

MIXED-USE DEVELOPMENT

297 BRINGELLY ROAD, LEPPINGTON

STORMWATER CONCEPT DESIGN



DA 1 - BLDGS A & B

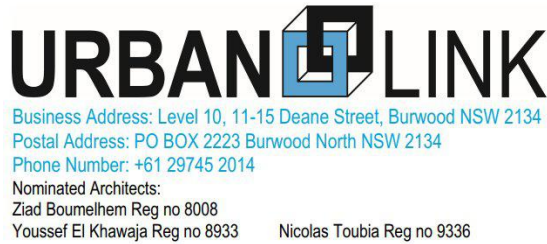
DRAWINGS LIST			
SHEET No.	DWG No.	TITLE	REV
1	SW100	COVER SHEET	F
2	SW200	STORMWATER CONCEPT DESIGN - BASEMENT 2 PLAN - SHEET 1 OF 2	F
3	SW201	STORMWATER CONCEPT DESIGN - BASEMENT 2 PLAN - SHEET 2 OF 2	F
4	SW202	STORMWATER CONCEPT DESIGN - BASEMENT 1 PLAN - SHEET 1 OF 2	F
5	SW203	STORMWATER CONCEPT DESIGN - BASEMENT 1 PLAN - SHEET 2 OF 2	F
6	SW204	STORMWATER CONCEPT DESIGN - SITE PLAN - SHEET 1 OF 2	F
7	SW205	STORMWATER CONCEPT DESIGN - SITE PLAN - SHEET 2 OF 2	F
8	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET 1 - SHEET 1 OF 3	F
9	SW301	STORMWATER CONCEPT DESIGN - DETAILS SHEET 2 - SHEET 2 OF 3	F
10	SW302	STORMWATER CONCEPT DESIGN - DETAILS SHEET 3 - SHEET 3 OF 3	F
11	SW400	EROSION AND SEDIMENT CONTROL - PLAN - SHEET 1 OF 2	F
12	SW401	EROSION AND SEDIMENT CONTROL - PLAN - SHEET 2 OF 2	F
13	SW402	EROSION AND SEDIMENT CONTROL - DETAILS	F
14	SW500	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN	F
15	SW501	STORMWATER CONCEPT DESIGN - OSD CATCHMENT PLAN	F

LOCALITY PLAN
NOT TO SCALE
COPYRIGHT OF SIX MAPS



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ARCHITECT:

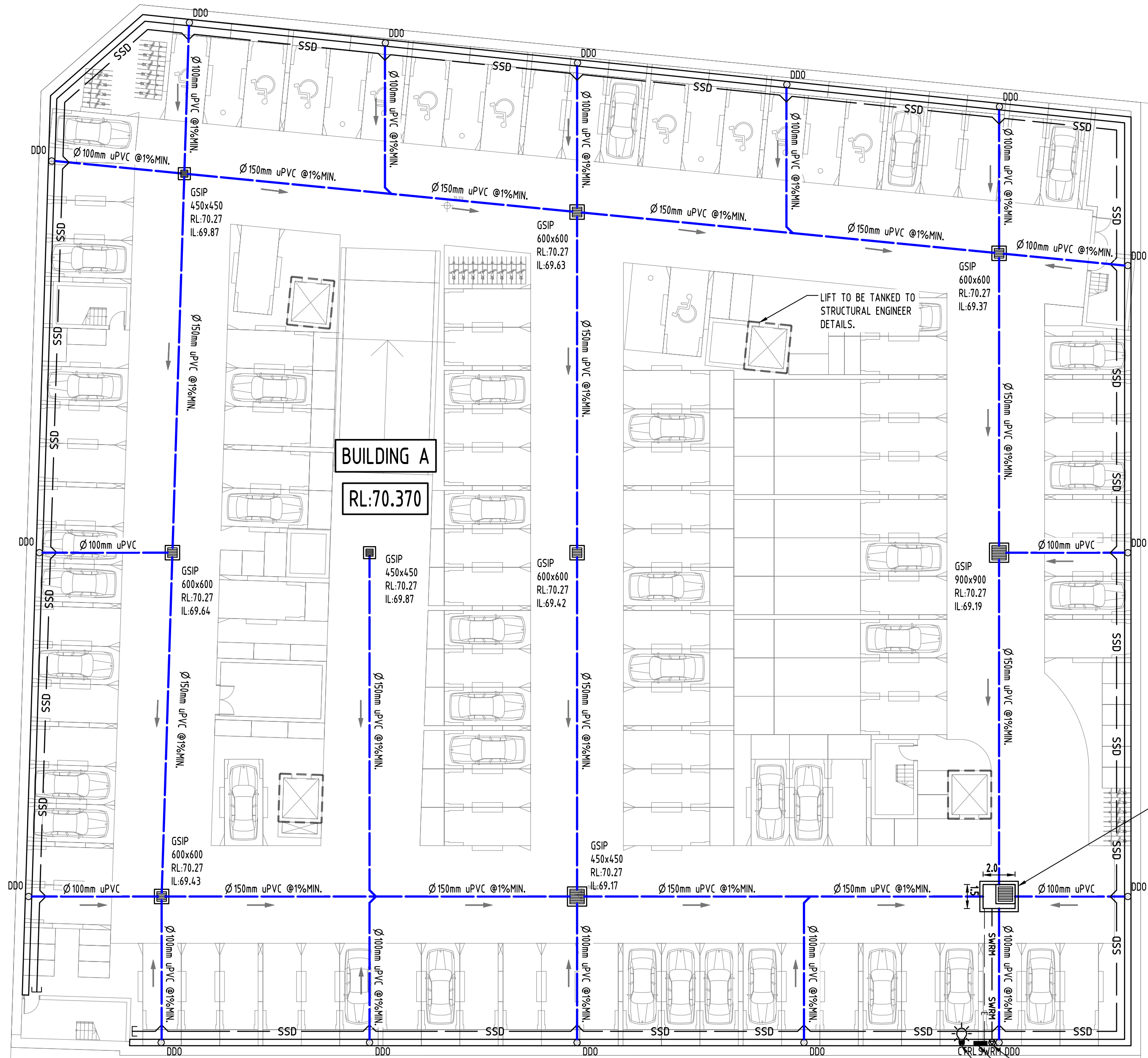


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ANTHONY & GEORGE
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FOR CONTINUATION REFER TO DRAWING SW 201



PUMP OUT PIT:
RL:70.270
TWL:69.970
IL:67.970
HEIGHT:2.0m
AREA:3.0m²
VOLUME REQUIRED:3.0m³
VOLUME PROVIDED:4.0m³

NOTE:
NOMINATED PUMP TO BE ZENIT
DRN300/2/65 AIDT/50 OR EQUIVALENT TO
BE INSTALLED AS PER MANUFACTURAL
SPECIFICATIONS

STORMWATER RISING MAIN.
PUMP OUT PIT CONTROL BOX.
TO MANUFACTURERS SPECIFICATIONS.
INSTALL WARNING FLASH LIGHT TO
PROVIDE INDICATION OF PUMP FAILURE.

				Reference Coordination Drawing						
F	ISSUE TO COUNCIL	MS	02.12.20	2	Discipline	Drawing Title and Number		Date	Rev.	
E	ISSUE TO COUNCIL	MS	16.10.20	2	ARCH					
D	ISSUE TO COUNCIL	JH	11.12.19	2	ARCH					
C	AMENDED AS PER COUNCIL'S COMMENTS	JH	10.07.19	2	STRUCT					
B	AMENDED AS PER COUNCIL'S COMMENTS	JH	19.06.19	2	MECH					
A	DA SUBMISSION	JH	28.02.19	2	ELEC					
P1	PRELIMINARY ISSUE	JH	27.02.19	1	HYD					
Issue	Last revision title	by	Date	Status	Signature					
Issuer internal sequence and revision history										
1-preliminary		2-development application		3-construction certificate		LANDS				
4-tender		5-construction		6-other		CIVIL				
						SURVEY				

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QUALITY CONTROL			
DRAWN	MS	DATE	02.12.20
CHECKED	SH	DATE	02.12.20
DESIGNED	MS	DATE	02.12.20
VERIFIED	SH	DATE	02.12.20
APPROVED	SH	DATE	02.12.20

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Scales

0m 2 4 6 8 10
SCALE 1:200 ON ORIGINAL SIZE

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Nominated Architects
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Youssef El Khawaja Reg no 8053
Nadine Toulas Reg no 8335



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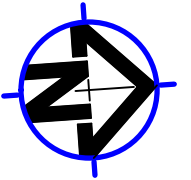
PROJECT
PROPOSED MIXED USE
DEVELOPMENT - DA1
BRINGELLY STREET,
LEPPINGTON

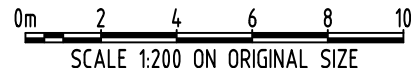
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- A.H.D. 2 OF 15 1:200 @ A1


Drawing Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Title	STORMWATER CONCEPT DESIGN BASEMENT 2 PLAN SHEET 1 OF 2		
Project No	Drawing No	Revision No	
20170269	SW200	F	

Reference Coordination Drawing				Drawing Title and Number			
F	ISSUE TO COUNCIL	MS	02.12.20	2	Discipline		
E	ISSUE TO COUNCIL	MS	16.10.20	2	ARCH		
D	ISSUE TO COUNCIL	JH	11.12.19	2	ARCH		
C	AMENDED AS PER COUNCIL'S COMMENTS	JH	10.07.19	2	STRUCT		
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Issue	Last revision title	by	Date	Status	FIRE		
Issuer internal sequence and revision history							
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4	tender	5	construction				

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	DRAWN	MS	DATE 02.12.20
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Scales			
			

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PROJECT PROPOSED MIXED USE DEVELOPMENT - DA1 BRINGELLY STREET, LEPPINGTON			
Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES			

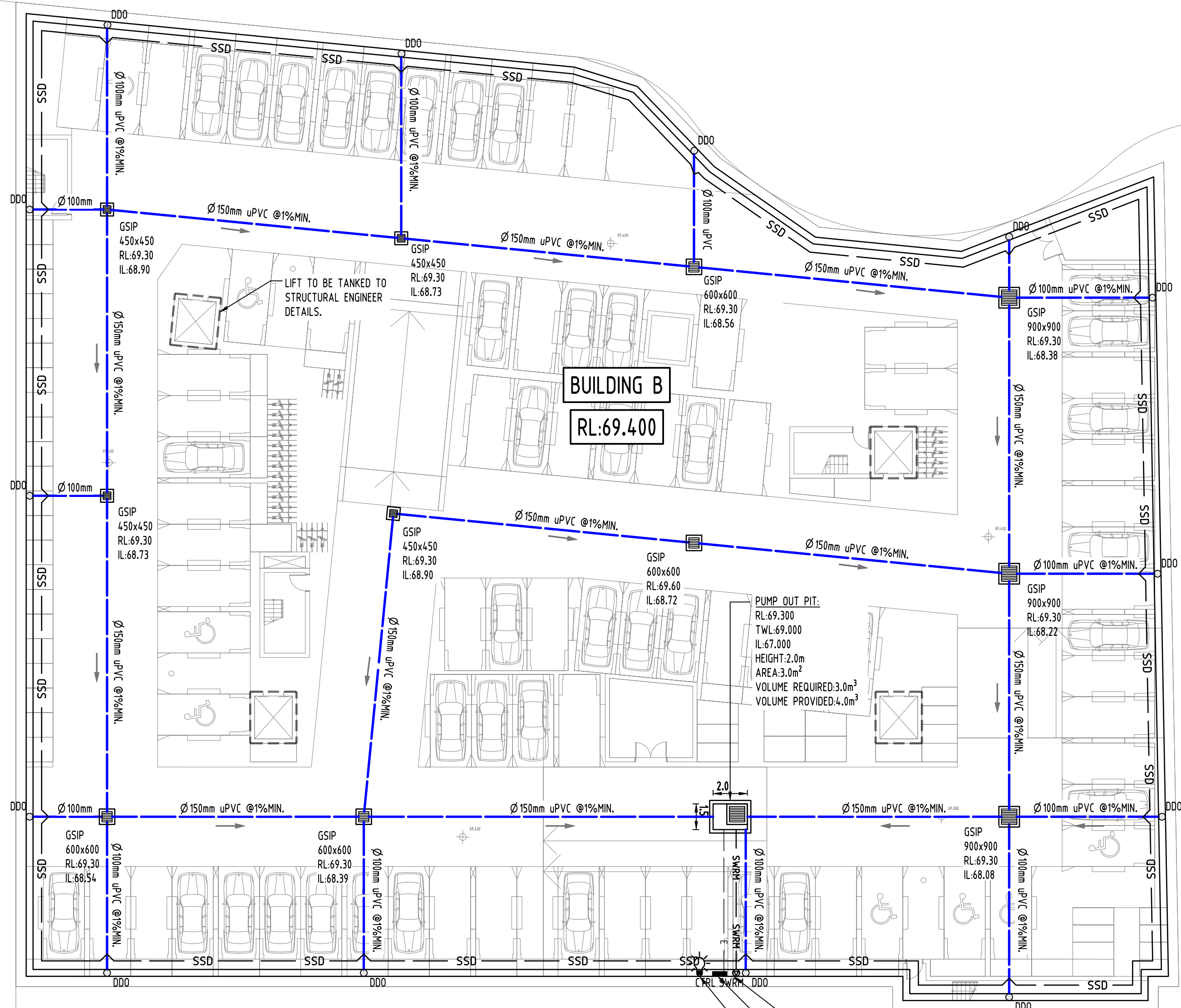
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Project No 20170269			

