

PROJECT: SAINTS PETER & PAUL ASSYRIAN PRIMARY SCHOOL

PLANSET: CIVIL WORKS MASTER PLAN

CLIENT: ASSYRIAN SCHOOLS LTD.



LOCALITY PLAN  
N.T.S.

NSW DEPARTMENT OF PLANNING AND ENVIRONMENT SSDA 9210  
LGA: FAIRFIELD CITY COUNCIL  
17 & 19 KOSOVICH PLACE, CECIL PARK, NSW  
LOTS 2320 & 2321, DP 1223137

DRAWING LIST		
DWG NO	REV.	TITLE
GENERAL		
PS03-A000	E	COVER SHEET
PS03-A050	E	ENGINEERING OVERVIEW PLAN
CONSTRUCTION MANAGEMENT WORKS		
PS03-B300	E	SEDIMENT & EROSION CONTROL PLAN
PS03-B310	E	SEDIMENT & EROSION CONTROL DETAILS
EARTHWORKS		
PS03-C100	E	EARTHWORKS GRADING PLAN
PS03-C200	B	EARTHWORKS SITE SECTIONS (SHEET 1)
PS03-C201	B	EARTHWORKS SITE SECTIONS (SHEET 2)
PS03-C500	E	EARTHWORKS CUT-FILL PLAN
ROADWORKS		
PS03-D100	E	ROADWORKS PLAN
PS03-D200	E	DRIVEWAY (21-MRL01) AND CARPARK AISLE (21-MRL02) LONGITUDINAL & TYPICAL SECTIONS
PS03-D201	E	CARPARK AISLE (21-MRL03) AND EMERGENCY VEHICLE ACCESS (21-MRL04) LONGITUDINAL & TYPICAL SECTIONS
DRAINAGE WORKS		
PS03-E100	E	DRAINAGE PLAN
PS03-E200	D	DRAINAGE DETAILS (SHEET 1)
PS03-E201	D	DRAINAGE DETAILS (SHEET 2)
PS03-E300	D	DRAINAGE LONGITUDINAL SECTIONS (SHEET 1)
PS03-E301	D	DRAINAGE LONGITUDINAL SECTIONS (SHEET 2)
PS03-E302	D	DRAINAGE PIT SCHEDULE
PS03-E600	E	OSD CATCHMENT PLAN, MODEL AND RESULTS
PS03-E700	E	WATER QUALITY CATCHMENT PLAN, MODEL AND RESULTS
FINAL CIVIL WORKS		
PS03-G400	C	CONCEPT PAVEMENT DESIGN
UTILITIES AND SERVICES		
PS03-H200	A	SITE PLAN - WASTEWATER MANAGEMENT
PS03-K100	A	SITE PLAN - 1 IN 20 YEAR ARI, 1 IN 100 YEAR ARI AND PMF FLOOD EXTENTS

STATE SIGNIFICANT DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE
E	MINOR AMENDMENT	11/09/2018	GM	DG/CG/EZ	DG	TH	
D	AMENDED ARCHITECT LAYOUTS FROM EMAIL 31/08/2018	05/09/2018	GM	CG/DG/EZ	TH		
C	MINOR AMENDMENT	31/08/2018	GM	EZ/CG	CG/DG	TH	
B	MINOR AMENDMENT	25/07/2018	GM	CG/EZ	DG	TH	
A	INITIAL RELEASE	06/07/2018	GM	CG/EZ			

A1 / A3 LANDSCAPE (A1LC\_v02.0.01)

GRID	DATUM	PROJECT MANAGER	CLIENT
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PROJECT NAME/PLANSET TITLE			
ST PETER & PAUL ASSYRIAN PRI. SCHOOL			
CIVIL WORKS MASTER PLAN			
17 & 19 KOSOVICH PLACE, CECIL PARK, NSW			
LOTS 2320 & 2321, DP 1223167			



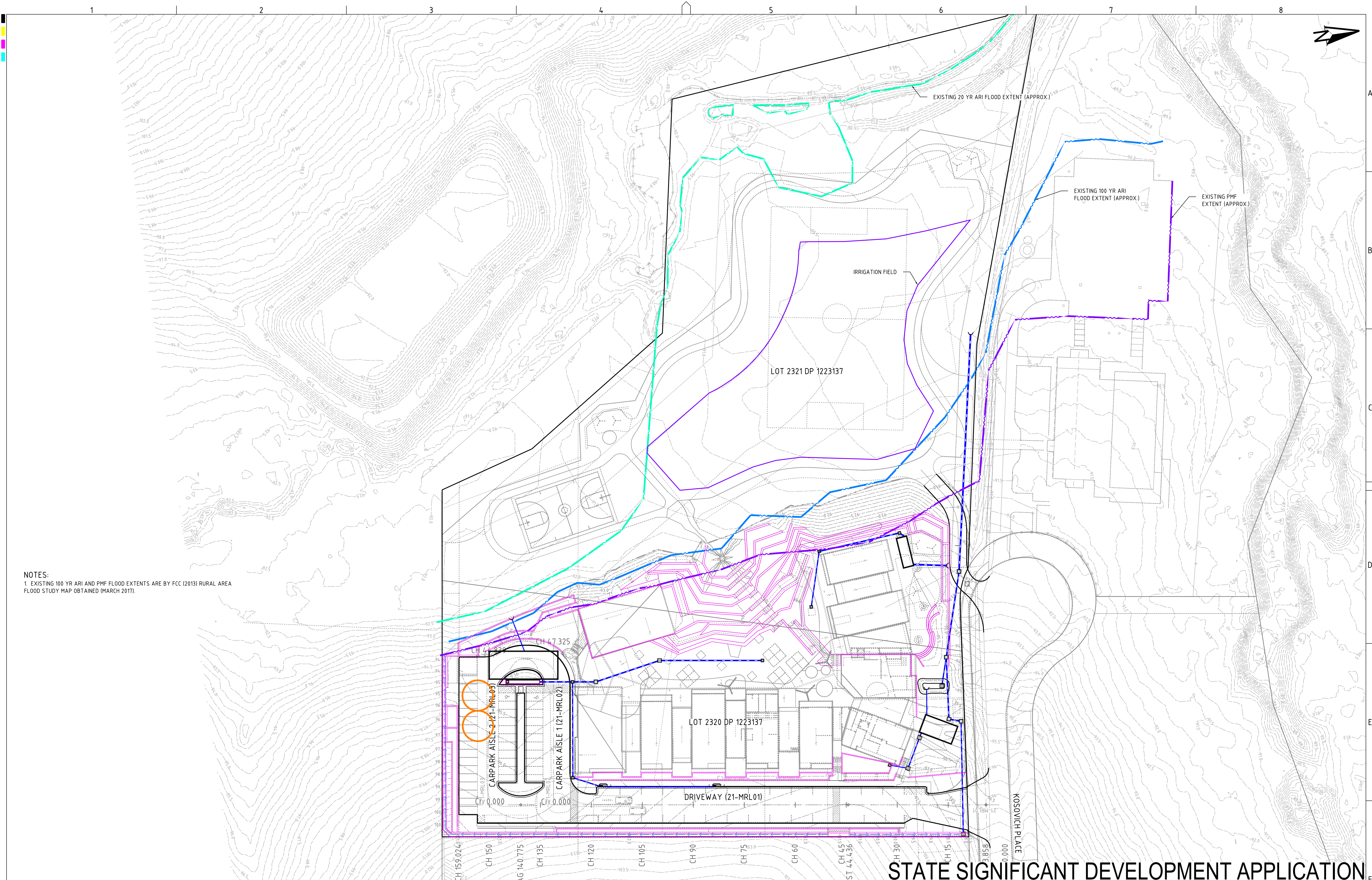
Consulting Engineers  
Environment  
Water  
Geotechnical  
Civil

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DRAWING TITLE				
COVER SHEET				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-A000	E

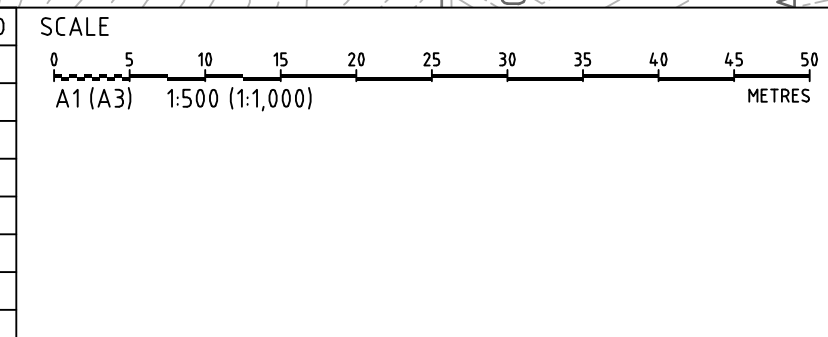
DRAWING ID: P1705798-PS03-R05-A000





NOTES:  
1. EXISTING 100 YR ARI AND PMF FLOOD EXTENTS ARE BY FCC (2013) RURAL AREA FLOOD STUDY MAP OBTAINED (MARCH 2017).

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B	MINOR AMENDMENT	25/07/2018	GM	CG/EZ	DG	TH
A	INITIAL RELEASE	06/07/2018	GM	CG/EZ		



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CIVIL WORKS MASTER PLAN			
17 & 19 KOSOVICH PLACE, CECIL PARK, NSW			
LOTS 2320 & 2321, DP 1223167			

# STATE SIGNIFICANT DEVELOPMENT APPLICATION

Consulting Engineers  
Environment  
Water  
Geotechnical  
Civil

DRAWING TITLE

ENGINEERING OVERVIEW PLAN

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-A050	E





NOTE:  
- TO BE READ IN CONJUNCTION WITH SEDIMENT AND EROSION CONTROL DETAILS PS03-B310.

KEY:

EXISTING CONTOURS

SEDIMENT FENCE

EARTH BANK (LOW FLOW) WITH GEOTEXTILE LINING FOR UPSTREAM STORM WATER DIVERSION

EARTH BANK (LOW FLOW) FOR SITE STORM WATER DIVERSION

MESH AND GRAVEL INLET FILTER

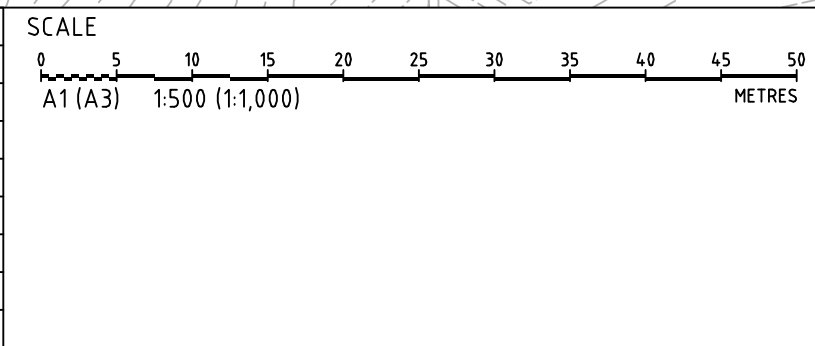
STRAW BALE FILTER

INDICATIVE STOCKPILE

STABILISED SITE ACCESS WITH SHAKER PAD

100.0

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17 & 19 KOSOVICH PLACE, CECIL PARK, NSW			
LOTS 2320 & 2321, DP 1223167			

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DRAWING TITLE				
SEDIMENT & EROSION CONTROL PLAN				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-B300	E











DATUM RL 88.000

DESIGN SURFACE LEVELS	
EXISTING SURFACE LEVELS	
CUT / FILL DEPTH	
CHAINAGE	

0.000	90.224	0.000
2.000	90.240	0.000
4.000	90.255	0.000
6.000	90.269	0.000
8.000	90.276	0.000
10.000	90.269	0.000
12.000	90.263	0.000
14.000	90.259	0.000
16.000	90.255	0.000
18.000	90.273	0.000
20.000	90.307	0.000
22.000	90.352	0.000
24.000	90.398	0.000
26.000	90.444	0.000
28.000	90.490	0.000
30.000	90.535	0.000
32.000	90.585	0.000
34.000	90.640	0.000
36.000	90.696	0.000
38.000	90.760	0.320
40.000	90.870	0.716
42.000	90.959	1.113
44.000	91.049	1.509
46.000	91.139	1.905
48.000	91.228	2.380
50.000	91.304	2.830
52.000	91.398	3.502
54.000	91.501	3.999
56.000	91.680	3.720
58.000	91.859	3.041
60.000	92.041	2.859
62.000	92.232	2.668
64.000	92.424	2.478
66.000	92.634	2.266
68.000	92.844	2.056
70.000	93.053	1.847
72.000	93.276	1.624
74.000	93.498	1.402
76.000	93.721	1.179
78.000	94.020	0.980
80.000	94.314	0.586
82.000	94.608	0.292
84.000	94.911	-0.011
86.000	95.224	-0.324
88.000	95.537	-0.563
90.000	95.848	-0.752
92.000	96.100	-0.899
94.000	96.213	-0.113
96.000	96.462	-0.362
98.000	96.711	-0.611
100.000	96.960	-0.860
102.000	97.209	-1.109
104.000	97.460	-1.360
106.000	97.754	-1.654
108.000	98.014	-1.914
110.000	98.218	-2.118
112.000	98.439	-2.323
114.000	98.656	-2.556
116.000	98.879	-2.779
118.000	99.102	-2.902
120.000	99.325	-2.525
122.000	99.577	-2.037
124.000	99.605	-1.704
126.000	99.767	-1.967
128.000	99.862	-2.035
130.000	99.991	-2.104
132.000	100.130	-2.183
134.000	100.301	-2.294
136.000	100.472	-2.405
138.000	100.643	-1.643
140.000	100.805	-0.297
142.000	100.971	0.000
144.000	101.040	0.000
146.000	101.159	0.000
148.000	101.289	0.000
150.000	101.424	0.000
150.111	101.532	0.000

SECTION B

SCALE: HORIZONTAL - 1:400  
VERTICAL - 1:200

DATUM RL 89.000

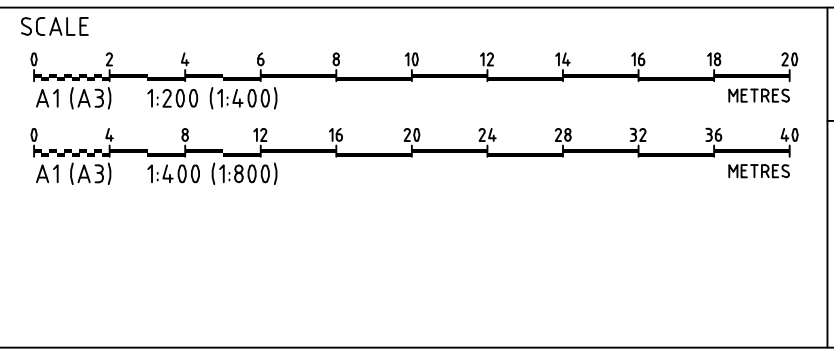
DESIGN SURFACE LEVELS	
EXISTING SURFACE LEVELS	
CUT / FILL DEPTH	
CHAINAGE	

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6.000	91.238	0.000
8.000	91.232	0.000
10.000	91.225	0.000
12.000	91.223	0.000
14.000	91.233	0.000
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18.000	91.253	0.000
20.000	91.272	0.000
22.000	91.308	0.000
24.000	91.328	0.000
26.000	91.348	0.000
28.000	91.365	0.000
30.000	91.381	0.000
32.000	91.398	0.000
34.000	91.406	0.000
36.000	91.413	0.000
38.000	91.427	0.000
40.000	91.443	0.000
42.000	91.485	0.000
44.000	91.549	0.000
46.000	91.613	0.000
48.000	91.670	0.000
50.000	91.712	0.000
52.000	91.786	0.000
54.000	91.860	0.000
56.000	91.931	0.120
58.000	92.051	0.452
60.000	92.300	0.320
62.000	92.511	0.191
64.000	92.852	0.518
66.000	93.000	1.023
68.000	93.000	1.145
70.000	93.000	0.956
72.000	93.000	0.577
74.000	93.000	0.283
76.000	93.000	0.185
78.000	93.000	-0.012
80.000	93.000	-0.243
82.000	93.000	-0.436
84.000	93.000	-0.629
86.000	93.000	-0.822
88.000	93.000	-1.015
90.000	93.000	-1.208
92.000	93.000	-1.401
94.000	93.000	-1.594
96.000	93.000	-1.787
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100.000	93.000	-2.173
102.000	93.000	-2.366
104.000	93.000	-2.559
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110.000	93.000	-3.138
112.000	93.000	-3.331
114.000	93.000	-3.524
116.000	93.000	-3.717
118.000	93.000	-3.910
120.000	93.000	-4.103
122.000	93.000	-4.296
124.000	93.000	-4.489
126.000	93.000	-4.682
128.000	93.000	-4.875
130.000	93.000	-5.068
132.000	93.000	-5.261
134.000	93.000	-5.454
136.000	93.000	-5.647
138.000	93.000	-5.840
140.000	93.000	-6.033
142.000	93.000	-6.226
144.000	93.000	-6.419
146.000	93.000	-6.612
148.000	93.000	-6.805
150.000	93.000	-7.000

SECTION A

SCALE: HORIZONTAL - 1:400  
VERTICAL - 1:200

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPROV
B	MINOR AMENDMENT	11/09/2018	GM	DG/CG/EZ	DG	TH
A	AMENDED ARCHITECT LAYOUTS FROM EMAIL 31/08/2018	05/09/2018	CG	CG/DG/EZ	TH	



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MGA	mAHD	TH	ASSYRIAN SCHOOLS LTD
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ST PETER & PAUL ASSYRIAN PRI. SCHOOL			
CIVIL WORKS MASTER PLAN			
17 & 19 KOSOVICH PLACE, CECIL PARK, NSW			
LOTS 2320 & 2321, DP 1223167			

STATE SIGNIFICANT DEVELOPMENT APPLICATION

Consulting Engineers

Environment  
Water  
Geotechnical  
Civil

DRAWING TITLE

EARTHWORKS SITE SECTIONS  
SHEET 1

PROJECT NO.

