DRAWING REGISTER AND CONSTRUCTION NOTES - CIVIL & STORMWATER

NHR-BON-DRW-CIV-TB2-ALL-000001 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 MHR-BON-DRW-CIV-7B2-ALL-0000006 MAIN WORKS SOIL AND WATER MANAGEMENT DETAILS WHR-BON-DRW-CIV-TB2-ALL-0000007 PATHOLOGY BUILDING SOIL AND WATER MANAGEMENT PLAN NHR-BON-DRW-CIV-TB2-ALL-0000009 MAIN WORKS BULK EARTHWORKS PLAN -SHEET 1 MAIN WORKS BULK EARTHWORKS PLAN -SHEET 2 NHR-BON-DRW-CIV-TB2-ALL-0000010 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 MAIN WORKS STORMWATER DRAINAGE PLAN - SHEET 1 NHR-BON-DRW-CIV-TB2-ALL-0000022 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 MAIN WORKS STORMWATER DRAINAGE PLAN - SHEET 4 NHR-BON-DRW-CIV-TB2-ALL-0000025 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 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 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
- 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
- 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
- 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.

ARCHITECT'S DRAWINGS AND VERIFIED ON SITE.

- 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 FILL UNDER ANY FOOTINGS AND FLOOR SLABS FOR ANY STRUCTURE TO SUBGRADE LEVEL;
- SELECTED FILL WITHOUT CONSPICUOUS CLAY CONTENT BUILDING BASECOURSE FILL UNDER ROAD PAVEMENTS: - TO WITHIN 500mm OF FINISHED SUBGRADE LEVEL 98% STD. - UP TO FINISHED SUBGRADE LEVEL 98% STD. ROAD PAVEMENT MATERIALS; 98% MOD. - SUB BASE 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.
- S5 ANY STRUCTURES, PAVEMENTS OR SURFACES DAMAGED, DIRTIED OR MADE UNSERVICABLE DUE TO CONSTRUCTION WORK SHALL BE REINSTATED TO THE SATISFACTION OF THE ENGINEER.

S4 ALL DIMENSIONS GIVEN ARE TO FACE OF KERB, CENTER OF PIPE OR EXTERIOR FACE OF BUILDING

- 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

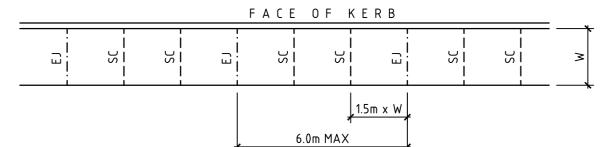
- SW1 UNLESS NOTED OTHERWISE BY HYDRAULIC ENGINEERS DRAWINGS, ALL DOWNPIPES & GRATED INLETS SHALL BE CONNECTED TO PITS OR MAIN STORMWATER DRAINS WITH 150 DIA. UPVC PIPES LAID AT A MINIMUM GRADE OF 1 IN 100. FOR SYPHONIC ROOF DRAINAGE SYSTEMS ALL DOWNPIPES CONNECTION DRAIN SIZES TO BE CONNECTED INTO MAIN 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
- SW6 ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE
- 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
- 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 - EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.

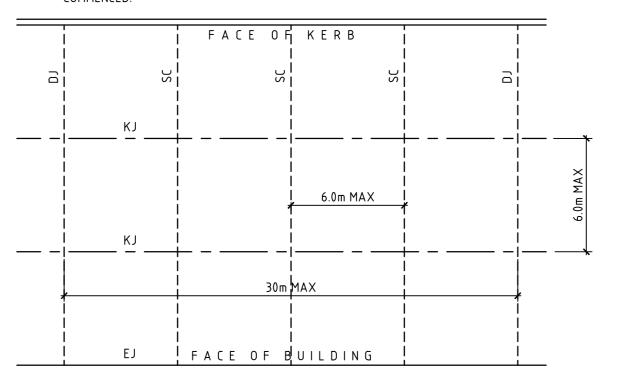
JOINTING NOTES

- PEDESTRIAN FOOTPATH JOINTS (INTERNAL TO SITE)
- 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.
- WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND / OR ADJACENT PAVEMENT
- J4 ALL PEDESTRIAN FOOTPATH JOINTINGS AS FOLLOWS (U.N.O.)



VEHICULAR PAVEMENT JOINTS

- ALL VEHICULAR PAVEMENTS TO BE JOINTED AS SHOWN ON DRAWINGS.
- KEYED CONSTRUCTION JOINTS (KJ) SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 6m CENTRES.
- 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.
- PROVIDE 10mm WIDE FULL DEPTH EXPANSION JOINTS (EJ) BETWEEN BUILDINGS AND ALL CONCRET OR UNIT PAVERS.
- 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





PROPOSED DEVELOPMENT

LOCALITY PLAN

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

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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
- 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

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

- 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

REHABILITATION PROGRAM.