Drawing No SW201			
Revision No F			

Grid -			
Datum A.H.D.			
Sheet 3 OF 15			
Scale (at original size) 1:200 @ A1			

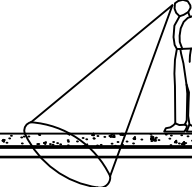
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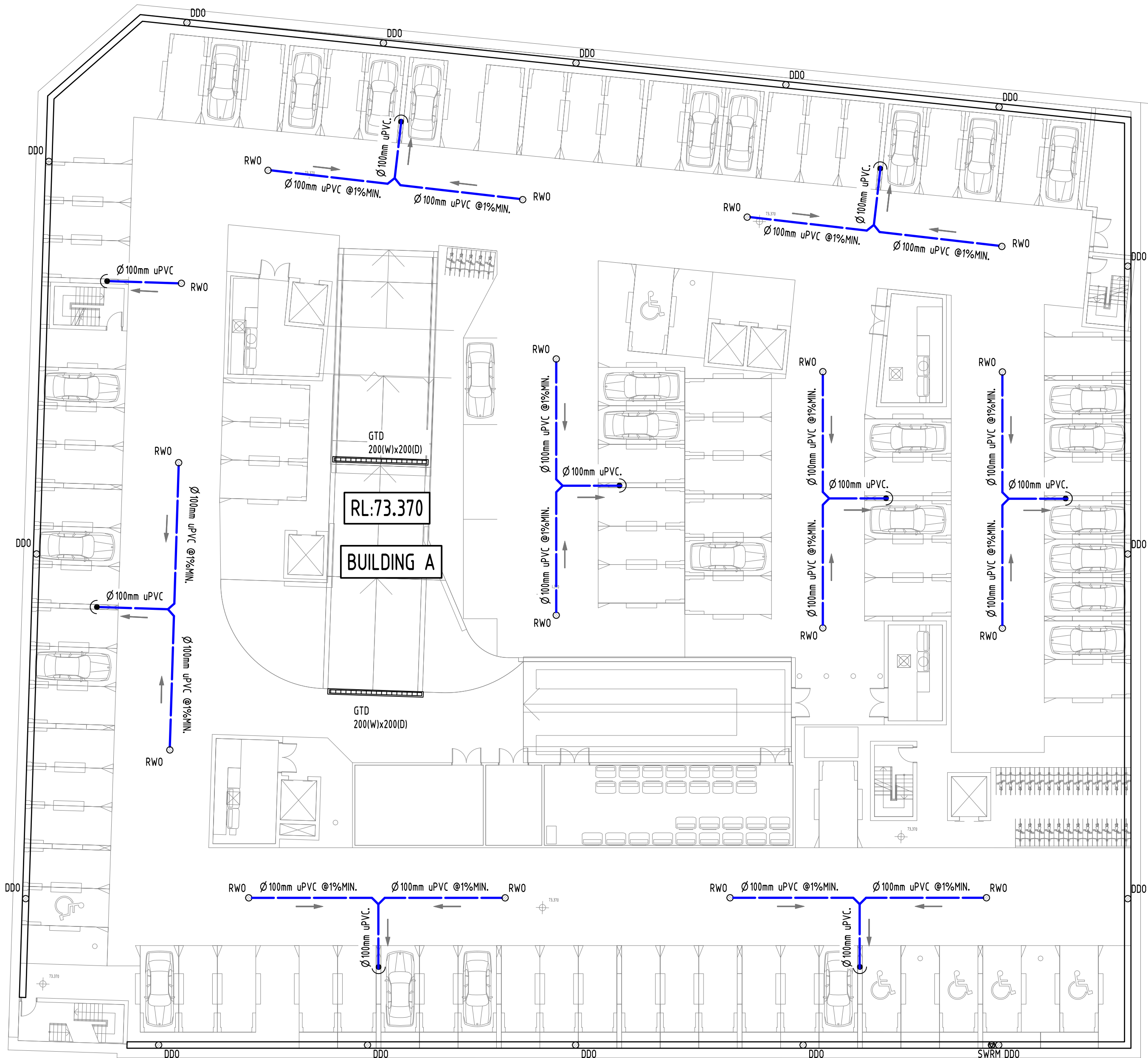
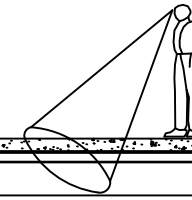


NOTE:
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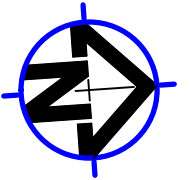


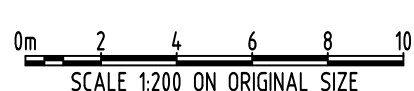
FOR CONTINUATION REFER TO DRAWING SW 203

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Rev.	Issue	Last revision title	by	Date	Status	Rev.
F	ISSUE TO COUNCIL		MS	02.12.20	2	Discipline
E	ISSUE TO COUNCIL		MS	16.10.20	2	ARCH
D	ISSUE TO COUNCIL		JH	11.12.19	2	ARCH
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A	DA SUBMISSION		JH	28.02.19	2	ELEC
P1	PRELIMINARY ISSUE		JH	27.02.19	1	HYD
Issuer internal sequence and revision history				LANDS		
1-preliminary				2-development application		
4-tender				5-construction		
				3-construction certificate		
				6-other		
				CIVIL		
				SURVEY		


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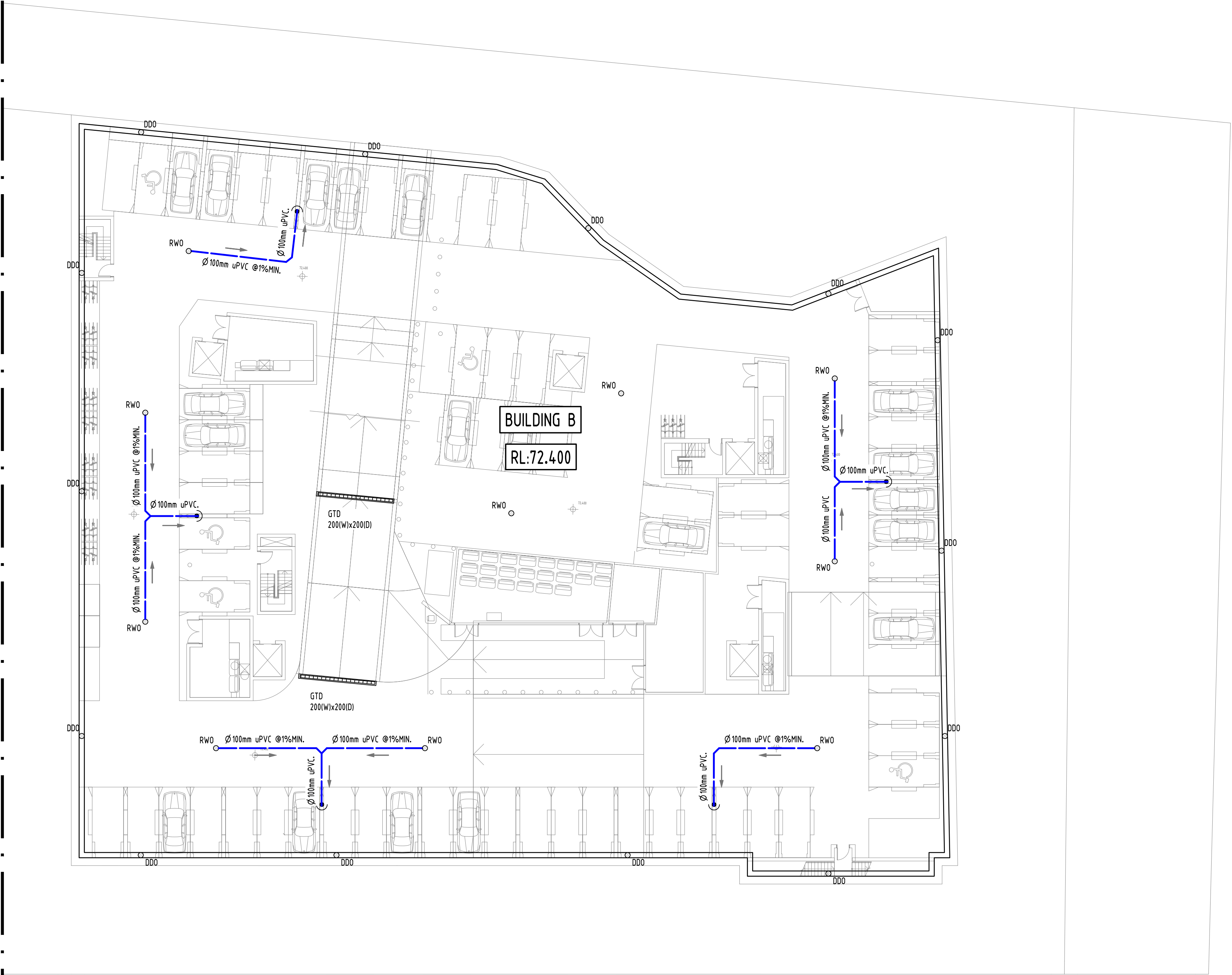
			
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PROJECT			
PROPOSED MIXED USE DEVELOPMENT - DA1			
BRINGELLY STREET, LEPPINGTON			
Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	4 OF 15	1:200 @ A1

Drawing Status			FOR APPROVAL
Drawing Title			NOT TO BE USED FOR CONSTRUCTION PURPOSES
STORMWATER CONCEPT DESIGN			
BASEMENT 1 PLAN			
SHEET 1 OF 2			
Project No	Drawing No	Revision No	
20170269	SW202	F	

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D <td>ISSUE TO COUNCIL<td>JH<td>11.12.19<td>2<td>ARCH<td></td><td></td><td></td><td></td></td></td></td></td></td>	ISSUE TO COUNCIL <td>JH<td>11.12.19<td>2<td>ARCH<td></td><td></td><td></td><td></td></td></td></td></td>	JH <td>11.12.19<td>2<td>ARCH<td></td><td></td><td></td><td></td></td></td></td>	11.12.19 <td>2<td>ARCH<td></td><td></td><td></td><td></td></td></td>	2 <td>ARCH<td></td><td></td><td></td><td></td></td>	ARCH <td></td> <td></td> <td></td> <td></td>					
C <td>AMENDED AS PER COUNCIL'S COMMENTS<td>JH<td>10.07.19<td>2<td>STRUCT<td></td><td></td><td></td><td></td></td></td></td></td></td>	AMENDED AS PER COUNCIL'S COMMENTS <td>JH<td>10.07.19<td>2<td>STRUCT<td></td><td></td><td></td><td></td></td></td></td></td>	JH <td>10.07.19<td>2<td>STRUCT<td></td><td></td><td></td><td></td></td></td></td>	10.07.19 <td>2<td>STRUCT<td></td><td></td><td></td><td></td></td></td>	2 <td>STRUCT<td></td><td></td><td></td><td></td></td>	STRUCT <td></td> <td></td> <td></td> <td></td>					
B <td>AMENDED AS PER COUNCIL'S COMMENTS<td>JH<td>19.06.19<td>2<td>MECH<td></td><td></td><td></td><td></td></td></td></td></td></td>	AMENDED AS PER COUNCIL'S COMMENTS <td>JH<td>19.06.19<td>2<td>MECH<td></td><td></td><td></td><td></td></td></td></td></td>	JH <td>19.06.19<td>2<td>MECH<td></td><td></td><td></td><td></td></td></td></td>	19.06.19 <td>2<td>MECH<td></td><td></td><td></td><td></td></td></td>	2 <td>MECH<td></td><td></td><td></td><td></td></td>	MECH <td></td> <td></td> <td></td> <td></td>					
A <td>DA SUBMISSION<td>JH<td>28.02.19<td>2<td>ELEC<td></td><td></td><td></td><td></td></td></td></td></td></td>	DA SUBMISSION <td>JH<td>28.02.19<td>2<td>ELEC<td></td><td></td><td></td><td></td></td></td></td></td>	JH <td>28.02.19<td>2<td>ELEC<td></td><td></td><td></td><td></td></td></td></td>	28.02.19 <td>2<td>ELEC<td></td><td></td><td></td><td></td></td></td>	2 <td>ELEC<td></td><td></td><td></td><td></td></td>	ELEC <td></td> <td></td> <td></td> <td></td>					
P1 <td>PRELIMINARY ISSUE<td>JH<td>27.02.19<td>1<td>HYD<td></td><td></td><td></td><td></td></td></td></td></td></td>	PRELIMINARY ISSUE <td>JH<td>27.02.19<td>1<td>HYD<td></td><td></td><td></td><td></td></td></td></td></td>	JH <td>27.02.19<td>1<td>HYD<td></td><td></td><td></td><td></td></td></td></td>	27.02.19 <td>1<td>HYD<td></td><td></td><td></td><td></td></td></td>	1 <td>HYD<td></td><td></td><td></td><td></td></td>	HYD <td></td> <td></td> <td></td> <td></td>					
Issue	Last revision title	by	Date	Status	FIRE					
Issuer internal sequence and revision history										
1-preliminary		2-development application		3-construction certificate		LANDS				
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QUALITY CONTROL			
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0m 2 4 6 8 10
SCALE 1:200 ON ORIGINAL SIZE

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Nicola Youla Reg no 8336

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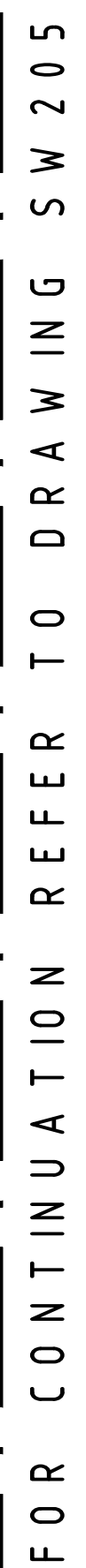
PROJECT
PROPOSED MIXED USE DEVELOPMENT - DA1
BRINGLEY STREET,
LEPPINGTON

