ALL-0000055 | Rev: B

File: \\AU-SYD-FS01\Data\Job\12260-01\03 WIP\02 Civil\01 CAD\01 Autocad\Nepean Tower Stage 2\NHR-BON-DRW-CIV-TB2-ALL-0000057.dwg
Plotted: 09.08.21 at 9:12 AM By: Neil Carino

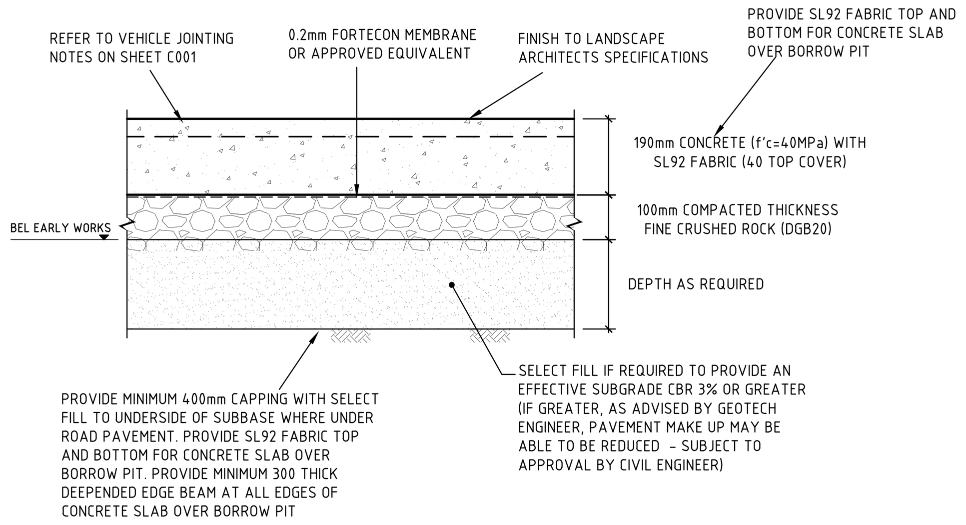


PAVEMENT TYPE P2 - ASPHALT

SCALE 1:10

DENOTED ON PLAN

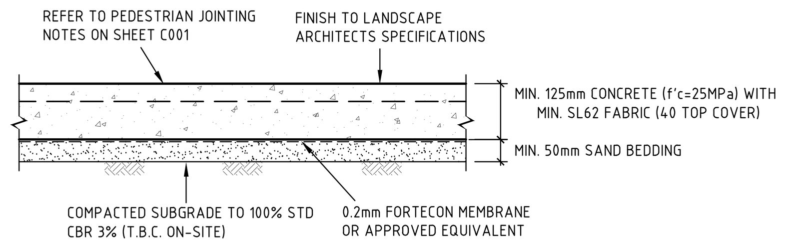
ROAD DESIGN PARAMETERS (FLEXIBLE)
DESIGN TRAFFIC $8x10^6$ ESA
ASSUMPTIONS:
• AUSTROADS AP-T36-06 LOCAL ACCESS WITH BUSES, 20 YEAR DESIGN PERIOD (TABLE 7.9)
• ASSUMED CBR 3%
• PREPARE SUBGRADE AND SELECT FILL IN ACCORDANCE WITH JK GEOTECHNICS GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS REF No. 29845L1rptMWCDB DATED 24TH FEBRUARY 2017



PAVEMENT TYPE P4
HEAVY DUTY CONCRETE PAVEMENT

SCALE 1:10

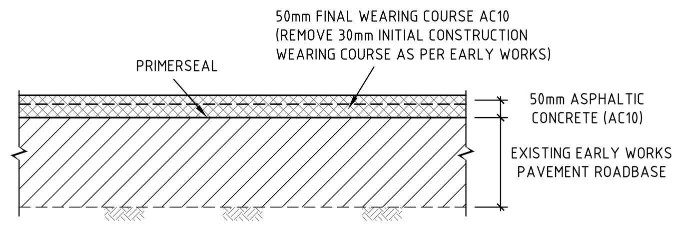
ROAD DESIGN PARAMETERS (RIGID)
DESIGN TRAFFIC $6x10^6$ HVAG
ASSUMPTIONS:
• AUSTROADS AP-T36-06 LOCAL ACCESS (INDUSTRIAL AREA), 40 YEAR DESIGN PERIOD (TABLE 7.9)
• ASSUMED CBR 3%
• PREPARE SUBGRADE AND SELECT FILL IN ACCORDANCE WITH JK GEOTECHNICS GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS REF No. 29845L1rptMWCDB DATED 24TH FEBRUARY 2017
• PROVIDE CONCRETE SHOULDER



