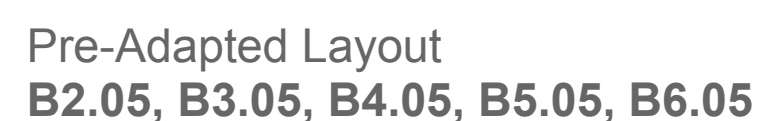
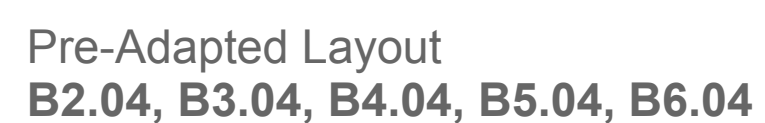
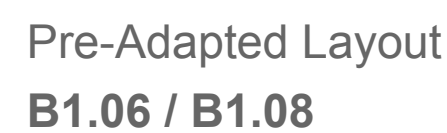
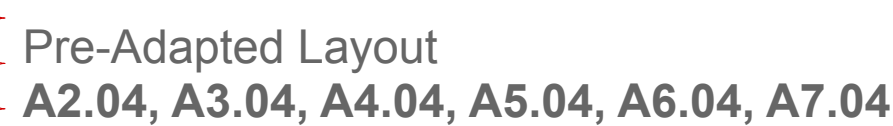
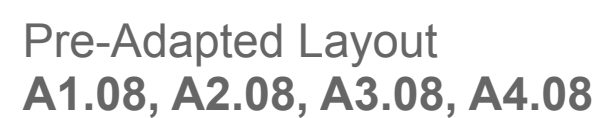


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Woollooware Bay Town Centre Residential Stage 3	1:100 @ B1	14003	turner	
Captain Cook Drive Cronulla NSW 2230 Australia	Status	Dwg No.	Rev	
	For Information	A-DA-112-002	G	

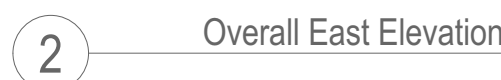
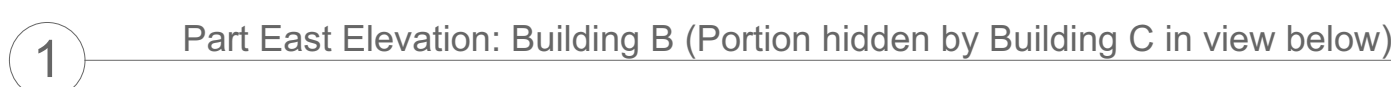


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E	12/04/17 JM	DA Amendment		
E	01/07/16 JM	DA issue		
Rev.	Date	Approved by	Revision Notes	
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1:100 @ B1				tuner
Status		Dwg No.	A-DA-112-001	Rev G
For Information				

Adaptable Apartment Layouts

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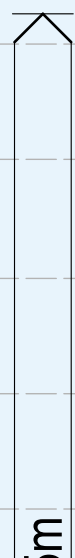
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1:200, 1:100 @ B1	14003		turner	
Status	Dwg No.		Rev	
For Information	A-DA-210-030		G	

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- BAL1 Bulbulate Type 1:
Semi-Framless front glass balustrade.
Framing system, finish to match PF7
- BAL1A Bulbulate Type 1A:
Semi-Framless bronze tinted glass balustrade
Framing system, finish to match PF9
- BAL2 Bulbulate Type 2:
Semi-Framless clear glass balustrade fixed to solid spigotted panel/joint wall
Framing system, finish to match PF7
- BAL3 Bulbulate Type 3:
Framless clear glass balustrade fixed to face of slab with stainless steel fixings
- BAL4 Bulbulate Type 4:
Framless clear glass balustrade fixed into channel of floor level
- BAL5 Bulbulate Type 5:
Framless clear glass balustrade fixed to solid spigotted panel/joint wall with stainless fixings
- CL1 Cladding Type 1:
Metal cladding, finish to match PF7
- CL2 Cladding Type 2:
Metal cladding, finish to match PF9

CL3	Cladding Type 3: FC cladding. Paint colour to match PFS
CL4	Cladding Type 4: Profiled metal cladding. Paint colour to match PFS
CL4a	Cladding Type 4a: Metal cladding. Paint colour to match PFS
CL5	Cladding Type 5: Metal cladding. Paint colour to match PFS
CL6	Cladding Type 6: Sandstone Cladding
CL7	Cladding Type 7: Timber cladding. Timber selection to match PFS * Denotes cladding to underside of soffit
CL8	Cladding Type 8: Metal cladding, finish to match PFS
COF-1	Concrete, off form Clear finish or to landscape architect spec

GC1	Glass, Clear, Type 1: Glass, clear, to Basic and Acoustic report requirements. Aluminum framing system, finish to match PF1
GC2	Glass, Clear, Type 2: Glass, clear, to Basic and Acoustic report requirements. Aluminum framing system, finish to match PF1
GC3	Glass, Clear, Type 3 (3-ply tinted glazing): Glass, clear, tinted, to Basic and Acoustic report requirements. Aluminum framing system, finish to match PF1
GC4	Glass, Clear, Type 4: Glass, clear, tinted, to Basic and Acoustic report requirements. Aluminum framing system, finish to match PF6
GC5	Glass, Clear, Type 5: Glass, clear, to Basic and Acoustic report requirements. Semi frameless (vertical mullion joint) cladding glazing
GC6B1	Glass, Coloredback, Type 1: Glass, Light Bronze, to Basic and Acoustic report requirements. Aluminum framing system, finish to match PF6
GC6B2	Glass, Coloredback, Type 2: Glass, Light Bronze, to Basic and Acoustic report requirements. Aluminum framing system, finish to match PF1
GC6A1	Glass, Opaque, Type 1: Glass, opaque, to Basic and Acoustic report requirements. Aluminum framing system, finish to match PF1
GC6A2	Glass, Translucent, Type 1: Translucent Privacy Glass, to Basic and Acoustic report requirements. Aluminum framing system, finish to match PF1

LV1	Loose Type 1 Fixed horizontal loose system. Aluminium, finish to match PF7
LV2	Loose Type 2 Fixed vertical loose system. 50 x 25mm profile. Aluminium, finish to match PF9
LV3	Loose Type 3 Fixed vertical loose system. Aluminium, finish to match PF7
LV4	Loose Type 4 Fixed vertical loose system. Aluminium, finish to match PF9
LV5	Loose Type 5 Fixed angled loose system. Aluminium, finish to match PF12
LV6	Loose Type 6 Fixed angled loose fence to private terraces and ramps. Aluminium, finish to match PF7
LV7	Loose Type 7 Steel fence panels. Aluminium, finish to match PF9
MCR	Mesh Deck Railing Profiled metal deck railing. Colour: "Bronze", colour to match adjacent

- PC1 Precast Concrete Type 1:
Precast Concrete, Vertical joints. Finish: penetrating low maintenance stain finish equal to Keim concrete Lasur system, to match PF1
- PC2 Precast Concrete Type 2:
Precast Concrete, Vertical joints. Finish: penetrating low maintenance stain finish equal to Keim concrete Lasur system, to match PF2
- PC3 Precast Concrete Type 3:
Precast Concrete, Vertical joints. Finish: penetrating low maintenance stain finish equal to Keim concrete Lasur system, to match PF5

PF1	Paint Finish Type 1: Natural White Finish to match Dulux 'Natural White'
PF2	Paint Finish Type 2: Medium Beige Finish to match Dulux 'Harold'
PF3	Paint Finish Type 3: Internal colour to future selection
PF4	Paint Finish Type 4: Internal colour to future selection
PF5	Paint Finish Type 5: Dark Grey Finish to match Dulux 'Domini'
PF6	Paint Finish Type 6: Finish to match Dulux 'Electro Shimmering Champagne' powder coat

PF7	Point Finish Type 7: Finish to match Apollo® Sparkling Dark Grey powder coat
PF8	Point Finish Type 8: Finish to match Dulux® Flat White® powder coat
PF9	Point Finish Type 9: Finish to match Dulux® Medium Bronze® powder coat
PF10	Point Finish Type 10: Finish to match Dulux® Duracel® Eternity Titanium Paint Sat
PF11	Point Finish Type 11: Finish to match Colorbond® Monument
PF12	Point Finish Type 12: Finish to match Dulux® Electro® Golden Touch® powder coat

- SC1 Screen Type 1:
Perforated aluminium fixed screens, finish to match PF12
- SC2 Screen Type 2:
Perforated aluminium sliding screens, finish to match PF9
- SC3 Screen Type 3:
Semi frameless 1.5 - 2m high clear glazed screen
with decorative transparent film at pool deck at low level for privacy to adjacent apartments
- SC4 Screen Type 4:
Semi frameless full height opaque glazed screens between balconies
- SC5 Screen Type 5:
Vertical glass screens, 75 x 2500mm profile
Timber cladding. Timber selection to match "Spotted Gum" with clear sealers

GAIXING enclosure	Westernstar Bay Station - Stage 3
Access	Doors / Windows Access to the enclosure is via a clear glass door with a handle height of 1.35m. The door is made of 10mm thick glass. The door is made of 10mm thick glass. The door is made of 10mm thick glass. Other Quartz crystals are mounted in abundance in order to ensure that the enclosure is always in tune with the environment.
Heat / Cooling	Heating The enclosure is heated by a 100W heater. The heater is made of 10mm thick glass. The heater is made of 10mm thick glass. The heater is made of 10mm thick glass. Cooling The enclosure is cooled by a 100W cooler. The cooler is made of 10mm thick glass. The cooler is made of 10mm thick glass. The cooler is made of 10mm thick glass.
Wall / Floor insulation	Internal walls The enclosure is made of 10mm thick glass. The walls are made of 10mm thick glass. The walls are made of 10mm thick glass. The walls are made of 10mm thick glass. Floor The enclosure is made of 10mm thick glass. The floor is made of 10mm thick glass. The floor is made of 10mm thick glass. The floor is made of 10mm thick glass.
Control and water	Control The enclosure is controlled by a 100W control unit. The control unit is made of 10mm thick glass. The control unit is made of 10mm thick glass. The control unit is made of 10mm thick glass. Water The enclosure is made of 10mm thick glass. The water is made of 10mm thick glass. The water is made of 10mm thick glass. The water is made of 10mm thick glass.
Sealing	Volume The enclosure is made of 10mm thick glass. The volume is made of 10mm thick glass. The volume is made of 10mm thick glass. The volume is made of 10mm thick glass. Sealing The enclosure is made of 10mm thick glass. The sealing is made of 10mm thick glass. The sealing is made of 10mm thick glass. The sealing is made of 10mm thick glass.