PLANSET NO.

RELEASE NO.

DRAWING NO.

REVISION

P1705798

PS03

R05

PS03-C200

B

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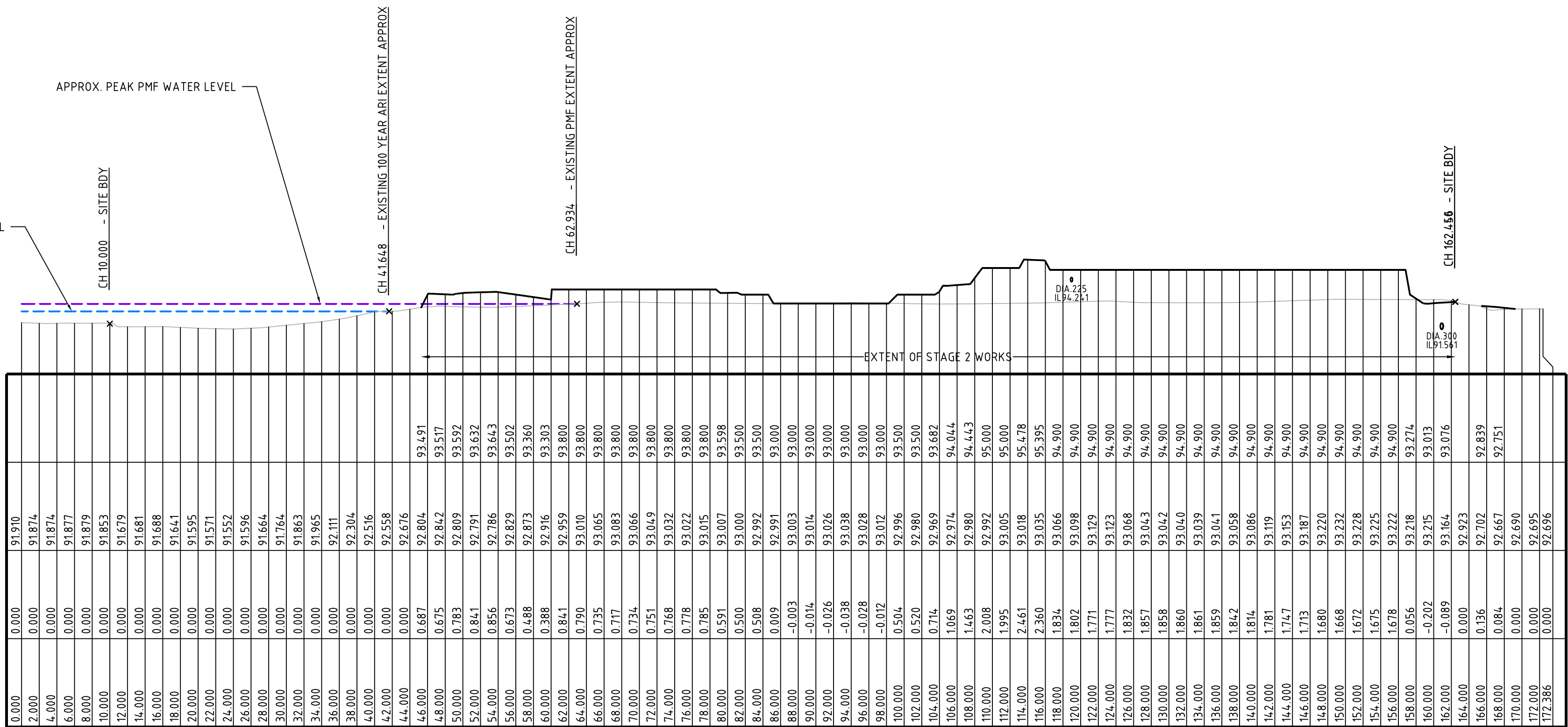
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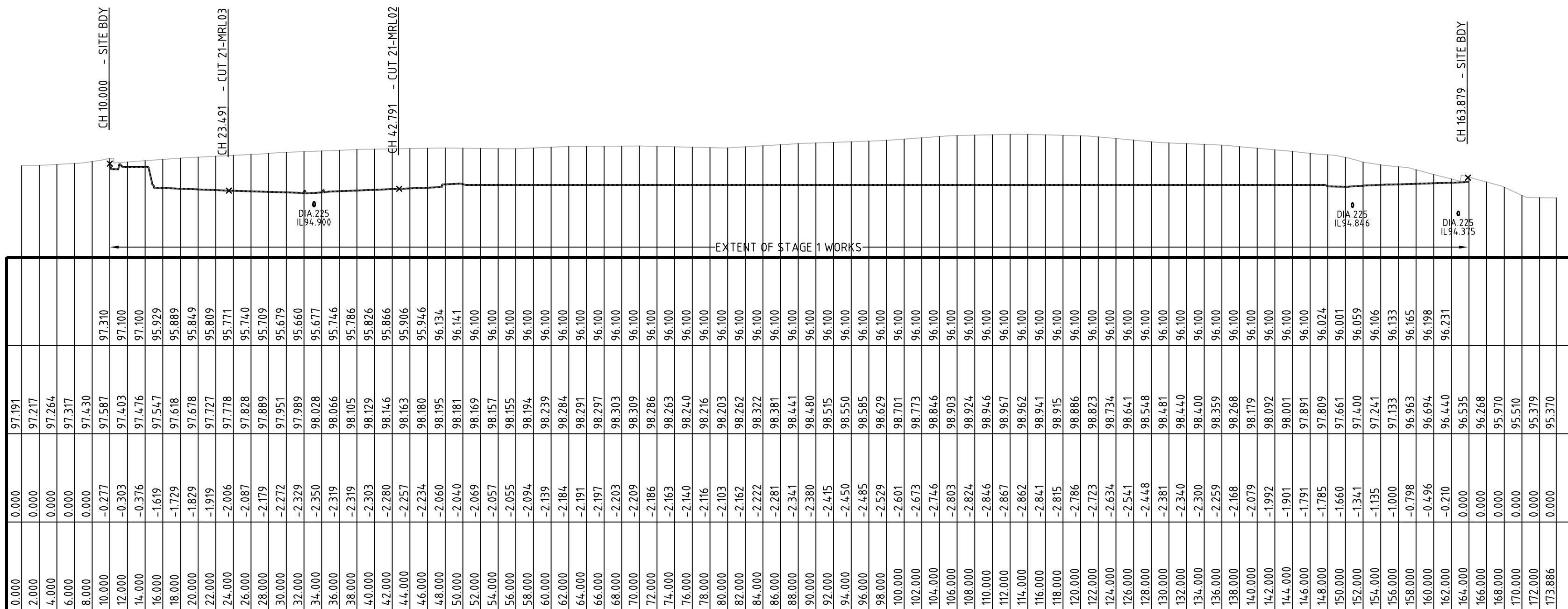
DESIGN SURFACE LEVELS
EXISTING SURFACE LEVELS
CUT / FILL DEPTH
CHAINAGE



SECTION D  
SCALE: HORIZONTAL - 1:400  
VERTICAL - 1:200

DATUM RL 92.000

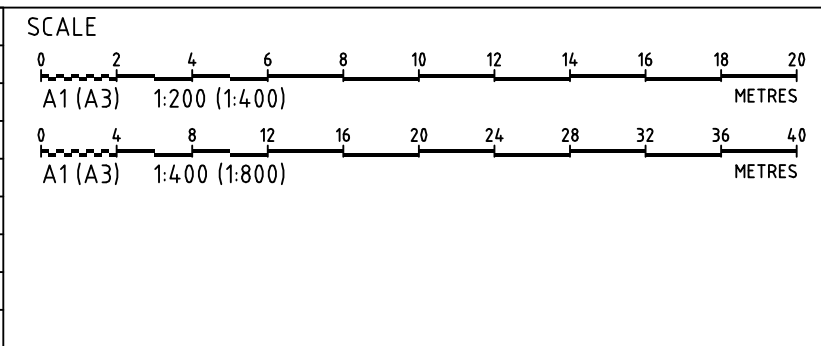
DESIGN SURFACE LEVELS
EXISTING SURFACE LEVELS
CUT / FILL DEPTH
CHAINAGE



SECTION C  
SCALE: HORIZONTAL - 1:400  
VERTICAL - 1:200

# STATE SIGNIFICANT DEVELOPMENT APPLICATION

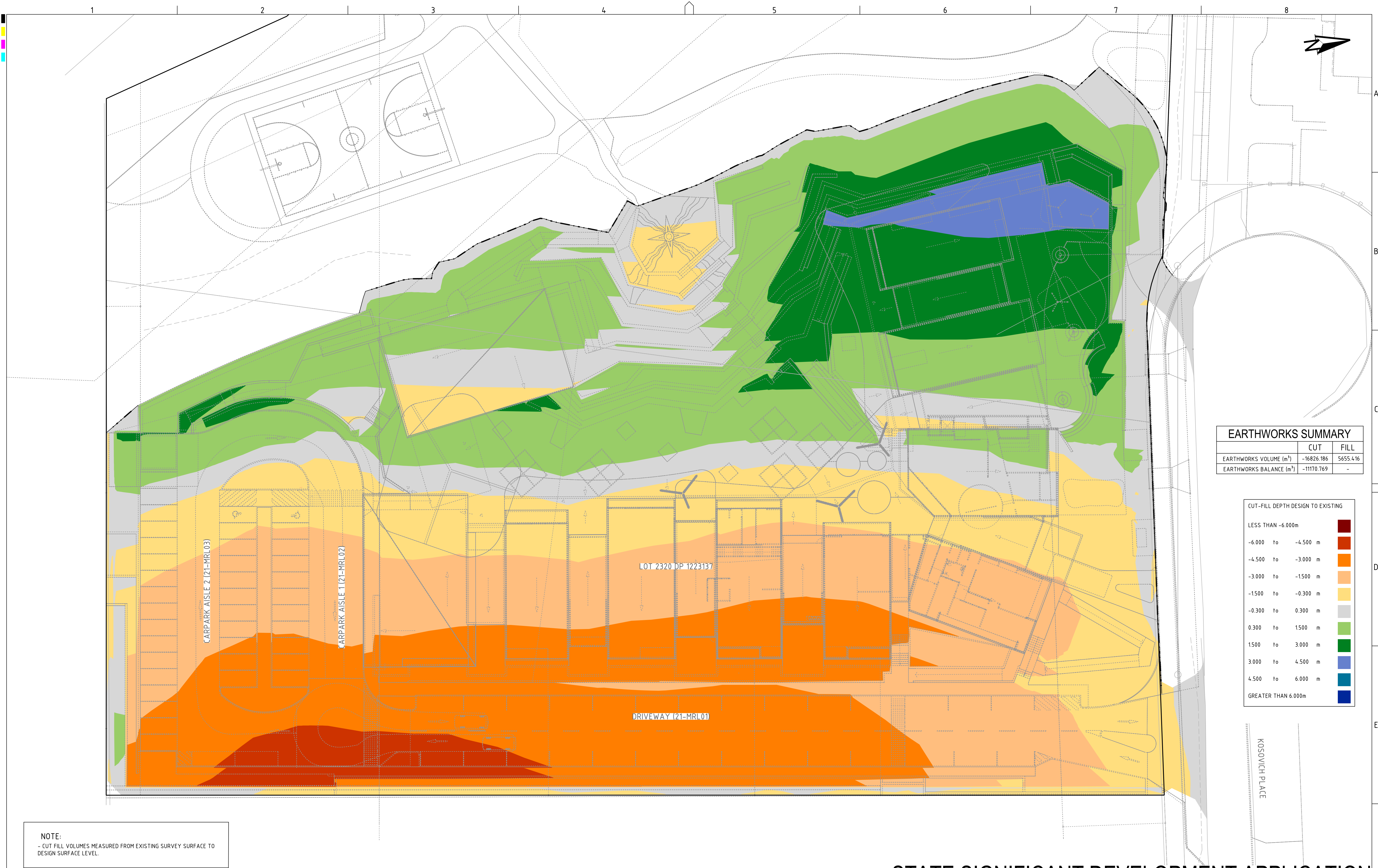
REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
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GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	ASSYRIAN SCHOOLS LTD
PROJECT NAME/PLANSET TITLE			
ST PETER & PAUL ASSYRIAN PRI. SCHOOL			
CIVIL WORKS MASTER PLAN			
17 & 19 KOSOVICH PLACE, CECIL PARK, NSW			
LOTS 2320 & 2321, DP 1223161			
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DRAWING TITLE	PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
EARTHWORKS SITE SECTIONS SHEET 2	P1705798	PS03	R05	PS03-C201	B
Consulting Engineers Environment Water Geotechnical Civil					
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EARTHWORKS SUMMARY		
	CUT	FILL
EARTHWORKS VOLUME (m³)	-16826.186	5655.416
EARTHWORKS BALANCE (m³)	-11170.769	-

CUT-FILL DEPTH DESIGN TO EXISTING		
LESS THAN -6.000m		
-6.000 to -4.500 m		
-4.500 to -3.000 m		
-3.000 to -1.500 m		
-1.500 to -0.300 m		
-0.300 to 0.300 m		
0.300 to 1.500 m		
1.500 to 3.000 m		
3.000 to 4.500 m		
4.500 to 6.000 m		
GREATER THAN 6.000m		

NOTE:  
- CUT FILL VOLUMES MEASURED FROM EXISTING SURVEY SURFACE TO DESIGN SURFACE LEVEL.

