








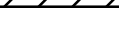











SURVEY LEGEND

	SITE BOUNDARY		EXISTING SERVICE TO BE MADE REDUNDANT
	EX SURFACE LEVEL		SEDIMENT FENCE
	EX SURFACE CONTOUR		TEMPORARY SHAKES FOR ENTRY/EXIT
	EX TREE		TEMPORARY STOCKPILE (LOCATION TBC ON-SITE)
	EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY IN SURVEY PROVIDED		GEOTEXTILE PIT FILTER SURROUND INSTALLED ON EXISTING
	EX SEWER LINE		SANDBAGS INSTALLED ON EXISTING PIT
	EX WATER MAIN		HOARDING OR SITE FENCE
	EX GAS LINE		STRAINBALE
	EX TELECOMMUNICATIONS LINE		
	EX ELECTRICAL LINE		
	EX UNKNOWN SERVICE		





WARNING
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WARNING
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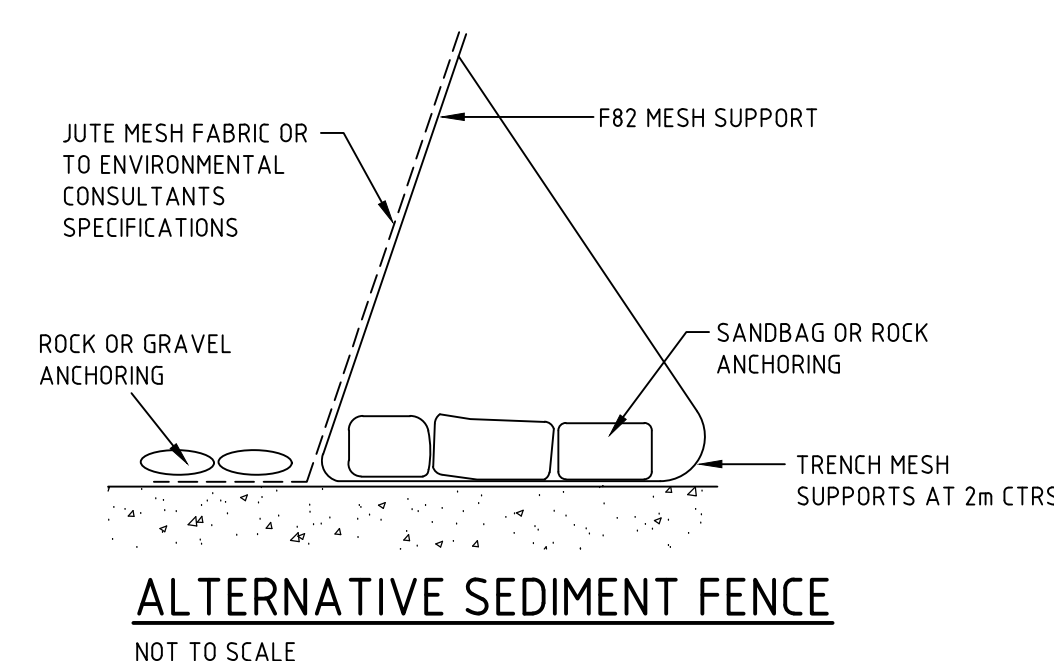
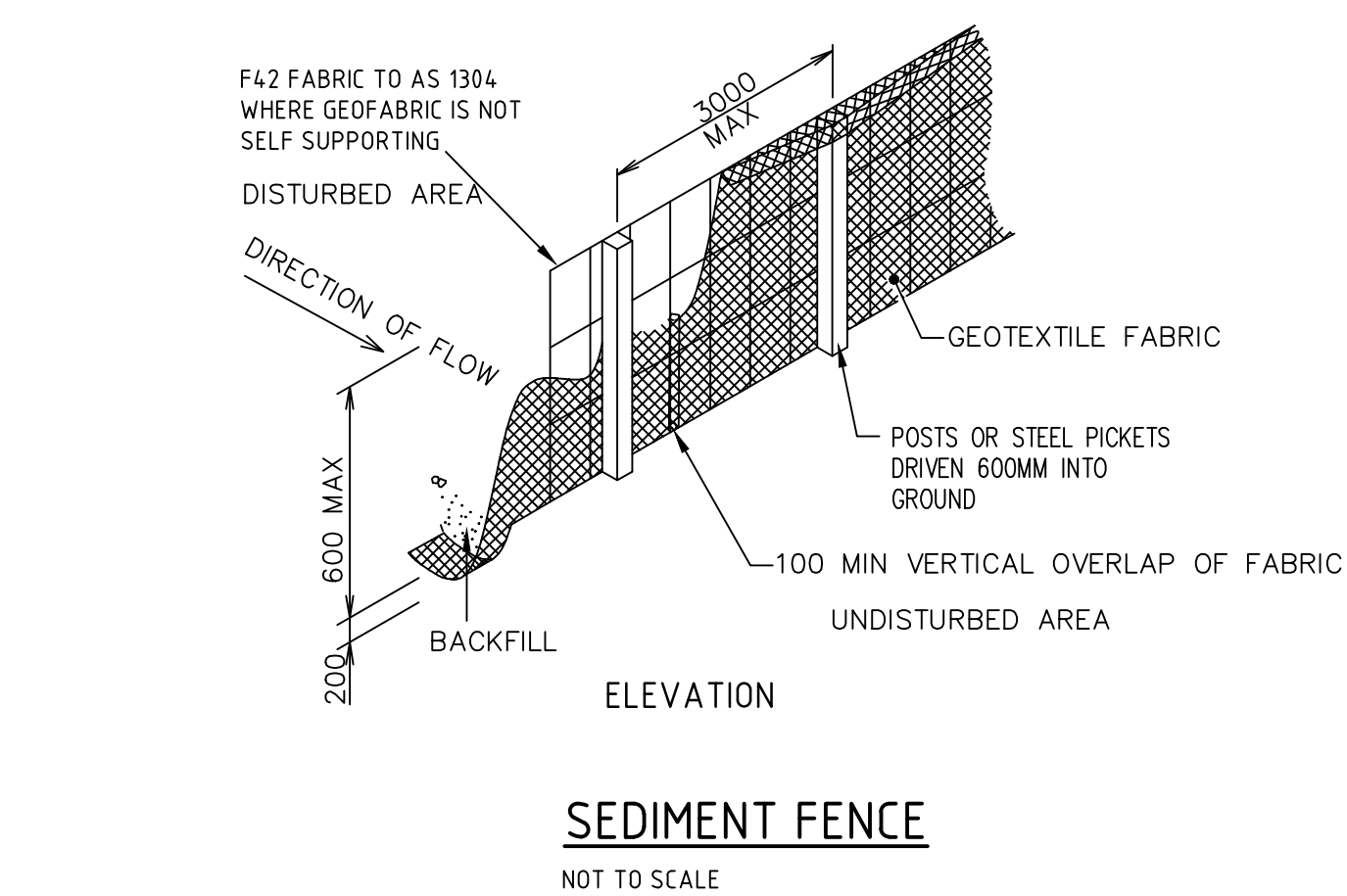
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Drawing Title	Designed	YK	Approved	Date	 North		
	Drawn	HM					
	Scale	1:500					
	Date	NOV. 2020					
	Sheet	A0					
MAIN WORKS SOIL AND WATER MANAGEMENT PLANS			Project Ref	Drawing No	Rev		
			NHR-BON-SCT-KIV-TB2-ALL-0000005 B				