NOTES

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NSW 2000 Australia

DUCS Quality Endorsed Company ISO 9001:2008, Licence Number 4166
 Birmingham, England, UK
 0121 717 3000

SSPP (Sydney South) Business Paper Appendices - (29 November 2017) (2016SYE090) (DA16/11068)

Project Title
Woollooware Bay Town Centre Residential Stage 3
Captain Cook Drive Cronulla NSW 2230 Australia

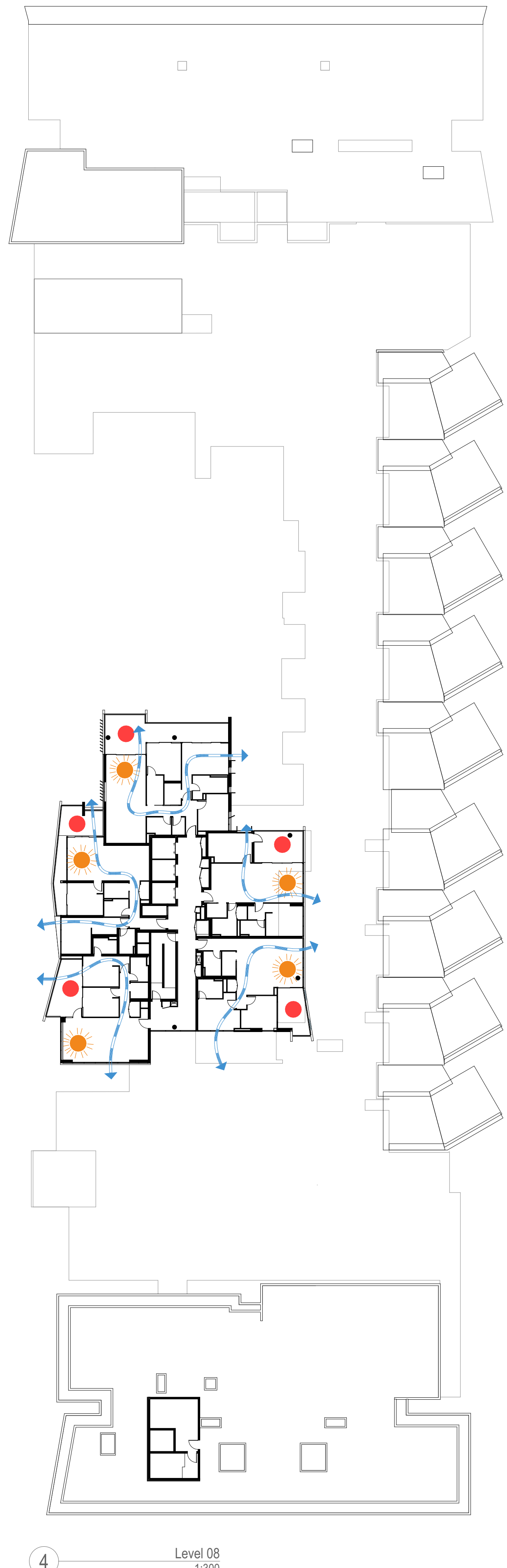
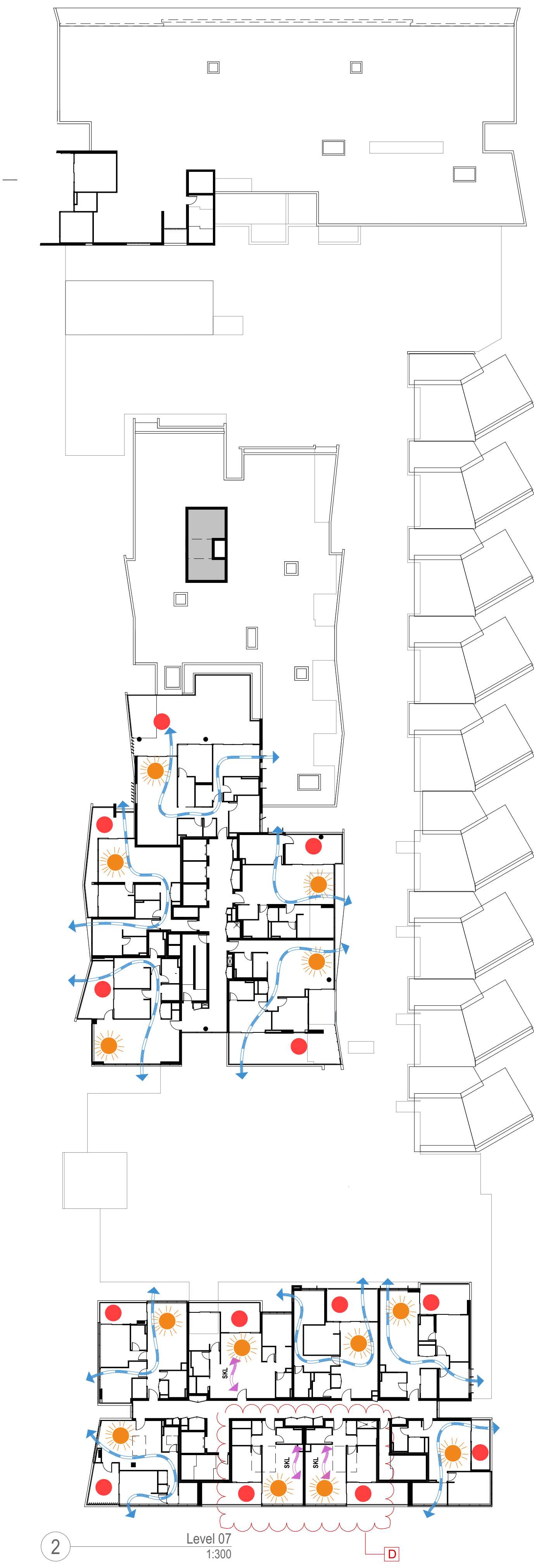
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GA Elevation
West Elevations

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F	16/08/16 JM	DA Issue		
Rev.	Date	Approved by	Revision Notes	
Scale		Project No.	Drawn by	North
1:200, 1:100 @ B1		14003	turner	
Status		Dwg No.	Rev	
For Information		A-DA-210-040		G

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- Legend - Apartment Amenity**
- Natural Cross Ventilation
 - Solar access to living area
Minimum of 2 hours between 9am - 3pm
 - Solar access to living area
Minimum of 1 hour between 9am - 3pm
 - Solar access to living area
Minimum of 15 minutes between 9am - 3pm
 - Solar access to balcony
Minimum of 2 hours between 9am - 3pm
 - Cross Ventilation via roof light
- Note:
Analysis includes shadows cast from approved Stage 1 and 2 development

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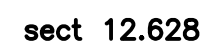
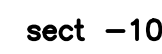
CLIENT
Bluestone Capital Ventures No. 1 Pty Ltd
Suite 1/ Level 6, 71 Macquarie Street Sydney
NSW 2000 Australia

Project Title
Wooloware Bay Town Centre Residential Stage 3
Captain Cook Drive Cronulla NSW 2230 Australia

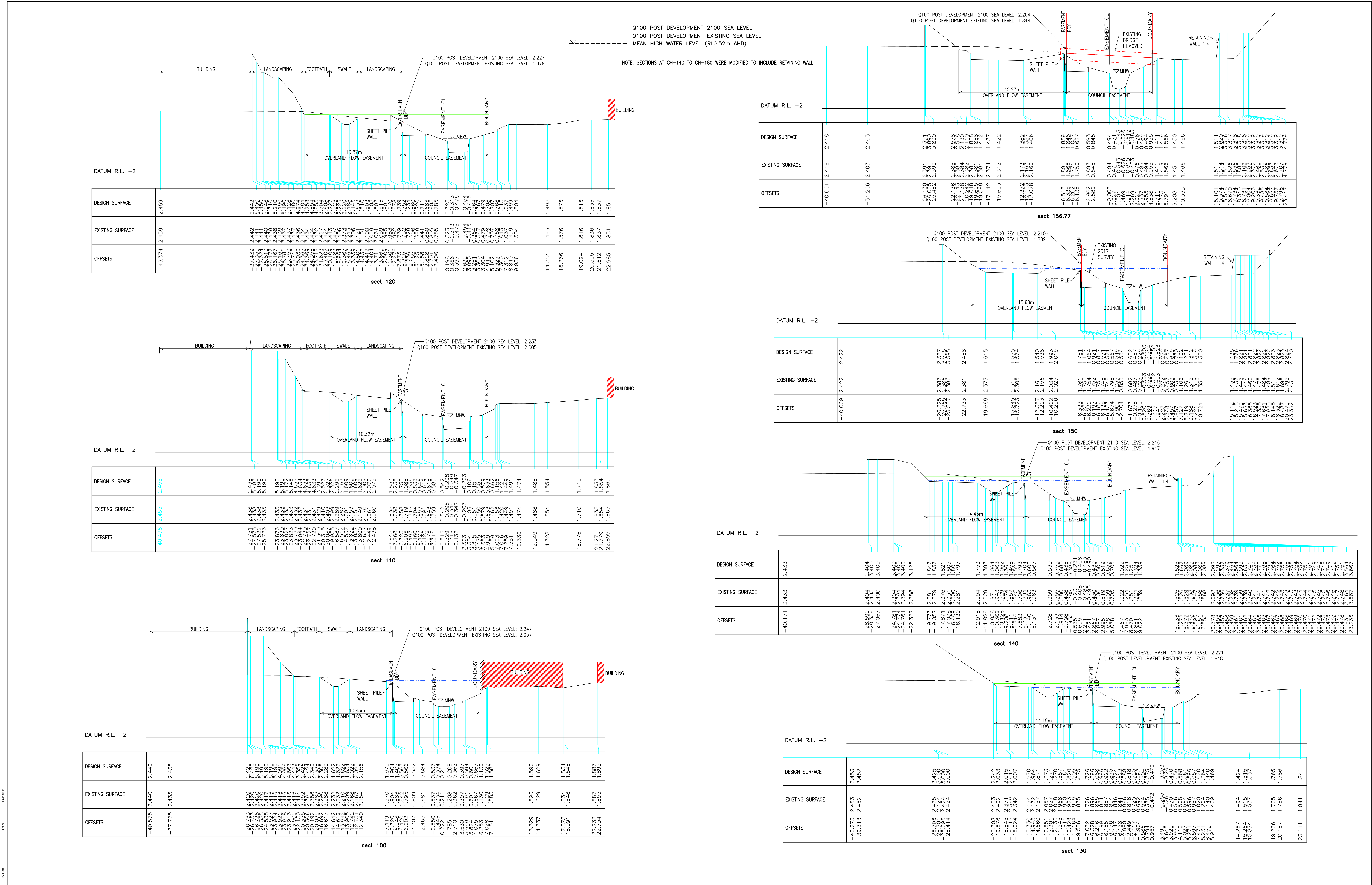
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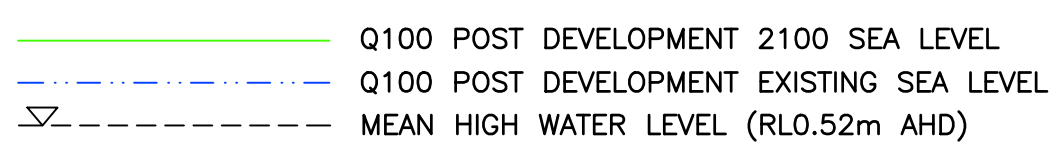
ANALYSIS DIAGRAMS
Apartment Amenity Diagrams 03

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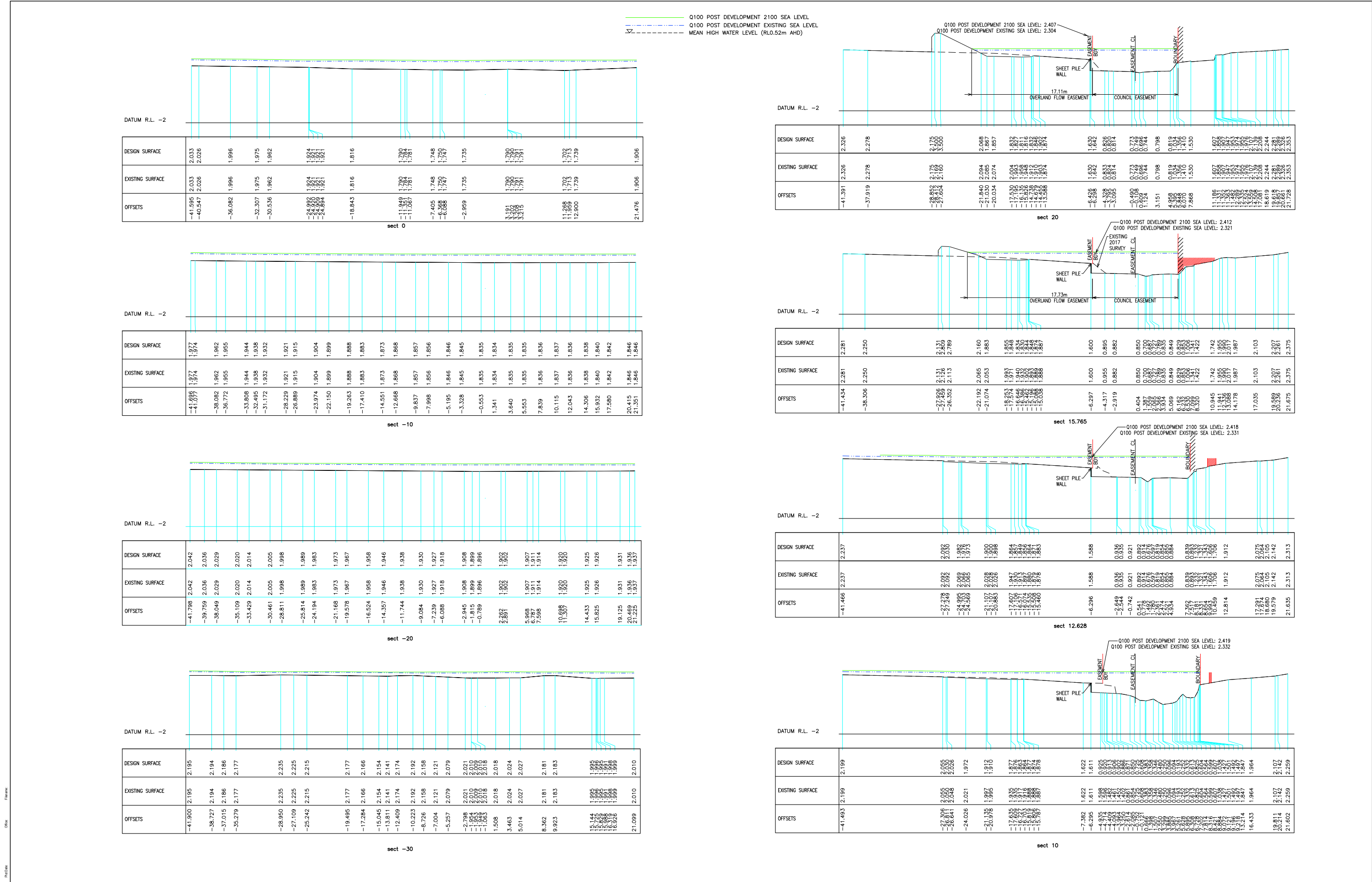