ENTRIES WILL INCLUDE:

- 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 EX SURFACE LEVEL

EX SURFACE CONTOUR EX TREE

DRAINAGE LINE SHOWN ————D(D) ———— INDICATIVELY ONLY (NO

SURVEY PROVIDED) — S — EX SEWER LINE — W — EX WATER MAIN

——— G ——— EX GAS LINE _____ T ____ EX ELECTRICAL LINE

---- EX UNKNOWN SERVICE



EXISTING SERVICE TO BE

MADE REDUNDANT

FOR ENTRY/EXIT

TEMPORARY SHAKER RAMP

TEMPORARY STOCKPILE (LOCATION TBC ON-SITE)

HOARDING OR SITE FENCE STRAWBALE

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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Project Name STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) Drawing MAIN WORKS SOIL AND WATER MANAGEMENT PLANS

SCHEMATIC DESIGN DERBY STREET, KINGSWOOD NSW 2747 Designed Drawing No Rev Date NOV. 2020 A0 NHR-BON-SKT-CIV-TB2-ALL-0000005 B

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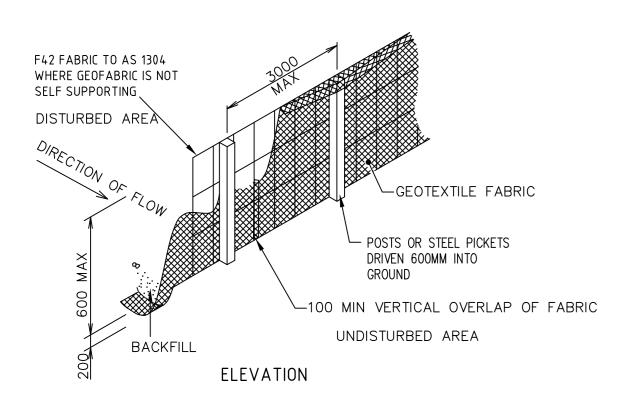
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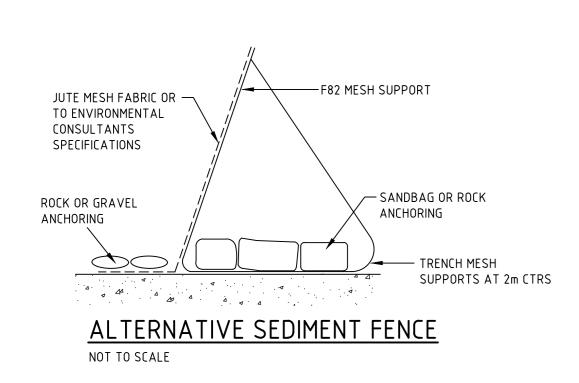
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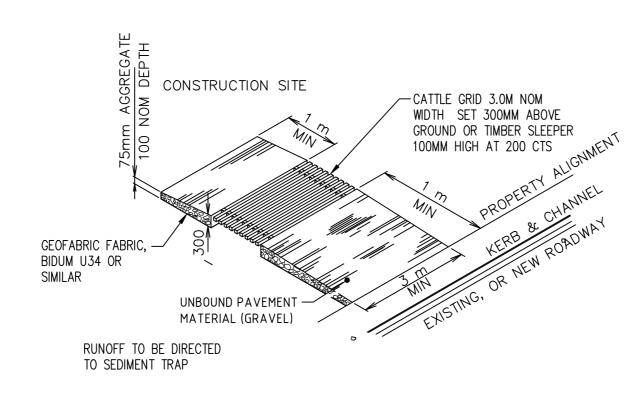
SEDIMENT FENCE NOT TO SCALE



ALTERNATIVE SEDIMENT FENCE NOTES

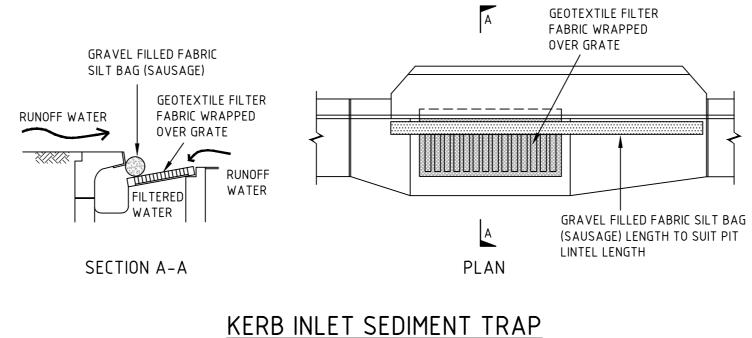
- 1. INSTALL THIS TYPE OF SEDIMENT FENCE WHEN USE OF SUPPORT POSTS IS NOT DESIRABLE OR NOT POSSIBLE. SUCH CONDITIONS MIGHT APPLY, FOR EXAMPLE, WHERE APPROVAL IS GRANTED FROM THE APPROPRIATE AUTHORITIES TO PLACE THESE FENCES IN HIGHLY SENSITIVE ESTUARINE AREAS.
- 2. USE BENT TRENCH MESH TO SUPPORT THE 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

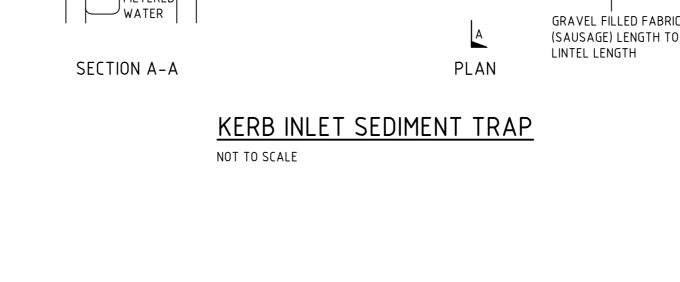
STABILITY OF THE STRUCTURE IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT.