Grid Datum Sheet Scale (at original size)
- A.H.D. 5 OF 15 1:200 @ A1

Drawing Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES

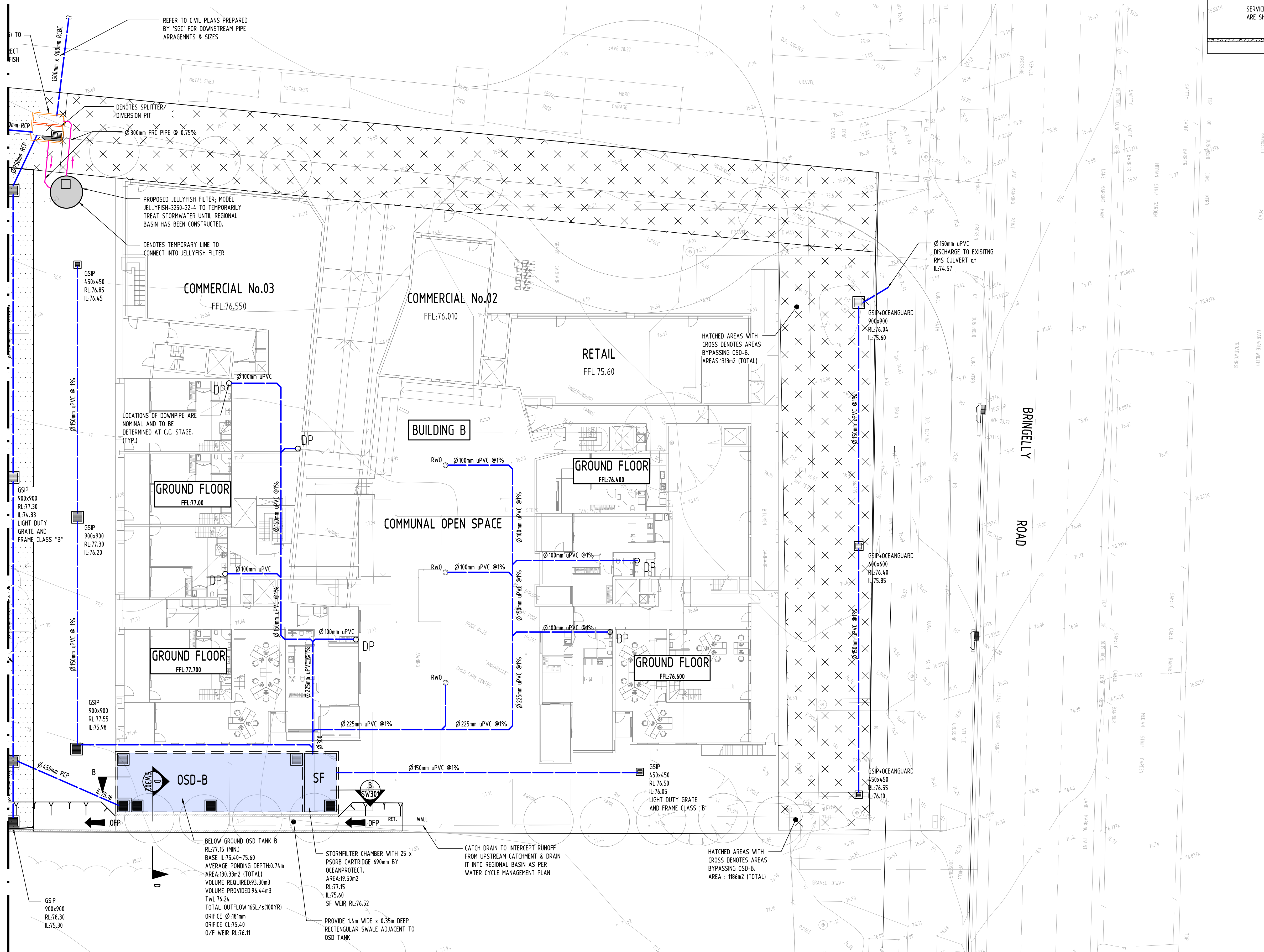
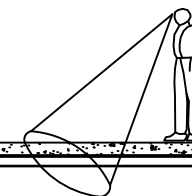
Drawing Title
STORMWATER CONCEPT DESIGN
BASEMENT 1 PLAN
SHEET 2 OF 2

Project No Drawing No Revision No
20170269 SW203 F



PROJECT PROPOSED MIXED USE DEVELOPMENT - DA1 BRINGELLY STREET, LEPPINGTON	Drawing Status NOT TO BE USED FOR CONSTRUCTION PURPOSES		
	Drawing Title STORMWATER CONCEPT DESIGN SITE PLAN SHEET 1 OF 2		
	Project No 20170269	Drawing No SW204	Revision No F

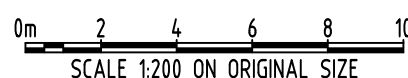
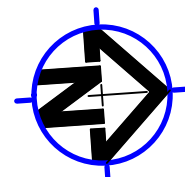
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QUALITY CONTROL			
K T	DRAWN	MS	DATE 02.12.20
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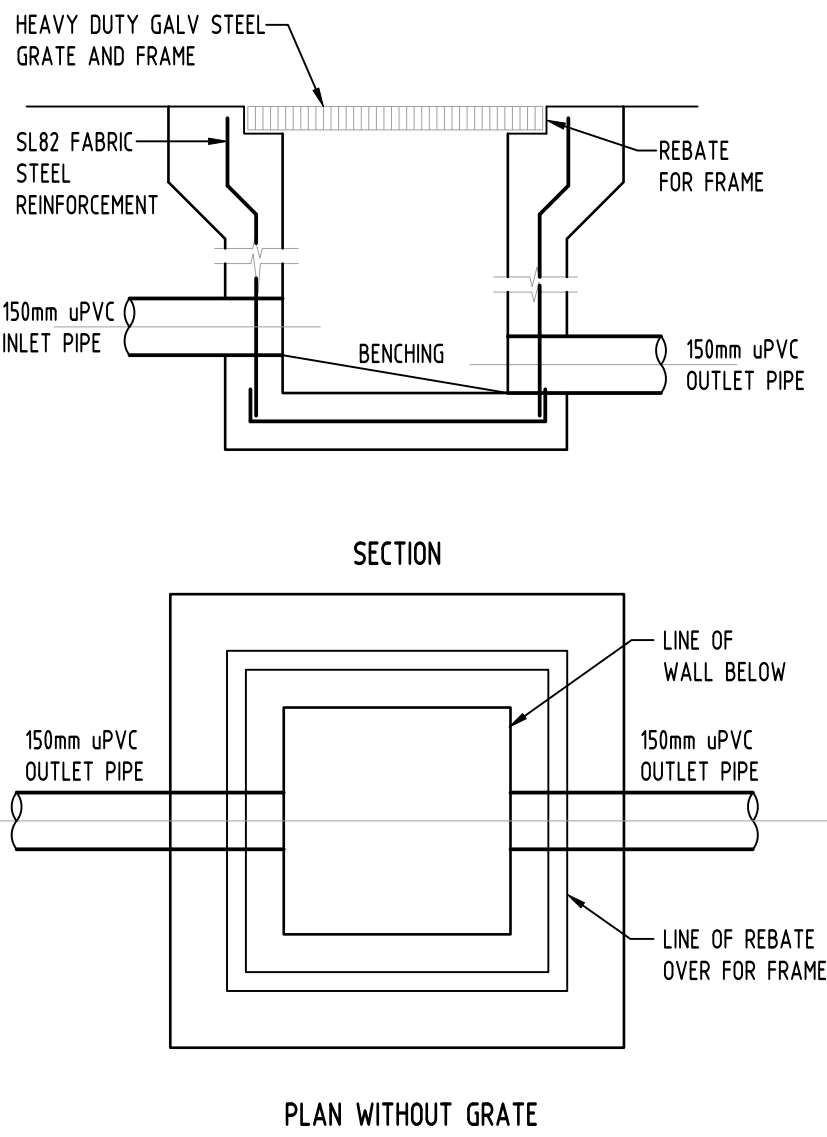
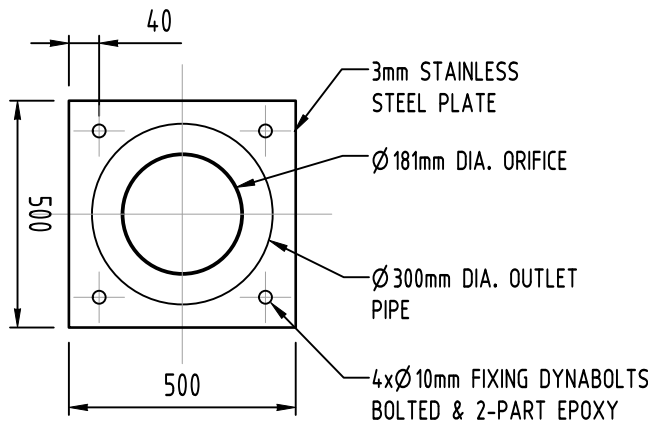
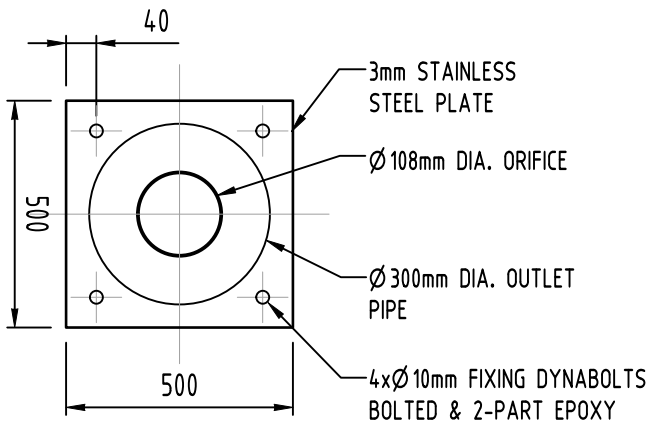
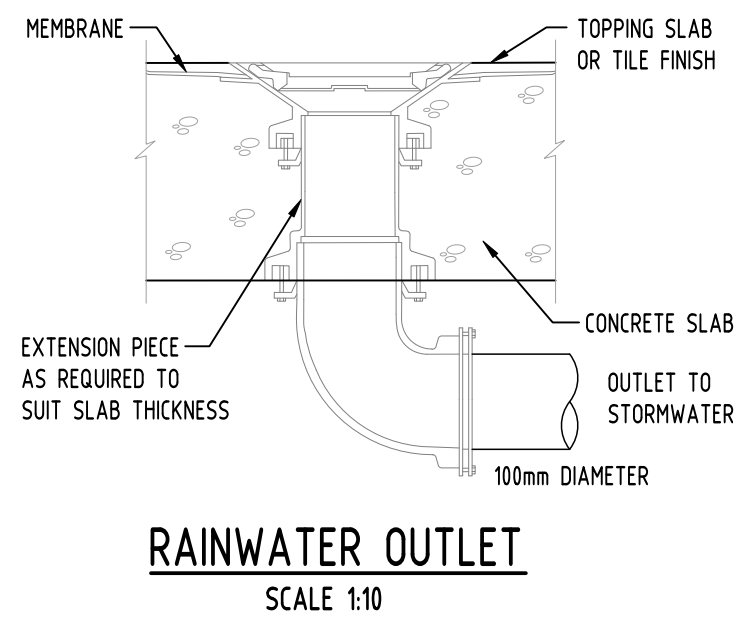
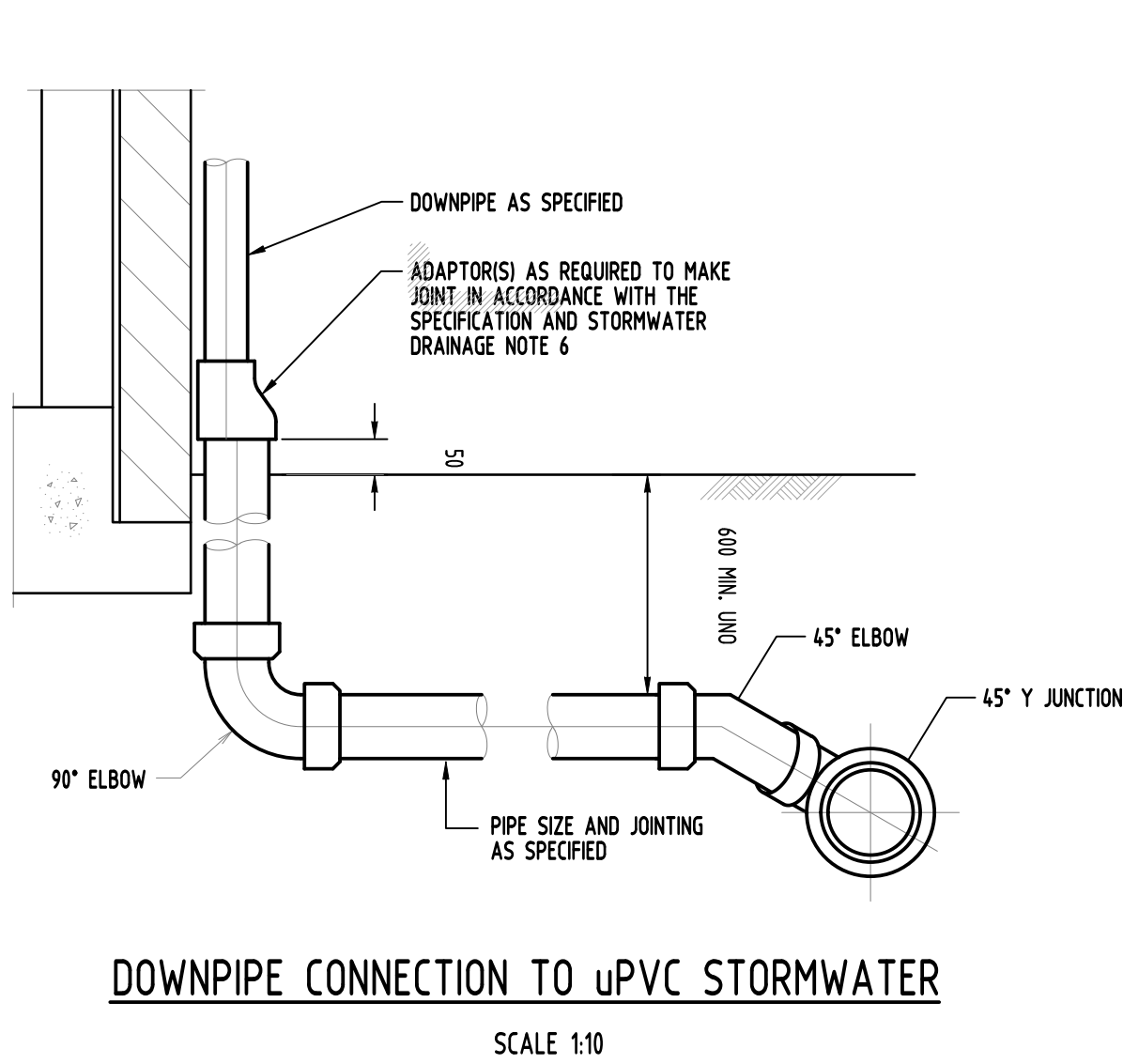
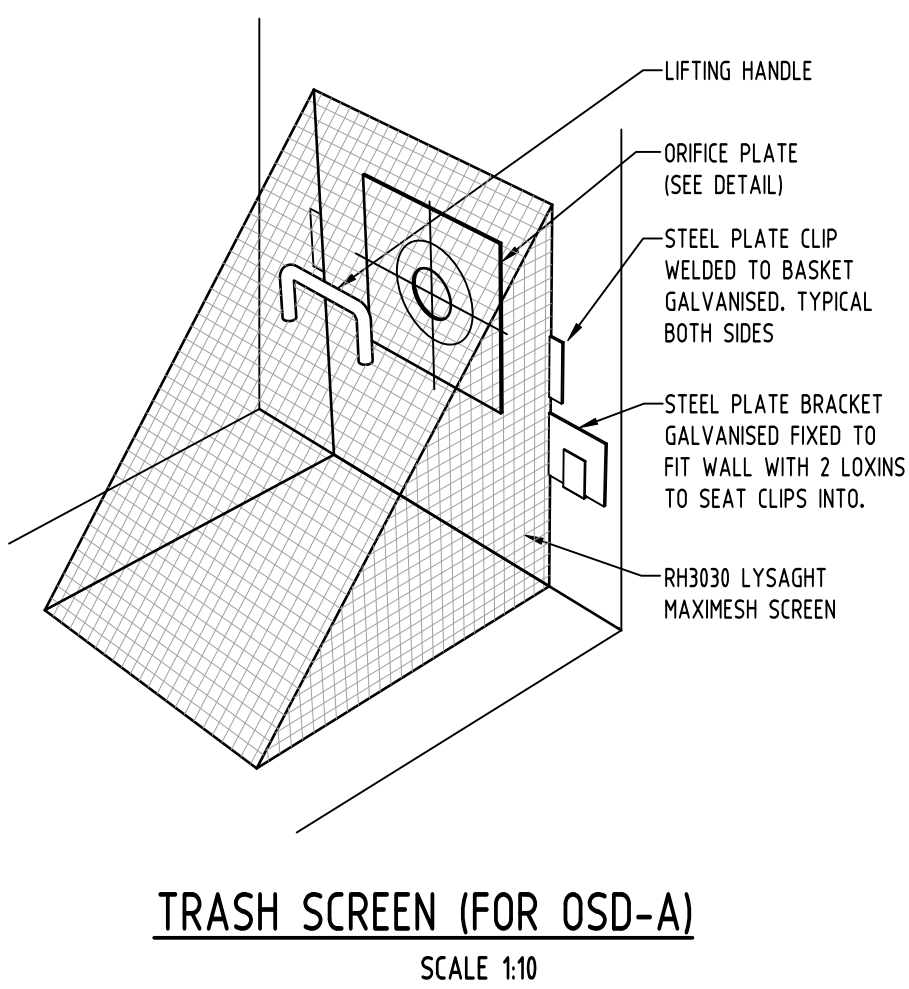
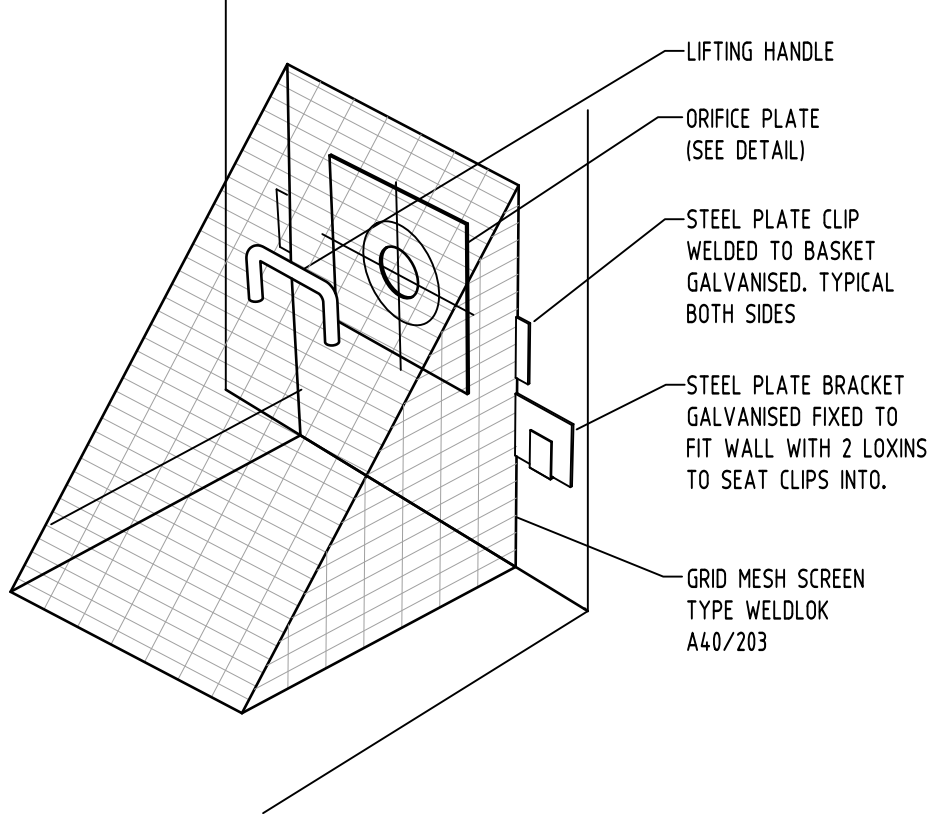
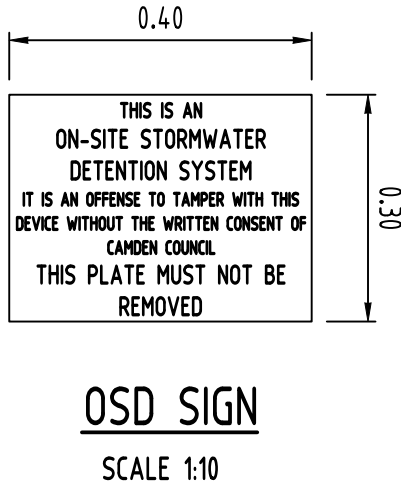
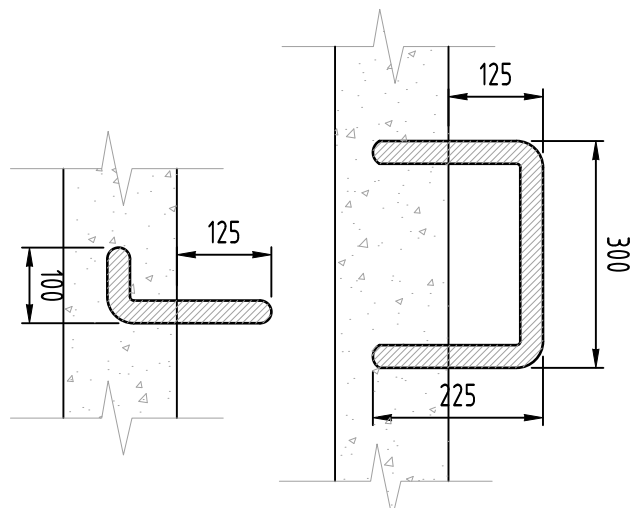
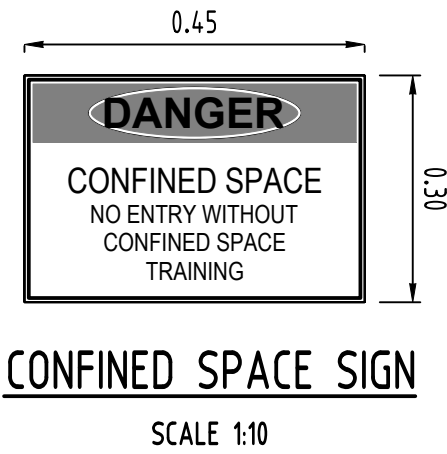