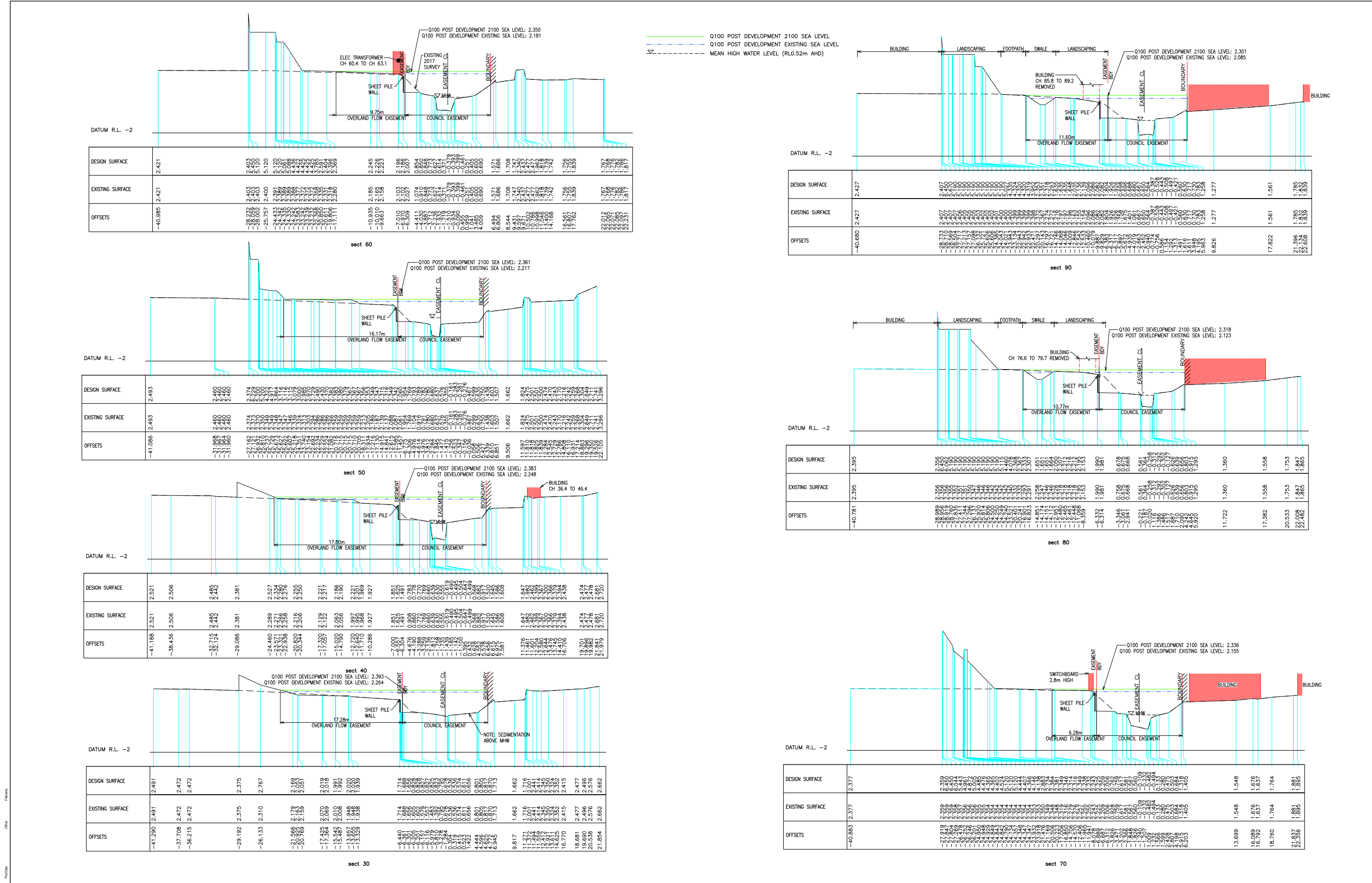


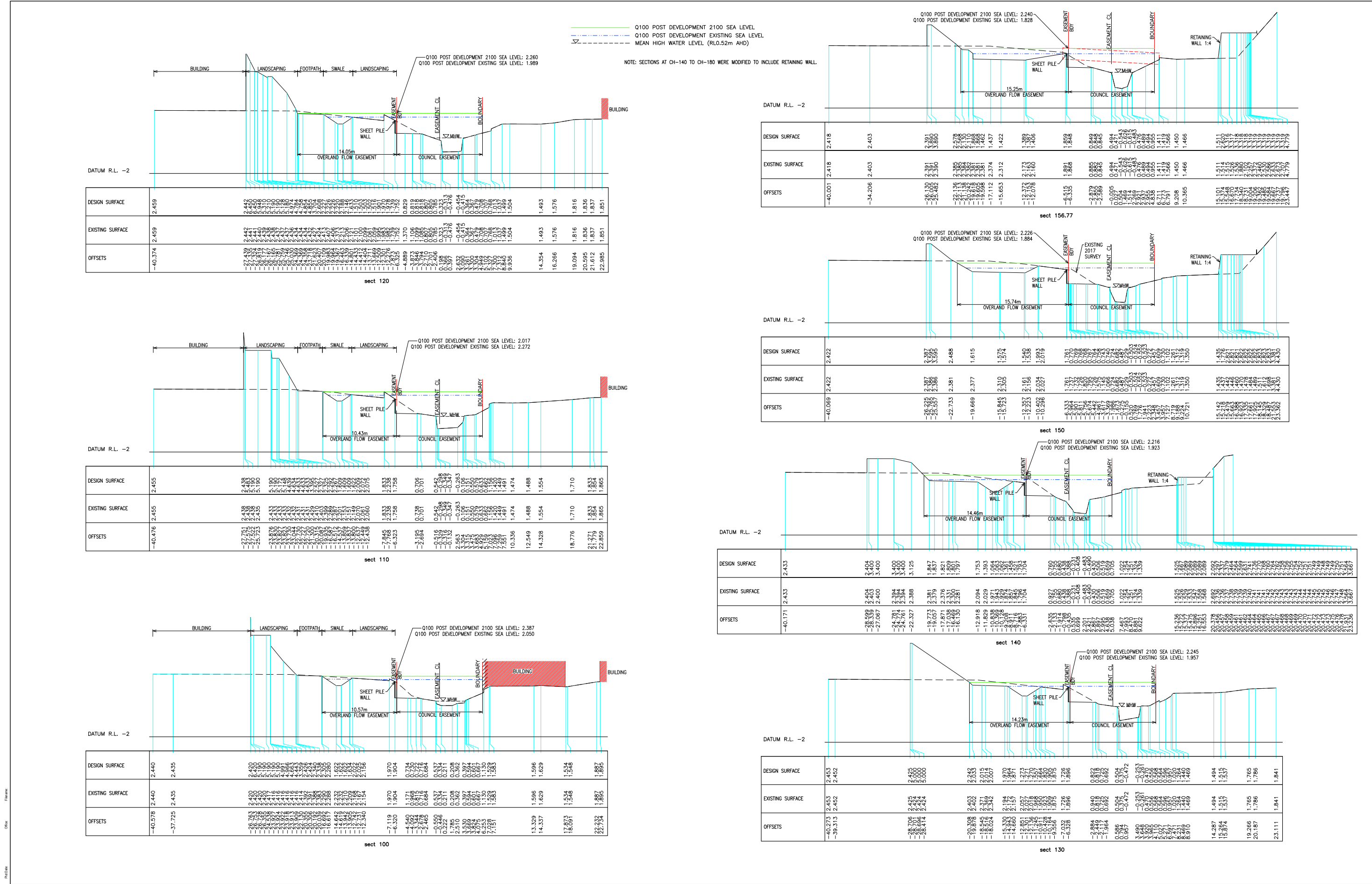


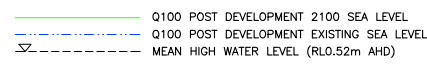
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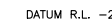
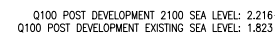
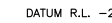
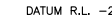


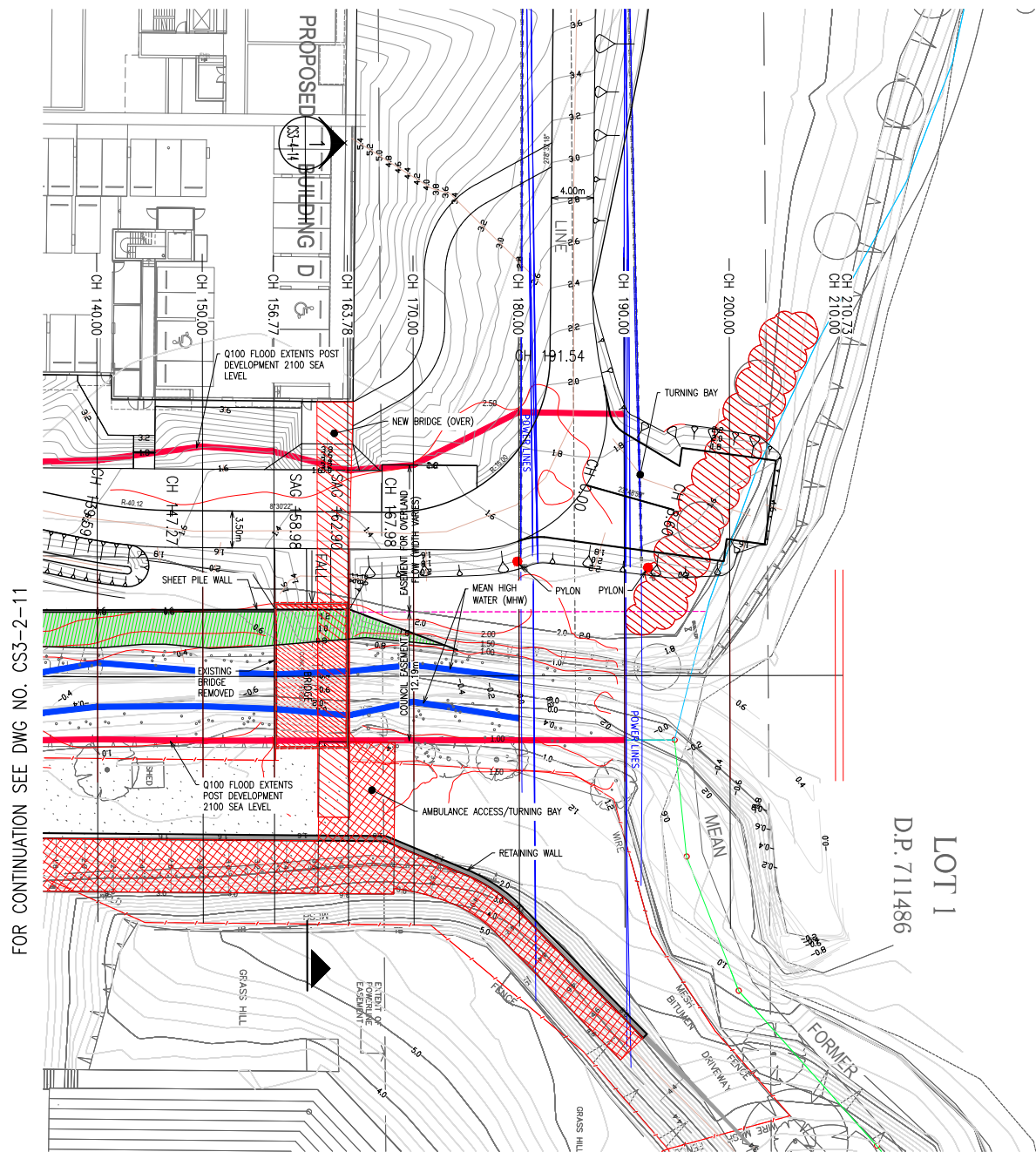






NOTE: SECTIONS AT CH-140 TO CH-180 WERE MODIFIED TO INCLUDE RETAINING WALL





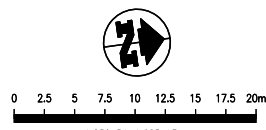
FLOOD EXTENTS PLAN (2017 SURVEY 2)
DESIGN (POST DEVELOPMENT)
1:250



AREA OF PROPOSED CHANNEL BANK EXCAVATION

NOTE: SHEET PILE WALLING TO BE LOCATED OUTSIDE COUNCIL DRAINAGE EASEMENT

DETAILED SURVEY BY:
- SURVEY BY HARRISON FRIEDMANN & ASSOCIATES PTY LTD
DATED 2016-01-25 (SURVEY POINTS IN BLACK). CAD FILE NAME:
40966DT_DET_V16.6.DWG (2011) INCORPORATING CHANNEL SURVEY
DONE IN 2017-06-21 (SURVEY POINTS AND LINES IN RED).