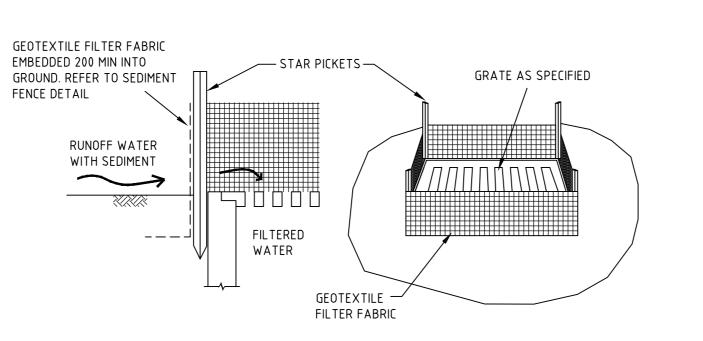


TEMPORARY CONSTRUCTION VEHICLE ENTRY/EXIT SEDIMENT TRAP

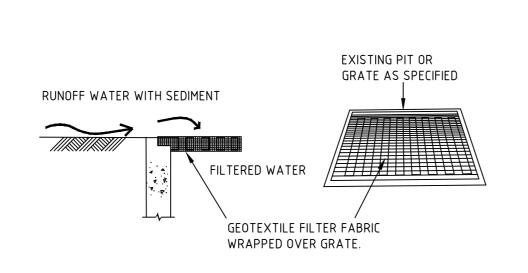
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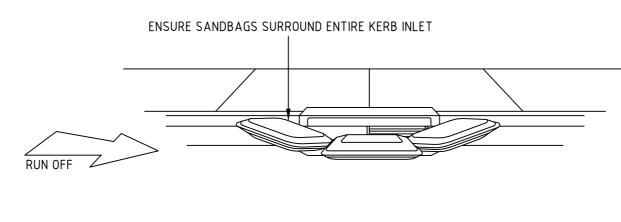




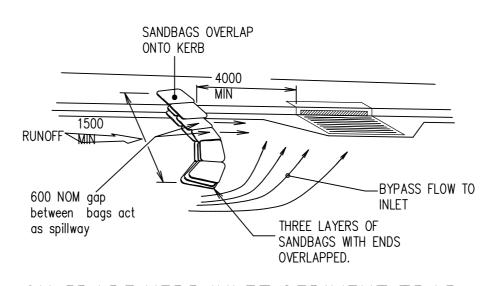
GEOTEXTILE PIT FILTER 1 NOT TO SCALE



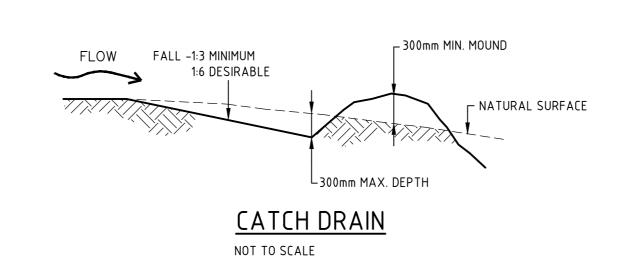
GEOTEXTILE PIT FILTER 2 NOT TO SCALE

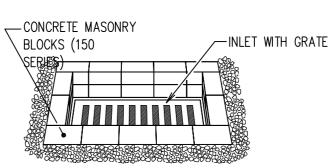


SANDBAG KERB INLET SEDIMENT TRAP NOT TO SCALE



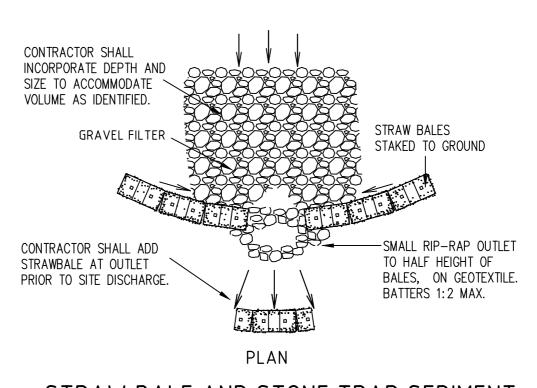
ON GRADE KERB INLET SEDIMENT TRAP NOT TO SCALE



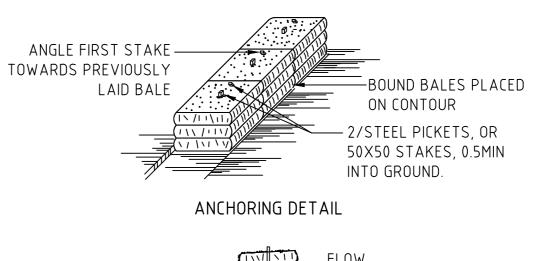


12MM WIRE NETTING ALL SIDES OVERFLOW / CONCRETE MASONRY BLOCKS (150 SERIES) RUNOFF WATER WITH SEDIMENT FIELD INLET WITH GRATE