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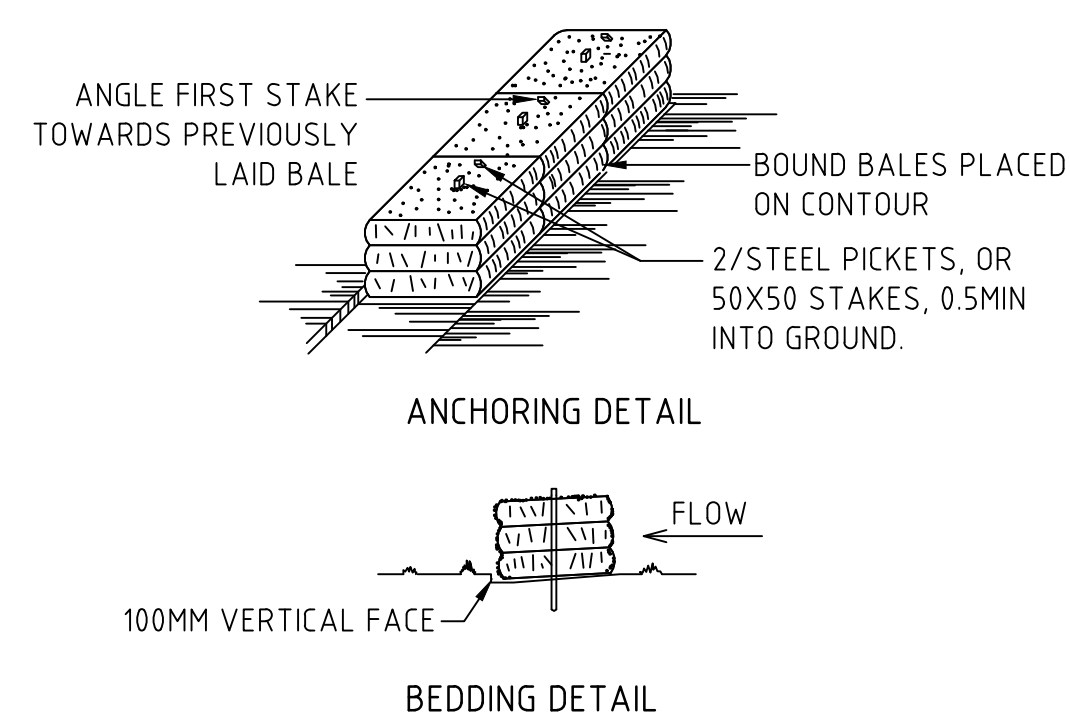
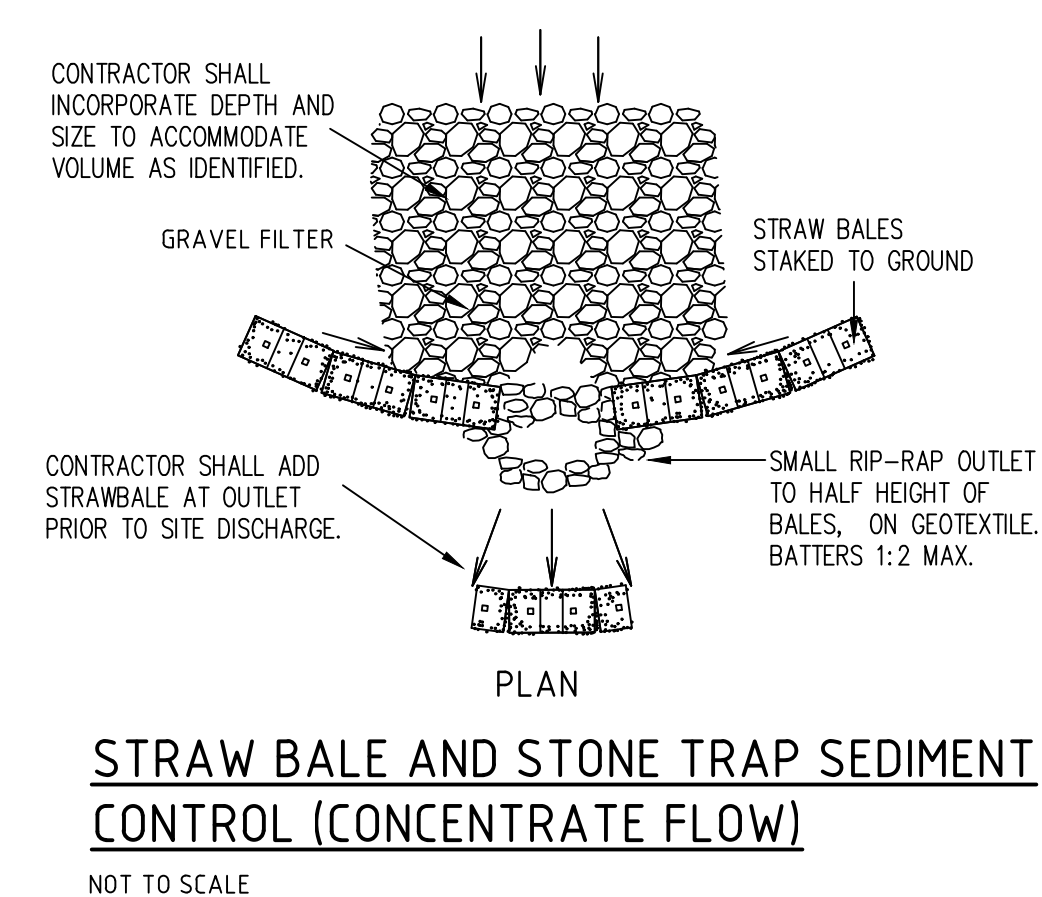
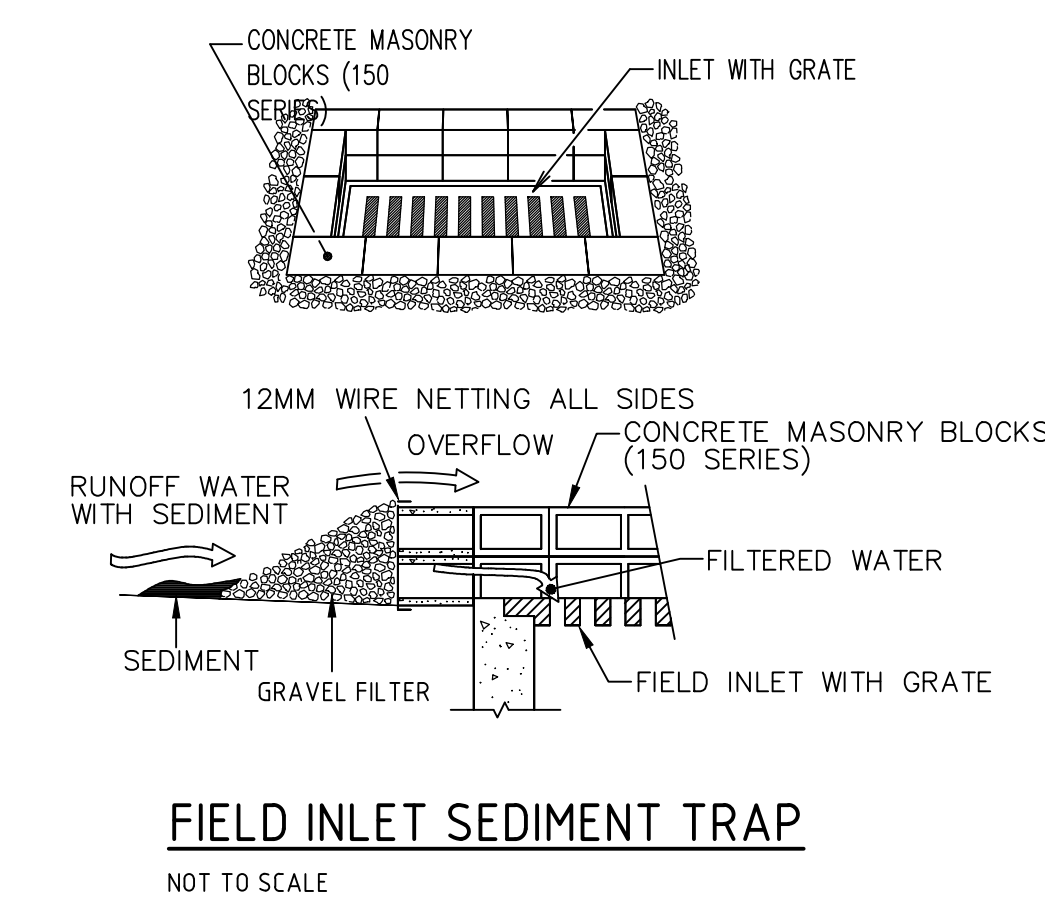
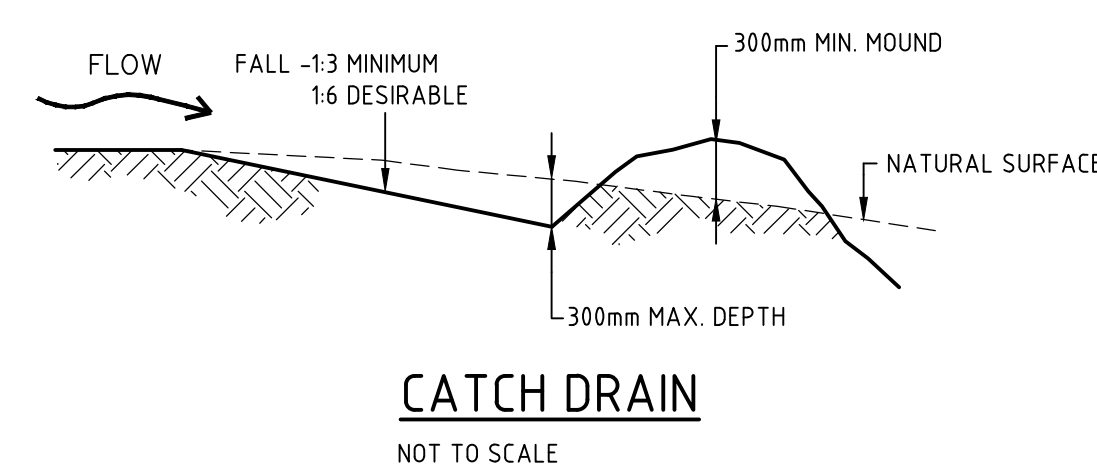