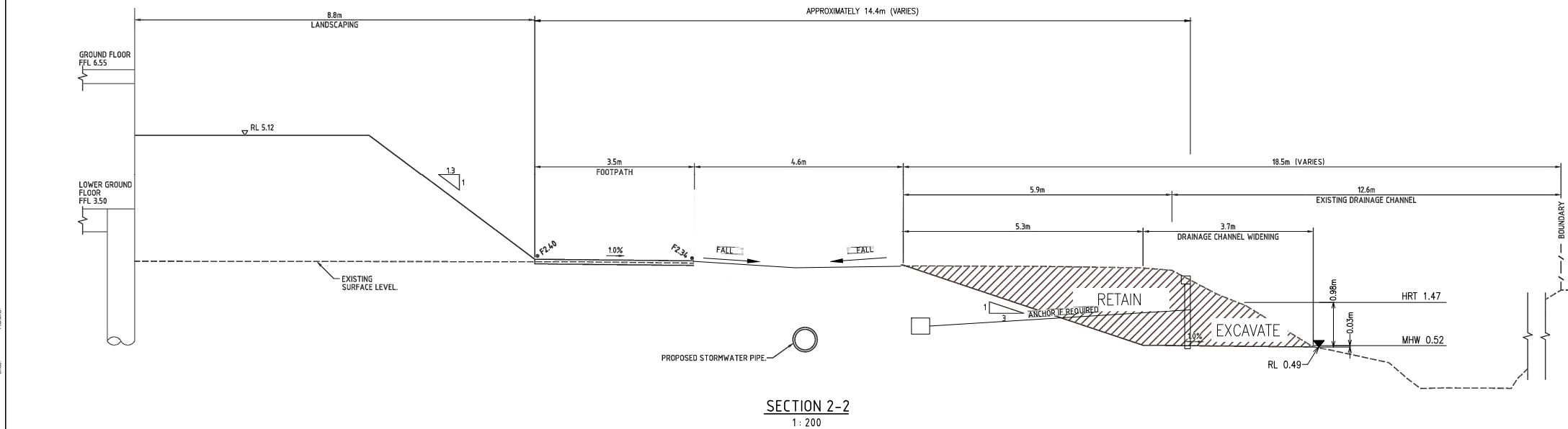
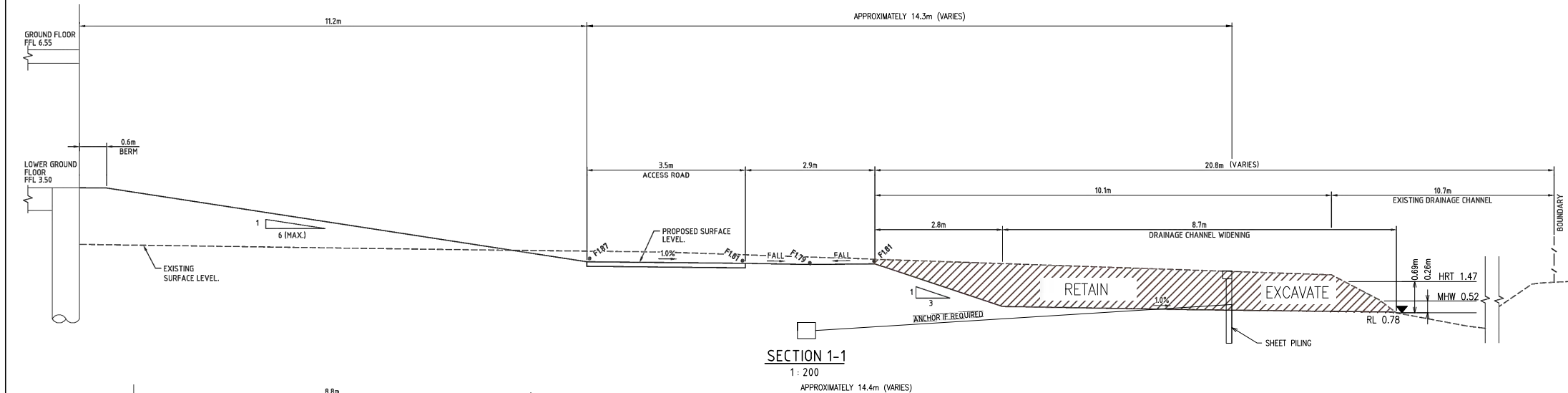
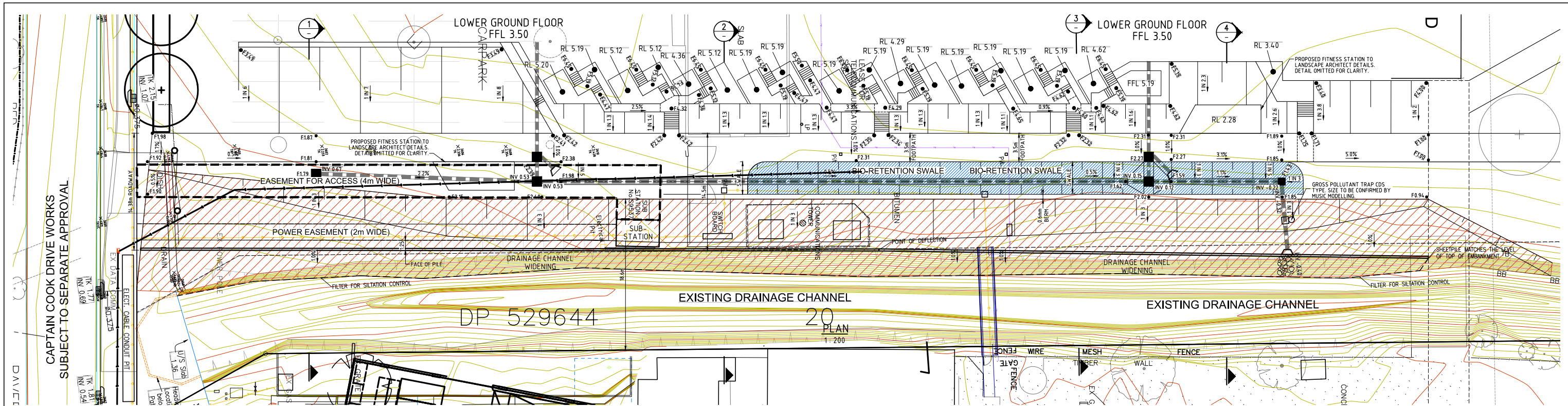
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DRAWN	APPROVAL
WC	CV

SCALE	SIZE
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DRAWN	
WC	
DESIGNED	
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CHECKED	
CV	

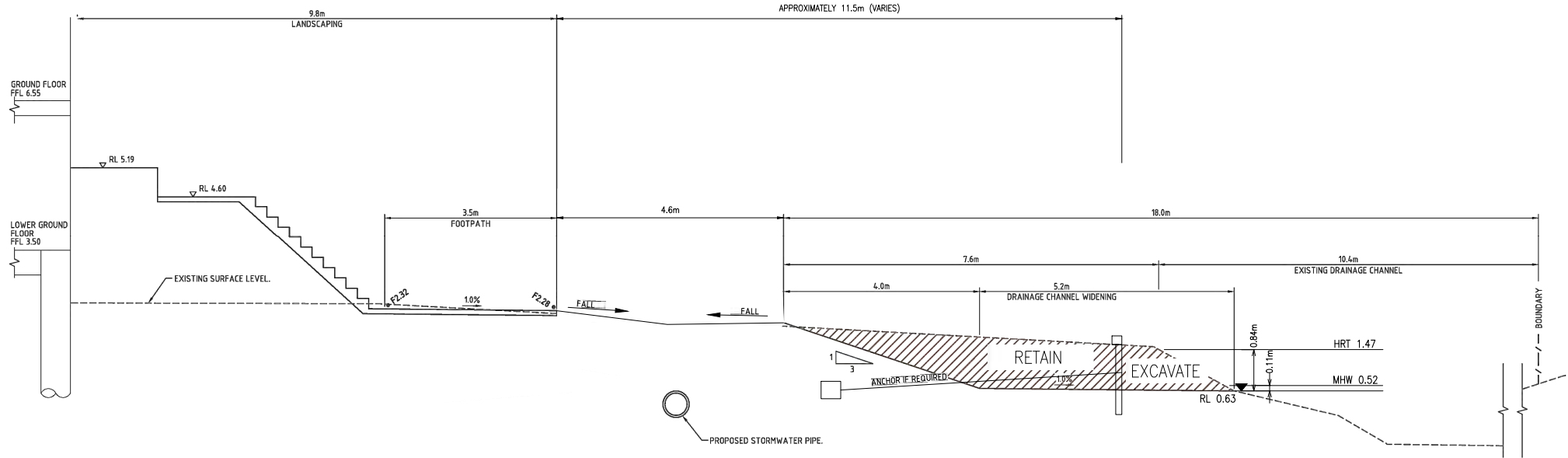
PRELIMINARY FOR COORDINATION
APPROVED
DATE 21/08/17

PROJECT	WOOLLOOWARE BAY CIVIL - STAGE 3
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JOB No.	16-000464
DRAWING No.	CS3-2-12
REV	A

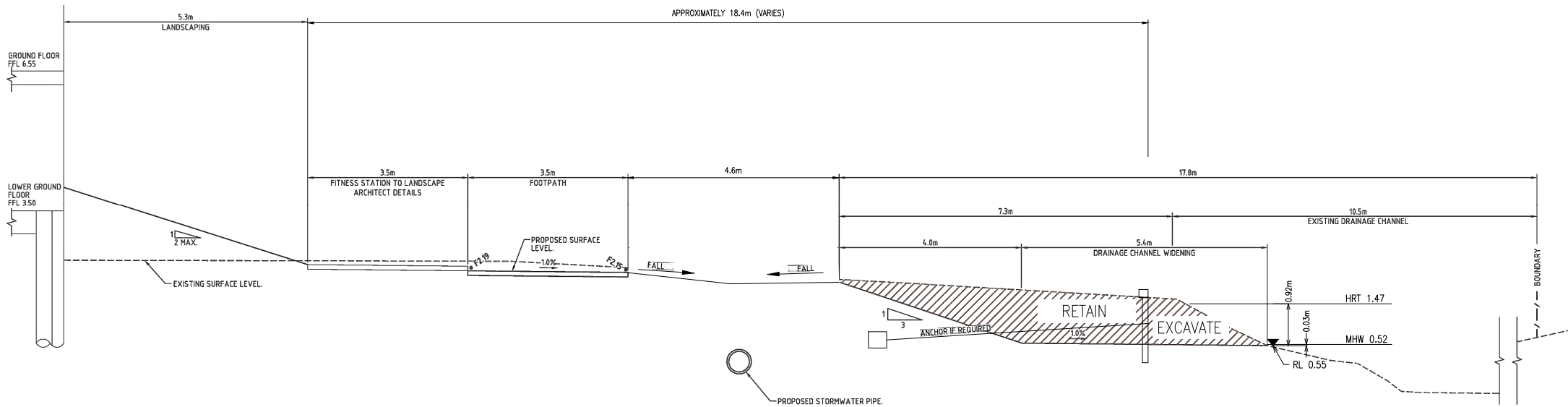


LEGEND	
	STORMWATER PIPE
	HEADWALL
	SURFACE INLET PIT
	PROPOSED PEDESTRIAN HANDRAIL TO LANDSCAPE ARCHITECTS DETAILS.
	BIO-RETENTION SWALE
	EXISTING DRAINAGE CHANNEL WIDENING EARTHWORKS VOLUME 1,208m³
	FILTER FOR SILTATION CONTROL (REMOVE ON COMPLETION)
	GROSS POLLUTANT TRAP
MHW	MEAN HIGH WATER (AHD)
HRT	HIGHEST RECORDED TIDE (AHD)