FIELD INLET SEDIMENT TRAP NOT TO SCALE



STRAW BALE AND STONE TRAP SEDIMENT CONTROL (CONCENTRATE FLOW) NOT TO SCALE



100MM VERTICAL FACE— BEDDING DETAIL

STRAW BALE BANK SEDIMENT CONTROL

NOT TO SCALE

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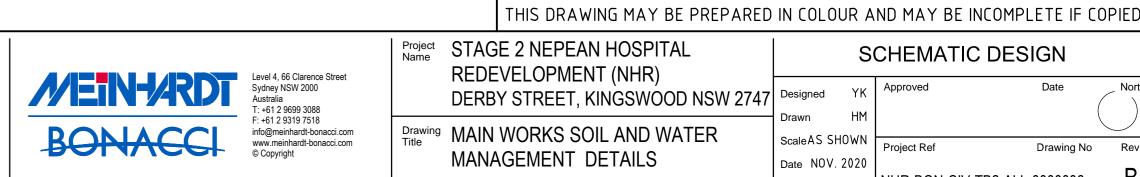
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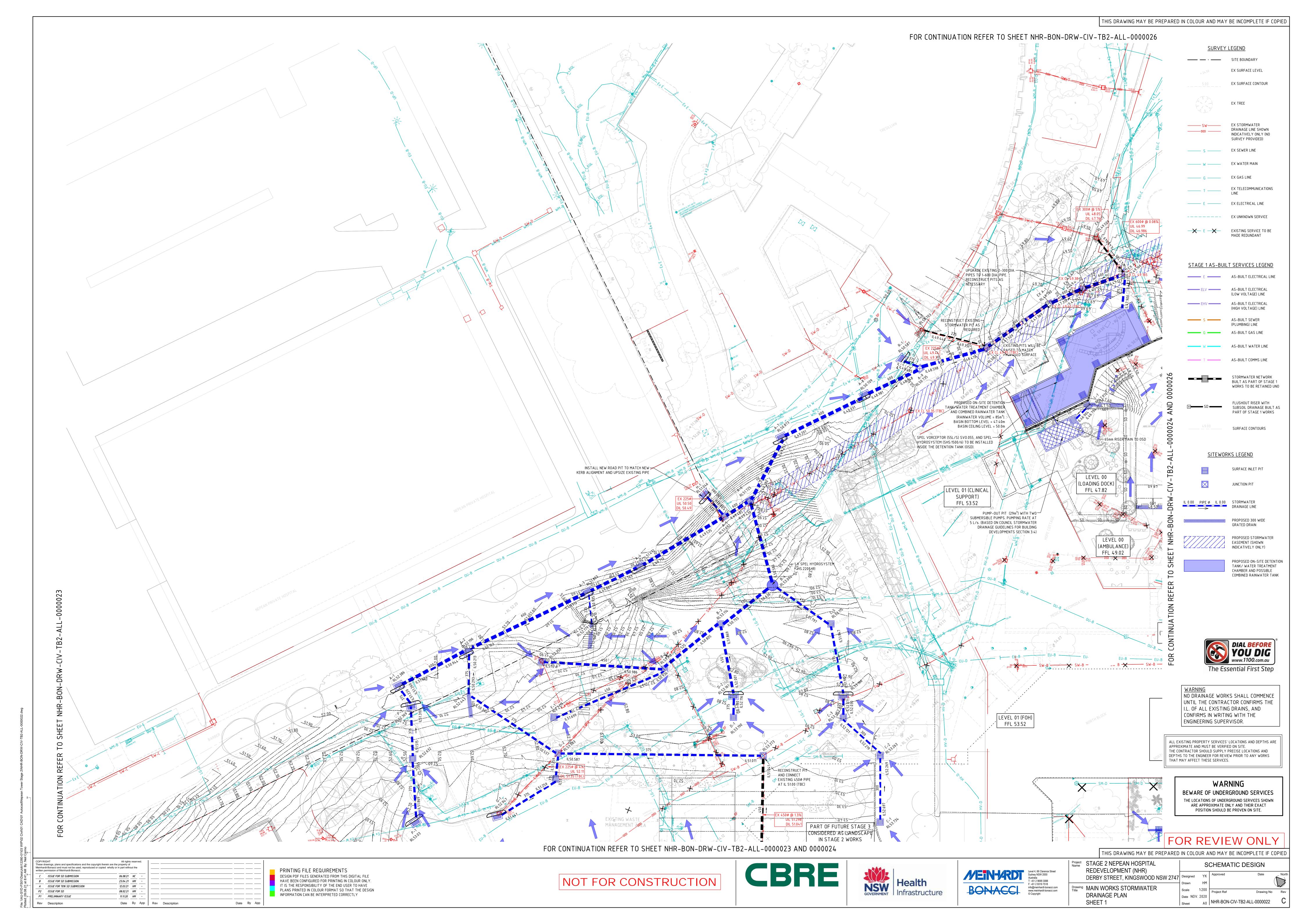