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B	MINOR AMENDMENT	25/07/2018	GM	CG/EZ	DG	TH
A	INITIAL RELEASE	06/07/2018	GM	CG/EZ		

SCALE  
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A1 (A3) 1:250 (1:500) METRES

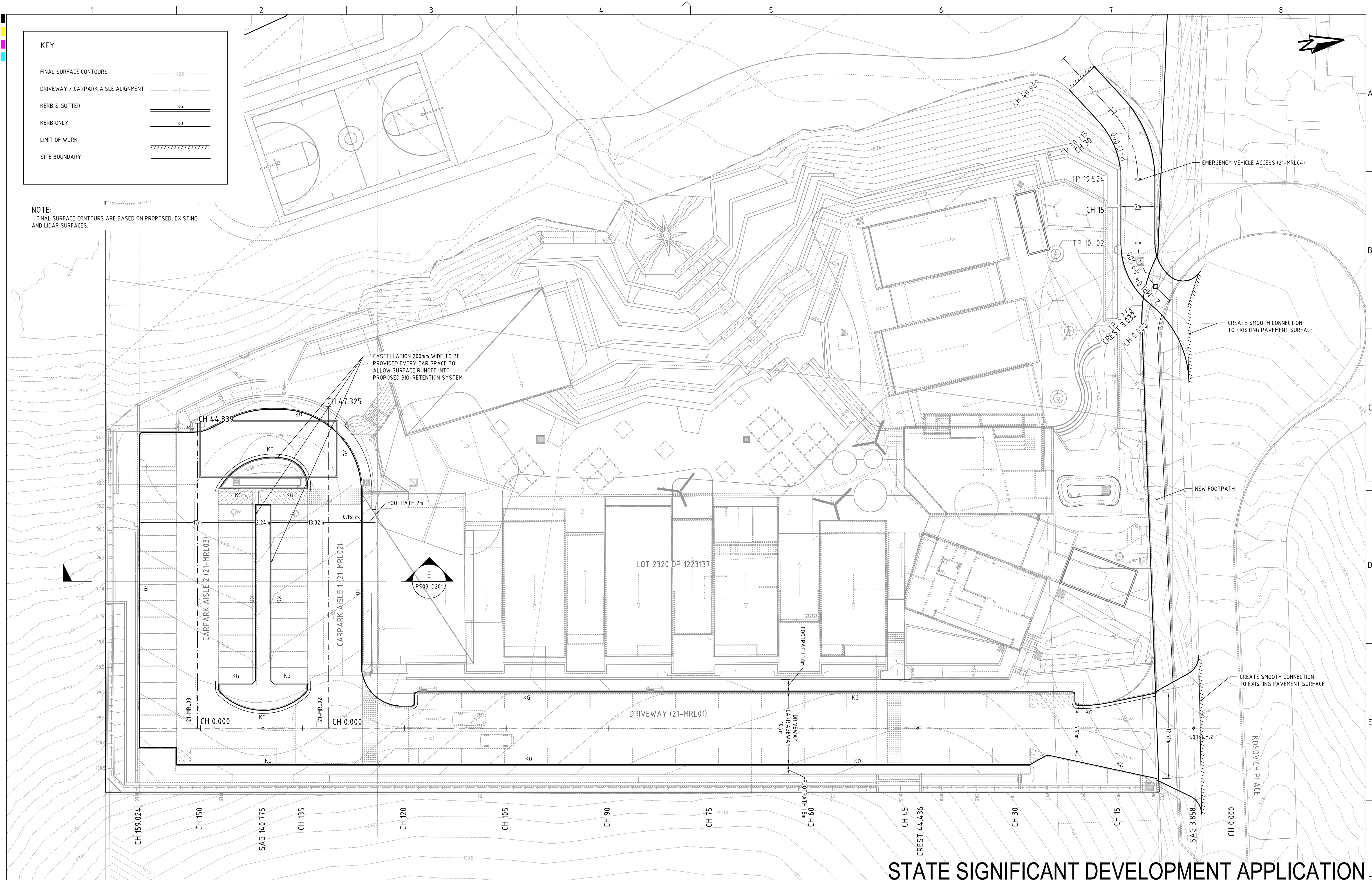
GRID  
MGA  
DATUM  
mAHD  
PROJECT MANAGER  
TH  
CLIENT  
ASSYRIAN SCHOOLS LTD  
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ST PETER & PAUL ASSYRIAN PRI. SCHOOL  
CIVIL WORKS MASTER PLAN  
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## STATE SIGNIFICANT DEVELOPMENT APPLICATION

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DRAWING TITLE				
EARTHWORKS CUT-FILL PLAN				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-C500	E

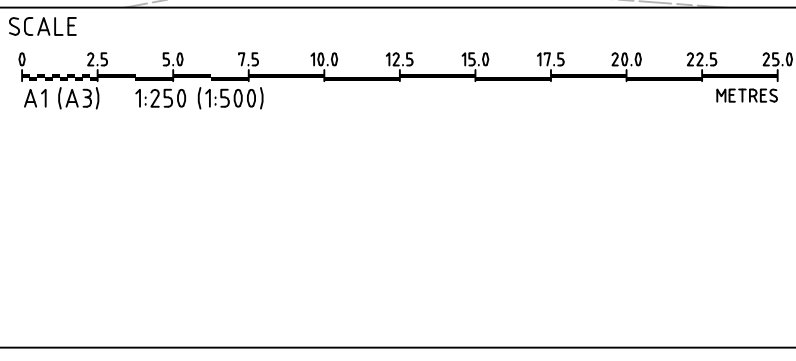




KEY	
FINAL SURFACE CONTOURS	---
DRIVEWAY / CARPARK AISLE ALIGNMENT	---
KERB & GUTTER	KG
KERB ONLY	KO
LIMIT OF WORK	
SITE BOUNDARY	---

NOTE:  
- FINAL SURFACE CONTOURS ARE BASED ON PROPOSED, EXISTING AND LIDAR SURFACES.

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
E	MINOR AMENDMENT	11/09/2018	GM	DG/CG/EZ	DG	TH
D	AMENDED ARCHITECT LAYOUTS FROM EMAIL	05/09/2018	GM/CG	CG/DG/EZ	TH	
C	MINOR AMENDMENT	31/08/2018	GM	EZ/CG	CG/DG	TH
B	MINOR AMENDMENT	25/07/2018	GM	CG/EZ	DG	TH
A	INITIAL RELEASE	06/07/2018	GM	CG/EZ		



GRID MGA DATUM mAHD PROJECT MANAGER TH CLIENT ASSYRIAN SCHOOLS LTD

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LOTS 2320 & 2321, DP 1223167



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Water  
Geotechnical  
Civil

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DRAWING TITLE				
ROADWORKS PLAN				
PROJECT NO. P1705798	PLANSET NO. PS03	RELEASE NO. R05	DRAWING NO. PS03-D100	REVISION E

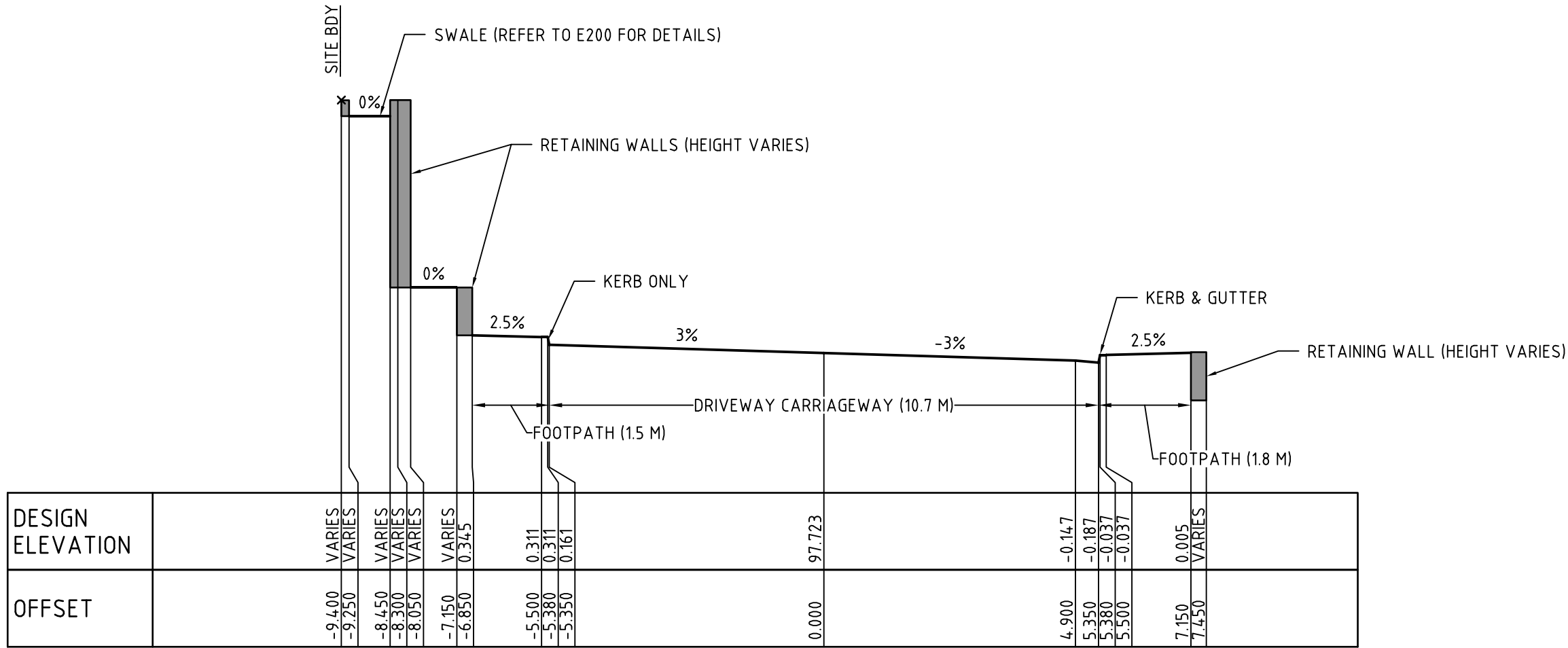
# STATE SIGNIFICANT DEVELOPMENT APPLICATION

PRINTED: 29/02/2019 USER: GARYS1016

A1 / A3 LANDSCAPE (A1LC\_v02.0.01)

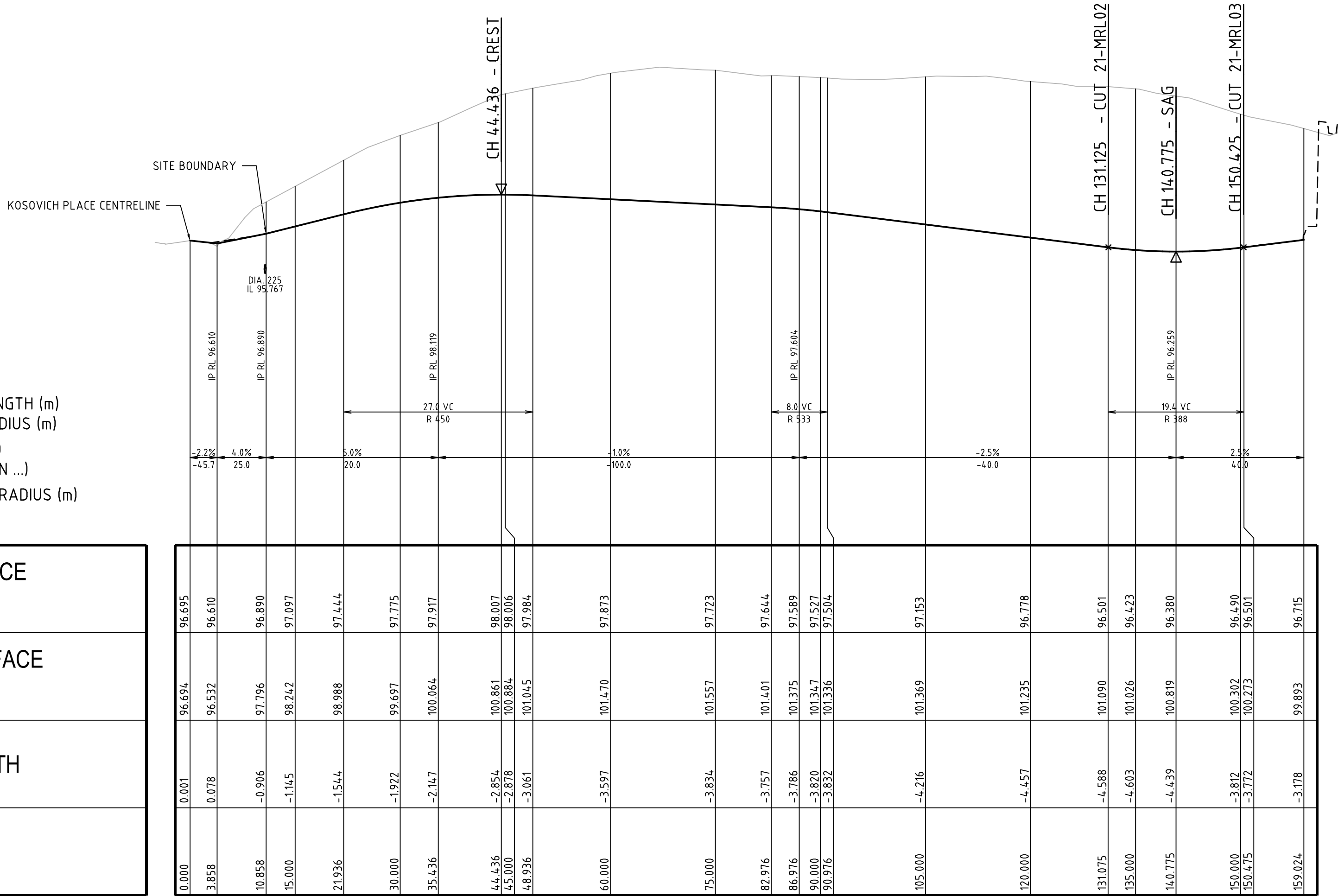
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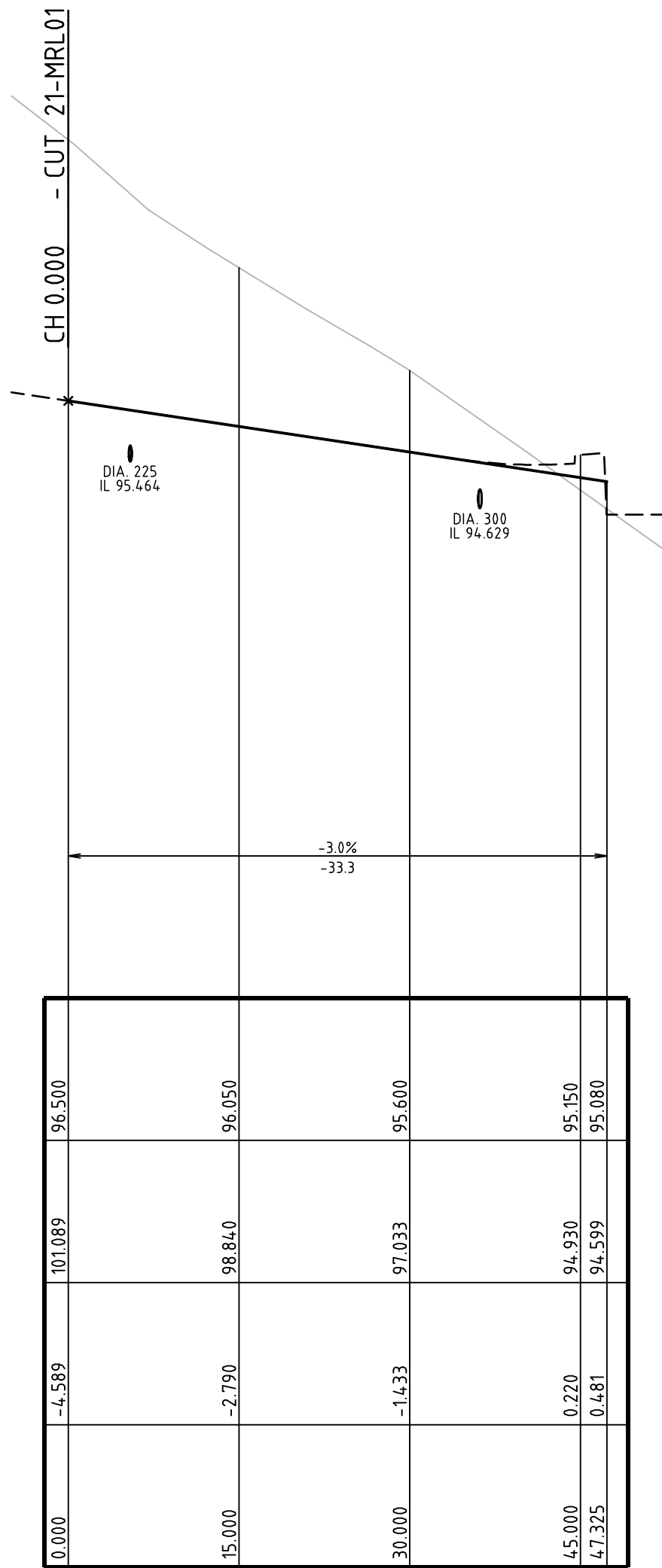
DRIVEWAY ( 21-MRL01 ) TYPICAL CROSS SECTION