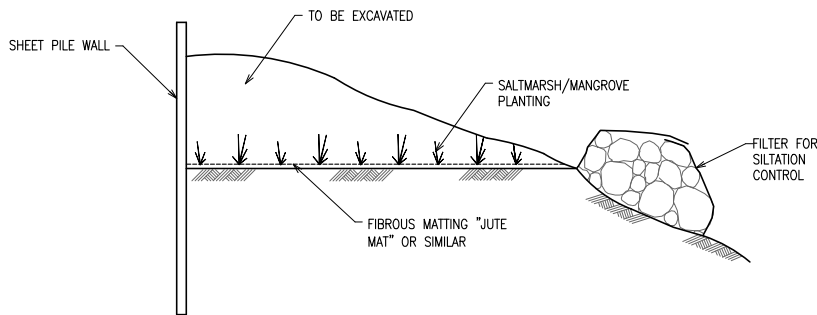
 Calibre Consulting (NSW) Pty Ltd Consulting Engineers Structural - Civil Level 7, 601 Pacific Highway, St Leonards, NSW 2055, Australia Tel +61 2 9004 8855 www.calibreconsulting.com				<table><thead><tr><th>REV</th><th>DATE</th><th>REVISION DETAILS</th><th></th><th>APPROVAL</th></tr></thead><tbody><tr><td>A</td><td>02.09.16</td><td>FOR DISCUSSION</td><td>WC</td><td>CV</td></tr><tr><td>B</td><td>18.11.2016</td><td>FOR DISCUSSION</td><td>NE</td><td>CV</td></tr><tr><td>C</td><td>21.11.2016</td><td>ISSUED FOR FLOOD MODELLING</td><td>NE</td><td>CV</td></tr><tr><td>D</td><td>15.02.2017</td><td>POLLUTION CONTROLS UPDATED</td><td>JMT</td><td>CV</td></tr><tr><td>E</td><td>17.02.2017</td><td>DIMENSIONS UPDATED</td><td>JMT</td><td>CV</td></tr></tbody></table>	REV	DATE	REVISION DETAILS		APPROVAL	A	02.09.16	FOR DISCUSSION	WC	CV	B	18.11.2016	FOR DISCUSSION	NE	CV	C	21.11.2016	ISSUED FOR FLOOD MODELLING	NE	CV	D	15.02.2017	POLLUTION CONTROLS UPDATED	JMT	CV	E	17.02.2017	DIMENSIONS UPDATED	JMT	CV	<table><thead><tr><th>SCALE</th><th>SIZE</th></tr></thead><tbody><tr><td>1:200 (B1)</td><td>B1</td></tr><tr><th>DRAWN</th><td></td></tr><tr><th>DESIGNED</th><td></td></tr><tr><th>CHECKED</th><td></td></tr></tbody></table>	SCALE	SIZE	1:200 (B1)	B1	DRAWN		DESIGNED		CHECKED		<table><thead><tr><th>TENDER</th></tr></thead><tbody><tr><td>NOT FOR CONSTRUCTION</td></tr><tr><th>APPROVED</th><td>DATE</td></tr></tbody></table>	TENDER	NOT FOR CONSTRUCTION	APPROVED	DATE	<table><thead><tr><th>PROJECT</th></tr></thead><tbody><tr><td>WOOLLOOWARE BAY CIVIL</td></tr><tr><th>TITLE</th><td>PROTECTION OF AUSGRID PLAN</td></tr><tr><th>JOB No.</th><td></td></tr></tbody></table>	PROJECT	WOOLLOOWARE BAY CIVIL	TITLE	PROTECTION OF AUSGRID PLAN	JOB No.		<table><thead><tr><th>DRAWING No.</th></tr></thead><tbody><tr><td>179</td></tr><tr><td>SKC-24</td></tr></tbody></table>	DRAWING No.	179	SKC-24	<table><thead><tr><th>CIVIL</th></tr></thead><tbody><tr><td></td></tr></tbody></table>	CIVIL	
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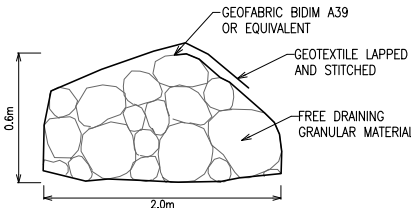
SECTION 3-3
1: 200



SECTION 4-4
1: 200



DETAIL SECTION
NTS



SILTATION FILTER DETAIL
NTS

LEGEND	
	STORMWATER PIPE
	HEADWALL
	SURFACE INLET PIT
	PROPOSED PEDESTRIAN HANDRAIL TO LANDSCAPE ARCHITECTS DETAILS
	BIO-RETENTION SWALE
	EXISTING DRAINAGE CHANNEL WIDENING EARTHWORKS VOLUME 1,208m³
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HRT	HIGHEST RECORDED TIDE (AHD)

REV	DATE	REVISION DETAILS
A	18.11.2016	FOR DISCUSSION
B	21.11.2016	ISSUED FOR FLOOD MODELLING
C	15.02.2017	SILTATION FILTER DETAILS ADDED
D	17.02.2017	DIMENSIONS UPDATED

APPROVAL	DATE
NE	CV
NE	CV
JMT	CV
JMT	CV

SCALE	SIZE
B1	B1
DRAWN	
DESIGNED	
CHECKED	

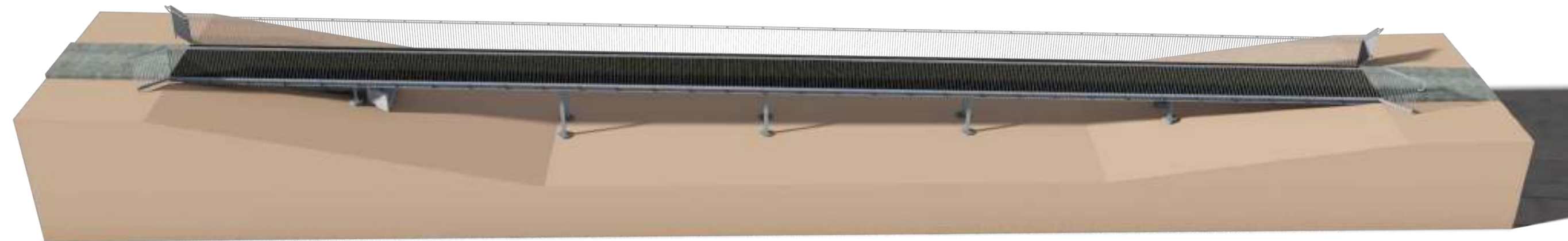
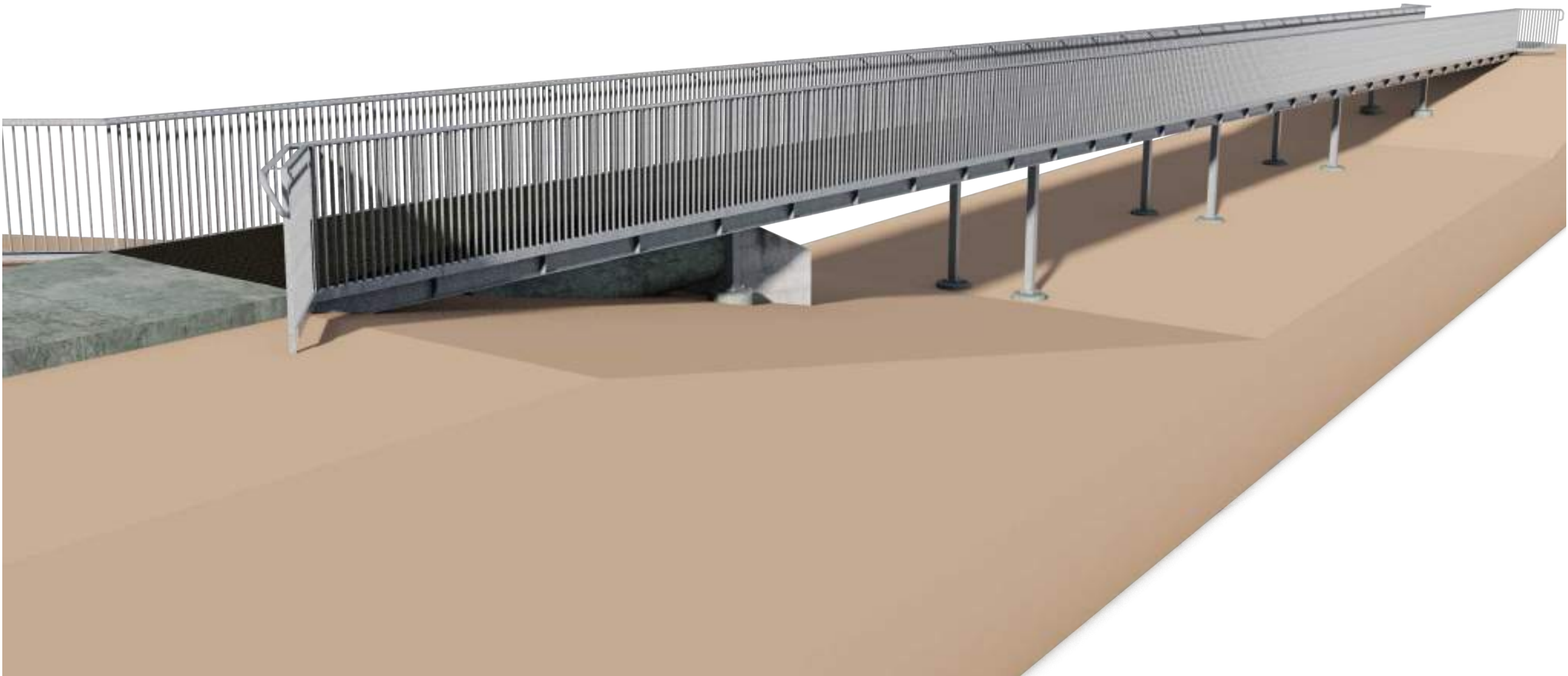
TENDER	NOT FOR CONSTRUCTION
APPROVED	DATE

PROJECT	WOOLLOOWARE BAY CIVIL
TITLE	SECTIONS AND DETAILS
JOB No.	SKC-29
DRAWING No.	180
DATE	D

Note: This schedule has been prepared with reference to Turner Architects DA issue drawings dated 27/09/16