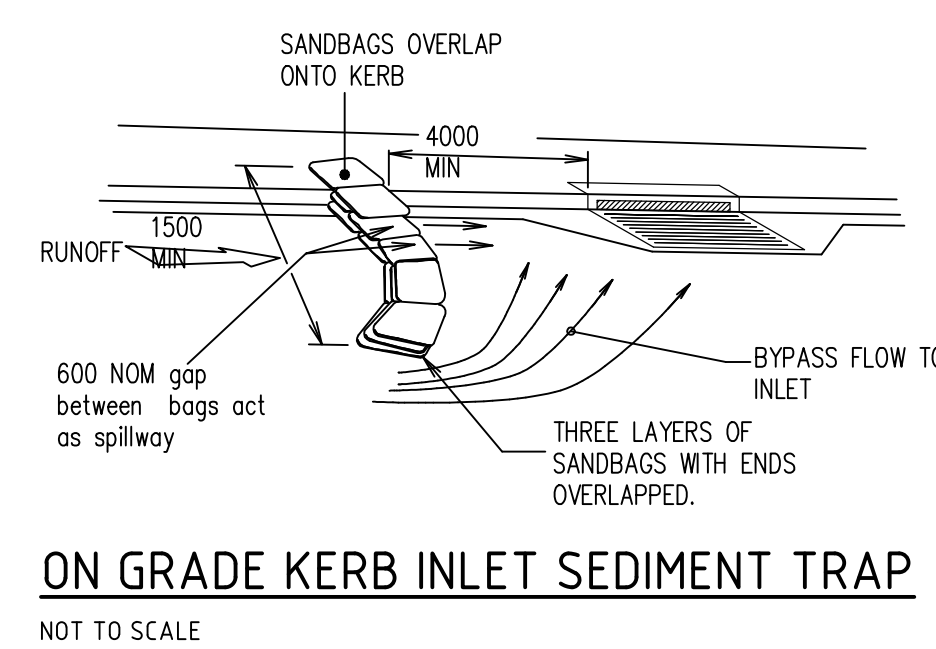
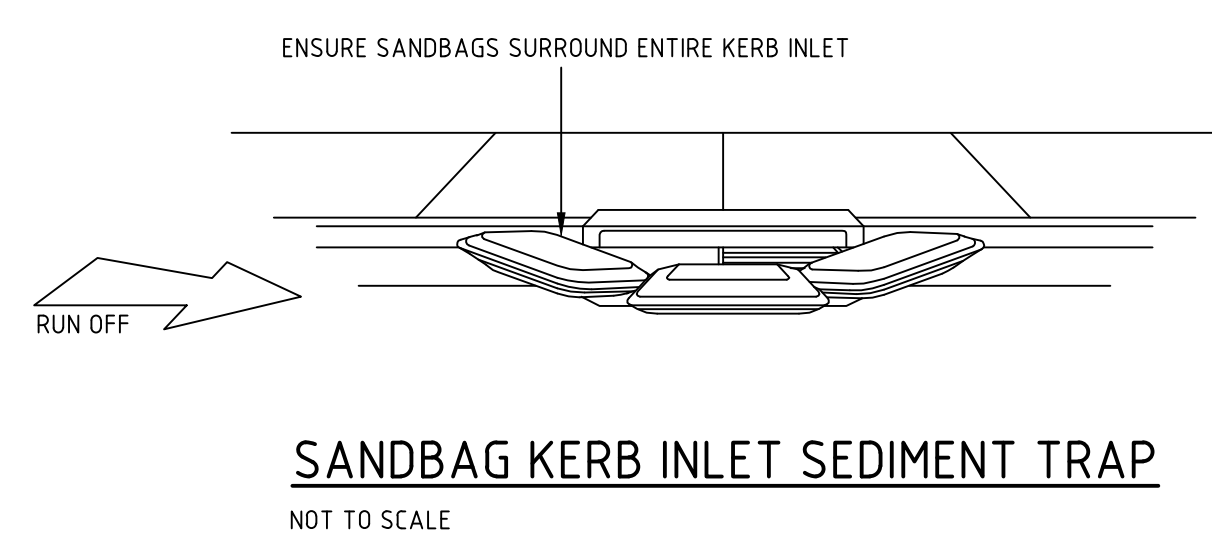
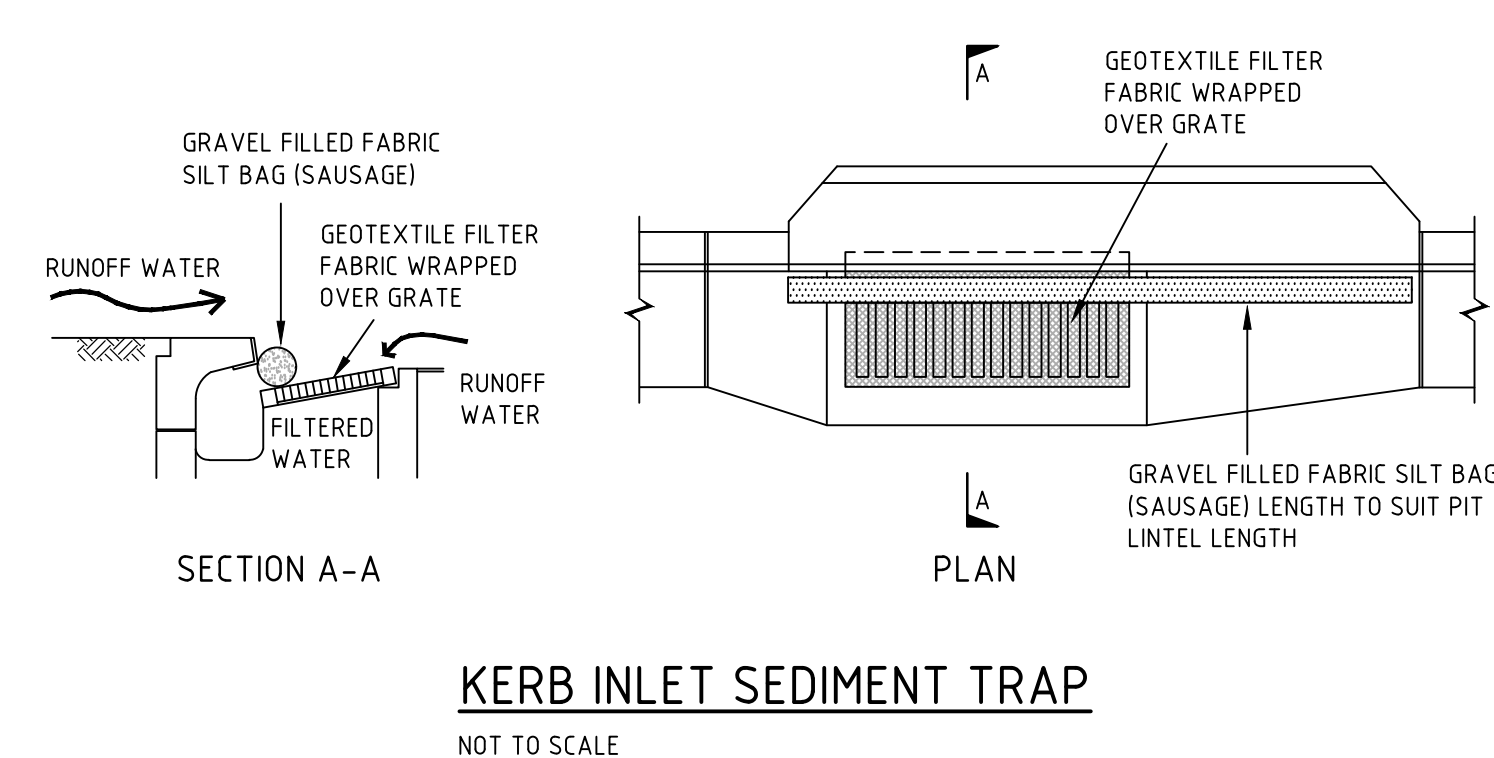
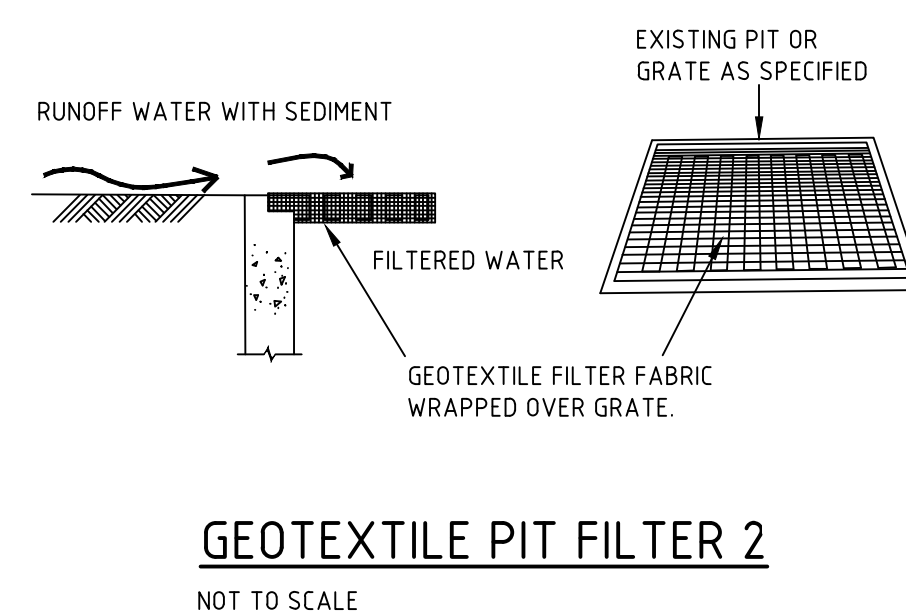
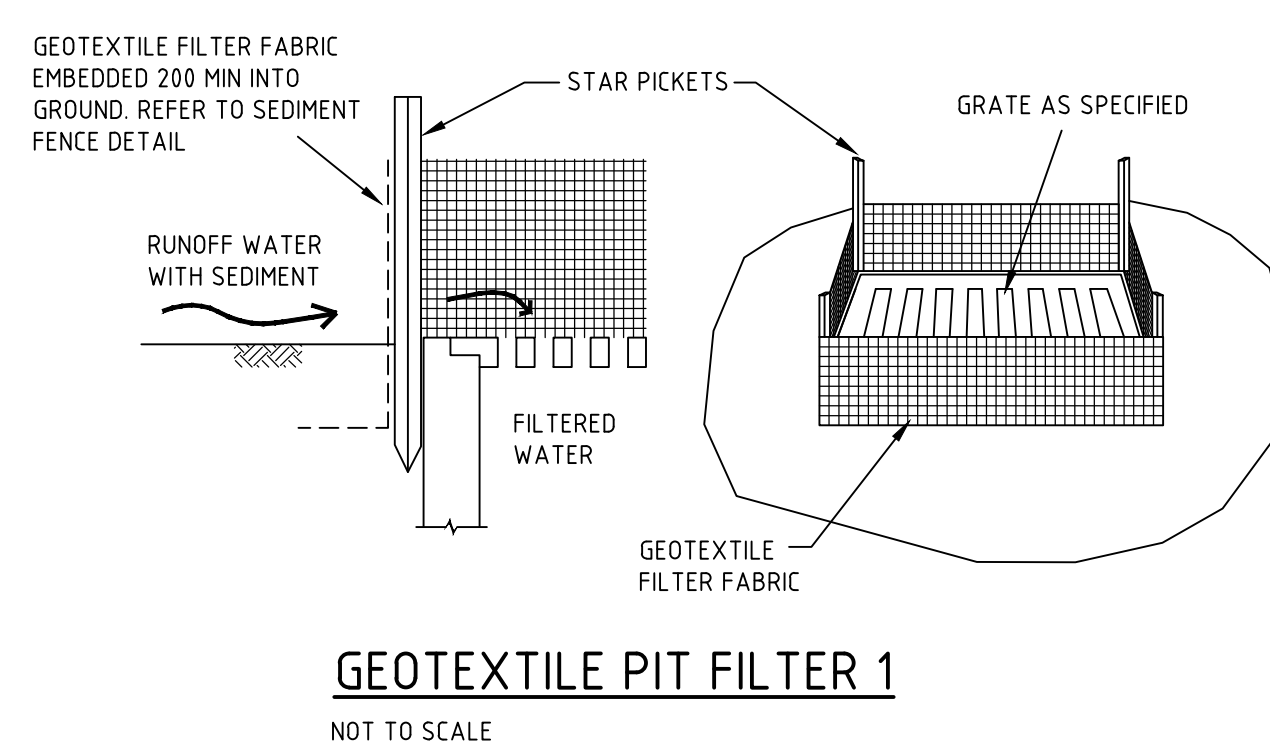