SCALE: 1:100



DRIVEWAY ( 21-MRL01 ) LONG. SECTION

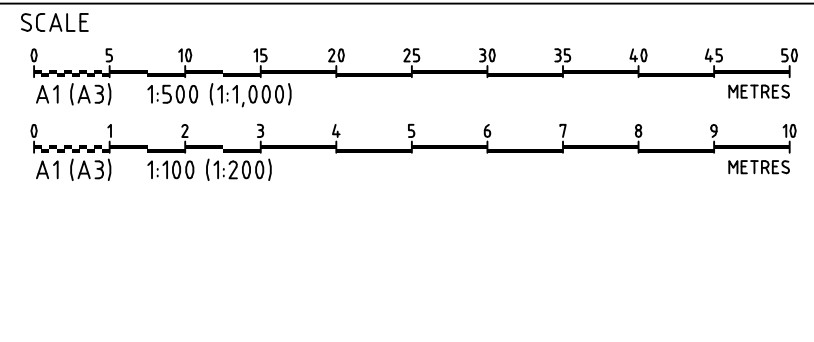
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CARPARK AISLE 1 ( 21-MRL02 ) LONG. SECTION

SCALE: HORIZONTAL - 1:500  
VERTICAL - 1:100

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E	MINOR AMENDMENT	11/09/2018	GM	DG/CG/EZ	DG	TH
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C	MINOR AMENDMENT	31/08/2018	GM	EZ/CG	CG/DG	TH
B	MINOR AMENDMENT	25/07/2018	GM	CG/EZ	DG	TH
A	INITIAL RELEASE	06/07/2018	GM	CG/EZ		



GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	ASSYRIAN SCHOOLS LTD
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LOTS 2320 & 2321, DP 1223167			

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DRAWING TITLE				
DRIVEWAY (21-MRL01) AND CARPARK AISLE (21-MRL02) LONGITUDINAL & TYPICAL SECTIONS				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-D200	E





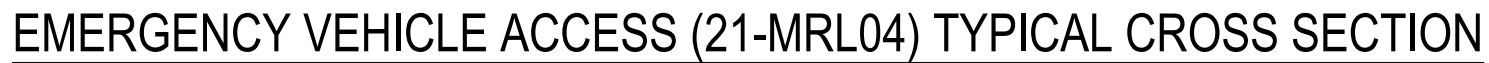
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VERTICAL - 1:100



SCALE: HORIZONTAL - 1:100  
VERTICAL - 1:100



SCALE: HORIZONTAL - 1:500  
VERTICAL - 1:100



SCALE: 1:100

DESIGN SURFACE LEVELS
EXISTING SURFACE LEVELS
CUT / FILL DEPTH
CHAINAGE

DESIGN SURFACE LEVELS
EXISTING SURFACE LEVELS
CUT / FILL DEPTH
CHAINAGE

SCALE

A1 (A3) 1:500 (1:1,000) METRES

A1 (A3) 1:100 (1:200) METRES

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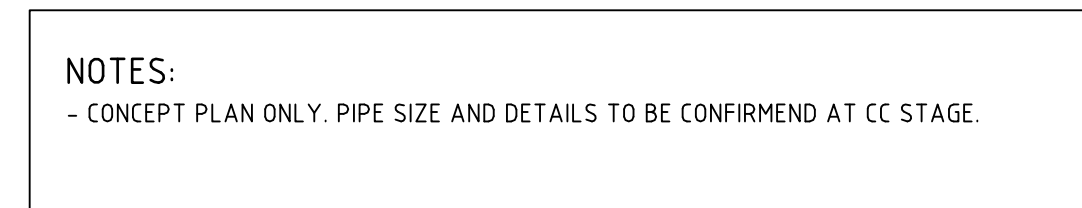
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Civil

## STATE SIGNIFICANT DEVELOPMENT APPLICATION

DRAWING TITLE				
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PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-D201	E

DRAWING ID: P1705798-PS03-R05-D201





SCALE

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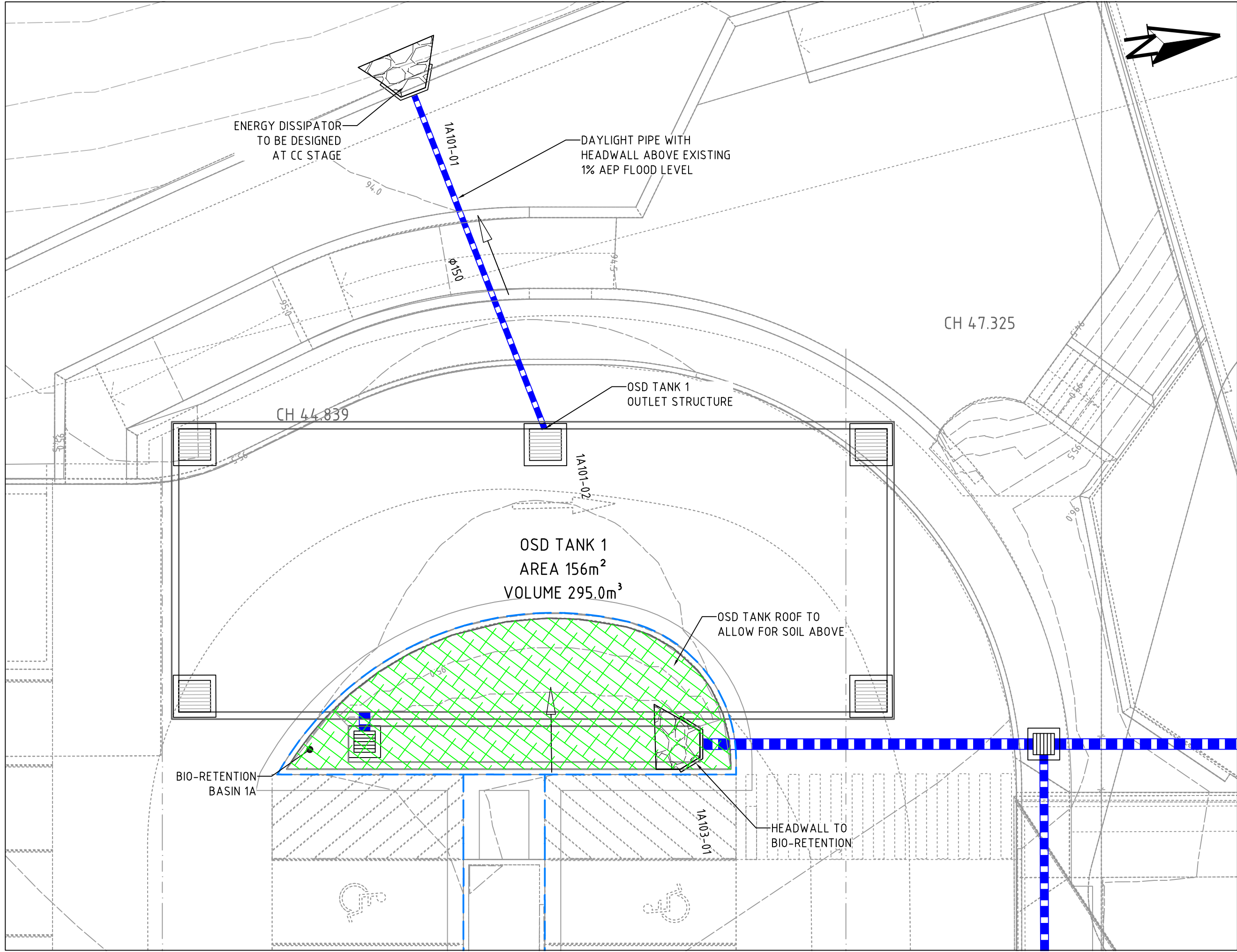
Consulting Engineers

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Water  
Geotechnical  
Civil

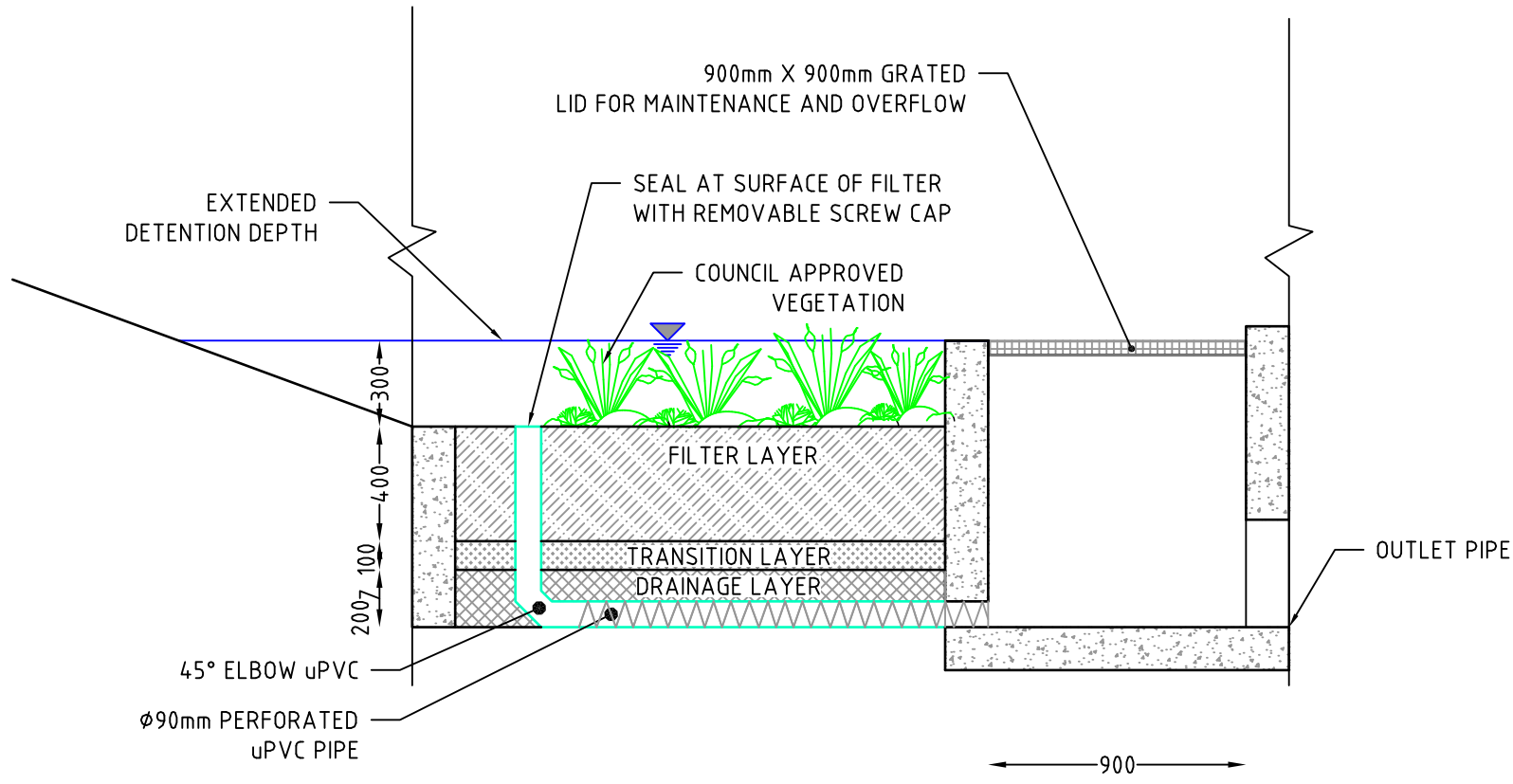
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DRAWING TITLE				
DRAINAGE PLAN				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-E100	E