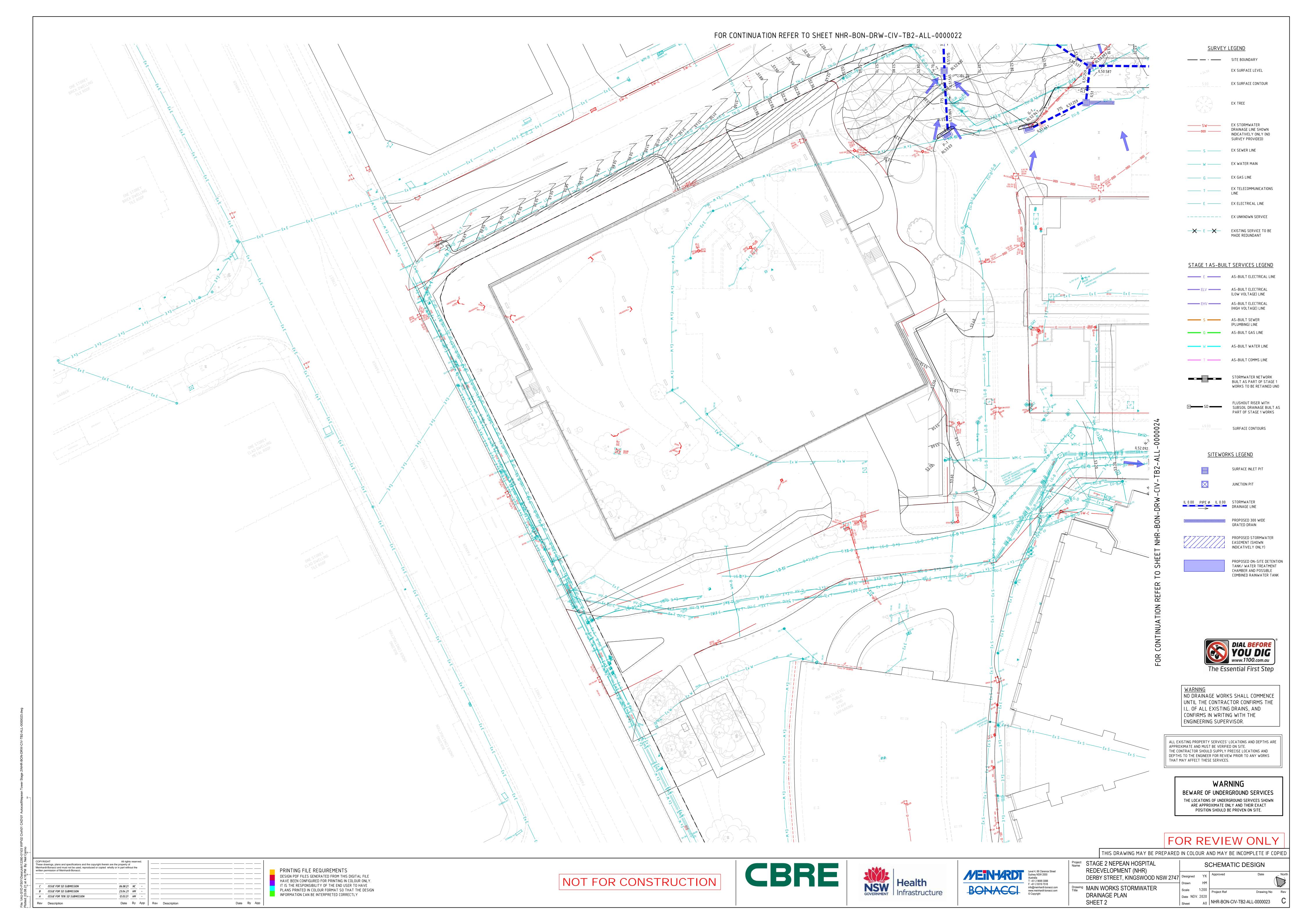


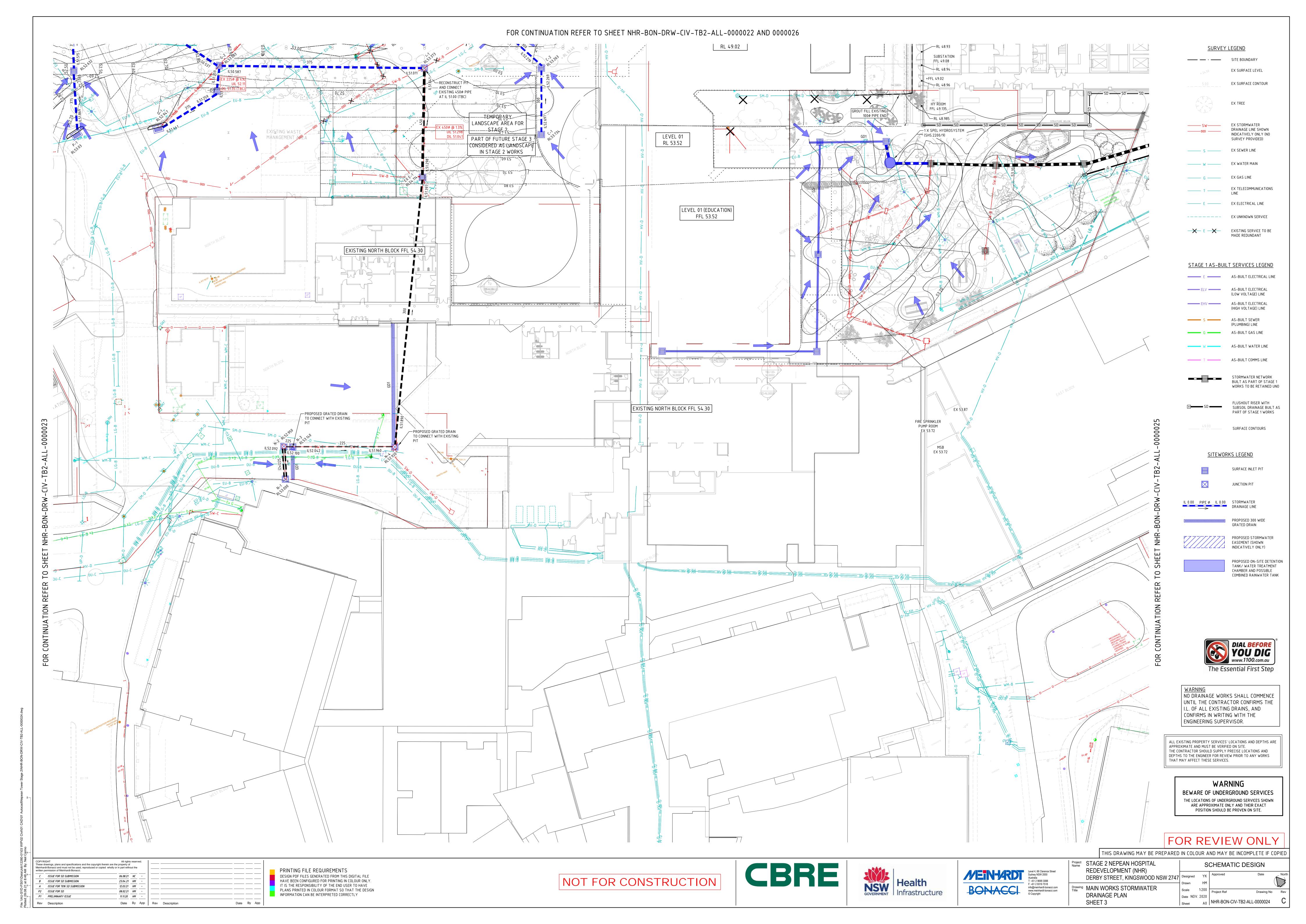