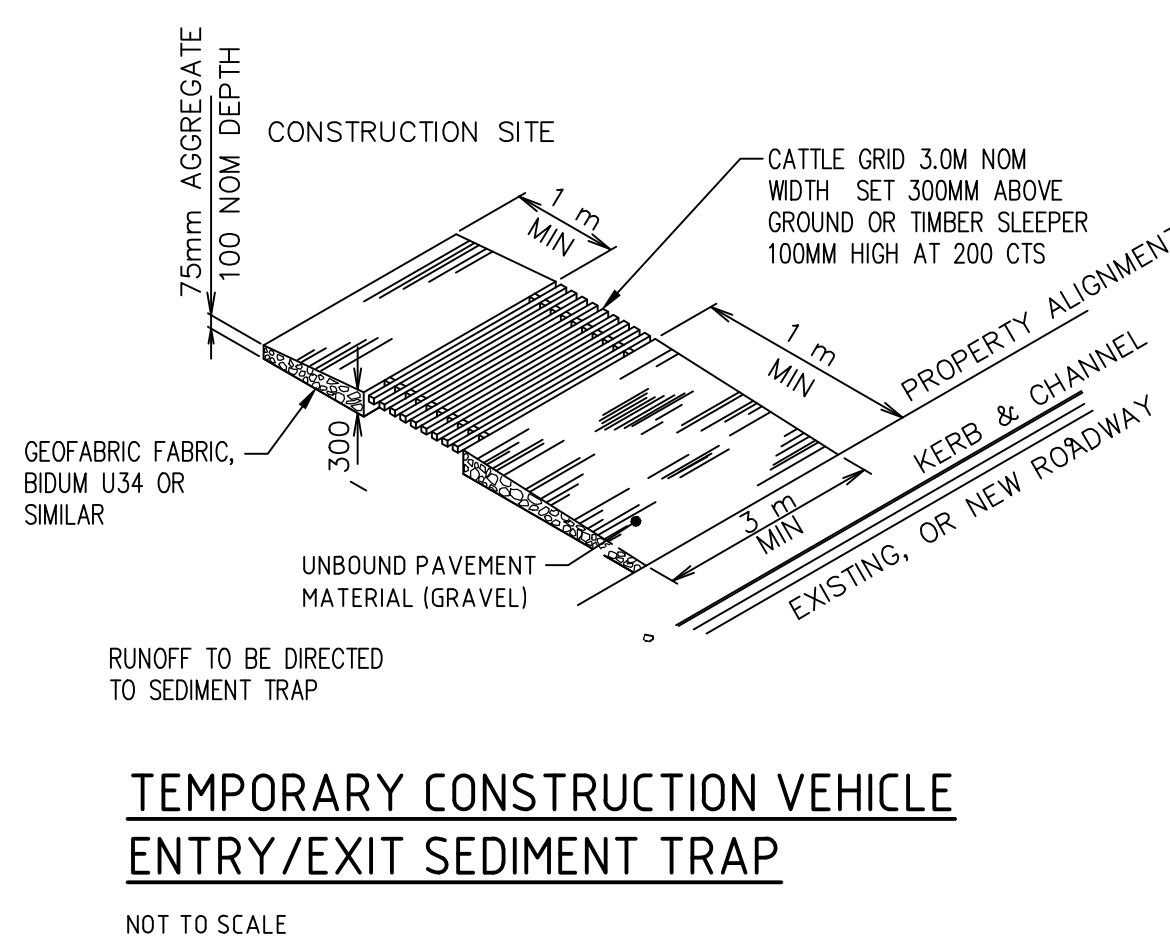
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1. INSTALL THIS TYPE OF SEDIMENT FENCE WHEN USE OF SUPPORT POSTS IS NOT DESIRABLE OR NOT POSSIBLE. SUCH CONDITIONS MIGHT APPLY, FOR EXAMPLE, WHERE APPROVAL IS GRANTED FROM THE APPROPRIATE AUTHORITIES TO PLACE THESE FENCES IN HIGHLY SENSITIVE ESTUARINE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