PAVEMENT TYPE P7
CONCRETE FOOTPATH PAVEMENT

SCALE 1:10

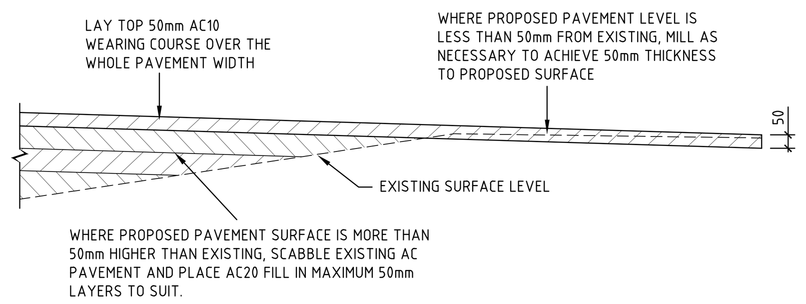
DENOTED ON PLAN



PAVEMENT TYPE P11
ASPHALT RESHEET

SCALE 1:10

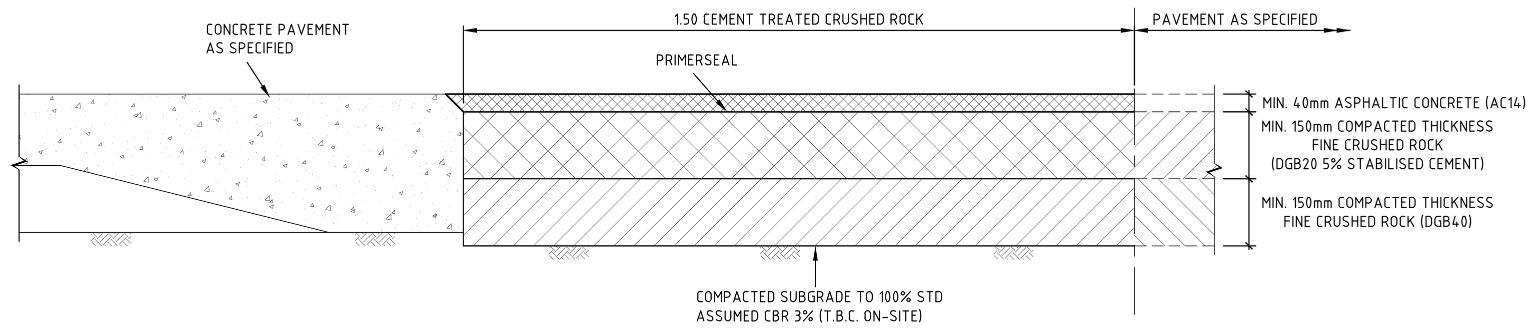
DENOTED ON PLAN



PAVEMENT TYPE P11a
MILL RE-SHEET/SCABBLE AND FILL

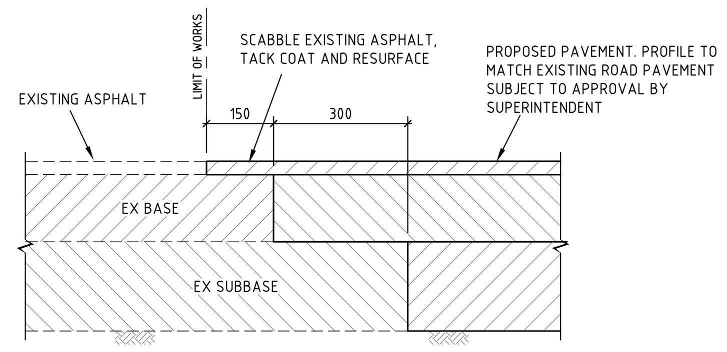
SCALE 1:10

DENOTED ON PLAN



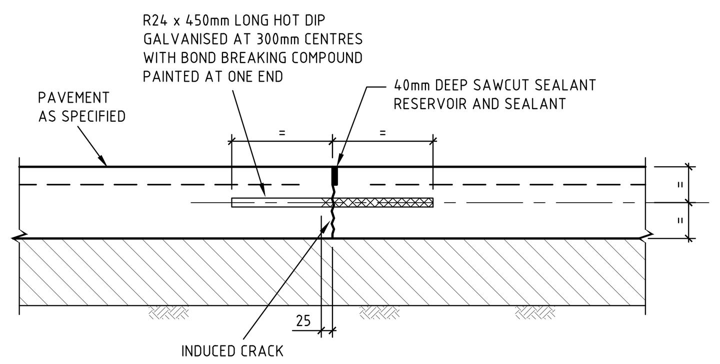
DEEPENDED EDGE BEAM/CONCRETE CONNECTION TO ASPHALT PAVEMENT

SCALE 1:10



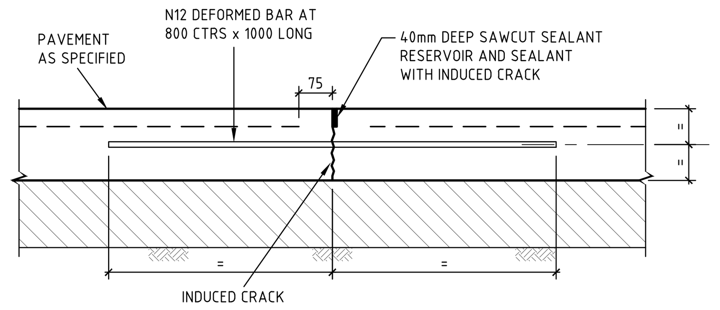
ASPHALT CONNECTION TO EXISTING PAVEMENT

SCALE 1:10



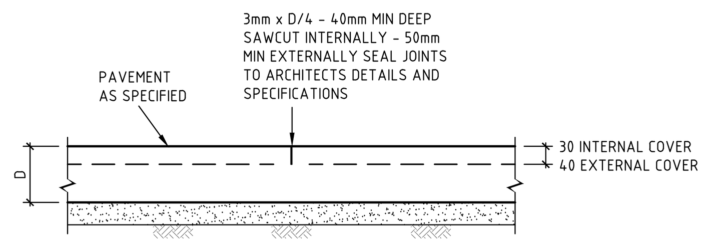
TRANSVERSE CONTRACTION JOINT (TCJ)

SCALE 1:10



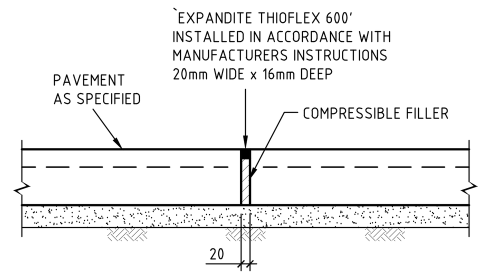
LONGITUDINAL WARPING JOINT (LWJ)

SCALE 1:10



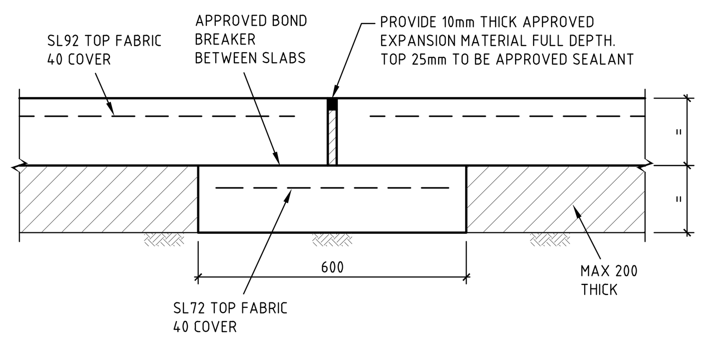
SAWCUT JOINT (SJ)

SCALE 1:10



EXPANSION JOINT (EJ)

SCALE 1:10



ISOLATION JOINT (IJ) WITH SUBGRADE BEAM

SCALE 1:20

NOTES