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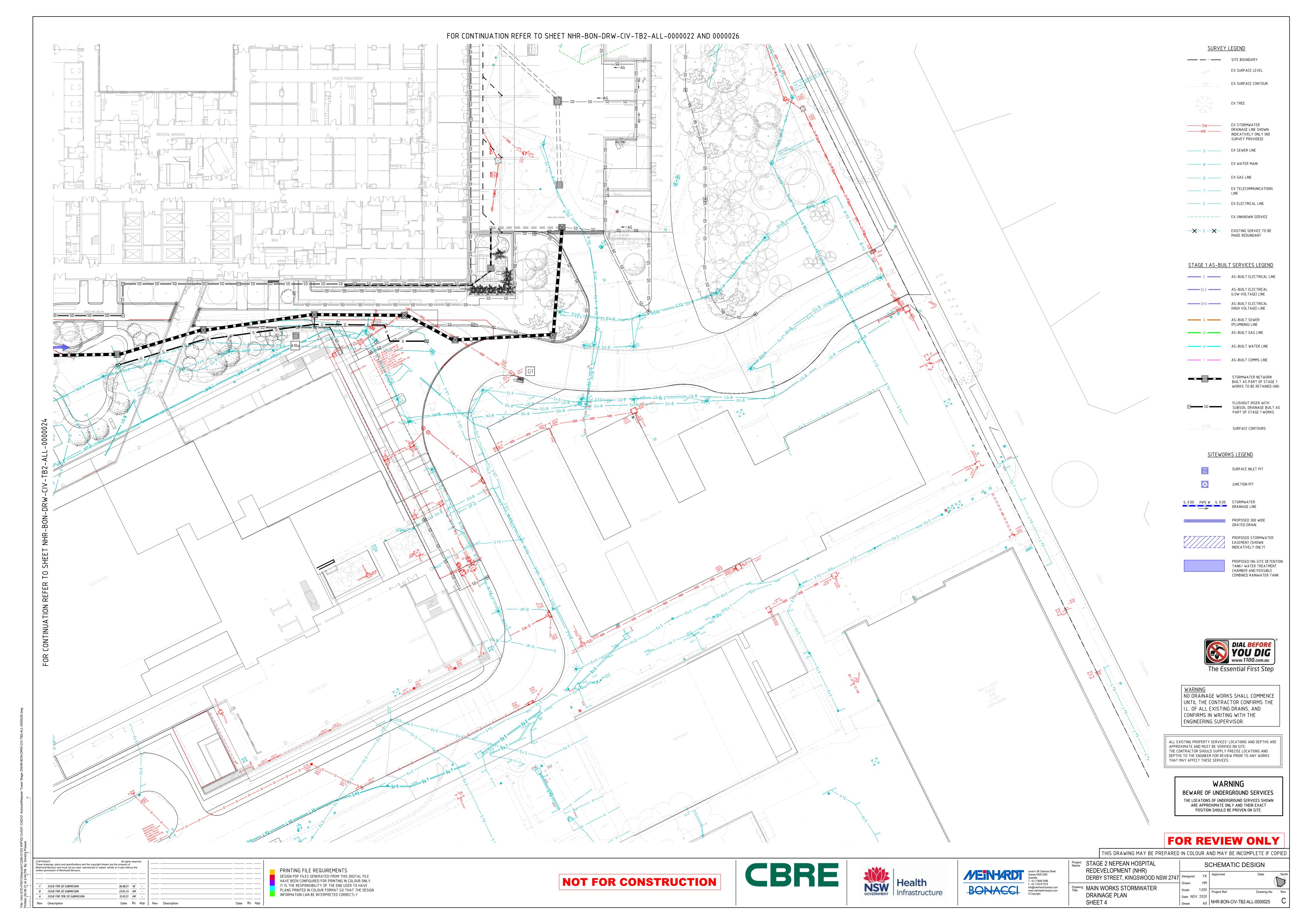
Sheet A0 NHR-BON-CIV-TB2-ALL-0000006