NOT TO SCALE

[illegible]

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Project Name		STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747				
Drawing No	SCHEMATIC DESIGN					
	Designed	YK	Approved	Date		North
	Drawn	HM				
	Scale	AS SHOWN				
Main Works	Date	NOV 2020	Project Ref	Drawing No	Rev	
	Sheet	A0	NHR-BON-CV-TB2-ALL-0000006			B

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

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

SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- SW — 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 UND

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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Rev	Description	Date	By	App
1	ISSUE FOR SD SUBMISSION	26.08.21	AK	
2	ISSUE FOR SD SUBMISSION	23.08.21	AK	
3	ISSUE FOR SD SUBMISSION	22.08.21	AK	
4	ISSUE FOR SD	28.08.21	AK	
5	PRELIMINARY ISSUE	11.08.20	AK	

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CBRE



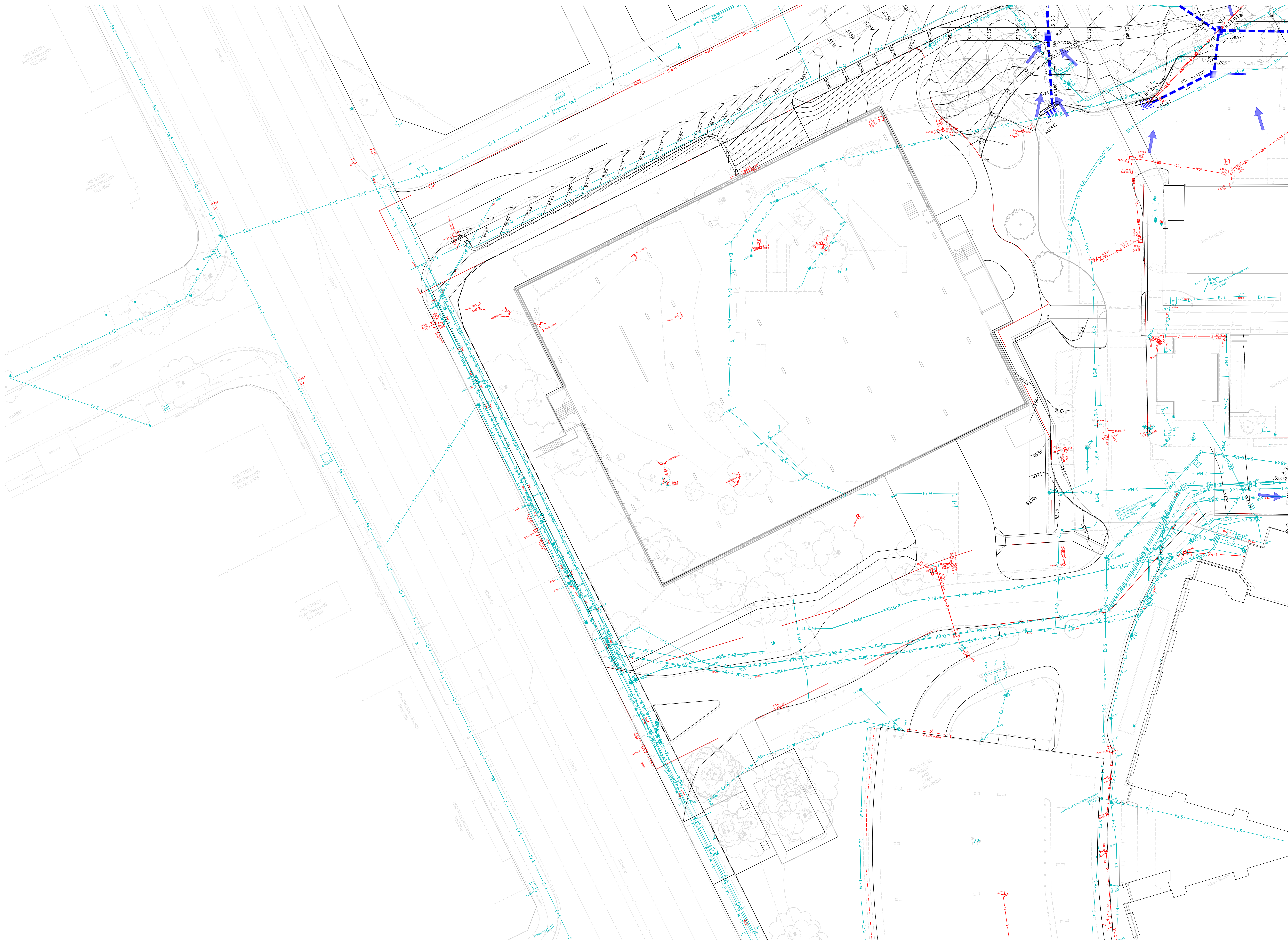
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Drawing Title: MAIN WORKS STORMWATER DRAINAGE PLAN SHEET 1

SCHEMATIC DESIGN

Designed: YK
Drawn: HPM
Date: NOV 2020
Sheet: A0

Approved: [Signature]
Project Ref: NHR-BON-CIV-TB2-ALL-0000022
Drawing No: [Blank]
Rev: C

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



- SURVEY LEGEND**
- SITE BOUNDARY
 - - - EX SURFACE LEVEL
 - - - EX SURFACE CONTOUR
 - ⊙ EX TREE
 - SW 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 UND
 - FLUSHOUT RISER WITH SUBSOIL DRAINAGE BUILT AS PART OF STAGE 1 WORKS
 - SO SURFACE CONTOURS

- SITWORKS 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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C	ISSUE FOR SD SUBMISSION	06.08.21	AC						
B	ISSUE FOR SD SUBMISSION	23.04.21	HW						
A	ISSUE FOR SD SUBMISSION	12.03.21	HW						

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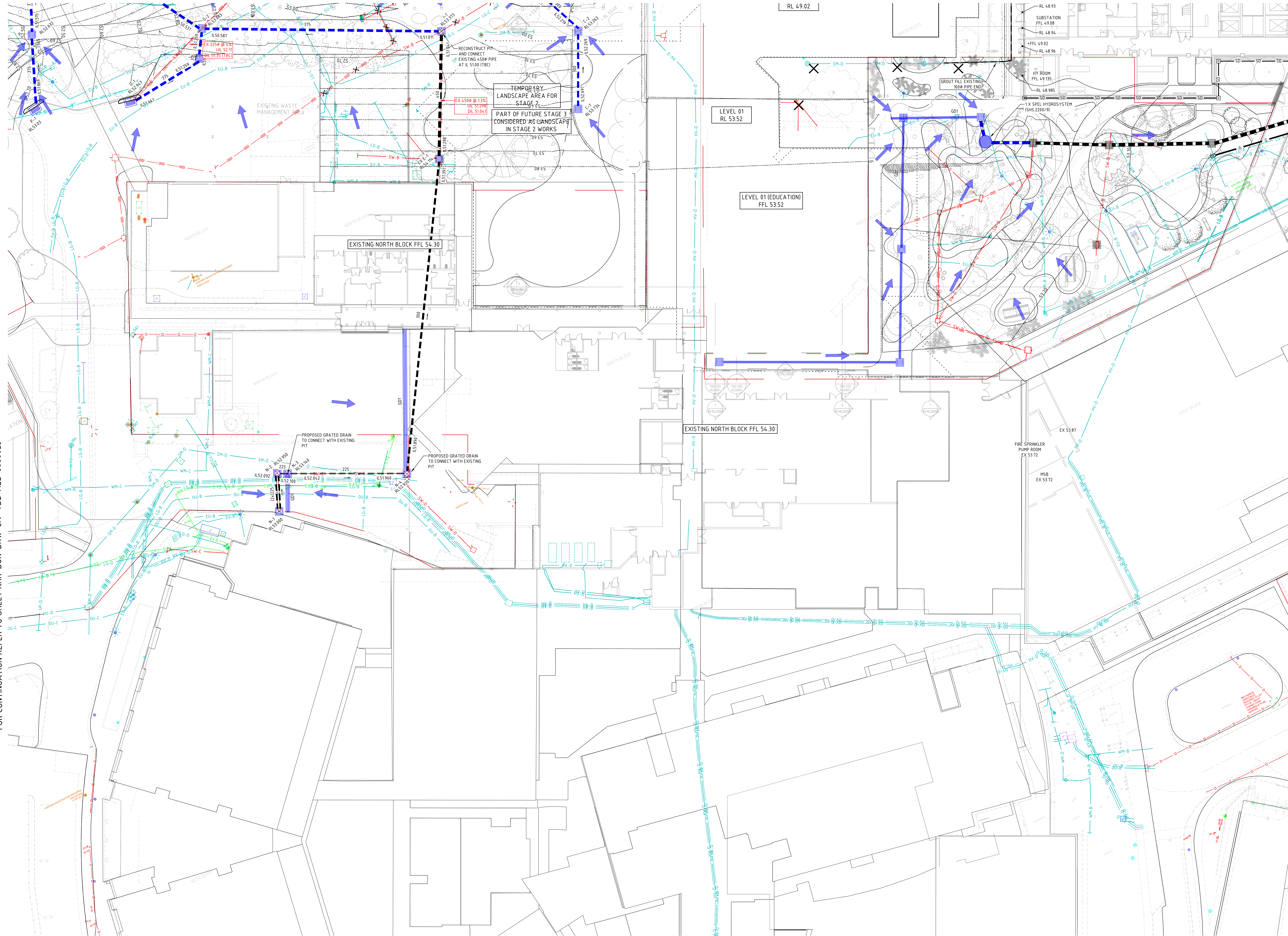
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Project Name	STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747
Drawn	HW
Date	NOV 2020
Sheet	A0