1. SLAB MUST BE SAWCUT AS SOON AS PRACTICABLE AFTER FINISHING OF THE SLAB WITHOUT CAUSING DAMAGE TO THE SAWCUT EDGES - USUALLY 12-24 HOURS.
2. SLABS MUST NOT BE POURED IF TEMPERATURE EXCEEDS 32°
3. HOT WEATHER PLACING (25° AND OVER) MAY REQUIRE SLABS TO BE SAWCUT AS SOON AS 5-6 HOURS AFTER POURING.
4. ANY SLAB BAY IN WHICH SHRINKAGE CRACKS OCCUR DUE TO LATE SAWCUTTING MUST BE REMOVED AND REPLACED BY THE BUILDER/CONTRACTOR.

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C	ISSUE FOR SD SUBMISSION	06.08.21	NC	-
B	ISSUE FOR SD SUBMISSION	23.04.21	HM	-
A	ISSUE FOR 70% SD SUBMISSION	12.03.21	HM	-
P1	PRELIMINARY ISSUE	25.11.20	HM	-

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Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747

Drawing Title: SITE WORKS AND PAVEMENT DETAILS - SHEET 1

SCHEMATIC DESIGN

Designed	YK
Drawn	HM
Scale	AS SHOWN
Date	NOV. 2020
Sheet	A0

Approved | Date | North

Project Ref | Drawing No: NHR-BON-CIV-TB2-ALL-0000061 | Rev: C

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