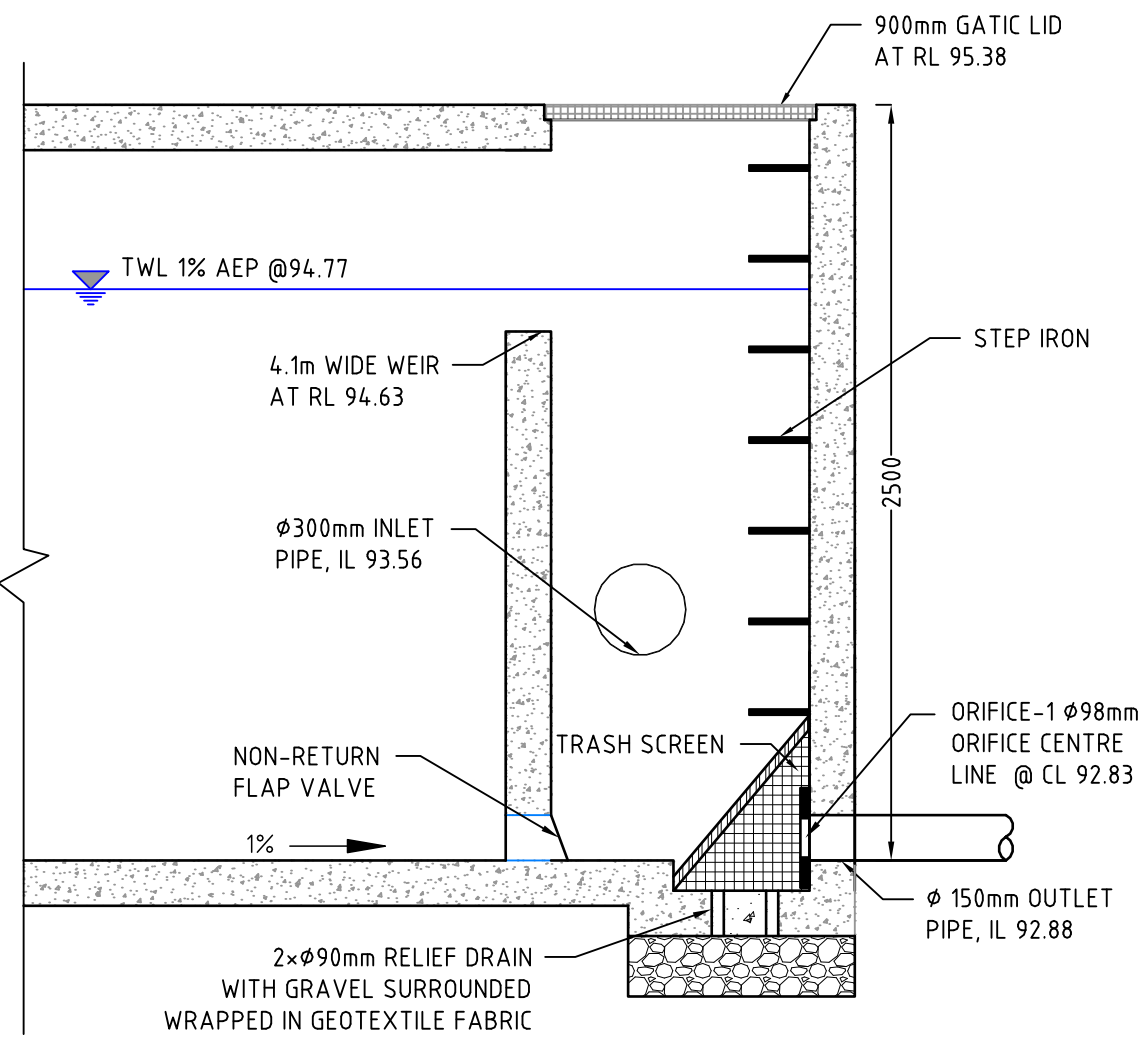




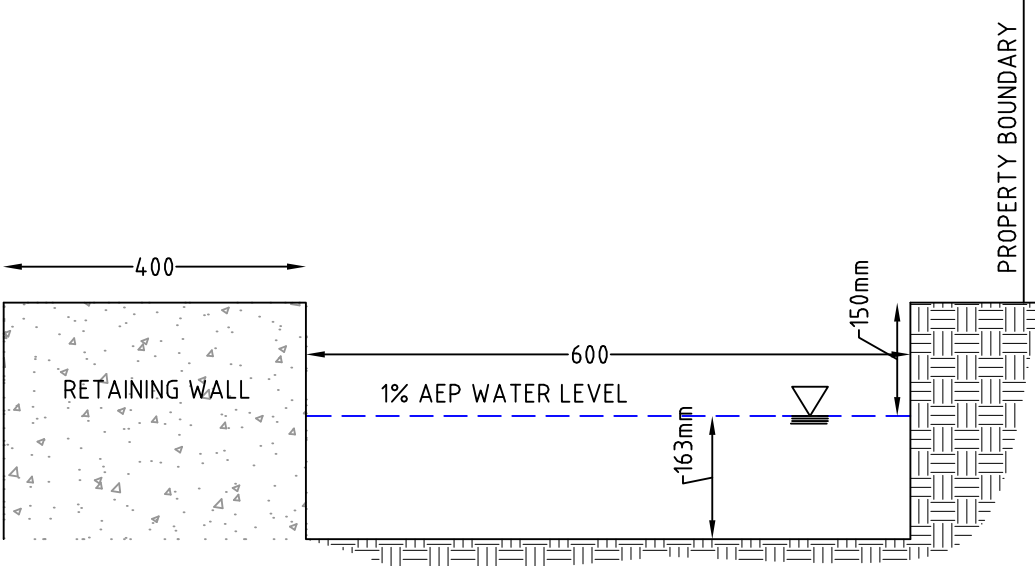
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SCALE: 1:100



TYPICAL SECTION: BIORETENTION  
SCALE: 1:25



OSD TANK 1 OUTLET STRUCTURE  
SCALE: 1:25

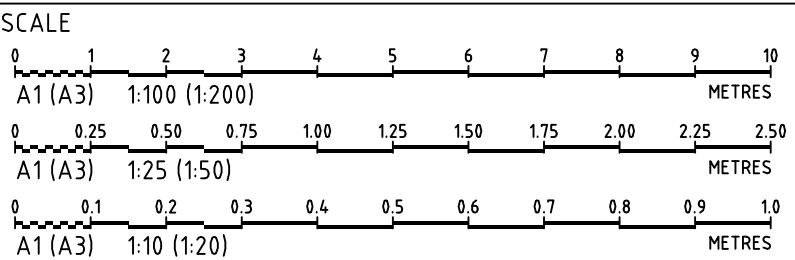


TYPICAL SWALE TYPE 1  
SCALE: 1:10

NOTES:  
- BIO-RETENTION SYSTEM DETAILS TO BE PROVIDED AT CC STAGE AND SHALL BE DESIGNED AS PER FAWB (2009) GUIDELINES.

# STATE SIGNIFICANT DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
D	MINOR AMENDMENT	11/09/2018	GM	DG/CG/EZ	DG	TH
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B	MINOR AMENDMENT	31/08/2018	GM	EZ/CG	CG/DG	TH
A	MINOR AMENDMENT	25/07/2018	GM	CG/EZ	DG	TH



GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH

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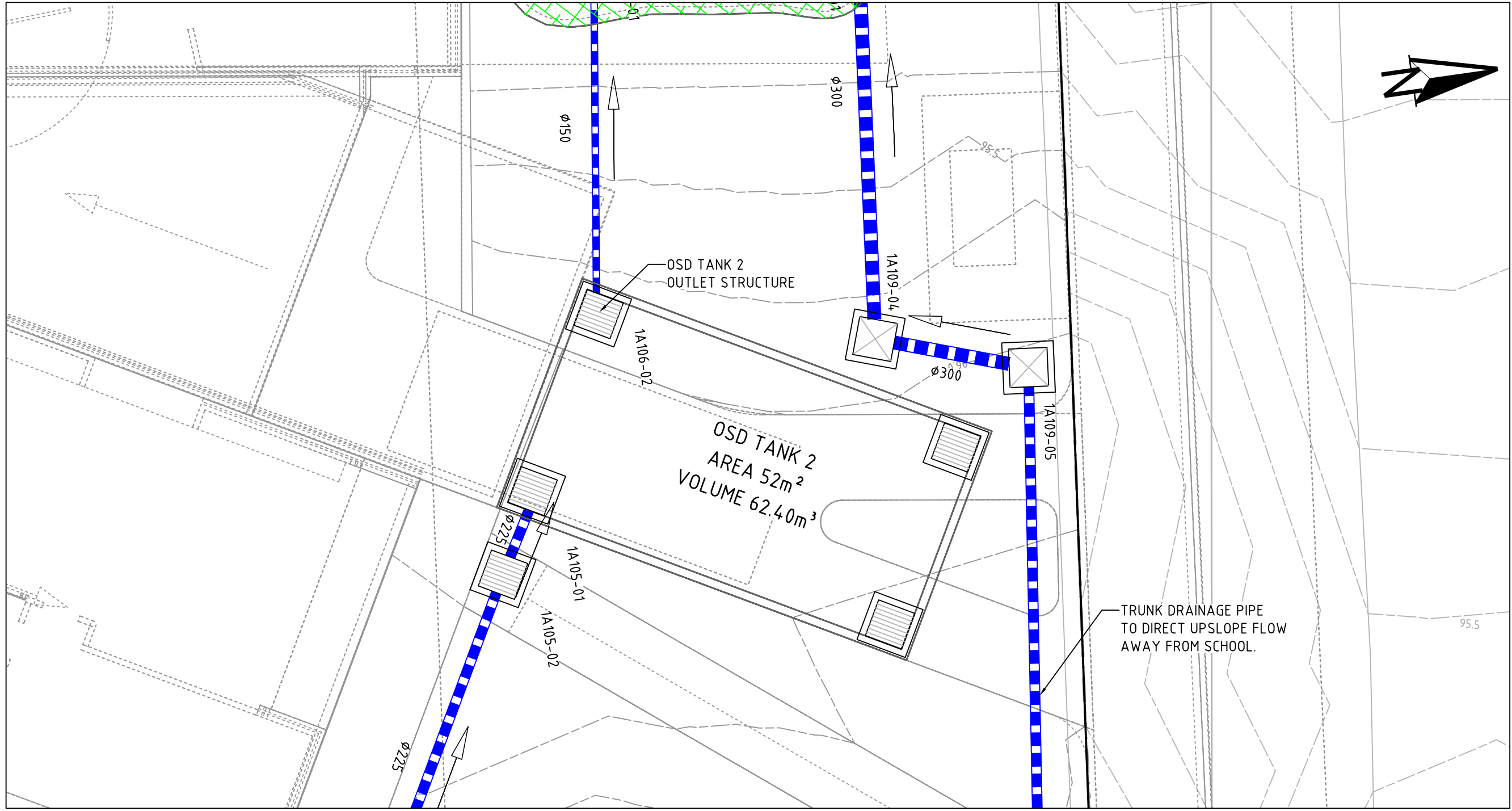
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DRAINAGE DETAILS (SHEET 1)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-E200	D

DRAWING ID: P1705798-PS03-R05-E200

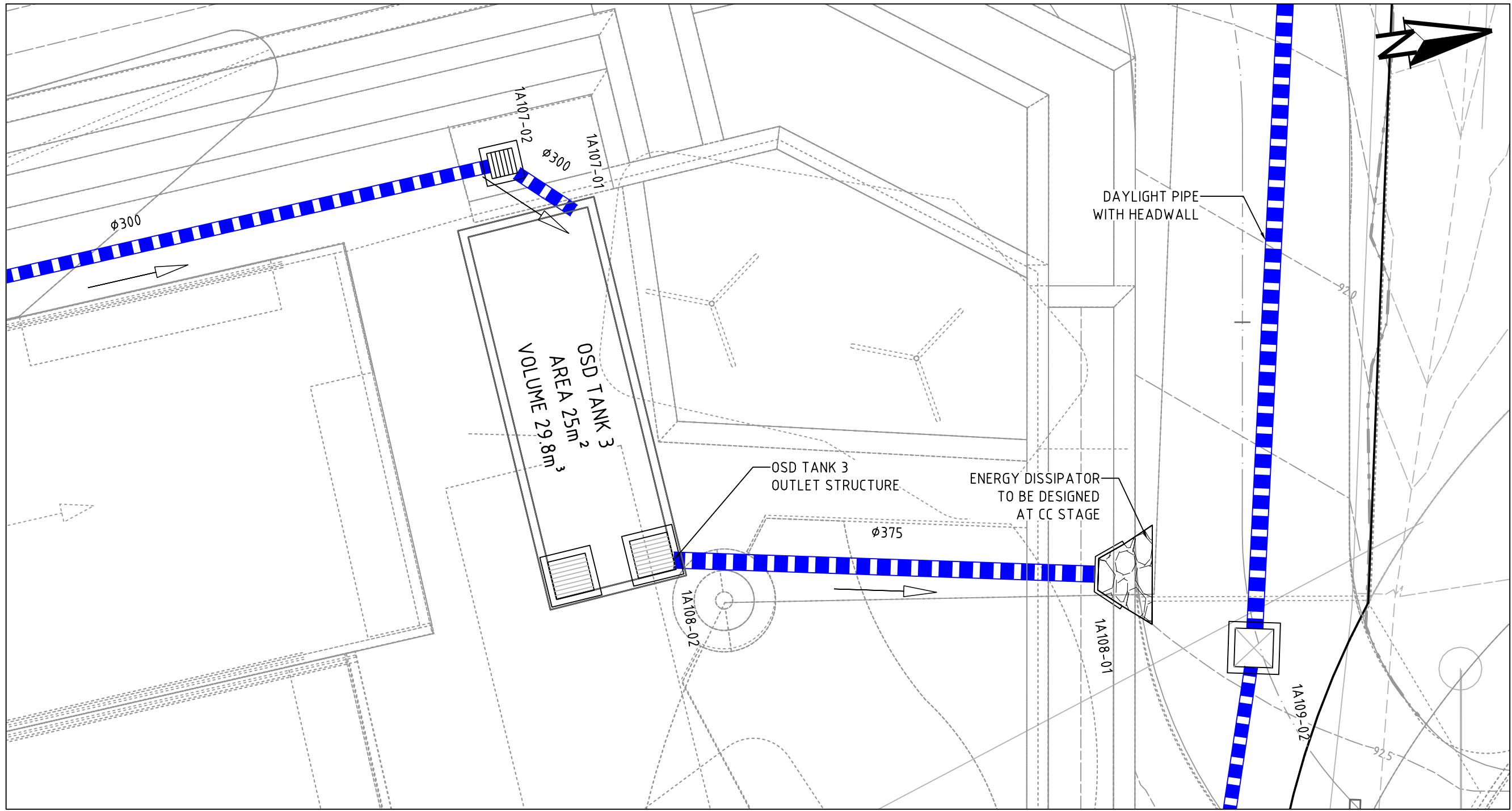
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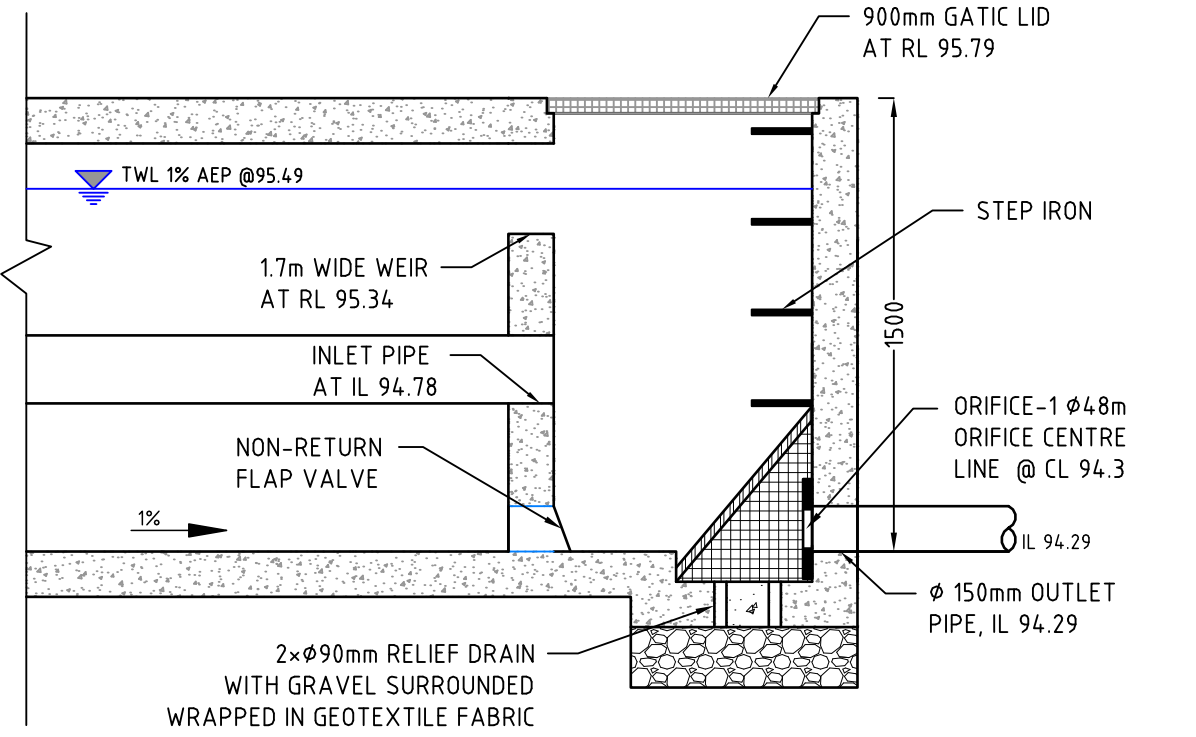
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SCALE 1:100