SCHEMATIC DESIGN			
Designed	YK	Approved	Date
Drawn	HW		
Date	NOV 2020	Project Ref	Drawing No
Sheet	A0	NHR-BON-DRW-CIV-TB2-ALL-0000023	Rev

C



SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (IND 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 UNDER
- FLUSHOUT RISER WITH SUBSOIL DRAINAGE BUILT AS PART OF STAGE 1 WORKS
- SURFACE CONTOURS

SITINGWORKS LEGEND

- SURFACE INLET PIT
- JUNCTION PIT
- 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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3	ISSUE FOR SD SUBMISSION	22.09.21	AK	
4	ISSUE FOR SD SUBMISSION	22.09.21	AK	
5	ISSUE FOR SD SUBMISSION	22.09.21	AK	
6	ISSUE FOR SD SUBMISSION	22.09.21	AK	
7	ISSUE FOR SD SUBMISSION	22.09.21	AK	
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10	ISSUE FOR SD SUBMISSION	22.09.21	AK	

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MEINHARDT BONACCI

Project Name: STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2207
Drawing Title: MAIN WORKS STORMWATER DRAINAGE PLAN SHEET 3
Scale: 1:200
Date: NOV 2020
Sheet: A0








SCHEMATIC DESIGN
Designed: YK
Drawn: HPH
Date: NOV 2020
Sheet: A0
Project Ref: NHR-BON-CIV-TB2-ALL-0000024
Drawing No: Rev: C




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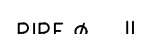


- | | |
|--|--|
| | SITE BOUNDARY |
| | EX SURFACE LEVEL |
| | EX SURFACE CONTOUR |
| | EX TREE |
| | EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (IN SURVEY PROVIDED) |
| | EX SEWER LINE |
| | EX WATER MAIN |
| | EX GAS LINE |
| | EX TELECOMMUNICATION LINE |
| | EX ELECTRICAL LINE |
| | EX UNKNOWN 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 UNDER
STAGE 2 WORKS
-  FLUSHOUT RISER WITH
SUBSOIL DRAINAGE BUILT AS
PART OF STAGE 1 WORKS
-  SURFACE CONTOURS

SITWORKS LEGEND

- | | |
|---|--|
|  | SURFACE INLET PIT |
|  | JUNCTION PIT |
|  | 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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<i>C</i>	<i>ISSUE FOR SD SUPPRESSION</i>						
<i>B</i>	<i>ISSUE FOR SD SUPPRESSION</i>						
<i>A</i>	<i>ISSUE FOR HN SO SUPPRESSION</i>						
<i>Rev.</i>	<i>Description</i>	<i>Date</i>	<i>Dy</i>	<i>Mo</i>	<i>Yr</i>	<i>Rev.</i>	<i>Description</i>

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Project Name	STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 274
Drawing Title	MAIN WORKS STORMWATER DRAINAGE PLAN SHEET 4

47				SCHEMATIC DESIGN			
Designed		YK		Approved		Date	
Drawn		HM				North	
Scale		1:200					
Date		NOV. 2020		Project Ref		Drawing No	
Sheet		A.0				Rev	
				NHR-BON-CIV-TB2-ALL-0000025			
				C			

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Project: 2000-23-4-15/2024 By: Main Roads
Rev Description Date By App Rev Description Date By App

Rev	Description	Date	By	App	Rev	Description	Date	By	App
C	ISSUE FOR SD SUBMISSION	06.08.21	AK						
B	ISSUE FOR SD SUBMISSION	23.04.21	AK						
A	ISSUE FOR SD SUBMISSION	12.02.21	AK						

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Level 4, 40 Clarence Street
Sydney NSW 2000
Australia
T +61 2 9559 3000
F +61 2 9559 3100
www.meinhardtbonacci.com
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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 5

SCHEMATIC DESIGN
Designed: YK
Drawn: HPM
Scale: 1:200
Date: NOV 2020
Sheet: A0
Project Ref: NHR-BON-CIV-TB2-ALL-0000026
Drawing No: Rev: C