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PROJECT
PROPOSED MIXED USE
DEVELOPMENT - DA1
BRINGELLY STREET,
LEPPINGTON

Drawing Status	FOR APPROVAL		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Drawing Title	STORMWATER CONCEPT DESIGN SITE PLAN SHEET 2 OF 2		
Project No	Drawing No	Revision No	
20170269	SW205	F	



ABBREVIATIONS:

Ø or DIA	DIAMETER
CBR	CALIFORNIA BEARING RATIO
CH	CHAINAGE
CL	CENTER LINE
CO	CLEAR OUT
DD	DISH CROSSING
DDO	DISH DRAIN OUTLET
DEJ	DOWELLED EXPANSION JOINT
DGB	DENSE GRADED BASECOURSE
DGS	DENSE GRADED SUB-BASE
DP	DOWNPipe
FFL	EXISTING FINISHED FLOOR LEVEL
FF	FIRST FLUSH DEVICE
GTD	GRATED TRENCH DRAIN
GSIP	GRATED SURFACE INLET PIT
HYD	HYDRANT
IJ	ISOLATING JOINT
IK	INTEGRAL KERB
IL	INVERT LEVEL
IP	INTERSECTION POINT
KIP	KERB INLET PIT
KO	KERB ONLY
K&G	KERB & GUTTER
KR	KERB RETURN
LS	LONGITUDINAL SECTION
NGL	NATURAL GROUND LEVEL
OPF	OVERLAND FLOW PATH
OSD	ON-SITE DETENTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RK	ROLL KERB & GUTTER
RL	REDUCED LEVEL
RW	RETAINING WALL
RWT	RAINWATER TANK
SJ	SAWN CONTROL JOINT
SH	SEWER MAN HOLE
SW	STORMWATER
SWP	STORMWATER PIT
SWRM	STORMWATER RISING MAIN
SWS	STORMWATER SUMP
SV	STOP VALVE
TOK	TOP OF KERB
TOW	TOP OF WALL
TWL	TOP WATER LEVEL
TP	TANGENT POINT
UPVC	UNPLASTICISED POLYVINYL CHLORIDE
UNO	UNLESS NOTED OTHERWISE
WPJ	WEAKENED PLANE JOINT

RL: 00.00*

ENG. PROPOSED LEVEL

RL: 00.00

ARCH. PROPOSED LEVEL

KERB INLET PIT NOTES:

- KERB INLET PITS TO BE CONSTRUCTED TO LOCAL COUNCIL STANDARDS.
- ALL KERB INLET PITS TO BE CAST IN-SITU.
- ALL CONCRETE SHALL BE 32MPa STRENGTH AT 28 DAYS WITH F82 MESH CENTRALLY PLACED.

AUTHORITY STORMWATER NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL SET OUT AND LEVELS PRIOR TO COMMENCEMENT OF WORKS AND TO REPORT ANY DISCREPANCIES FOUND TO THE SUPERINTENDANT.
- ALL SET OUT DIMENSIONS ARE TO FACE OF KERB, CENTERLINE OF FENCE/BOLARD/PIPE.
- SMOOTH ALL TRANSITIONS BETWEEN NEW AND EXISTING WORK IN BOTH LEVEL AND ALIGNMENT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SAFETY FENCES, WARNING SIGNS, TRAFFIC DIVERSIONS AND THE LIKE DURING CONSTRUCTION. ALL WORKS TO COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS AND OTHER RELEVANT AUTHORITY SAFETY REQUIREMENTS.
- NO TREES SHALL BE REMOVED, CUTBACK OR RELOCATED WITHOUT THE WRITTEN INSTRUCTION FROM THE SUPERINTENDENT.
- THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION AND PAVEMENT THICKNESS FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS
PIPE BACKFILL
SELECT FILL
SELECT FILL (LESS THAN 300mm BELOW BASE COURSE)
BASE COURSE
DENSITY INDEX 75
95% STANDARD
98% MODIFIED
100% MODIFIED
- THE AUSPEC SPECIFICATION SHALL BE THE SPECIFICATION FOR THESE WORKS.

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

LEGEND:

—	SSD	—	SUBSOIL LINE
— SWRM —	SWRM	—	STORMWATER RISING MAIN
— SW —	SW	—	REMOVE EXISTING STORMWATER LINE
— OF —	OF	—	OVERFLOW LINE
— e —	e	—	EXISTING STORMWATER LINE
— SW —	SW	—	AUTHORITY STORMWATER LINE
— S —	S	—	AUTHORITY SEWER LINE
— W —	W	—	AUTHORITY WATER LINE
— G —	G	—	AUTHORITY GAS LINE
— E —	E	—	AUTHORITY ELECTRICITY LINE
— UE —	UE	—	AUTHORITY UNDERGROUND ELECTRICITY LINE
— FO —	FO	—	AUTHORITY FIBRE OPTIC LINE
— TEL —	TEL	—	AUTHORITY COMMS LINE
—		—	FENCE LINE
—		—	GRATED SURFACE INLET PIT
—		—	GRATED SURFACE INLET PIT WITH ENVIROPOD INSERT (GSIP-I)
—		—	JUNCTION PIT
—		—	KERB INLET PIT
—		—	EXISTING GRATED SURFACE INLET PIT
—		—	EXISTING JUNCTION PIT
—		—	EXISTING KERB INLET PIT
—	eTEL	—	EXISTING TELSTRA PIT
—	eHYD	—	EXISTING HYDRANT
—	eSV	—	EXISTING STOP VALVE
—	eGAS	—	EXISTING GAS VALVE
—	ePP	—	EXISTING POWER POLE
—	eBT	—	EXISTING BOUNDARY TRAP
—	eSMH	—	EXISTING SEWER MANHOLE
—	OPF	—	OVERLAND FLOW PATH
—	RWO	—	RAINWATER OUTLET
—	CO	—	CLEAR OUT POINT
—	DDO	—	DISH DRAIN OUTLET
—	PD	—	PLANTER DRAIN
—	1.01	—	CAP
—	RH	—	PIT TAG/NUMBER
—	DP	—	RAINHEAD
—	DP	—	DROP
—	DP	—	DOWNPipe
—	DP	—	NON RETURN VALVE
—	DP	—	WALL PENETRATION
—	DP	—	SPREADER
—	DP	—	WARNING LIGHT

DESIGN NOTES:

THE SITE IS LOCATED IN CAMDEN CITY COUNCIL.

DEVELOPMENT AREA: 1.28 HECTARES

ON-SITE DETENTION/SSR: OSD'S & WATER QUALITY TREATMENTS ARE REQUIRED AS PER COUNCIL WATER CYCLE MANAGEMENT STRATEGY.

THE OSD IS SIZED USING "DRAINS" SOFTWARE. IT IS DESIGNED TO CONTROL STORMWATER RUNOFF FROM DEVELOPMENT SITES UP FROM 2 YEAR TO 100 YEAR ARI EVENTS, PEAK STORMWATER DISCHARGES FROM THE SITE DO NOT EXCEED PRE-DEVELOPMENT STORMWATER DISCHARGES.

FLOODING &/OR LOCAL FLOODING: SITE NOT FLOOD AFFECTED AND IS LOCATED IN UPPER SOUTH CREEK CATCHMENT.