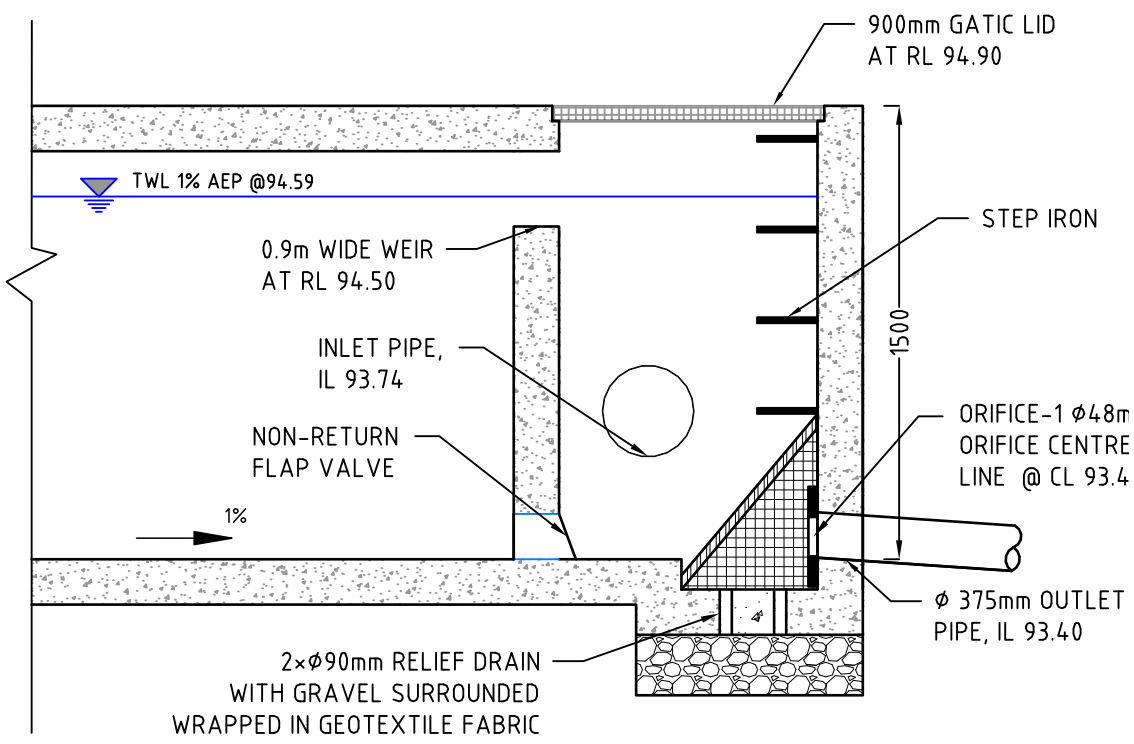
OSD TANK 3 PLAN

SCALE 1:100



OSD TANK 2 OUTLET STRUCTURE

SCALE: 1:25



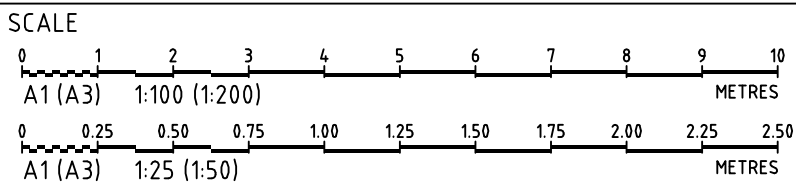
OSD TANK 3 OUTLET STRUCTURE

SCALE: 1:25

NOTES:  
- BIO-RETENTION SYSTEM DETAILS TO BE PROVIDED AT CC STAGE AND SHALL BE DESIGNED AS PER FAWB (2009) GUIDELINES.

# STATE SIGNIFICANT DEVELOPMENT APPLICATION

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B	MINOR AMENDMENT	31/08/2018	GM	EZ/CG	CG/DG	TH
A	MINOR AMENDMENT	25/07/2018	GM	CG/EZ	DG	TH



GRID  
MGA

DATUM  
mAHD

PROJECT MANAGER  
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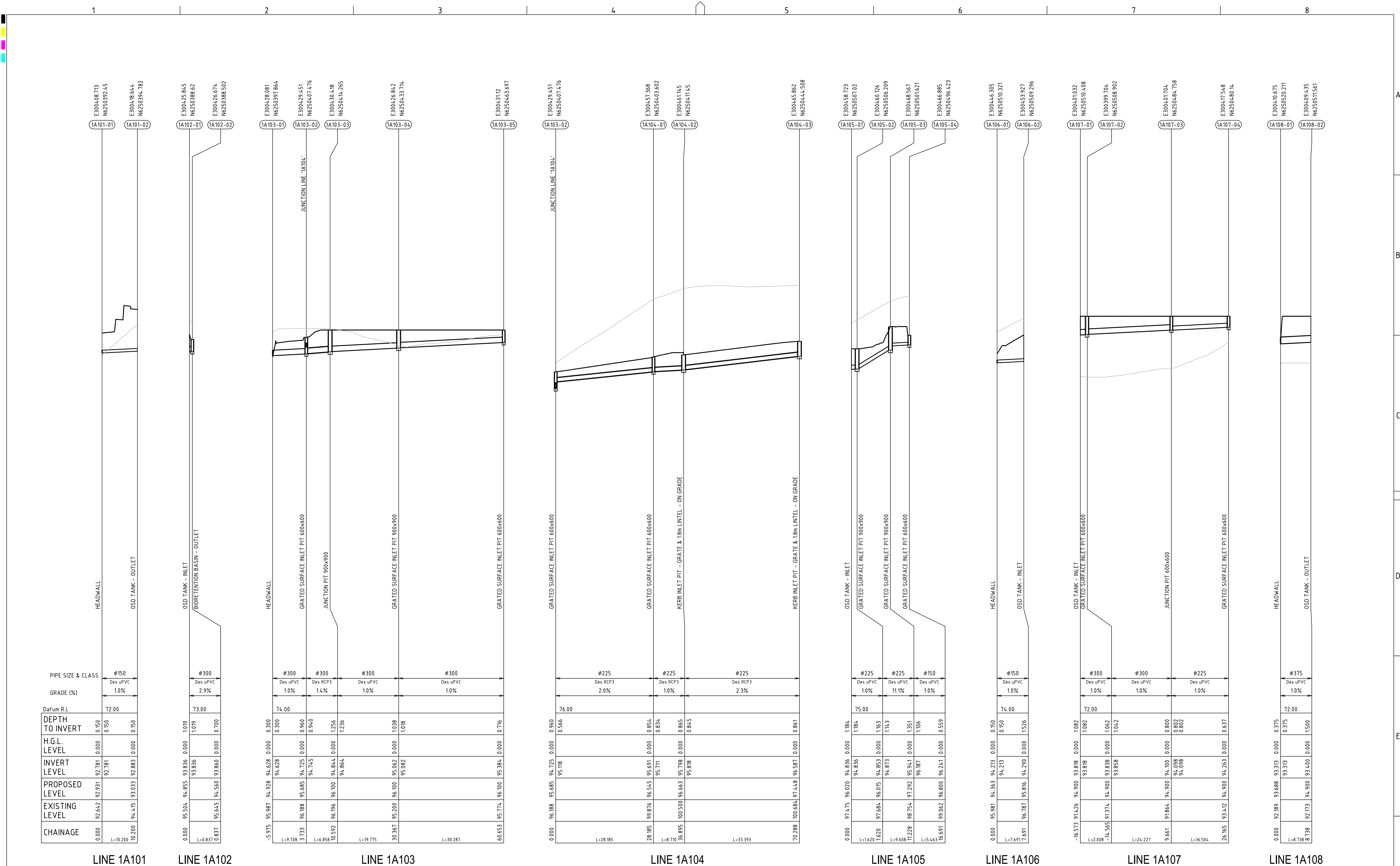
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DRAINAGE DETAILS (SHEET 2)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-E201	D

DRAWING ID: P1705798-PS03-R05-E201





REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
D	MINOR AMENDMENT	11/09/2018	GM	DG/CG/EZ	DG	TH
C	AMENDED ARCHITECT LAYOUTS FROM EMAIL	05/09/2018	GM	CG/DG/EZ	TH	
B	MINOR AMENDMENT	31/08/2018	GM	EZ/CG	CG/DG	TH
A	MINOR AMENDMENT	25/07/2018	GM	CG/EZ	DG	TH

SCALE  
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A1 (A3) 1:500 (1:1,000) METRES  
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A1 (A3) 1:100 (1:200) METRES

GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	ASSYRIAN SCHOOLS LTD

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CIVIL WORKS MASTER PLAN  
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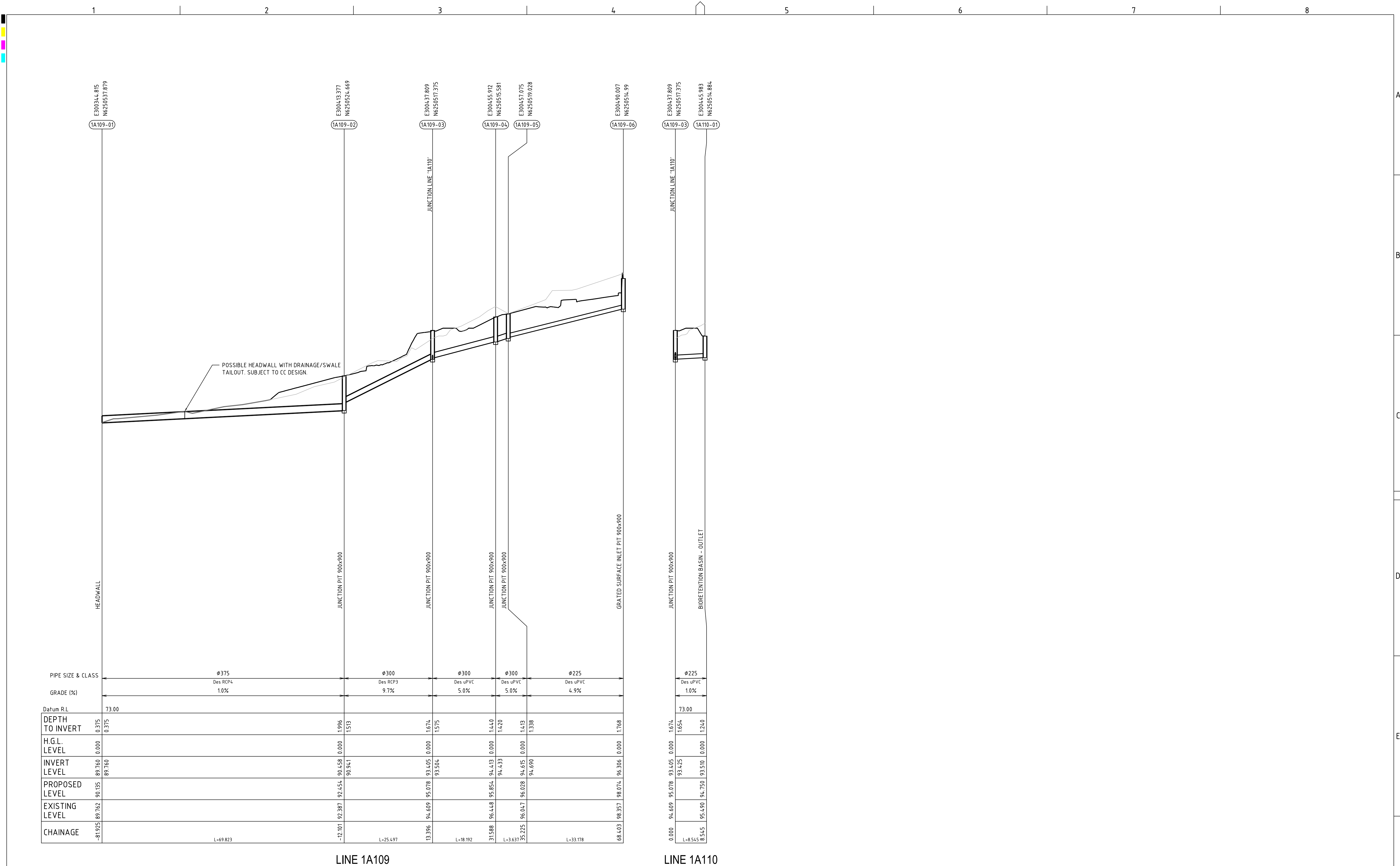
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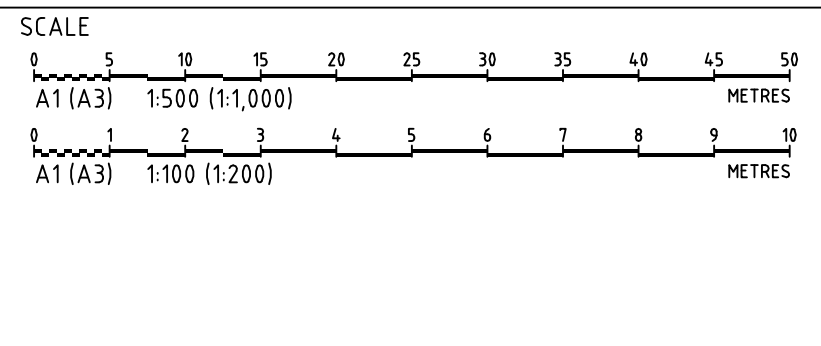
DRAWING TITLE				
DRAINAGE LONGITUDINAL SECTIONS (SHEET 1)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-E300	D

DRAWING ID: P1705798-PS03-R05-E300





REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
D	MINOR AMENDMENT	11/09/2018	GM	DG/CG/EZ	DG	TH
C	AMENDED ARCHITECT LAYOUTS FROM EMAIL 31/08/2018	05/09/2018	GM	CG/DG/EZ	TH	
B	MINOR AMENDMENT	31/08/2018	GM	EZ/CG	CG/DG	TH
A	MINOR AMENDMENT	25/07/2018	GM	CG/EZ	DG	TH



GRID  
MGA

DATUM  
mAHD

PROJECT MANAGER  
TH

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P1705798

PLANSET NO.  
PS03

RELEASE NO.  
R05

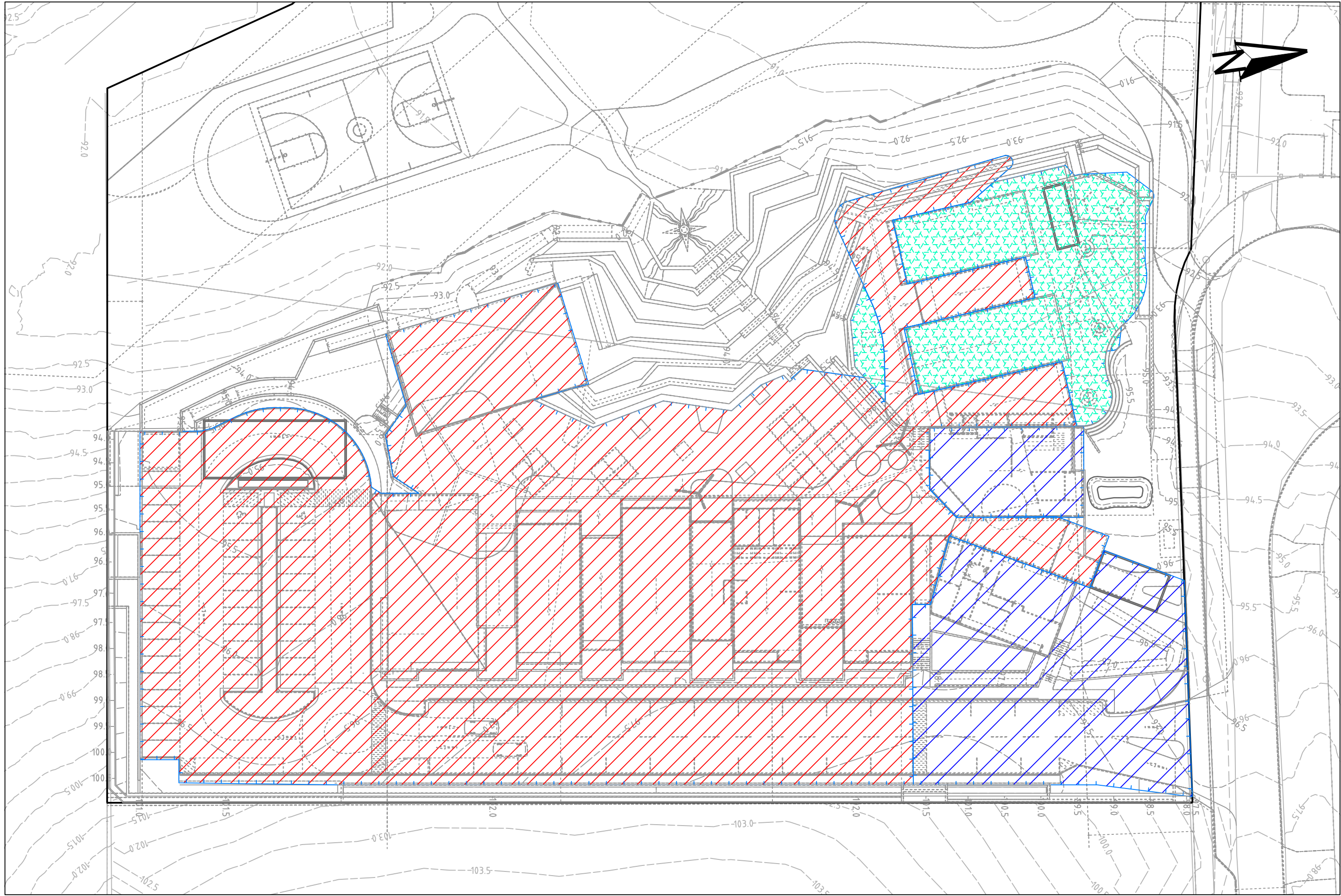
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PS03-E301