Woolooware Bay Residential Stage 3_Indicative Precinct Plan Summary_Rev. P

														<15min																														
		Level	1B	1B+M	1B+Ut	1B+Sty	2B	2B+M	2B+Ut	2B+Sty	3B	3B+Ut	3B+Sty	3B Prem	Cross v	Solar	direct sun midwinter	Adapt	Livable (Silver)	South	NSA internal	NSA external*	NSA**	Total Eff. (NSA internal/GFA)	Total GFA**	Total GBA*	Total Eff. (GFA/GBA)																	
Building Shared Carpark		Lower Gr																									6,514	3,786																
		Gr																								52	93																	
Building A		Lower Gr																								11	57	55%																
56		Gr																								11	57	19%																
apartments		L1	0	0	3	2	1	1	1	0	0	0	0	0	4	5	3	2	2	2	506	204	710	83%	609	925	66%																	
		L2	0	0	2	2	1	1	2	0	0	0	0	0	5	5	3	2	2	2	535	111	646	85%	628	842	75%																	
		L3	0	0	2	2	1	1	2	0	0	0	0	0	5	5	3	2	2	2	535	111	646	85%	628	842	75%																	
		L4	0	0	2	2	1	1	2	0	0	0	0	0	5	5	3	2	2	2	535	111	646	85%	628	842	75%																	
		L5	0	0	2	2	1	1	2	0	0	0	0	0	5	6	2	1	2	2	535	111	646	85%	628	842	75%																	
		L6	0	0	2	2	1	1	2	0	0	0	0	0	5	6	2	1	1	2	535	111	646	85%	628	842	75%																	
		L7	0	0	2	2	1	1	2	0	0	0	0	0	8	8	0	1	1	0	535	111	646	85%	627	842	74%																	
		L8 plant																							0	49	0%																	
Building B		Lower Gr																								21	51	42%																
118		Gr	0	0	1	0	0	0	4	0	0	0	0	0	0	3	0	0	0	0	371	147	518	68%	545	987	55%																	
apartments		L1	0	0	6	0	1	2	4	0	0	0	0	0	6	6	1	4	4	0	907	406	1,313	83%	1,094	1,736	63%																	
		L2	0	1	7	0	1	2	3	0	0	0	0	0	8	8	1	4	7	0	933	154	1,087	83%	1,123	1,422	79%																	
		L3	0	1	7	0	1	2	3	0	0	0	0	0	8	9	1	4	7	0	933	154	1,088	83%	1,123	1,422	79%																	
		L4	0	1	7	0	1	2	3	0	0	0	0	0	8	9	1	4	7	0	933	154	1,088	83%	1,123	1,422	79%																	
		L5	0	1	7	0	1	2	3	0	0	0	0	0	8	9	1	4	7	0	933	154	1,088	83%	1,123	1,422	79%																	
		L6	0	1	7	0	1	2	3	0	0	0	0	0	11	13	0	4	7	0	933	154	1,088	83%	1,123	1,422	79%																	
		L7	0	0	0	0	0	0	4	0	0	1	0	0	5	5	0	0	0	0	457	183	639	87%	524	845	62%																	
		L8	0	0	0	0	0	0	4	0	0	1	0	0	5	5	0	0	0	0	460	87	547	88%	524	724	72%																	
		L9	0	0	0	0	0	0	4	0	0	1	0	0	5	5	0	0	0	0	461	87	549	88%	523	724	72%																	
		L10	0	0	0	0	0	0	4	0	0	1	0	0	5	5	0	0	0	0	460	87	547	88%	524	724	72%																	
		L11	0	0	0	0	0	0	4	0	0	1	0	0	5	5	0	0	0	0	461	87	549	87%	528	724	73%																	
		L12	0	0	0	0	0	0	4	0	0	0	0	0	4	3	0	0	0	0	350	66	416	84%	417	699	60%																	
		L13	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	142	28	170	93%	153	282	54%																	
Building C		LG																																										
9		Gr	0	0	0	0	0	0	0	0	0	0	9	0	9	9	0	0	0	0	1,125	546	1,671		1,151	1,590	72%																	
apartments		L1																																										
Building D		Lower Gr																								14	63	22%																
55		Gr	0	0	3	1	0	0	2	0	0	0	1	0	2	5	0	1	2	0	506	147	653	76%	661	970	68%																	
apartments		L1	0	0	1	1	0	0	3	1	0	0	2	0	5	6	1	2	3	1	678	263	941	87%	781	1,175	66%																	
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		L6	0	0	1	1	0	0	3	1	0	0	2	0	8	8	0	2	3	1	678	145	824	87%	780	1,040	75%																	
		L7 plant																							0	122	0%																	
Total Residential (exclude carpark)			0	5	66	21	13	19	80	6	2	5	20	1	160	178	26	48	71	18	18,151	4,505	22,655	84.7%	21,420	29,884																		
			0.0%	2.1%	27.7%	27.7%	5.5%	8.0%	33.6%	2.5%	1%	2%	8.4%	0.4%																														
Total 1B			92				Total 2B				118				Total 3B				28																									
mix			38.7%				49.6%				11.8%																																	
min/max requirement																									67%	75%	11%	20%	30%	8%														
																									60%	70%	15%	20%	30%	10%														
Total Units			238																																									
Community (Workshop) incl. Storage			Gr																																									
Retail/Commercial			LG																																									
Resident Community Room			L13																																									
Total Non-Residential																																												
Total																																												
Total including car park																																												
Average areas			1B		52.16																																							
			2B		81.53																																							
			3B		119.36																																							



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CAPITAL BLUESTONE



ARCHITECT

FLEETWOOD URBAN



PROJECT

**WOOLLOOWARE BAY
TOWN CENTRE (P1),
PEDESTRIAN BRIDGE**

PRODUCT

**50m BALMORAL™
BRIDGE**

3D PRODUCT DRAWING



SSPP (Sydney South) Business Paper Appendices - (29 November 2017) (2016SYE090) (DA16/11068)



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FLEETWOOD URBAN



PROJECT

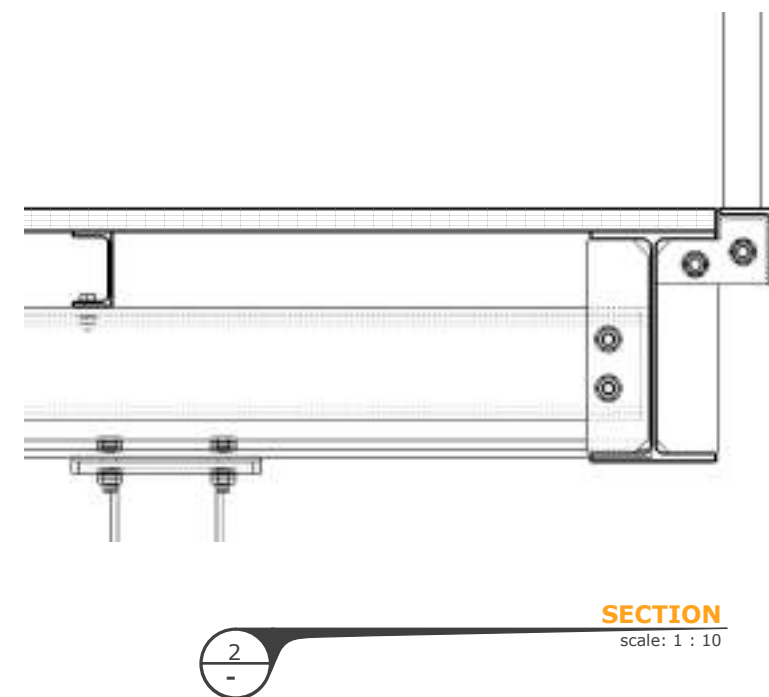
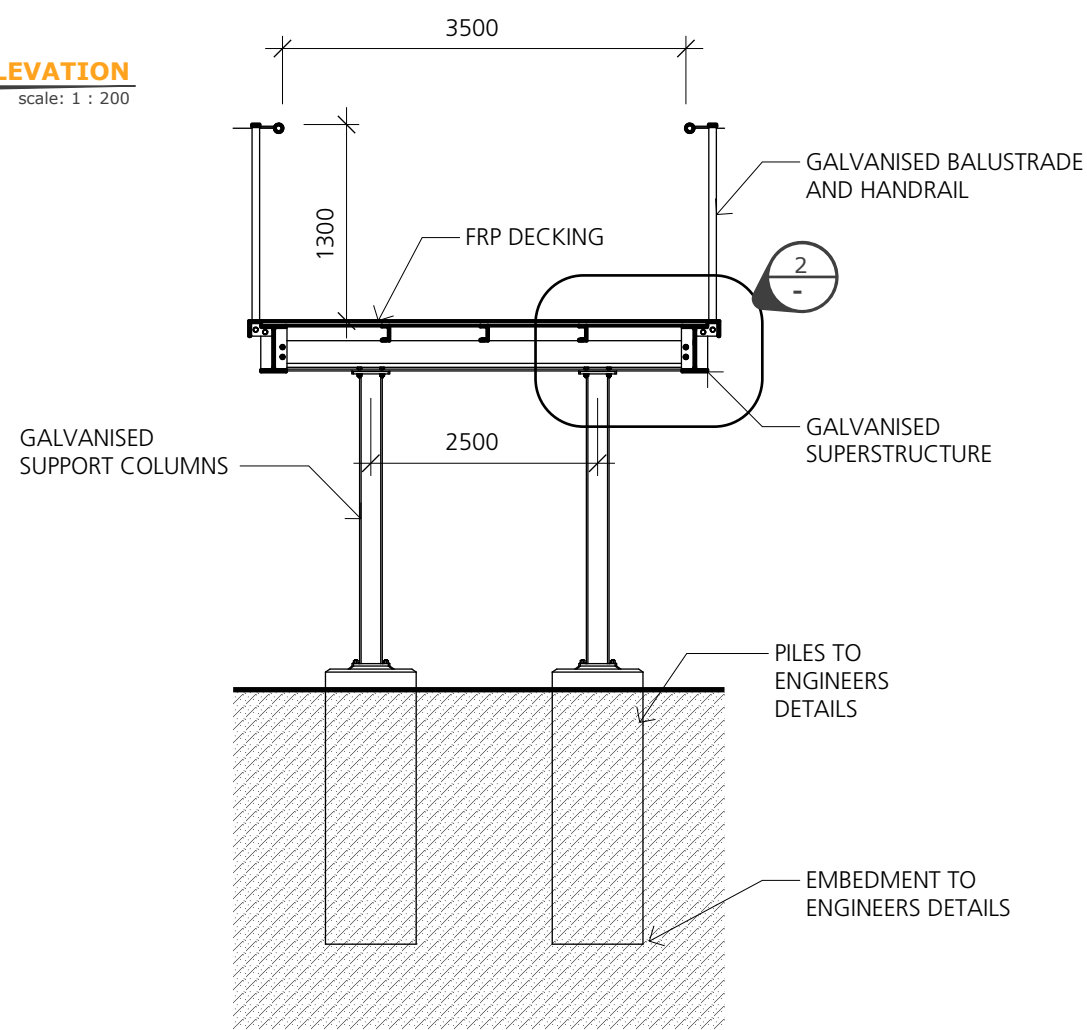
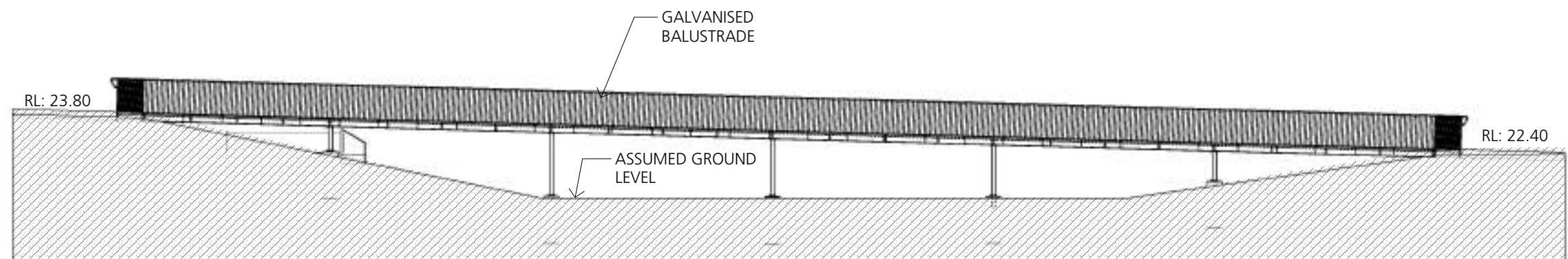
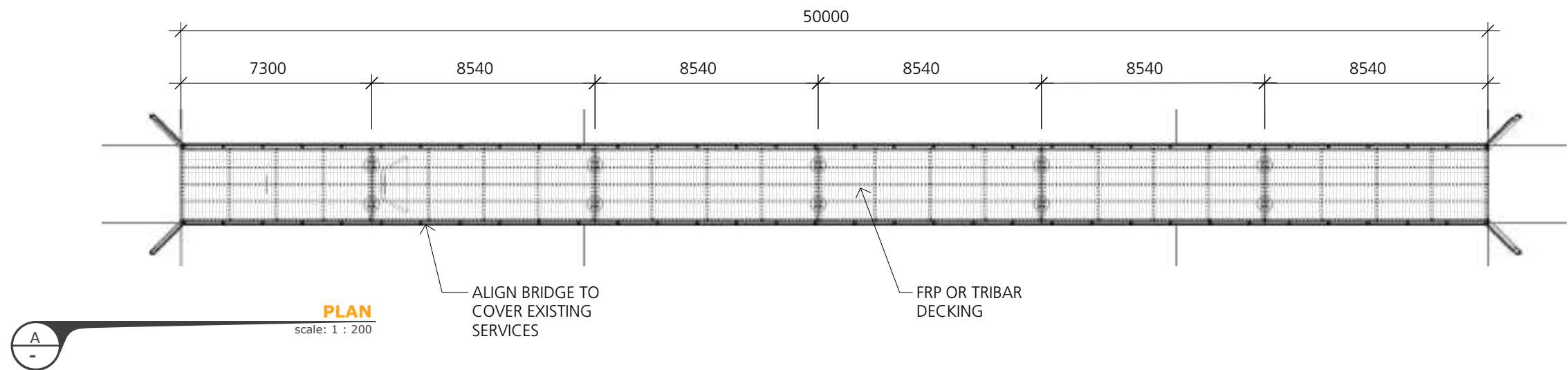
**WOOLLOOWARE BAY
TOWN CENTRE (P1),
PEDESTRIAN BRIDGE**