SW QUALITY TARGET

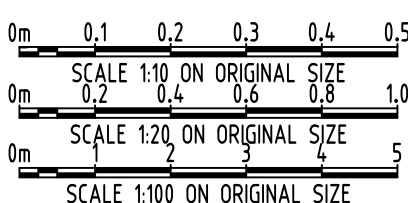
TSS: 85%

TP: 65%

TN: 45%

GP: 90%

Scales



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PROJECT
PROPOSED MIXED USE
DEVELOPMENT - DA1
BRINGELLY STREET,
LEPPINGTON
Grid
Datum
A.H.D.
Sheet
8 OF 15
Scale (at original size)
AS SHOWN

Drawing Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES
Drawing Title
STORMWATER CONCEPT DESIGN
DETAILS SHEET 1
SHEET 1 OF 3
Project No
20170269
Drawing No
SW300
Revision No
F

Reference Coordination Drawing				Discipline			Drawing Title and Number		Date	Rev.
F	ISSUE TO COUNCIL	MS	02.12.20	2	Discipline					
E	ISSUE TO COUNCIL	MS	16.10.20	2	ARCH					
D	ISSUE TO COUNCIL	JH	11.12.19	2	ARCH					
C	AMENDED AS PER COUNCIL'S COMMENTS	JH	10.07.19	2	STRUCT					
B	AMENDED AS PER COUNCIL'S COMMENTS	JH	19.06.19	2	MECH					
A	DA SUBMISSION	JH	28.02.19	2	ELEC					
P1	PRELIMINARY ISSUE	JH	27.02.19	1	HYD					
Issue	Last revision title	by	Date	Status						
Issuer internal sequence and revision history										
1-preliminary	2-development application	3-construction certificate	4-tender	5-construction	6-other					

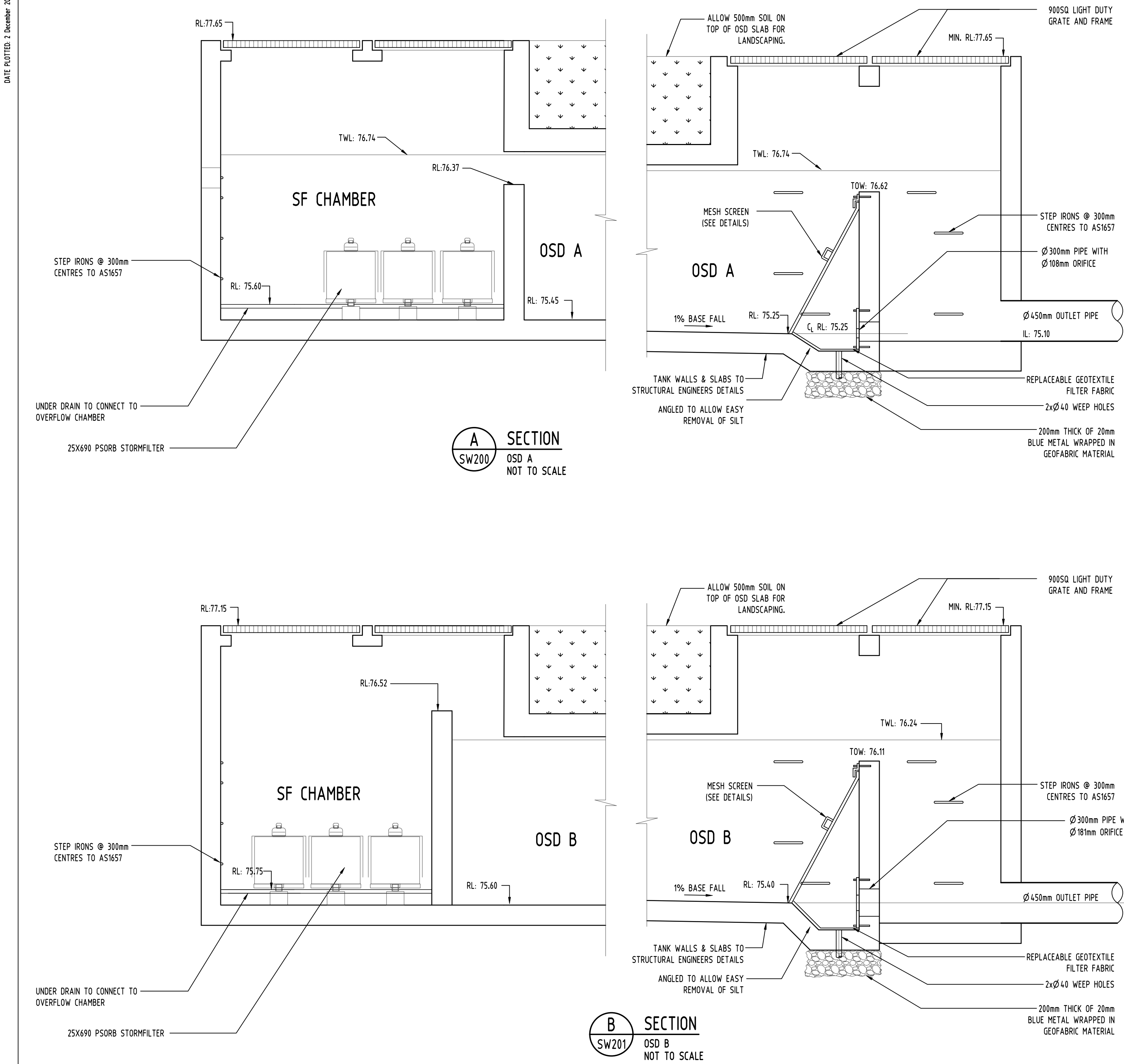
QUALITY CONTROL				Discipline			Drawing Title and Number		Date	Rev.
DRAWN	MS	DATE	02.12.20							
CHECKED	SH	DATE	02.12.20							
DESIGNED	MS	DATE	02.12.20							
VERIFIED	SH	DATE	02.12.20							
APPROVED	SH	DATE	02.12.20							

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Chartered Professional Engineer
MEMBER

DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING. POSITIONING OF AUTHORITIES MARKS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DESIGN/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.

LANDS
CIVIL
SURVEY

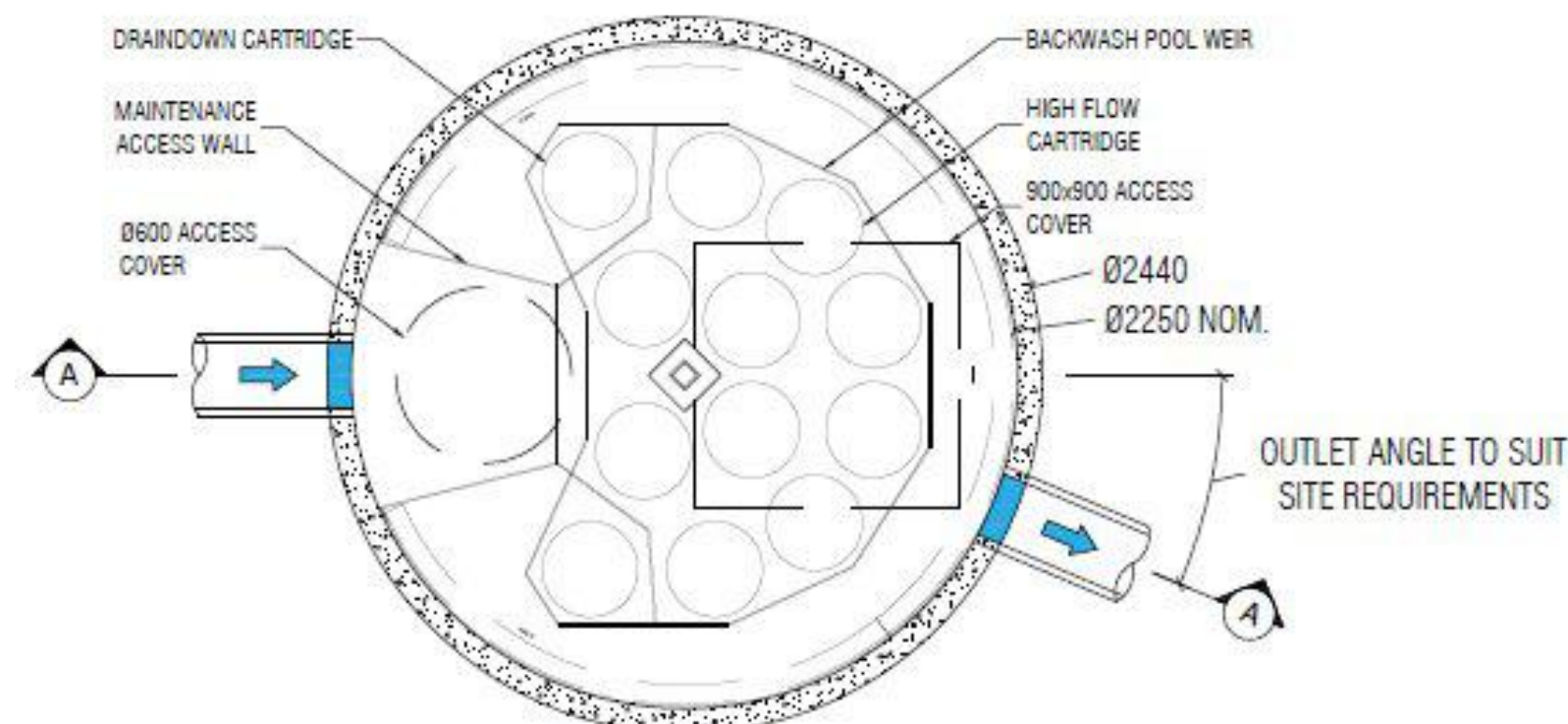


OSD TANK NAME	REQUIRED VOLUME (m ³)	PROVIDED VOLUME (m3)
OSD-A	177.70	181.16
OSD-B	93.30	96.44

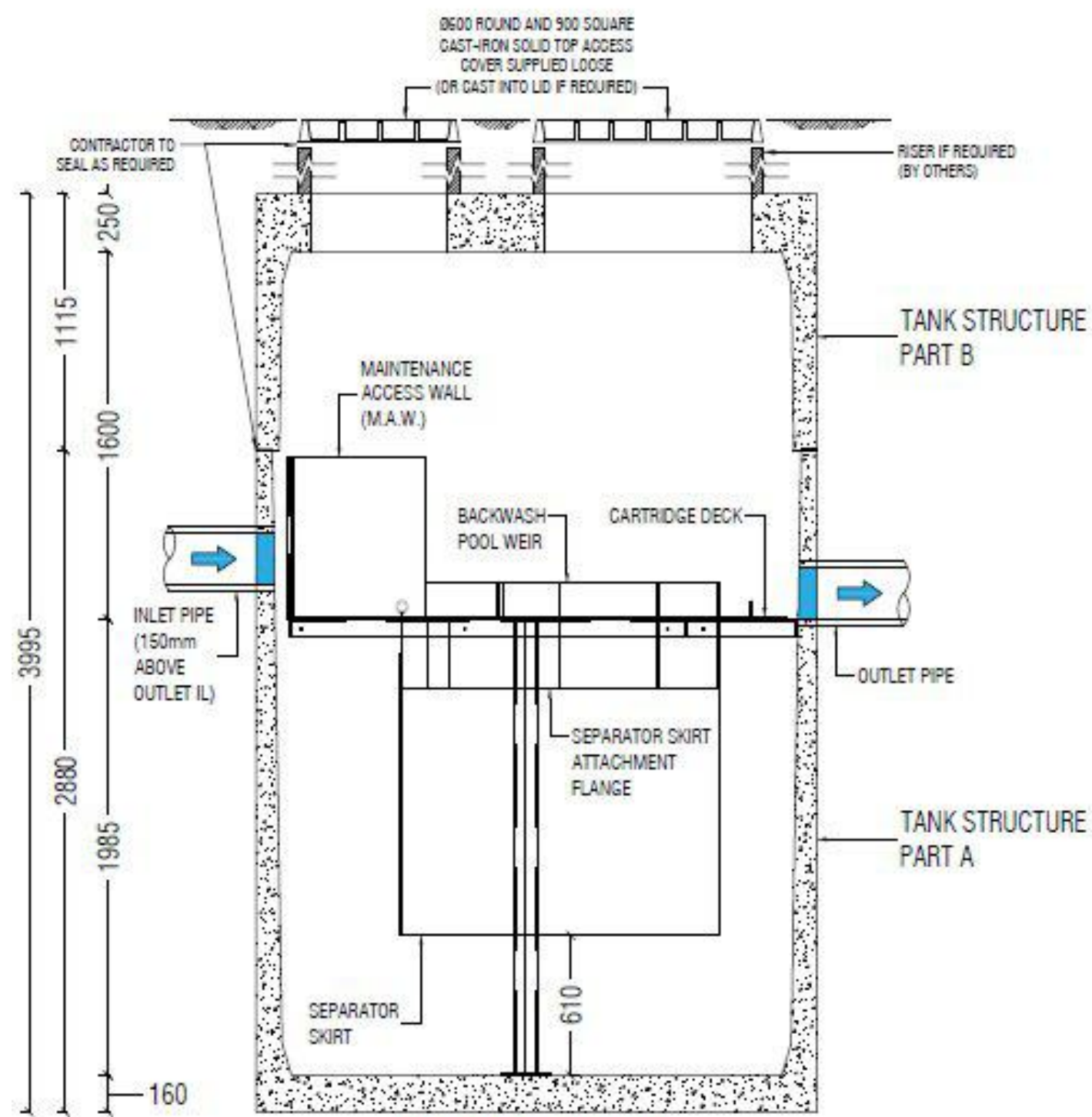
REQUIRED & PROPOSED OSD VOLUME

STORM EVENT (ARI)	PIPE OUTFLOW FROM 'OSD-A' [L/s]	WEIR OVERFLOW FROM 'OSD-A' [L/s]	FLOW GENERATED FROM AREA BYPASSING 'OSD-A' [L/s]	PIPE OUTFLOW FROM 'OSD-B' [L/s]	WEIR OVERFLOW FROM 'OSD-B' [L/s]	FLOW GENERATED FROM AREA BYPASSING 'OSD-B' [L/s]	PRE-DEV FLOW FROM 'OSD-A' CATCHMENT AREA (0% IMPERVIOUS) [L/s]	PRE-DEV FLOW FROM 'OSD-B' CATCHMENT AREA (55% IMPERVIOUS) [L/s]	TOTAL PRE-DEV FLOW / PSD (CATCHMENT OF 'OSD-A' & CATCHMENT OF 'OSD-B' COMBINED) [L/s]	TOTAL POST DEV FLOW (PIPE OUTFLOW+WEIR OUTFLOW+ BYPASS FLOW FOR 'OSD-A' & 'OSD-B') [L/s]	POST-DEV FLOW < PRE-DEV FLOW
2	23	0	45	49	0	19	39	100	139	136	Yes
5	26	0	59	55	0	26	76	137	213	166	Yes
10	28	0	67	59	0	31	98	159	257	185	Yes
20	30	15	78	63	21	37	128	189	317	244	Yes
50	30	48	91	65	63	41	163	208	371	338	Yes
100	31	83	102	66	99	48	197	237	434	429	Yes

PSD CALCULATIONS



JELLYFISH PLAN



JELLYFISH SECTION

JELLYFISH TYPICAL DETAILS
NOT TO SCALE

Reference Coordination Drawing			
Rev.	Date	Discipline	Drawing Title and Number
F	02.12.20	2	Discipline
E	16.10.20	2	ARCH
D	11.12.19	2	ARCH
C	10.07.19	2	STRUCT
B	19.06.19	2	MECH
A	28.02.19	2	ELEC
P1	27.02.19	1	HYD
Issue	Last revision title	by	Date Status
1-preliminary 2-development application 3-construction certificate 4-tender 5-construction 6-other			

QUALITY CONTROL			
DRAWN	MS	DATE	02.12.20
CHECKED	SH	DATE	02.12.20
DESIGNED	MS	DATE	02.12.20
VERIFIED	SH	DATE	02.12.20
APPROVED	SH	DATE	02.12.20