REVISION  
D







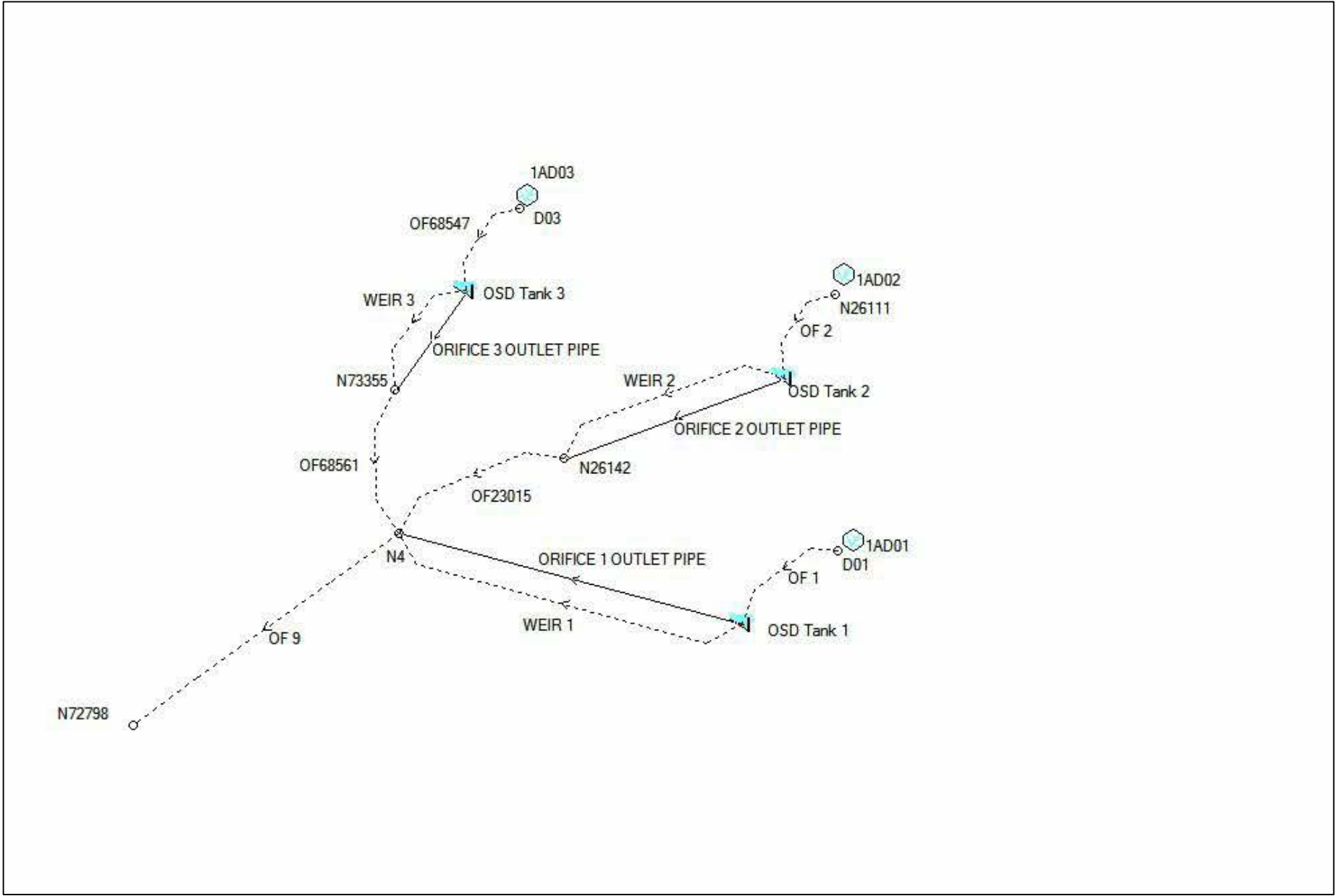


POST-DEVELOPMENT CATCHMENTS PLAN

SCALE 1:500

DRAINS RESULTS			REQUIREMENT			
STORM EVENT (YEAR ARI)	CRITICAL STORM DURATION (HRS)	PEAK FLOW RATES (L/S)	PERMISSIBLE SITE DISCHARGE (L/S/HA)	SITE AREA TO OSD (HA)	PERMISSIBLE SITE DISCHARGE (L/S)	REFERENCE
5	1	72	78	0.937	73.09	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
100	1	73	78	0.937	73.09	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
NOTE: OSD PROVIDED FOR DEVELOPED IMPERVIOUS AREA ONLY						

POST DEVELOPMENT CATCHMENT (P1705798DRN03V04)						
Key	DRAINS CAT.	DESCRIPTION	AREA (HA)	% PAVED	Tc PAVED (min)	Tc GRASS (min)
	1AD01	AREA TO OSD 1	0.697	95	5	12
	1AD02	AREA TO OSD 2	0.151	71	5	9
	1AD03	AREA TO OSD 3	0.088	92	5	5
		SITE AREA	0.937	100	= % OF OVERALL AREA	
		TOTAL IMPERVIOUS AREA	0.848	91	= % OF OVERALL AREA	
		TOTAL PERVIOUS AREA	0.088	9	= % OF OVERALL AREA	



POST-DEVELOPMENT DRAINS MODEL LAYOUT

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
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C	MINOR AMENDMENT	31/08/2018	GM	EZ/CG	CG/DG	TH
B	MINOR AMENDMENT	25/07/2018	GM	CG/EZ	DG	TH
A	INITIAL RELEASE	06/07/2018	GM	CG/EZ		

SCALE  
0 10 20 30 40 50 60 70 80 90 100  
A1 (A3) 1:1,000 (1:2,000) METRES

GRID  
MGA  
DATUM  
mAHD  
PROJECT MANAGER  
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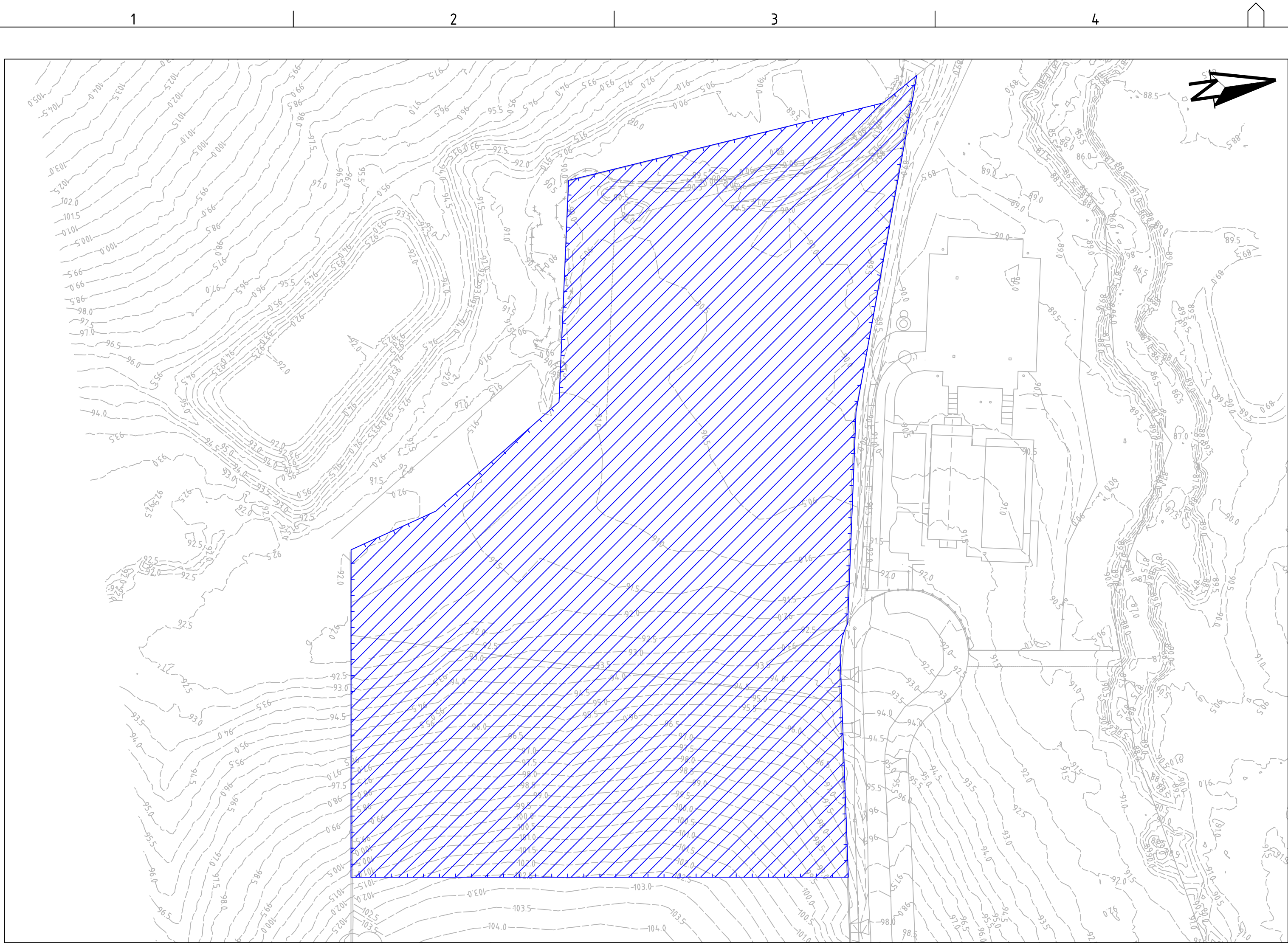
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DRAWING TITLE				
OSD CATCHMENT PLAN, MODEL AND RESULTS				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-E600	E