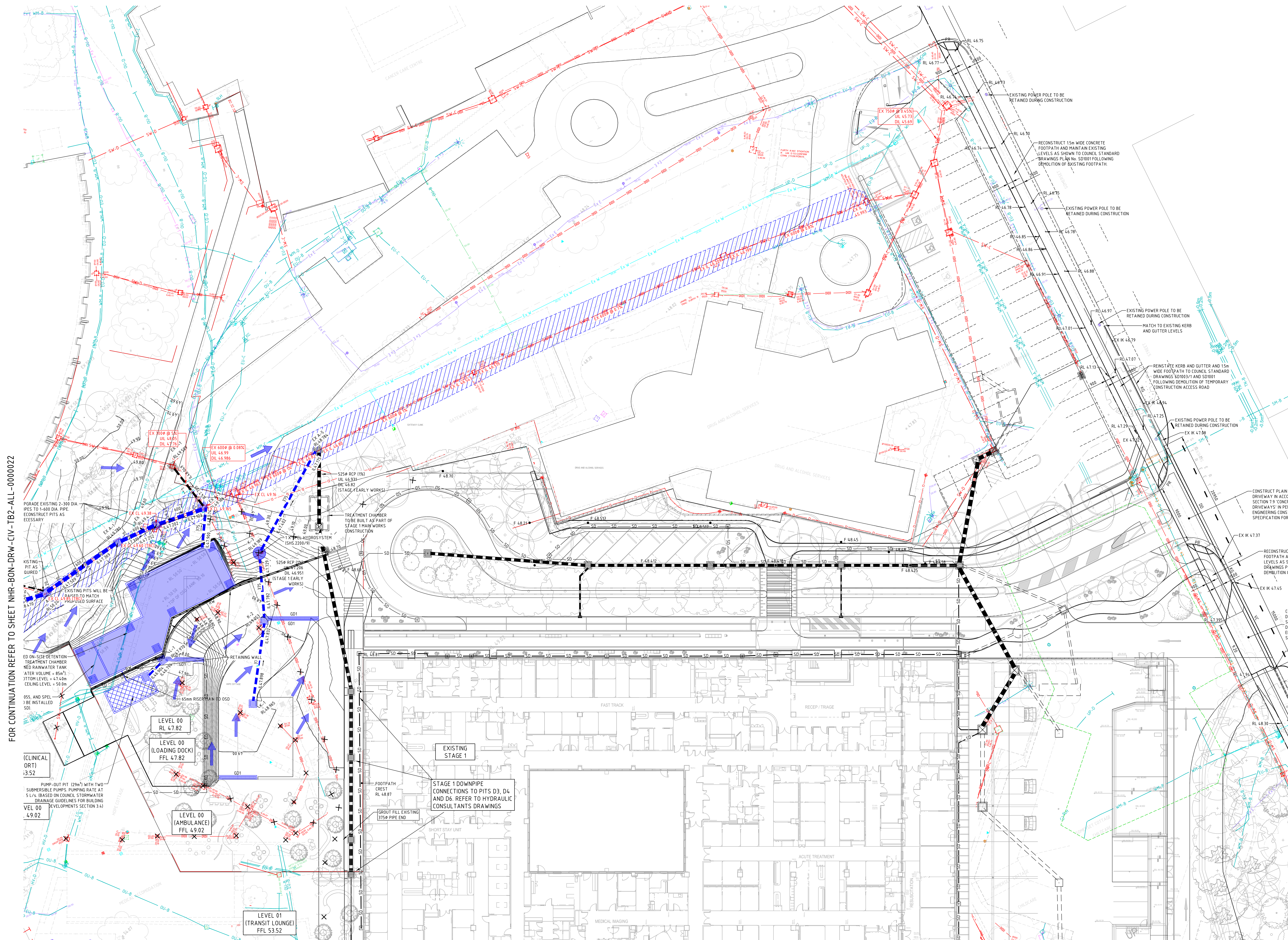
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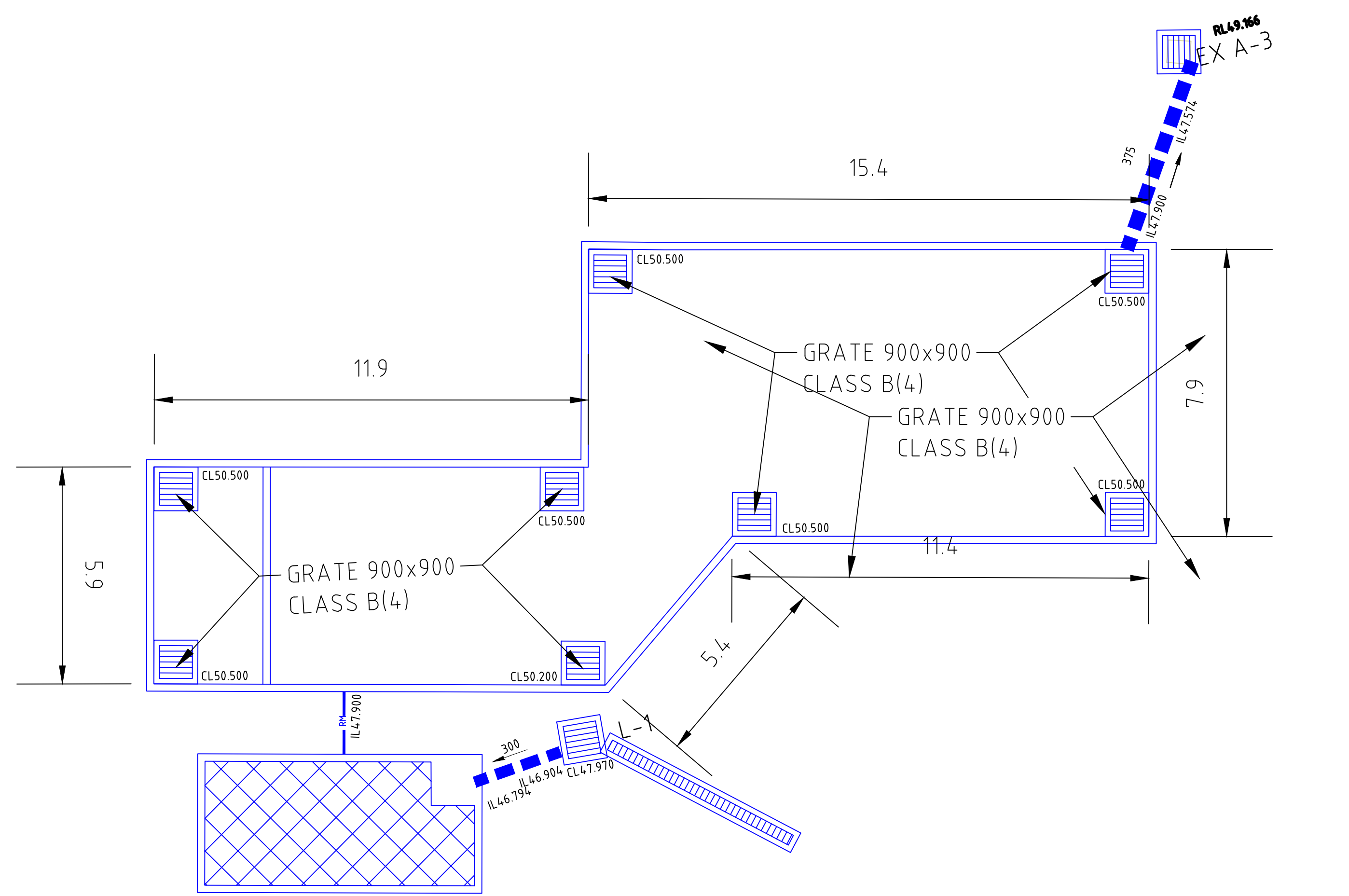
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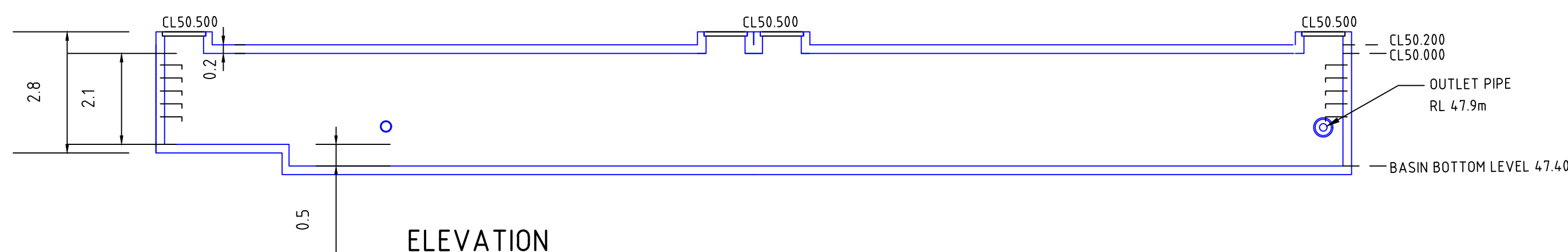
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- SURVEY LEGEND**
- SITE BOUNDARY
 - EX SURFACE LEVEL
 - EX SURFACE CONTOUR
 - EX TREE
 - EX STORMWATER DRAINAGE LINE SHOWN INDICATIVELY ONLY (NO SURVEY PROVIDED)
 - EX SEWER LINE
 - EX WATER MAIN
 - EX GAS LINE
 - EX TELECOMMUNICATIONS LINE
 - EX 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 UND
 - FLUSHOUT RISER WITH SUBSOIL DRAINAGE BUILT AS PART OF STAGE 1 WORKS
 - SURFACE CONTOURS
- SITWORKS LEGEND**
- SURFACE WET 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



ROOF PLAN



ELEVATION

NAPEAN STAGE 2 - PIT SCHEDULE								
PIT NAME	TYPE	EASTING	NORTHING	PIT SETOUT CL	INLET DIA	NV 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



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.

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

Rev	Description	Date	By	App	Rev	Description	Date	By	App
C	ISSUE FOR SD SUBMISSION	06.08.21	AK	-					
B	ISSUE FOR SD SUBMISSION	23.04.21	AK	-					
A	ISSUE FOR SD SUBMISSION	02.02.21	AK	-					

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NOT FOR CONSTRUCTION



Project Name	STAGE 2 NEPEAN HOSPITAL REDEVELOPMENT (NHR) DERBY STREET, KINGSWOOD NSW 2747
Design	YK
Drawn	AK
Date	NOV 2020
Sheet	A0

SCHEMATIC DESIGN			
Design	YK	Approved	Date
Drawn	AK	Project Ref	Drawing No
Date	NOV 2020	Sheet	Rev
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