PRODUCT

**50m BALMORAL™
BRIDGE**

3D PRODUCT DRAWING

9272¹⁸³ **02**



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PROJECT

**WOOLLOOWARE BAY
TOWN CENTRE (P1),
PEDESTRIAN BRIDGE**

PRODUCT

**50m BALMORAL™
BRIDGE**

3D PRODUCT DRAWING

Woollooware Bay Town Centre

Foreshore Park - DA

Stage A1 / Stage A2 / Stage B

Development Application Package

PREPARED FOR:
CAPITAL BLUESTONE

PREPARED BY:
HABIT8 PTY LTD

DRAWING LIST

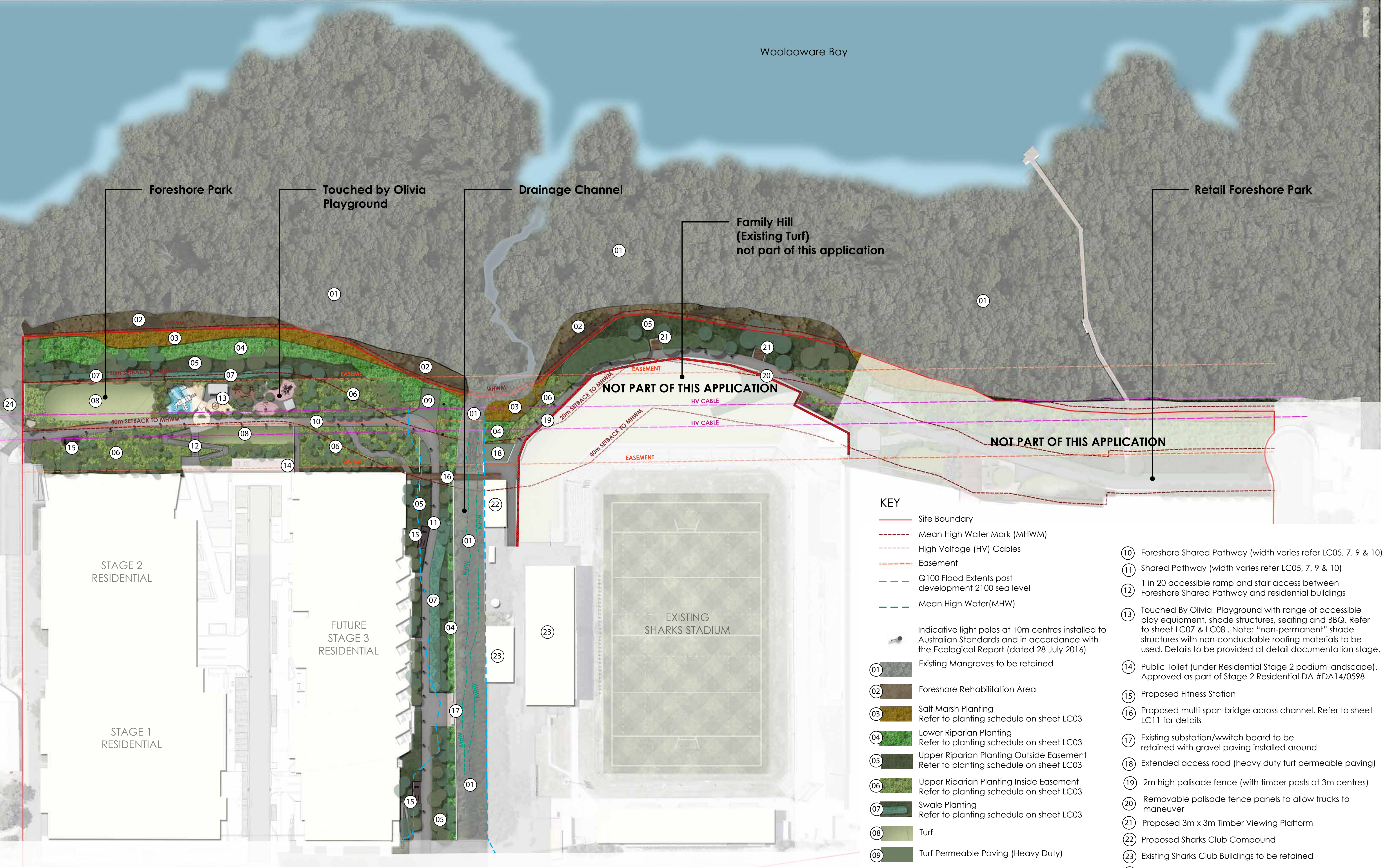
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LC00	COVER SHEET	NTS	NTS
LC01	LANDSCAPE MASTER PLAN	1:700@A1	1:1400@A3
LC02	LANDSCAPE STAGING PLAN	1:700@A1	1:1400@A3
LC03	INDICATIVE PLANTING STRATEGY PLAN	1:700@A1	1:1400@A3
LC04	LANDSCAPE CALCULATIONS PLAN	NTS	NTS
LC05	STAGE A1- LANDSCAPE CONCEPT PLAN	1:200@A1	1:400@A3
LC06	STAGE A1- LANDSCAPE CROSS SECTIONS	1:100@A1	1:400@A3
LC07	STAGE A1- PLAYGROUND LANDSCAPE PLAN	1:100@A1	1:200@A3
LC08	STAGE A1- PLAYGROUND CROSS SECTIONS	1:100@A1	1:200@A3
LC09	STAGE A2- LANDSCAPE CONCEPT PLAN	1:500@A1	1:1000@A3
LC10	STAGE B- LANDSCAPE CONCEPT PLAN	1:500@A1	1:1000@A3
LC11	STAGE B- LANDSCAPE CROSS SECTIONS	1:100@A1	1:200@A3
LC12	TYPICAL LANDSCAPE CONSTRUCTION & BRIDGE DETAILS	AS SHOWN	AS SHOWN
LC13	LANDSCAPE SPECIFICATION NOTES AND MAINTENANCE PROGRAM	NTS	NTS



KEY PLAN (NTS)



Client	Project	Project No.	Rev.	Drawn	Date	Purpose
	Woollooware Bay Town Centre	17-056W	D	AG	22.09.17	DA SUBMISSION
	Title	Drawing No.	Scale	Checked		
	Cover Sheet	LC 00	NTS	JH		

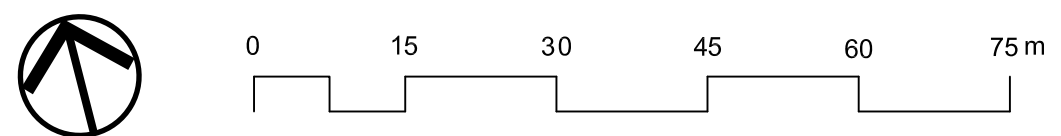


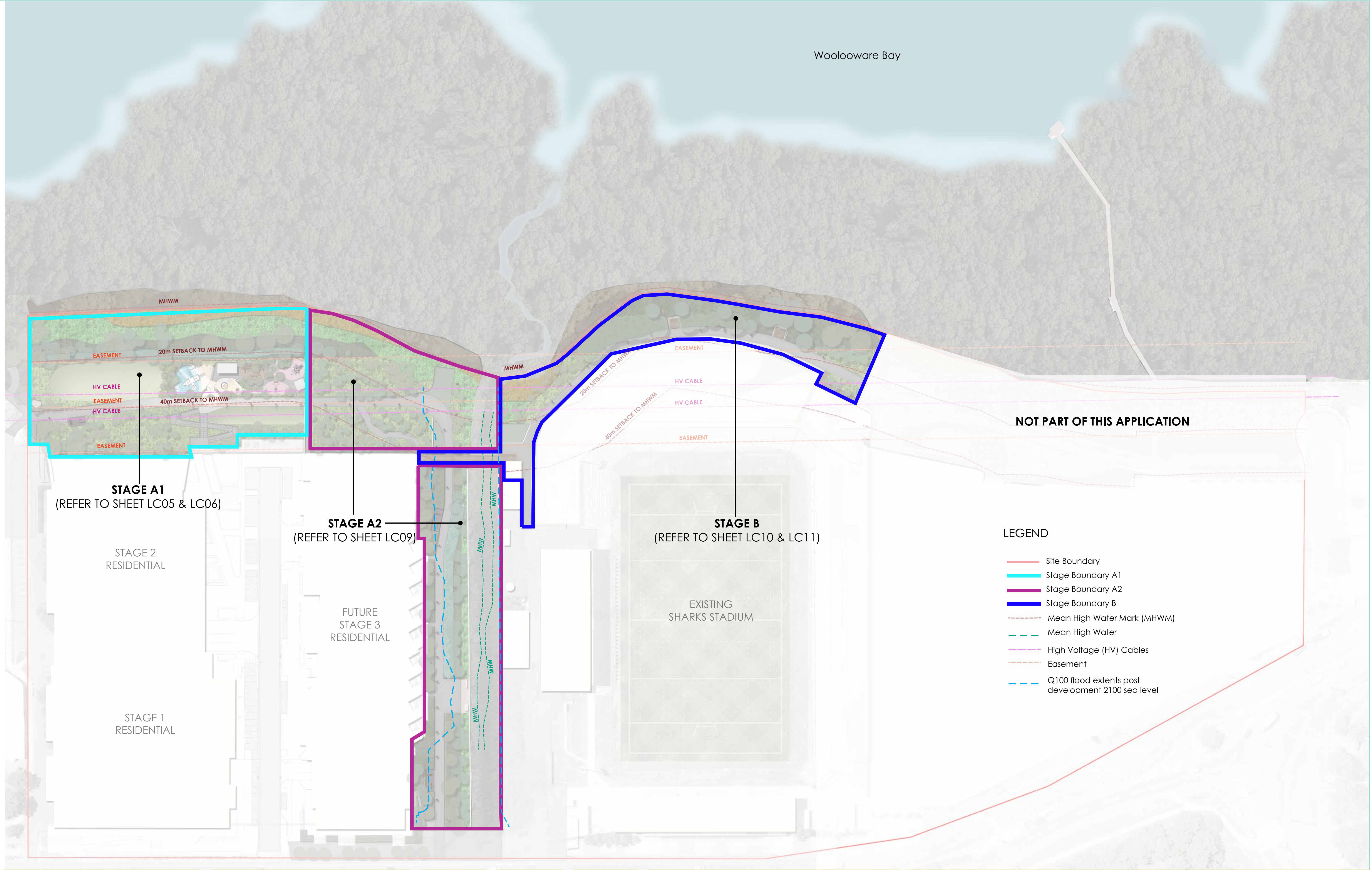
KEY

- Site Boundary
- Mean High Water Mark (MHW)
- High Voltage (HV) Cables
- Easement
- Q100 Flood Extents post development 2100 sea level
- Mean High Water(MHW)
- Indicative light poles at 10m centres installed to Australian Standards and in accordance with the Ecological Report (dated 28 July 2016)
- Existing Mangroves to be retained
- Foreshore Rehabilitation Area
- Salt Marsh Planting
Refer to planting schedule on sheet LC03
- Lower Riparian Planting
Refer to planting schedule on sheet LC03
- Upper Riparian Planting Outside Easement
Refer to planting schedule on sheet LC03
- Upper Riparian Planting Inside Easement
Refer to planting schedule on sheet LC03
- Swale Planting
Refer to planting schedule on sheet LC03
- Turf
- Turf Permeable Paving (Heavy Duty)