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0m 1 2 3 4 5
SCALE 1:100 ON ORIGINAL SIZE

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PROJECT
PROPOSED MIXED USE DEVELOPMENT - DA1
BRINGELLY STREET, LEPPINGTON

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	9 OF 15	AS SHOWN

Drawing Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Title	STORMWATER CONCEPT DESIGN DETAILS SHEET 2 SHEET 2 OF 3		
Project No	Drawing No	Revision No	
20170269	SW301	F	

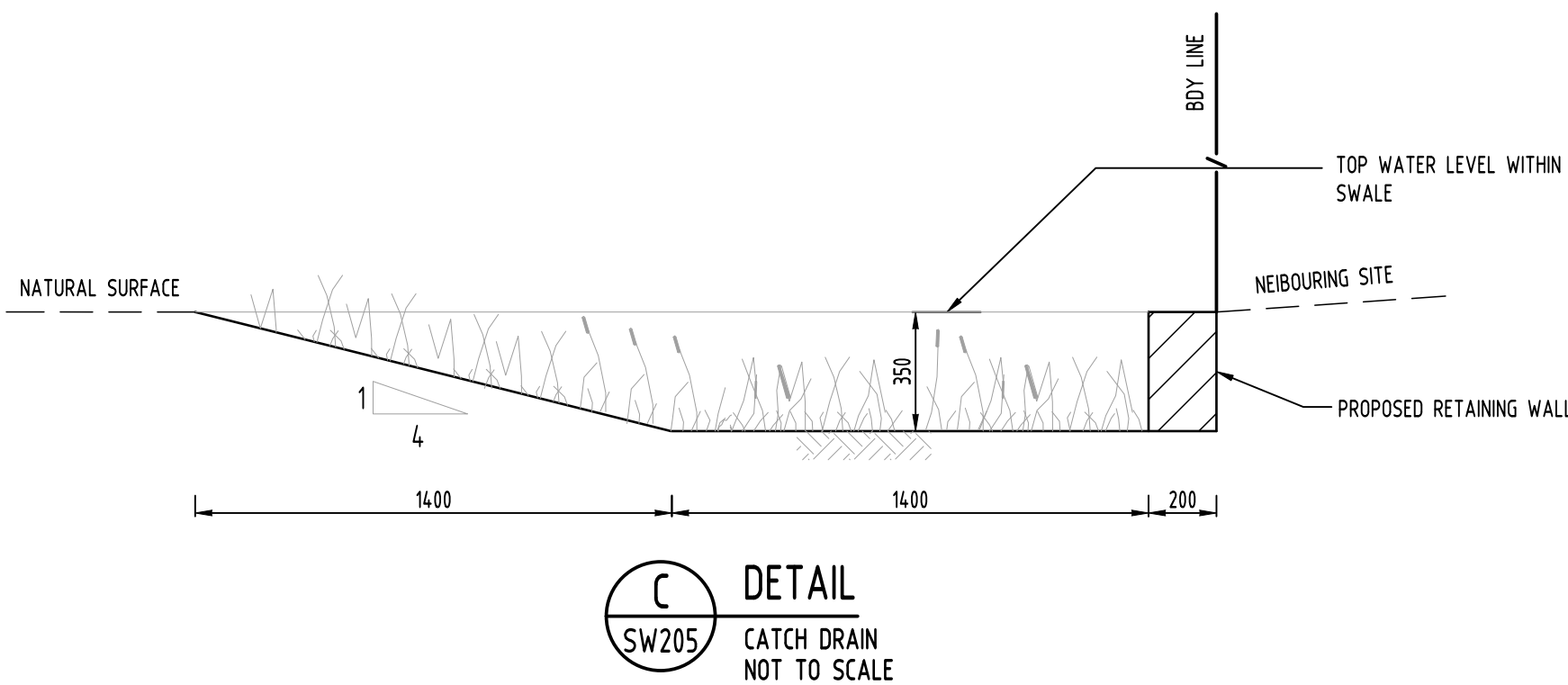
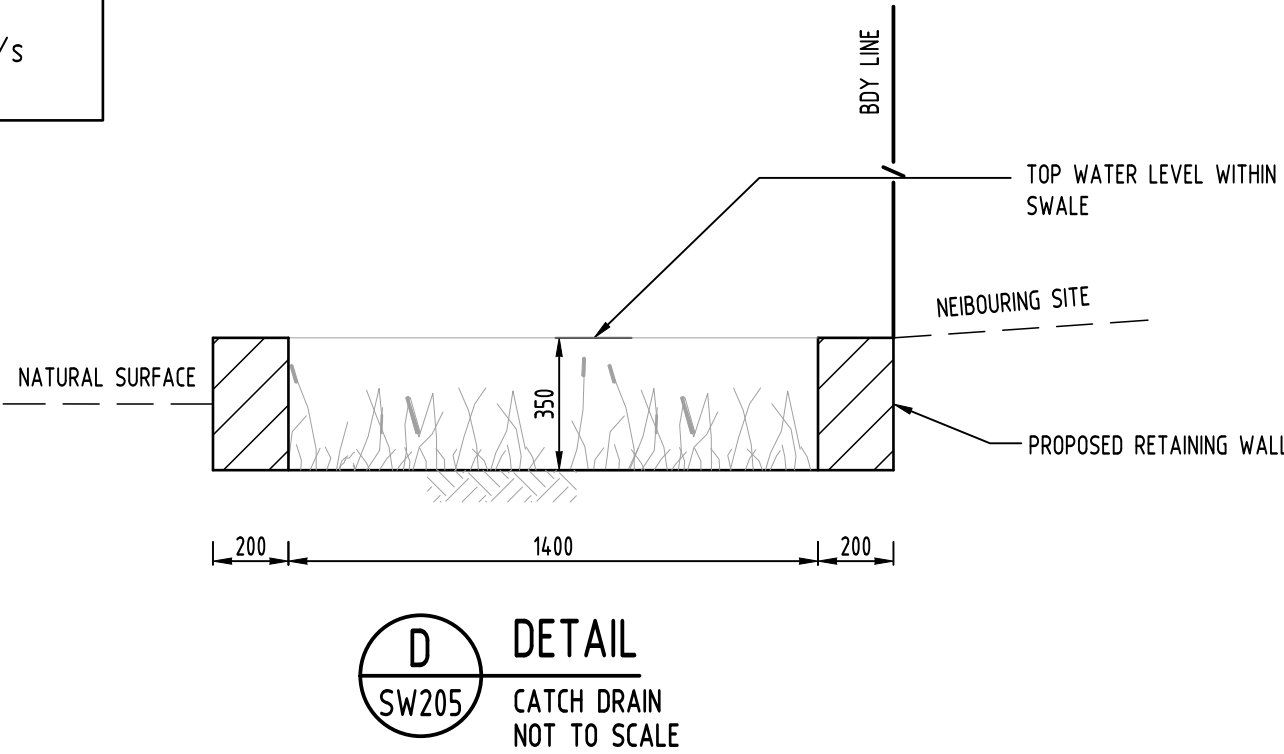
CATCHMENTS RUNOFF CALCULATIONS FOR SWALE DRAIN

UPSTREAM CATCHMENT AREA = 17444m²

SLOPE = 0.03m/m
n = 0.06 (NORMAL RESIDENTIAL)
L = 280m (LONGEST DISTANCE OF TRAVEL)
T_c = 15mins
I₁₀₀ = 154mm/hr

C₁₀₀ = 0.90

Q₁₀₀ = 0.90x154x17444/3600 = 0.672m³/s



Design Flow	Q	0.627 m ³ /s		
Base width	b	1.4 m		
Top Width	T	1.4 m		
Side 1 batter slope	Z1	0		
Side 2 batter slope	Z2	0		
Water depth	y	0.35 m		
Manning's n	n	0.035		
Channel Slope	Slope	0.014 m/m		
Channel flow area	A	0.49 m ²		
Wetted Perimeter	P	2.10 m		
Hydraulic Radius	R	0.23 m		
Flow Velocity	V	1.29 m/s	$Q=VA$	$V = \frac{k}{n} R^{2/3} S^{1/2}$
Is velocity not too high or low ??	OK			
Flow velocity x Depth	V x D	0.45 m ² /s	$P = b + y \left(\sqrt{1 + z_1^2} + \sqrt{1 + z_2^2} \right)$	$R = \frac{A}{P}$ $A = \frac{y}{2} (b + T)$
Maximum V x D value	0.50 m ² /s			$T = b + y(z_1 + z_2)$
Is V x D vale at safe levels for people ??	OK		$F = V \sqrt{\frac{T}{gA \cos \theta}}$	$\theta = \tan^{-1}(S)$
Channel Design Flow-Rate	Q	0.634 m ³ /s		
Is Channel Flow-rate > Above Design flow ??	OK			

SWALE CAPACITY CALCULATIONS (RETENGULAR)

Design Flow	Q	0.627 m ³ /s		
Base width	b	2.8 m		
Top Width	T	1.4 m		
Side 1 batter slope	Z1	4		
Side 2 batter slope	Z2	0		
Water depth	y	0.35 m		
Manning's n	n	0.035		
Channel Slope	Slope	0.014 m/m		
Channel flow area	A	0.74 m ²		
Wetted Perimeter	P	4.59 m		
Hydraulic Radius	R	0.16 m		
Flow Velocity	V	1.01 m/s	$Q=VA$	$V = \frac{k}{n} R^{2/3} S^{1/2}$
Is velocity not too high or low ??	OK			
Flow velocity x Depth	V x D	0.35 m ² /s	$P = b + y \left(\sqrt{1 + z_1^2} + \sqrt{1 + z_2^2} \right)$	$R = \frac{A}{P}$ $A = \frac{y}{2} (b + T)$
Maximum V x D value	0.50 m ² /s			$T = b + y(z_1 + z_2)$
Is V x D vale at safe levels for people ??	OK		$F = V \sqrt{\frac{T}{gA \cos \theta}}$	$\theta = \tan^{-1}(S)$
Channel Design Flow-Rate	Q	0.741 m ³ /s		
Is Channel Flow-rate > Above Design flow ??	OK			

SWALE CAPACITY CALCULATIONS (TRAPIZOIDAL)

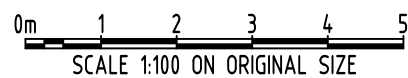
				Reference Coordination Drawing				
F	ISSUE TO COUNCIL	MS	02.12.20	2	Discipline	Drawing Title and Number	Date	Rev.
E	ISSUE TO COUNCIL	MS	16.10.20	2	ARCH			
D	ISSUE TO COUNCIL	JH	11.12.19	2	ARCH			
C	AMENDED AS PER COUNCIL'S COMMENTS	JH	10.07.19	2	STRUCT			
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A	DA SUBMISSION	JH	28.02.19	2	ELEC			
P1	PRELIMINARY ISSUE	JH	27.02.19	1	HYD			
Issue	Last revision title	by	Date	Status	PRE			
Issuer internal sequence and revision history					LANDS			
1-preliminary	2-development application	3-construction certificate			CIVIL			
4-tender	5-construction	6-other			SURVEY			

ENGINEERS AUSTRALIA	Qualified Professional Engineer
MEMBER	

QUALITY CONTROL			
DRAWN	MS	DATE	02.12.20
CHECKED	SH	DATE	02.12.20
DESIGNED	MS	DATE	02.12.20
VERIFIED	SH	DATE	02.12.20
APPROVED	SH	DATE	02.12.20

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Scales



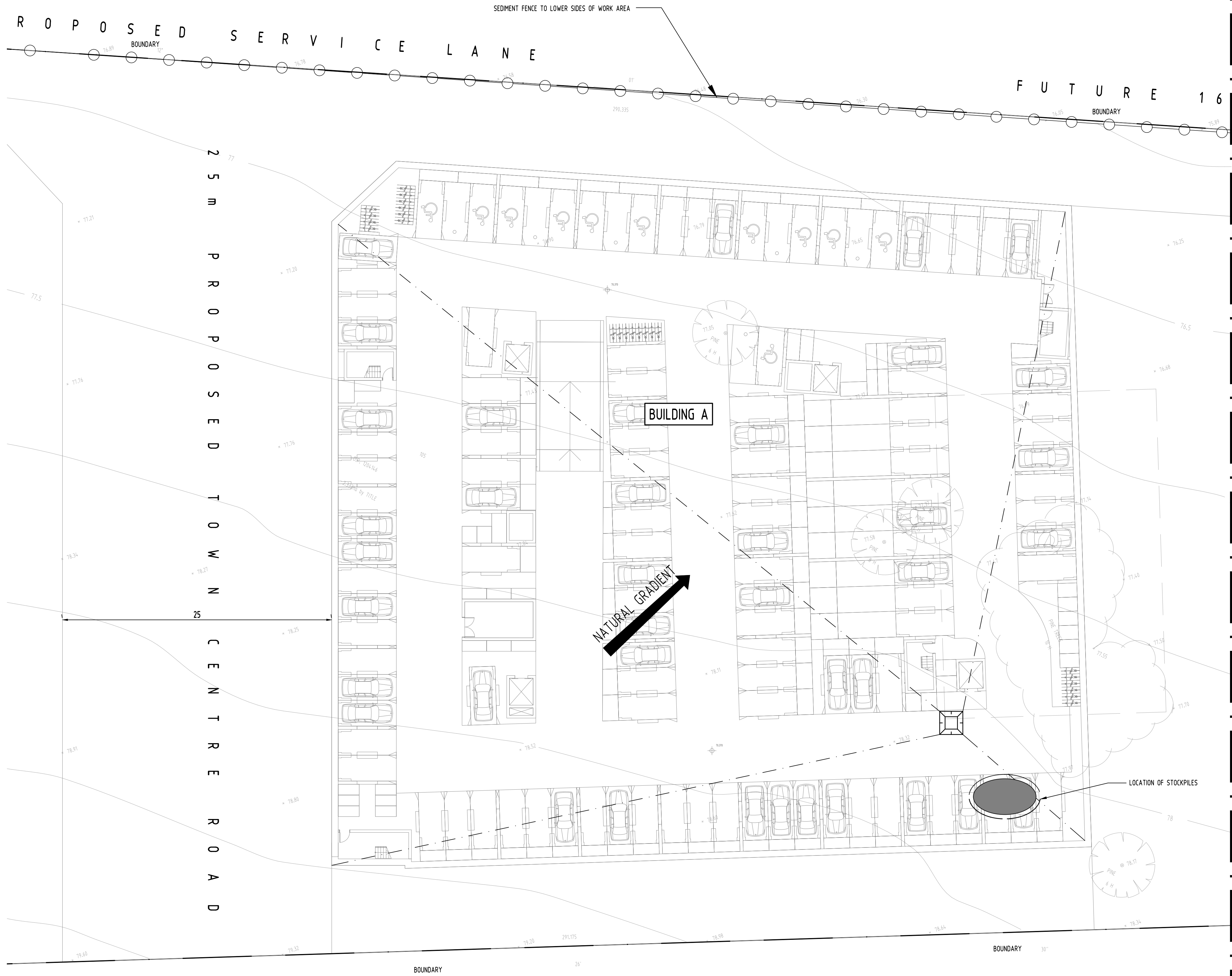
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PROJECT
PROPOSED MIXED USE DEVELOPMENT - DA1
BRINGELLY STREET,
LEPPINGTON