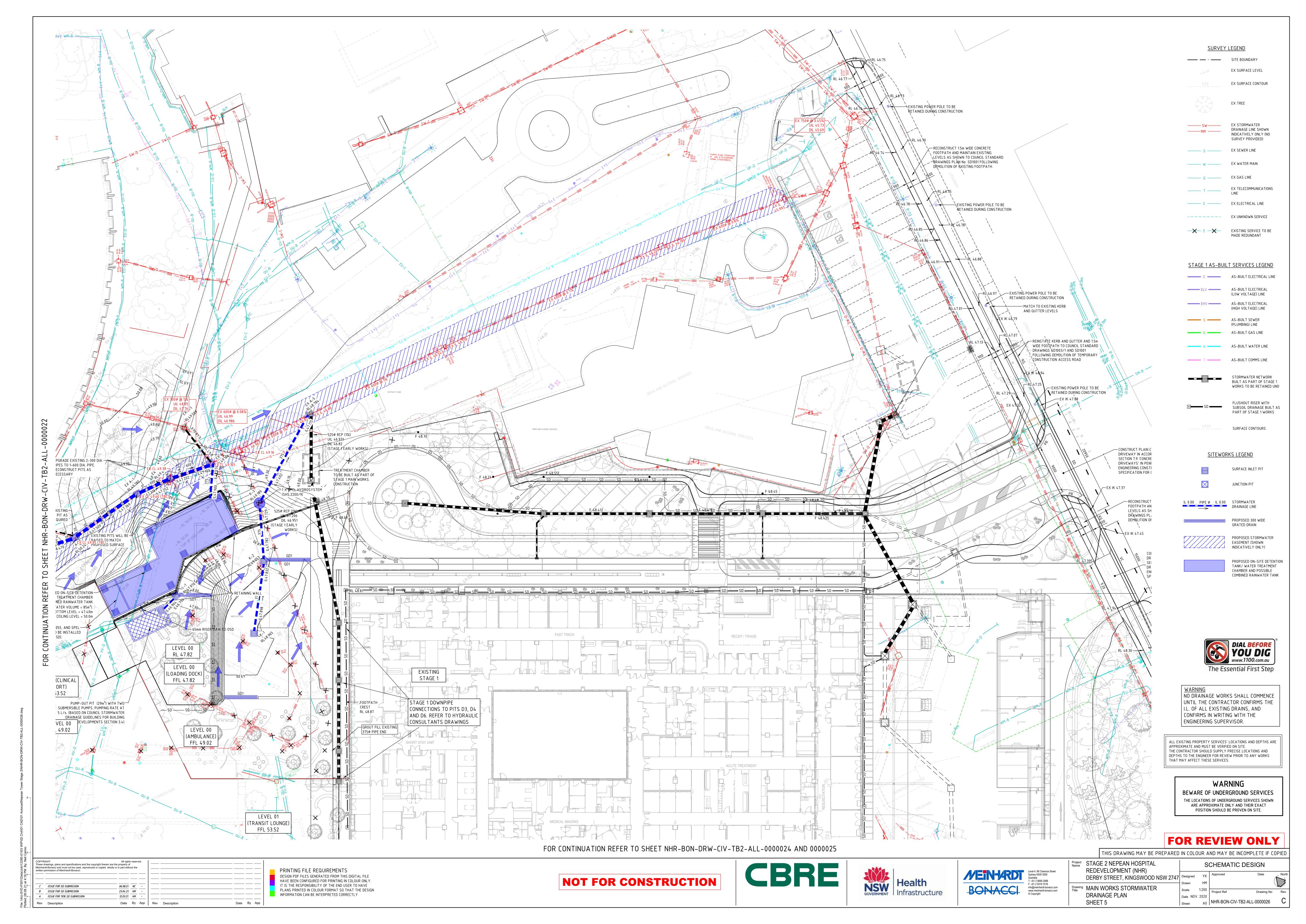
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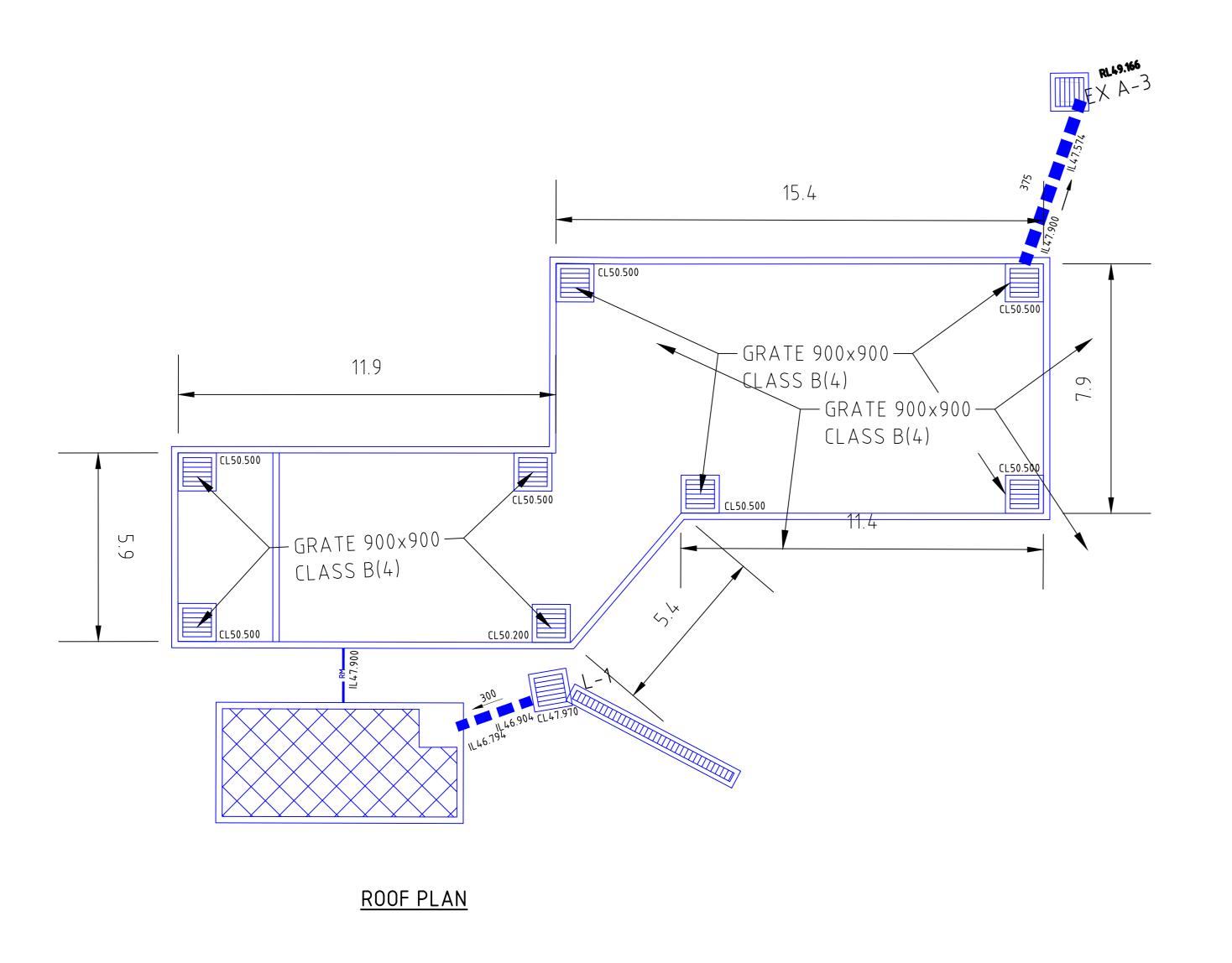