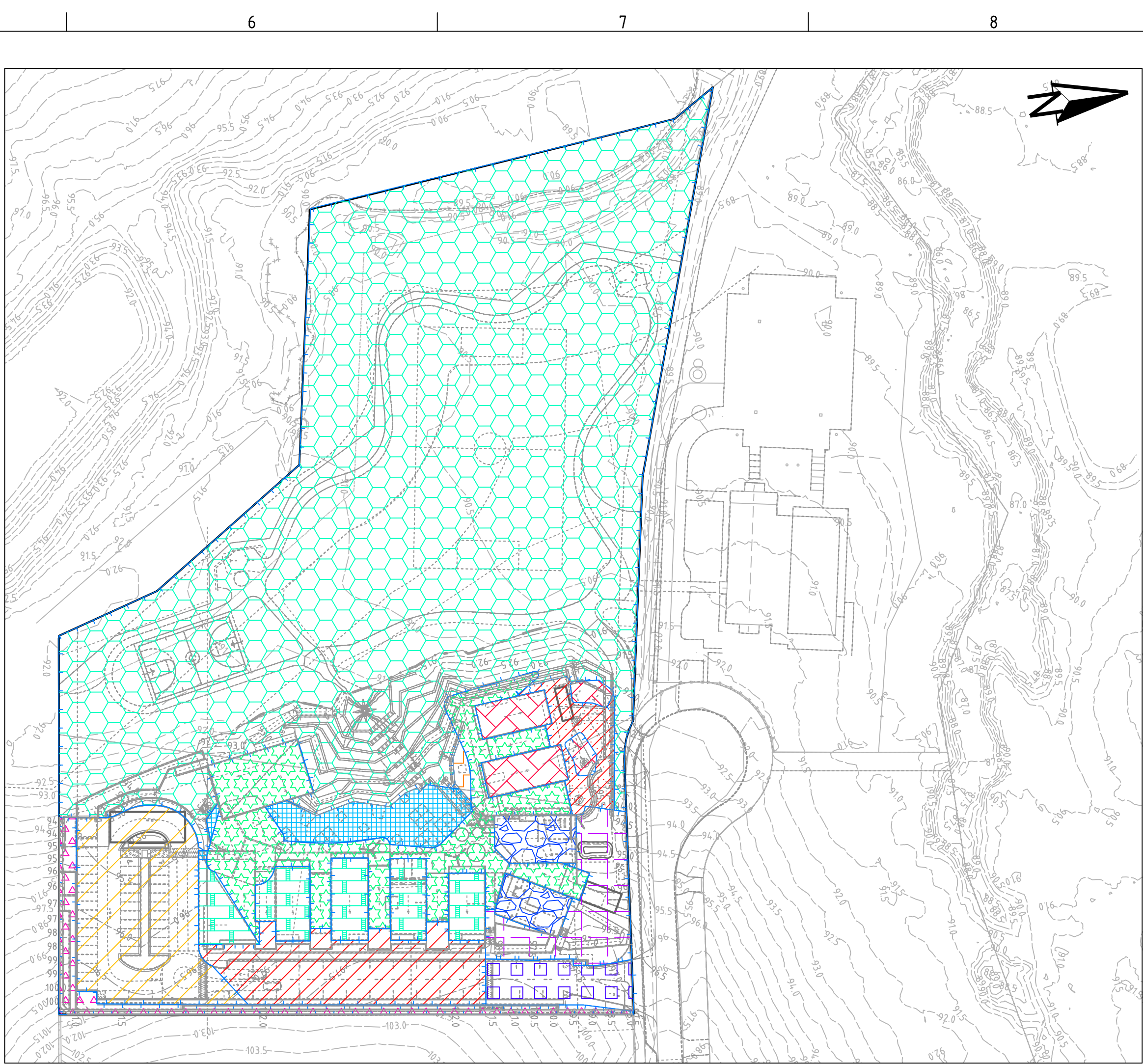
# STATE SIGNIFICANT DEVELOPMENT APPLICATION





PRE-DEVELOPMENT WATER QUALITY CATCHMENTS PLAN

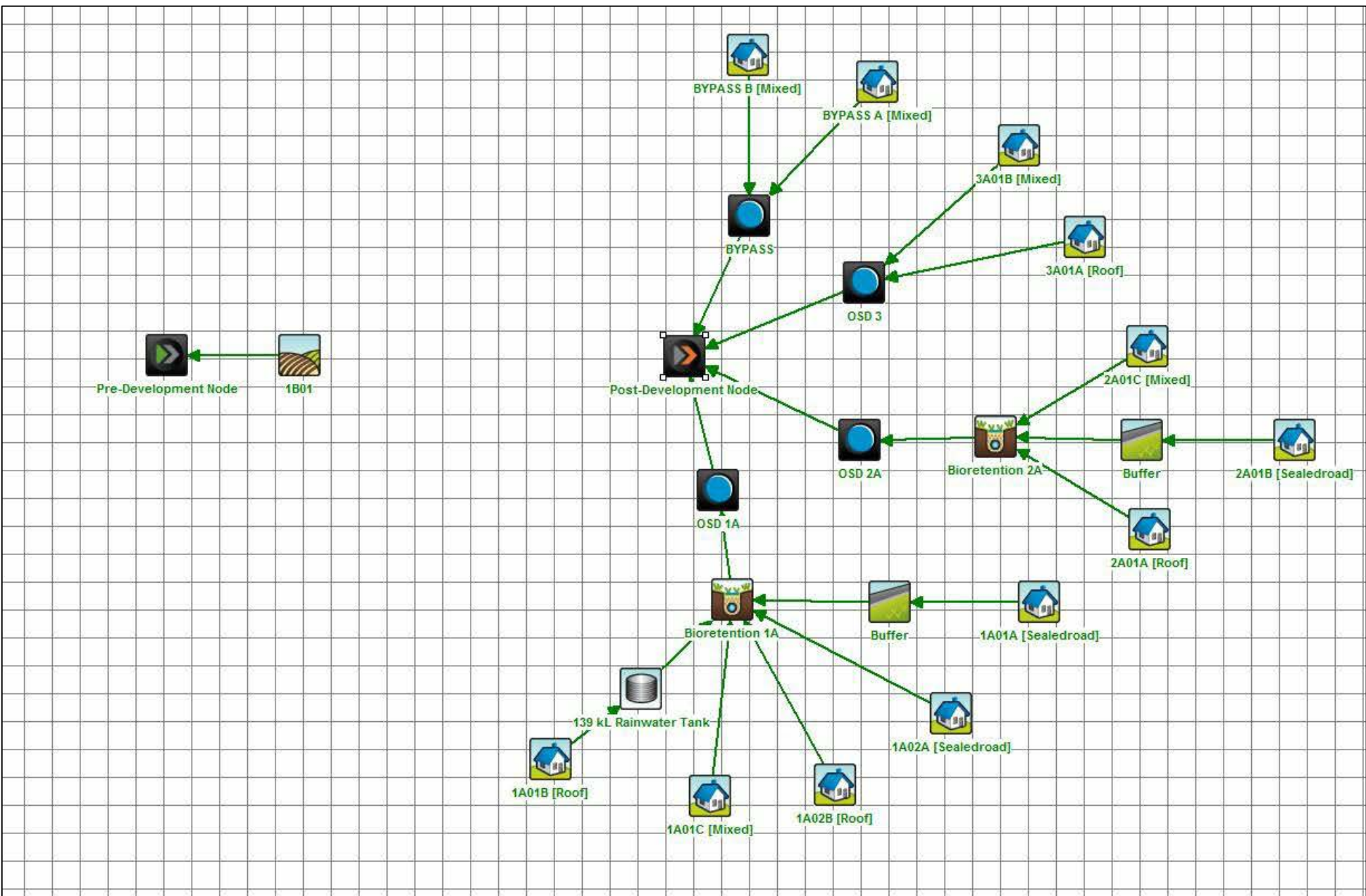
SCALE 1:1000



POST-DEVELOPMENT WATER QUALITY CATCHMENTS PLAN

SCALE 1:1000

MUSIC CATCHMENTS (P1705798MUS02V02)					
PRE DEVELOPMENT					
KEY	DESCRIPTION	MUSIC NODE ID	AREA (ha)	IMPERVIOUS %	MUSIC NODE REFERENCE
	AGRICULTURAL	1B01	2.936	13	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
TOTAL SITE				2.936	= 100 % OF OVERALL AREA
TOTAL - IMPERVIOUS				0.381	= 13 % OF OVERALL AREA
TOTAL - PERVIOUS				2.555	= 87 % OF OVERALL AREA
NOTES:					
1. AGRICULTURAL NODE IS USED TO MODEL THE PRE-DEVELOPMENT CONDITION IN ACCORDANCE WITH GSLLS NSW MUSIC MODELLING GUIDELINES 2015.					



MUSIC MODEL LAYOUT

MUSIC CATCHMENTS (P1705798MUS02V02)					
POST DEVELOPMENT					
KEY	DESCRIPTION	MUSIC NODE ID	AREA (ha)	IMPERVIOUS %	MUSIC NODE REFERENCE
	ROAD TO BIO 1A	1A01A	0.132	76	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
	ROAD TO BIO 1A	1A02A	0.177	92	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
	ROOF TO RWT	1A01B	0.22	100	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
	GROUND BYPASSING RWT	1A02B	0.108	100	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
	GROUND TO BIO 1C	1A01C	0.06	100	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
	ROOF TO BIO 2A	2A01A	0.049	100	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
	ROAD TO BIO 2A	2A01B	0.048	100	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
	GROUND TO BIO 2A	2A01C	0.082	10	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
	ROOF BYPASSING TREATMENT	3A01A	0.052	100	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
	GROUND TO BIO 3A	3A01B	0.047	100	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
	GROUND BYPASSING	BYPASS A	0.065	0	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
	GROUND BYPASSING	BYPASS B	1.895	3	FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017
TOTAL SITE				2.936	= 100 % OF OVERALL AREA
TOTAL - OVERALL				0.903	= 31 % OF OVERALL AREA
TOTAL - IMPERVIOUS				2.032	= 69 % OF OVERALL AREA
NOTES:					
1. RAINWATER FROM 2200M2 ROOF AREAS WILL BE DIRECTED TO A 139 KL RAINWATER TANK FOR REUSE.					
2. NO WATER QUALITY TREATMENT OBJECTIVES REQUIRED BY FAIRFIELD CITY COUNCIL. PRE VS POST APPROACH FOR SITE.					

# STATE SIGNIFICANT DEVELOPMENT APPLICATION

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C	MINOR AMENDMENT	31/08/2018	GM	EZ/CG	CG/DG	TH
B	MINOR AMENDMENT	25/07/2018	GM	CG/EZ	DG	TH
A	INITIAL RELEASE	06/07/2018	GM	CG/EZ		

SCALE  
0 10 20 30 40 50 60 70 80 90 100  
A1 (A3) 1:1,000 (1:2,000) METRES

GRID  
MGA  
DATUM  
mAHD  
PROJECT MANAGER  
TH  
CLIENT  
ASSYRIAN SCHOOLS LTD  
PROJECT NAME/PLANSET TITLE  
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Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE				
WATER QUALITY CATCHMENT PLAN, MODEL AND RESULTS				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-E700	E

DRAWING ID: P1705798-PS03-R05-E700



PAVEMENT DETAILS			
KEY	ROAD TYPE	LAYER	THICKNESS (mm)
	RURAL RESIDENTIAL LOCAL ROAD (CBR= 3.0)	THIN BITUMINOUS SURFACING (AC10)	45
		BASE (DGB20)	150
		SUB-BASE (DGS40)	315
		TOTAL PAVEMENT THICKNESS	510

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
C	MINOR AMENDMENT	11/09/2018	GM	DG/CG/EZ	DG	TH
B	AMENDED ARCHITECT LAYOUTS FROM EMAIL 31/08/2018	05/09/2018	GM	CG/DG/EZ	TH	
A	MINOR AMENDMENT	31/08/2018	GM	EZ/CG	CG/DG	TH

SCALE  
0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0  
A1 (A3) 1:250 (1:500) METRES

GRID	DATUM	PROJECT MANAGER	CLIENT
TH			
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ASSYRIAN SCHOOLS LTD	
PROJECT NAME/PLANSET TITLE	
ST PETER & PAUL ASSYRIAN PRI. SCHOOL	
CIVIL WORKS MASTER PLAN	
17 & 19 KOSOVICH PLACE, CECIL PARK, NSW	
LOTS 2320 & 2321, DP 1223167	



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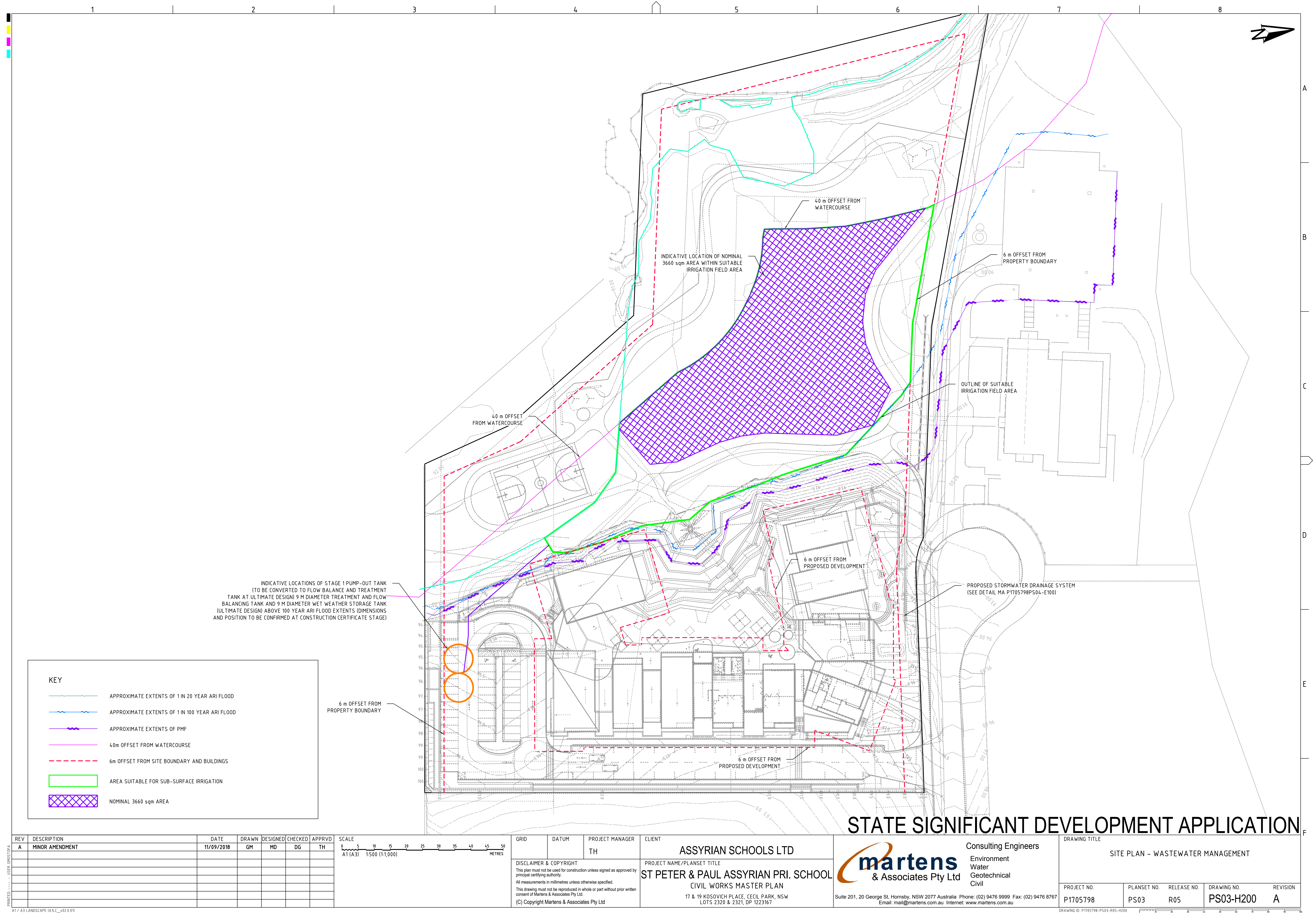
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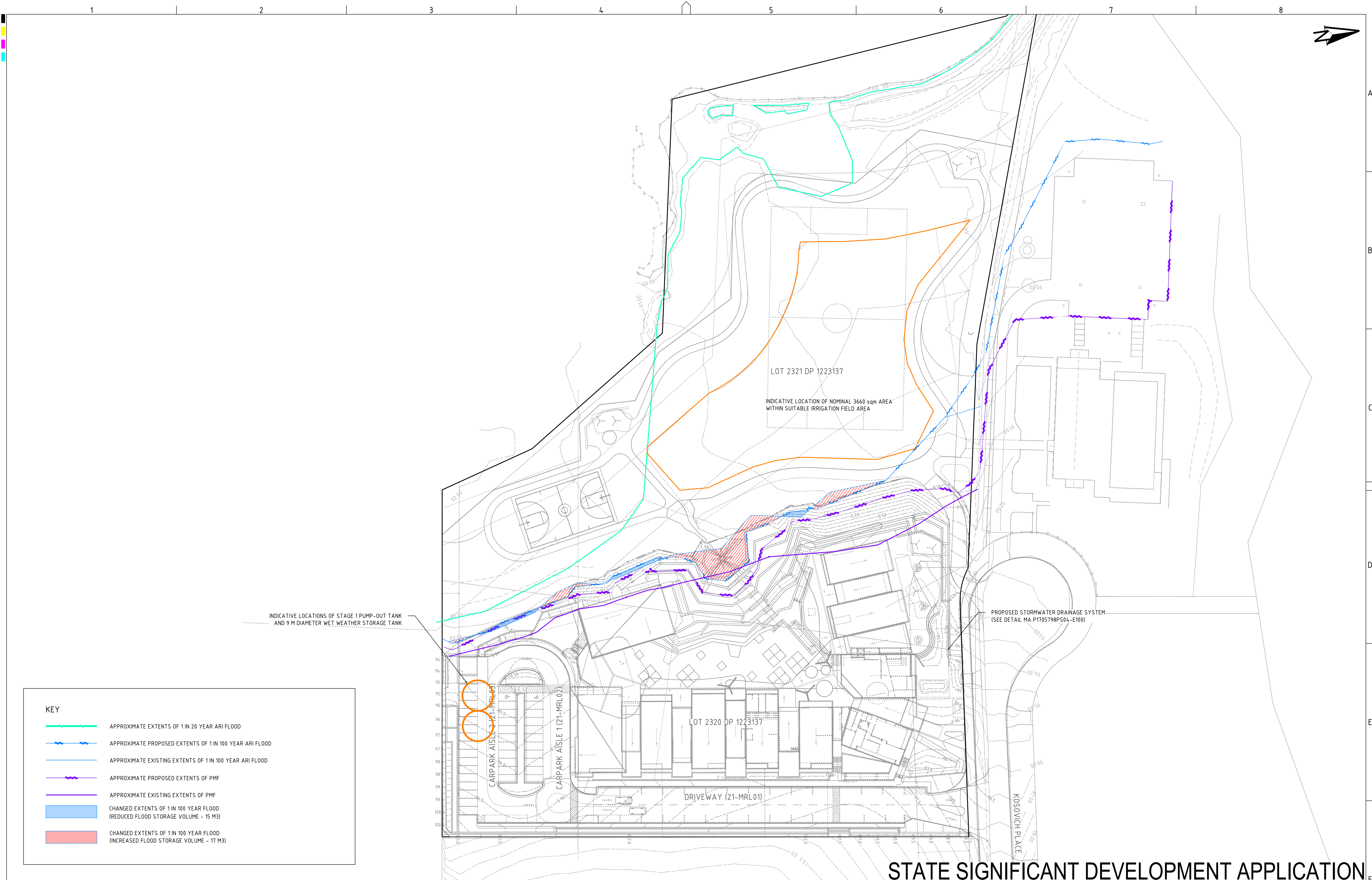
DRAWING TITLE				
CONCEPT PAVEMENT DESIGN				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1705798	PS03	R05	PS03-G400	C



DRAWING ID: P1705798-PS03-R05-G400









REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	 <div>Consulting Engineers Environment Water Geotechnical Civil</div>	DRAWING TITLE  SITE PLAN - 1 IN 20 YEAR ARI, 1 IN 100 YEAR ARI AND PMF FLOOD EXTENTS					
A	MINOR AMENDMENT	11/09/2018	GM	MD	DG	TH	 A1 (A3) 1:500 (1:1,000) METRES			TH	ASSYRIAN SCHOOLS LTD							
											PROJECT NAME/PLANSET TITLE			PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
											ST PETER & PAUL ASSYRIAN PRI. SCHOOL CIVIL WORKS MASTER PLAN			P1705798	PS03	R05	PS03-K100	A
											17 & 19 KOSOVICH PLACE, CECIL PARK, NSW LOTS 2320 & 2321, DP 1223167							
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A1 / A3 LANDSCAPE [A1LC_v02.0.0]													DRAWING ID: P1705798-PS03-R05-K100					