Drawing Status	FOR APPROVAL		
	NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Title	STORMWATER CONCEPT DESIGN		
	DETAILS SHEET 3		
	SHEET 3 OF 3		
Project No	Drawing No	Revision No	
20170269	SW302	F	

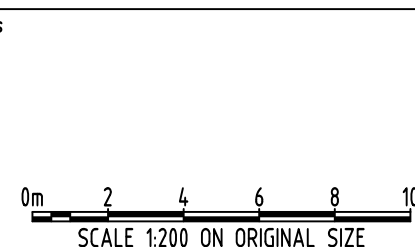
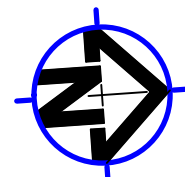




				Reference Coordination Drawing				
F	ISSUE TO COUNCIL	MS	02.12.20	2	Discipline	Drawing Title and Number	Date	Rev.
E	ISSUE TO COUNCIL	MS	16.10.20	2	ARCH			
D	ISSUE TO COUNCIL	JH	11.12.19	2	ARCH			
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B	AMENDED AS PER COUNCIL'S COMMENTS	JH	19.06.19	2	MECH			
A	DA SUBMISSION	JH	28.02.19	2	ELEC			
P1	PRELIMINARY ISSUE	JH	27.02.19	1	HYD			
Issue	Last revision title	by	Date	Status	FILE			
Issuer internal sequence and revision history								
1-preliminary		2-development application		3-construction certificate		LANDS		
4-tender		5-construction		6-other		CIVIL SURVEY		

<div>ENGINEERS</div> <div>AUSTRALIA</div> <div>Professional Engineer</div> <div>MEMBER</div>	QUALITY CONTROL		
	DRAWN	MS	DATE
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	DESIGNED	MS	DATE 02.12.20
	VERIFIED	SH	DATE 02.12.20
	APPROVED	SH	DATE 02.12.20

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PROJECT
PROPOSED MIXED USE
DEVELOPMENT - DA1
BRINGELLY STREET,
LEPPINGTON

Drawing Status	FOR APPROVAL		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Drawing Title	EROSION AND SEDIMENT CONTROL PLAN SHEET 2 OF 2		
Project No	Drawing No	Revision No	
20170269	SW401	F	

EROSION & SEDIMENTATION CONTROL NOTES

1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. THE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
5. CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

LEGEND

- GEOTEXTILE INLET FILTER (FOR PITS WITHIN LANDSCAPED AREAS)
- GEOTEXTILE INLET FILTER (FOR PITS WITHIN PAVEMENT AREAS)
- MESH & GRAVEL INLET FILTER
- MESH & GRAVEL KERB FILTER
- STRAW BALE FILTER

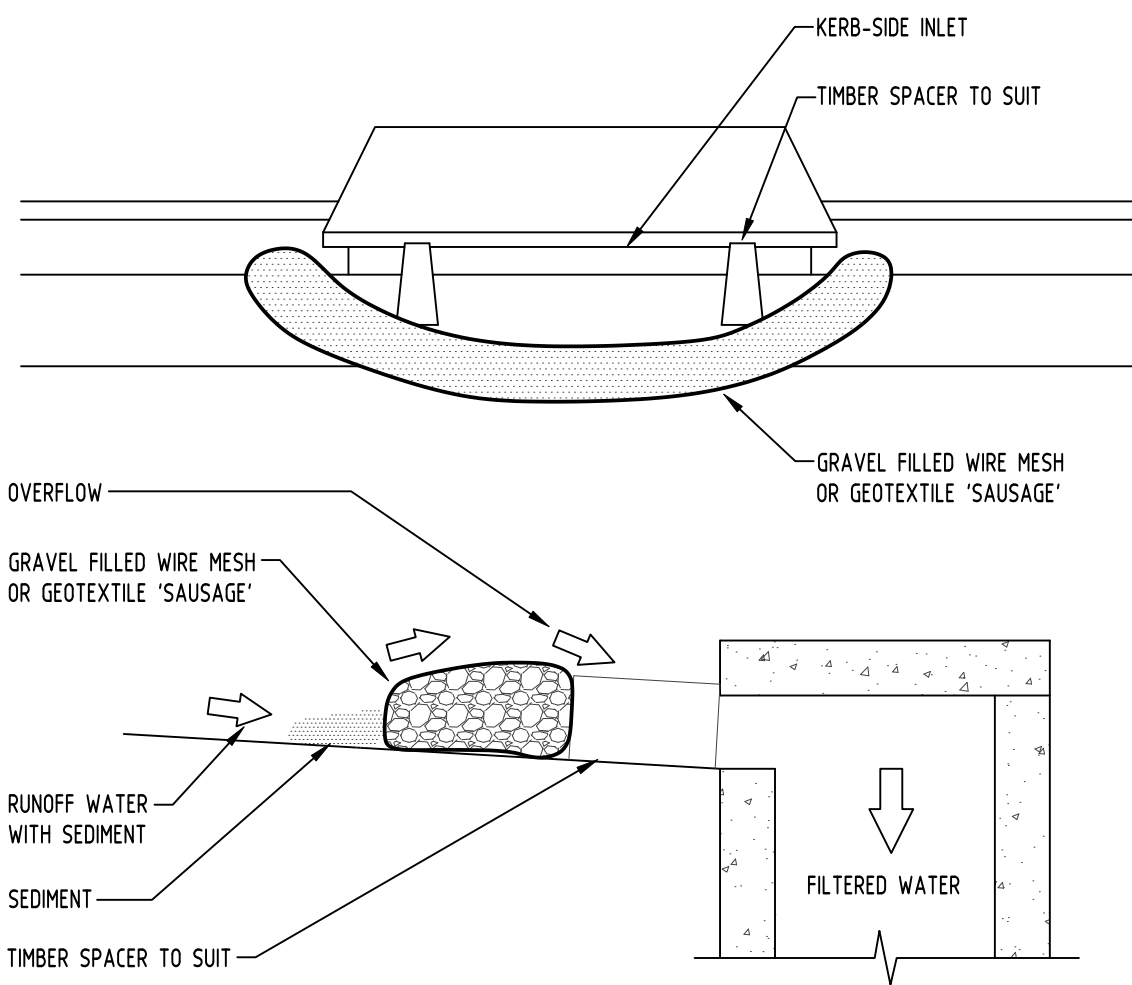
GENERAL NOTES

1. THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY ALTER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

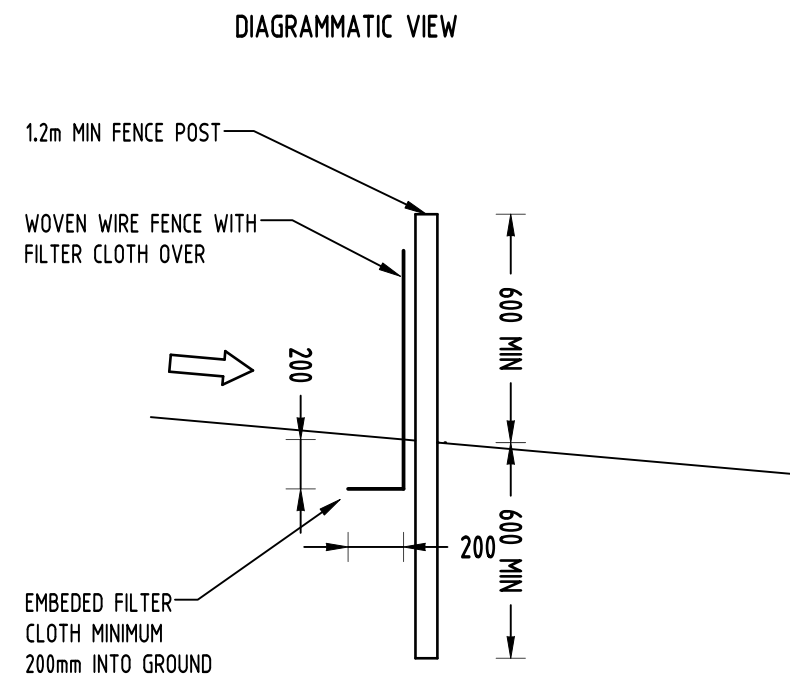
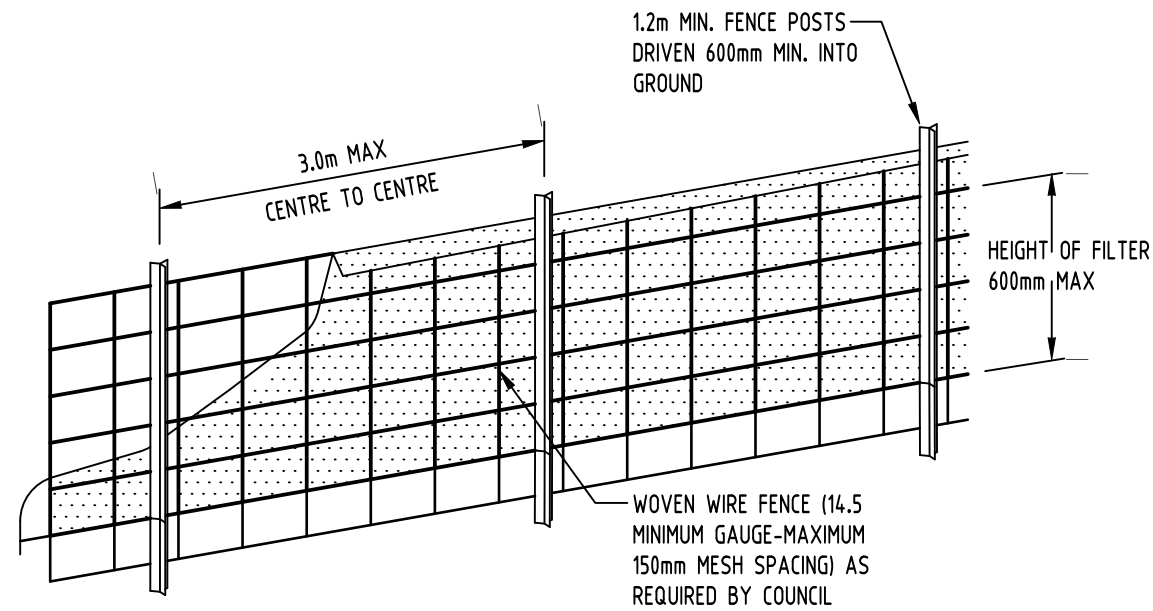
CLAY SOILS

A SYSTEM SHALL BE INSTALLED TO EITHER:

1. TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
2. TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL



3 DETAIL
GRAVEL INLET FILTER (SAUSAGE)
NOT TO SCALE



TYPICAL SECTION

4 DETAIL
SEDIMENT FENCE
NOT TO SCALE

CONSTRUCTION NOTES:

FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT

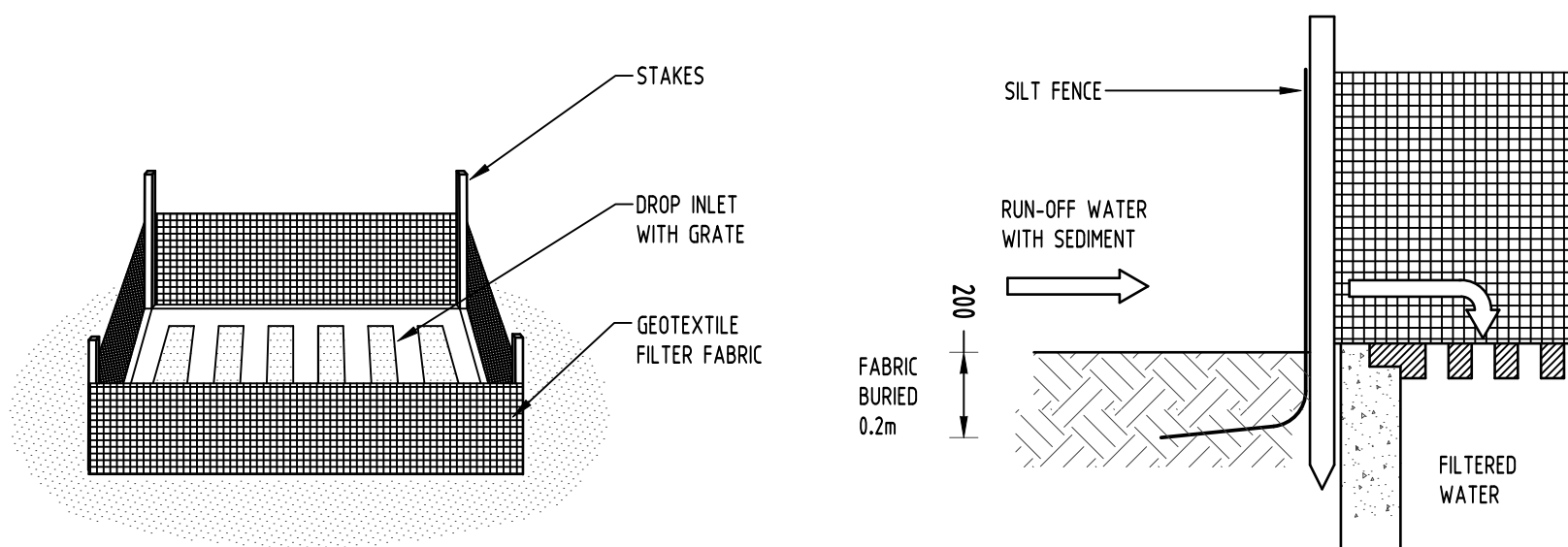
FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL