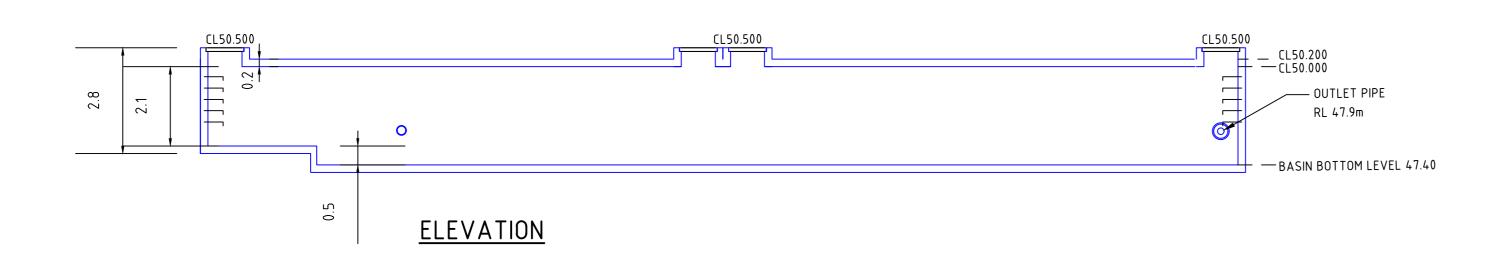












NAPEAN STAGE 2 - PIT SCHEDULE											
				PIT SETOUT							
PIT NAME	TYPE	EASTING	NORTHING	CL	INLET DIA	NV LEVEL	OUTLET DIA	INV LEVE			
A-1	1.8m INLET PIT	288183.070	6262295.678	52.386	600.000	51.084	600.000	51.08			
A-2	1.8m INLET PIT	288196.650	6262292.288	52.196	600.000	50.944	600.000	50.16			
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	49.71			
A-5	GRATED INLET PIT 900x900	288248.183	6262280.962	51.692	600.000	49.535	600.000	49.48			
A-6	GRATED INLET PIT 900x900	288253.539	6262280.167	51.725	600.000	49.430	600.000	49.38			
A-7	1.8m INLET PIT	288265.436	6262285.003	50.873	600.000	49.251	600.000	49.20			
A-7A	1.8m INLET PIT	288281.992	6262281.042	50.709	600.000	49.031	600.000	48.98			
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				
B-3	GRATED INLET PIT 900x900	288235.028	6262266.513								
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				
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	52.07			
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	52.00			
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	<u> </u>	<u> </u>				
EX A-4	GRATED INLET PIT 900x900	288337.362									
EX A-5	GRATED INLET PIT 900x900	288351.769	6262262.832	48.784	600.000	46.839	600.000				
G-1	1.8m INLET PIT (SAG)	288181.952	6262266.322	52.947	375.000	51.463	ļ				
G-2	GRATED INLET PIT 900x900	288197.284		53.083	375.000						
G-3	ACO KS300	288191.576	6262286.122	52.443							
H-1	1.8m INLET PIT	288248.099		51.046		50.080	<u> </u>	.			
T-1	JUNCTION PIT 900x900	288225.417	6262243.185	53.373		51.011	375.000				
I-2	GRATED INLET PIT 900x900	288207.151	6262258.120			50.775	<u> </u>				
J-1	GRATED INLET PIT 900x900	288201.241				52.018					
K-1	GRATED INLET PIT 900x900	288318.134				47.898	+				
	ACO KS300	288327.976									
K-3	SPEL HYDROSYSTEM	288334.265						_			
	ACO KS300	288162.478									
0-1	GRATED INLET PIT 900x900	288217.211				51.410					
P-1	1.8m INLET PIT (SAG)	288182.506									
R-1	1.8m INLET PIT	288291.404				49.485					



<u>WARNING</u> NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE

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.

ENGINEERING SUPERVISOR.

WARNING BEWARE OF UNDERGROUND SERVICES

SCHEMATIC DESIGN

Sheet A0 NHR-BON-CIV-TB2-ALL-0000027

Drawing No Rev

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

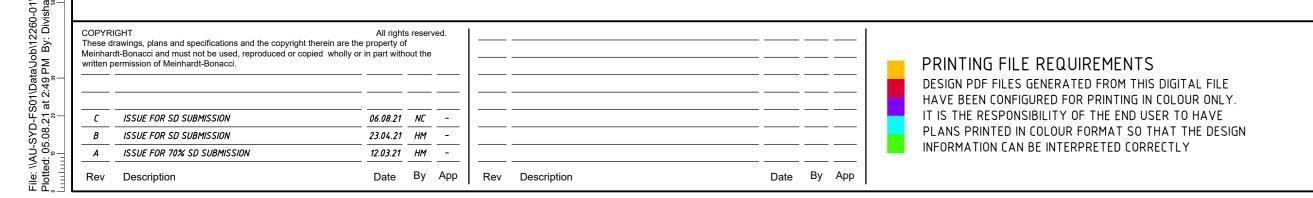
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Scale AS NOTED

MEIN-ARD

BONACC

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