FORM AN ELLIPTICAL CROSS-SECTION OF THE KERB INLET LEAVING A 100mm GAP AT THE TOP TO ACT AS AN EMERGENCY SPILLWAY

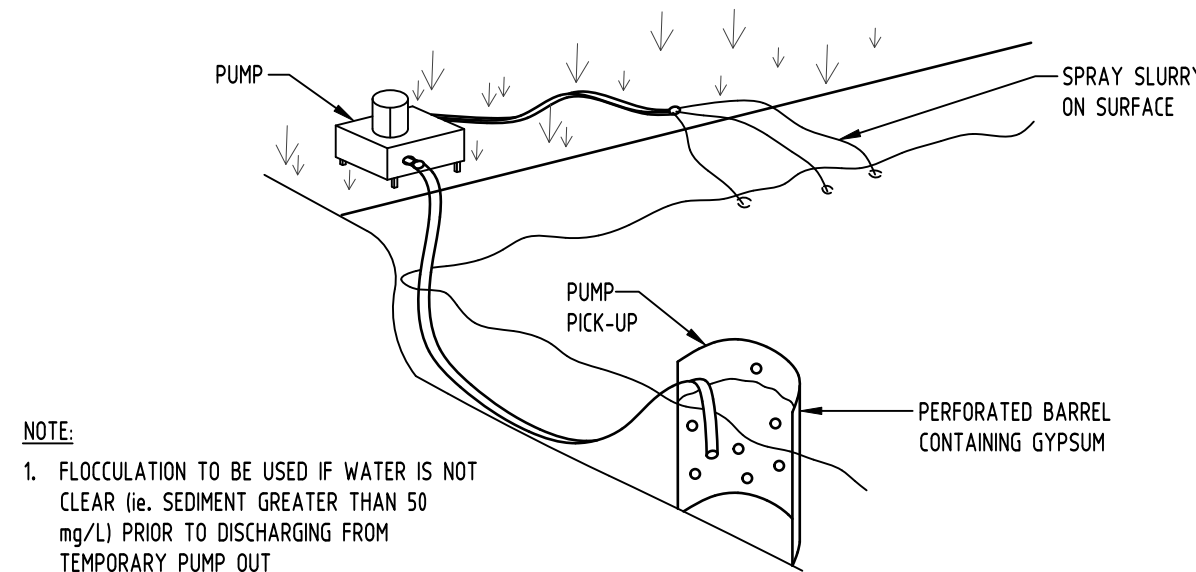
MAINTAIN THE OPENING WITH SPACER BLOCKS

FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER

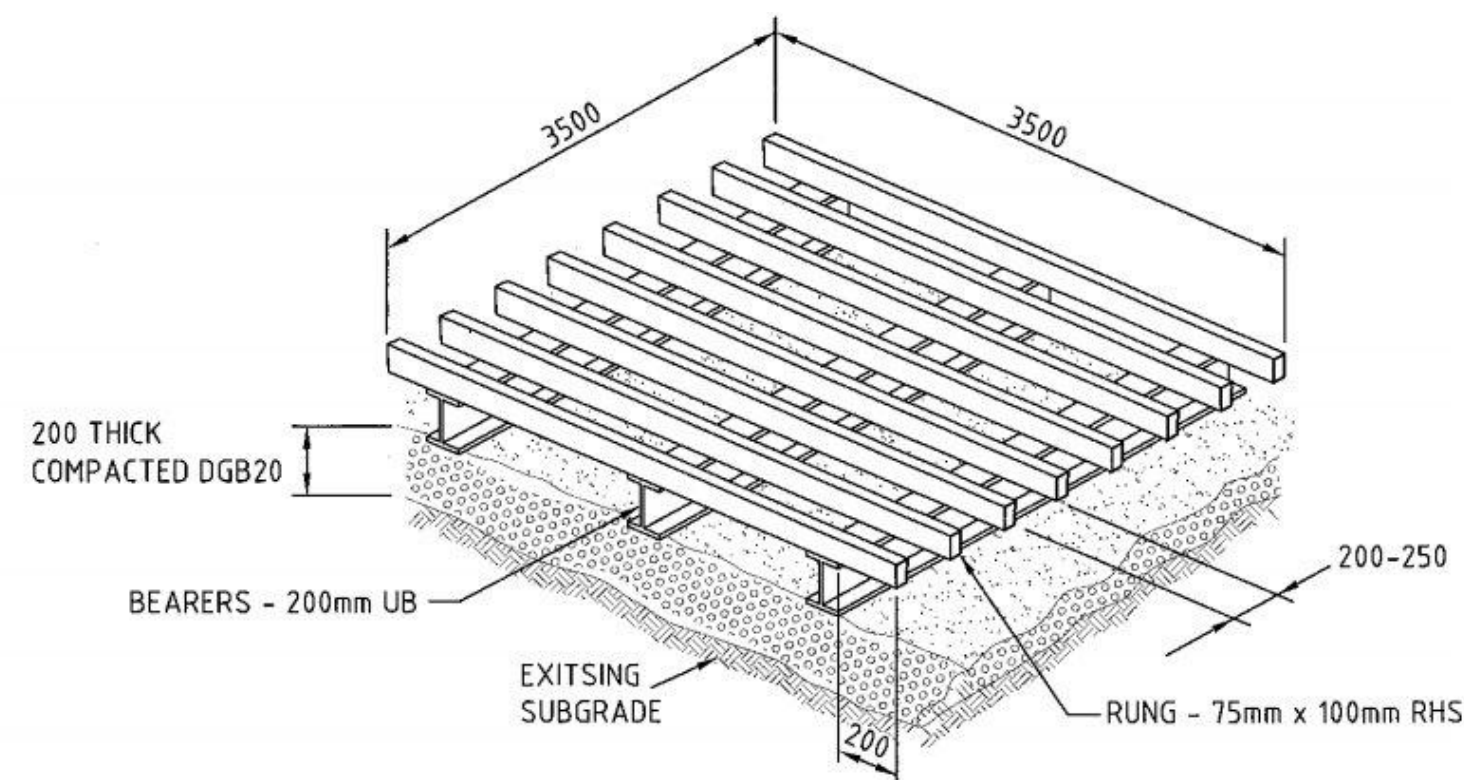
FIT TO ALL KERB INLETS AT SAG POINTS



1 DETAIL
SUMP SEDIMENT TRAP
NOT TO SCALE




2 DETAIL
FLOCCULATION DETAIL
NOT TO SCALE




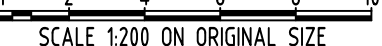
SHAKER PAD (CATTLE-GRID)

Reference Coordination Drawing				Revision History		
Rev.	Issue	Date	Discipline	Drawing Title and Number	Date	Rev.
F	ISSUE TO COUNCIL	MS 02.12.20	2	Discipline		
E	ISSUE TO COUNCIL	MS 16.10.20	2	ARCH		
D	ISSUE TO COUNCIL	JH 11.12.19	2	ARCH		
C	AMENDED AS PER COUNCIL'S COMMENTS	JH 10.07.19	2	STRUCT		
B	AMENDED AS PER COUNCIL'S COMMENTS	JH 19.06.19	2	MECH		
A	DA SUBMISSION	JH 28.02.19	2	ELEC		
P1	PRELIMINARY ISSUE	JH 27.02.19	1	HYD		
Issue	Last revision title	by	Date	Status		
Issuer internal sequence and revision history						
1-preliminary	2-development application	3-construction certificate	4-tender	5-construction	6-other	


 ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER	Reference Coordination Drawing		
	Discipline	Drawing Title and Number	Date

QUALITY CONTROL			
DRAWN	MS	DATE	02.12.20
CHECKED	SH	DATE	02.12.20
DESIGNED	MS	DATE	02.12.20
VERIFIED	SH	DATE	02.12.20
APPROVED	SH	DATE	02.12.20

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Scales	
	
SCALE 1:200 ON ORIGINAL SIZE	

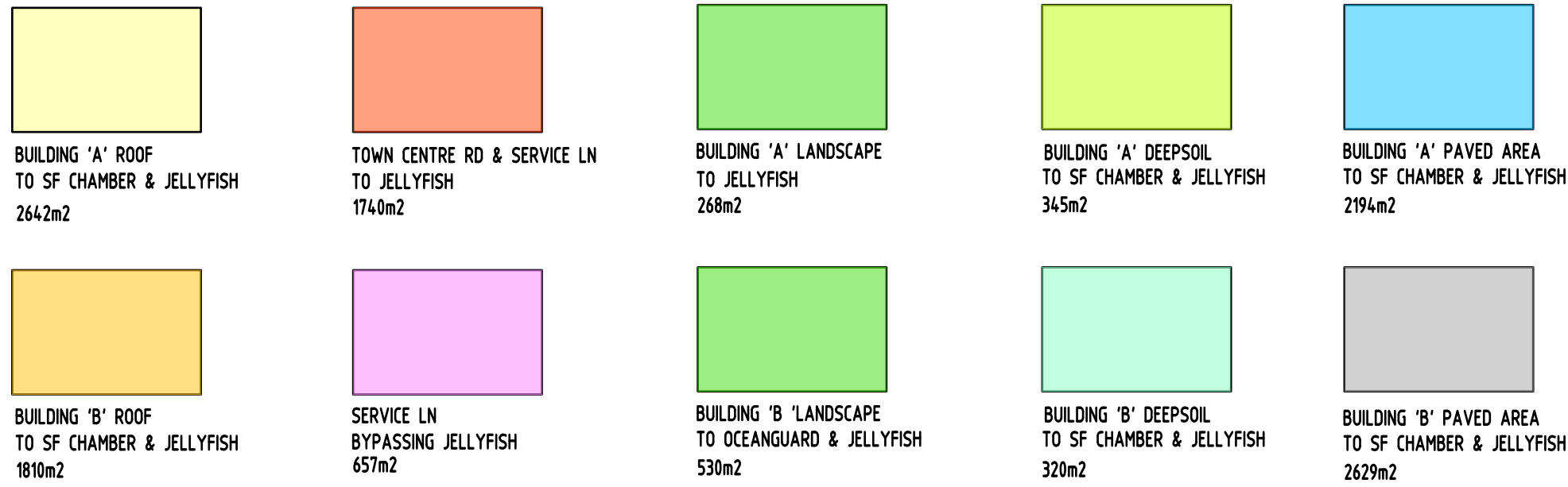
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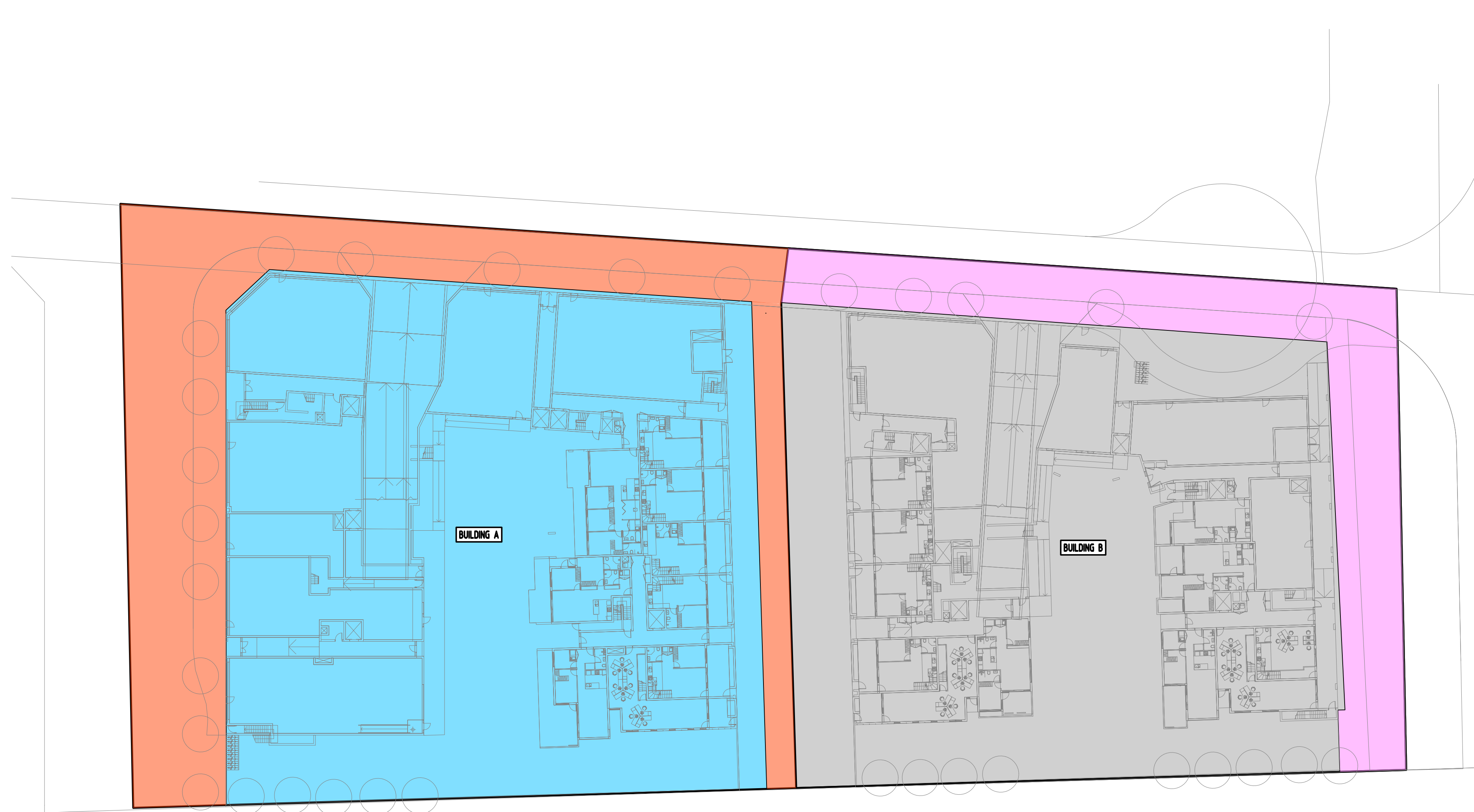
ARCHITECT	
	
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PROJECT			
PROPOSED MIXED USE DEVELOPMENT - DA1			
BRINGELLY STREET, LEPPINGTON			
Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	13 OF 15	1:200 @ A1

Drawing Status		
FOR APPROVAL		
NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Title		
EROSION AND SEDIMENT CONTROL DETAILS		
Project No	Drawing No	Revision No
20170269	SW402	F





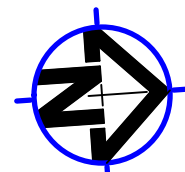
				Reference Coordination Drawing				
F	ISSUE TO COUNCIL	MS	02.12.20	2	Discipline	Drawing Title and Number	Date	Rev.
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Issuer internal sequence and revision history								
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4-tender 5-construction 6-other								
LANDS								
CIVIL								
SURVEY								

ENGINEERS AUSTRALIA
Chartered Professional Engineer
MEMBER

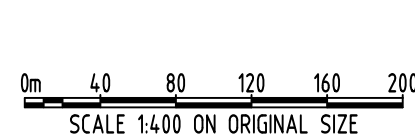
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	Scales
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PROJECT
PROPOSED MIXED USE
DEVELOPMENT - DA1
BRINGELLY STREET,
LEPPINGTON

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	15 OF 15	1:400@A1

Drawing Status	FOR APPROVAL
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STORMWATER CONCEPT DESIGN

OSD CATCHMENT PLAN

Project No	Drawing No	Revision No
20170269	SW501	F