- 10 Foreshore Shared Pathway (width varies refer LC05, 7, 9 & 10)
- 11 Shared Pathway (width varies refer LC05, 7, 9 & 10)
- 12 1 in 20 accessible ramp and stair access between Foreshore Shared Pathway and residential buildings
- 13 Touched By Olivia Playground with range of accessible play equipment, shade structures, seating and BBQ. Refer to sheet LC07 & LC08 . Note: "non-permanent" shade structures with non-conductable roofing materials to be used. Details to be provided at detail documentation stage.
- 14 Public Toilet (under Residential Stage 2 podium landscape). Approved as part of Stage 2 Residential DA #DA14/0598
- 15 Proposed Fitness Station
- 16 Proposed multi-span bridge across channel. Refer to sheet LC11 for details
- 17 Existing substation/wwitch board to be retained with gravel paving installed around
- 18 Extended access road (heavy duty turf permeable paving)
- 19 2m high palisade fence (with timber posts at 3m centres)
- 20 Removable palisade fence panels to allow trucks to maneuver
- 21 Proposed 3m x 3m Timber Viewing Platform
- 22 Proposed Sharks Club Compound
- 23 Existing Sharks Club Buildings to be retained
- 24 Heavy Vehicle Access for Council Maintenance Vehicles (To Engineer's Detail)

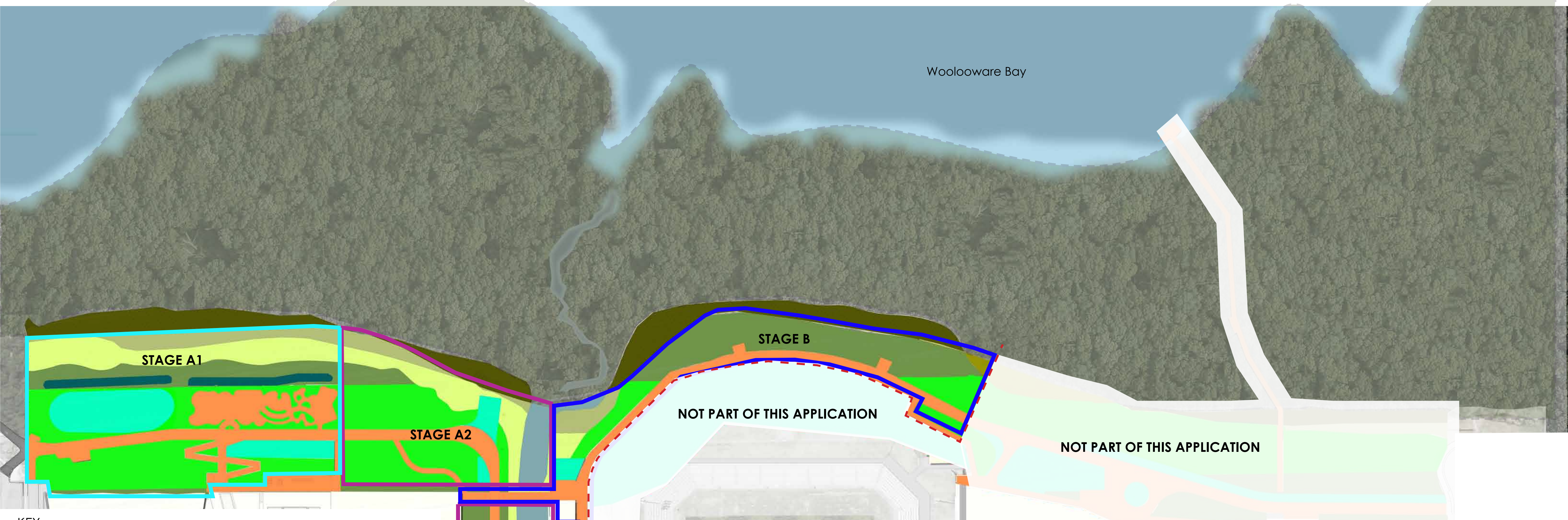
Client	Project	Project No.	Rev.	Drawn	Date	Purpose
CAPITAL BLUESTONE	Woollooware Bay Town Centre	17-056W	D	AG	22.09.17	DA SUBMISSION
	Title	Drawing No.	Scale	Checked		
	Landscape Masterplan	LC 01	1:700@A1	JH		





Client	Project	Project No.	Rev.	Drawn	Date	Purpose
CAPITAL BLUESTONE	Woollooware Bay Town Centre	17-056W	D	AG	22.09.17	DA SUBMISSION

Title	Drawing No.	Scale	Checked	North Arrow	Scale Bar
Landscape Staging Plan	LC 02	1:700@A1	JH		



KEY

- Salt Marsh Planting
- Swale Planting
- Lower Riparian Planting
- Upper Riparian Planting Outside Easement
- Upper Riparian Planting Inside Easement
- Existing Mangroves to be retained(inside Boundary)
- Foreshore Rehabilitation Zone Below MHW
- Turf/Turf Permeable Paving
- Non-Planting Area

PLANT SCHEDULE

ID	BOTANICAL NAME	COMMON NAME	HEIGHT (m)	SIZE (m)	DENSITY
SALT MARSH PLANTING					
GROUND COVER/CLIMBERS					
	<i>Samolus repens</i>	Creeping Brookweed	0.5	Tubestock	4/m2
	<i>Sarcocornia quinqueflora</i>	Samphire	0.3	Tubestock	4/m2
	<i>Suaeda australis</i>	Swampweed	0.5	Tubestock	4/m2
	<i>Zoysia macrantha</i>	Austral Seabite	1	Tubestock	4/m2
	<i>Baumea juncea</i>	Prickly Couch	0.25	Tubestock	4/m2
RUSHES/GRASSES					
	<i>Carex fascicularis</i>	Bare Twig-rush	2	Tubestock	4/m2
	<i>Gahnia clarkii</i>	Tassel Sedge	0.5-1	Tubestock	4/m2
	<i>Juncus kraussii ssp australiensis</i>	Tall Saw-sedge	0.8-2	Tubestock	4/m2
	<i>Sporobolus virginicus</i>	Sea Rush	<1.5	Tubestock	4/m2
	<i>Triglochin striata</i>	Saltwater Couch	0.7	Tubestock	4/m2
		Streaked Arrowgrass	0.3	Tubestock	4/m2
SWALE PLANTING					
TREES					
	<i>Melaleuca quinquenervia</i>	Broad Leaf Paperbark	4	200mm	1/5m2 (as per locations on plan)
SHRUBS					
	<i>Melaleuca ericifolia</i>	Swamp Paperbark	4	200mm	2/m2
	<i>Viminaria juncea</i>	Native Broom		Tubestock	2/m2
RUSHES/GRASSES					
	<i>Baumea articulata</i>	Jointed Twig-rush	1	Tubestock	4/m2
	<i>Carex appressa</i>	Tall Sedge	0.4-1.2	Tubestock	4/m2
	<i>Dianella caerulea</i>	Flax Lily	0.5	Tubestock	4/m2
	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge	0.8-2	Tubestock	4/m2
	<i>Juncus kraussii ssp australiensis</i>	Common Rush	<1.5	Tubestock	4/m2
	<i>Lomandra longifolia</i>	Spiny Headed Mat Rush	1	Tubestock	4/m2
	<i>Philydrium lanuginosum</i>	Woolly Waterlilies	2	Tubestock	4/m2
LOWER RIPARIAN PLANTING					
TREES					
	<i>Casuarina glauca</i>	Swamp Oak	8-20	200mm	1/5m2 (as per locations on plan)
	<i>Cupaniopsis anacardioides</i>	Tuckeroo	12	200mm	1/5m2 (as per locations on plan)
	<i>Melaleuca quinquenervia</i>	Broad Leaved Paperbark	12	200mm	1/5m2 (as per locations on plan)
SHRUBS					
	<i>Acacia longifolia var sophorae</i>	Coastal Wattle	3	200mm	2/m2
	<i>Melaleuca ericifolia</i>	Swamp Paperbark	4	200mm	2/m2
	<i>Viminaria juncea</i>	Native Broom		Tubestock	2/m2
RUSHES/GRASSES					
	<i>Baumea juncea</i>	Bare Twig Rush	1	Tubestock	4/m2
	<i>Carex appressa</i>	Tall Sedge	0.4-1.2	Tubestock	4/m2
	<i>Crinum pedunculatum</i>	Swamp Lily	0.4	Tubestock	4/m2
	<i>Cymbopogon refractus</i>	Barbed Wire Grass	1	Tubestock	4/m2
	<i>Dianella caerulea</i>	Blue Flax Lily	0.5	Tubestock	4/m2
	<i>Imperata cylindrica var. major</i>	Blady Grass	1.2	Tubestock	4/m2
	<i>Isolepis inundata</i>	Swamp Club Sedge	0.3-0.5	Tubestock	4/m2
	<i>Juncus kraussii ssp australiensis</i>	Sea Rush	<1.5	Tubestock	4/m2
	<i>Juncus planifolius</i>	Broad Leaf Rush	0.2-0.6	Tubestock	4/m2
	<i>Juncus usitatus</i>	Common Rush	1	Tubestock	4/m2
	<i>Lomandra longifolia</i>	Ribbon Grass	1	Tubestock	4/m2
	<i>Opilismenus imbecillis</i>	Basket Grass	0.3	Tubestock	4/m2
	<i>Sporobolus virginicus</i>	Saltwater Couch	0.7	Tubestock	4/m2
	<i>Tetragonia tetragonioides</i>	New Zealand Spinach	0.3	Tubestock	4/m2

Note:
All planting species selected are consistent with Coastal Saltmarsh, and Swamp Oak Floodplain Forest vegetation communities, and/or are well represented in similar areas in the Kurnell peninsula

SOURCE	BOTANICAL NAME	COMMON NAME	HEIGHT (m)	SIZE (m)	DENSITY	SOURCE
UPPER RIPARIAN PLANTING (OUTSIDE EASEMENT)						
TREES						
	<i>Acmena smithii</i>	Lily Pilly	15			
	<i>Angophora floribunda</i>	Rough Barked Apple	30	200mm	1/5m2 (as per locations on plan)	
	<i>Banksia serrata</i>	Saw Banksia	12	200mm	1/5m2 (as per locations on plan)	
	<i>Eucalyptus botryoides</i>	Southern Mahogany	40	200mm	1/5m2 (as per locations on plan)	
	<i>Eucalyptus robusta</i>	Swamp mahogany	25	200mm	1/5m2 (as per locations on plan)	
	<i>Ficus rubiginosa</i>	Rusty Fig	40	200mm	1/5m2 (as per locations on plan)	
	<i>Glochidion ferdinandi</i>	Cheese Tree	12	200mm	1/5m2 (as per locations on plan)	
	<i>Melaleuca linariifolia</i>	Snow-in-summer	8	200mm	1/5m2 (as per locations on plan)	
	<i>Melaleuca quinquenervia</i>	Broad Leaved Paperbark	12	200mm	1/5m2 (as per locations on plan)	
SHRUBS						
	<i>Acacia terminalis subsp angustifolia</i>	Sunshine Wattle	6	150mm	2/m2	
	<i>Banksia oblongifolia</i>	Fern-leaved Banksia	2	150mm	2/m2	
	<i>Banksia spinulosa</i>	Hairpin Banksia	1-3	150mm	2/m2	
	<i>Callistemon citrinus</i>	Crimson Bottlebrush	1-3	150mm	2/m2	
	<i>Leptospermum polygalifolium</i>	Tea Tree	4	150mm	2/m2	
	<i>Melaleuca ericifolia</i>	Swamp Paperbark	4	200mm	2/m2	
	<i>Westringia fruticosa</i>	Coastal Rosemary	1.5	150mm	2/m2	
GROUND COVER/CLIMBERS						
	<i>Baekea imbricata</i>	Heath Myrtle	1	Tubestock	4/m2	
	<i>Carpobrotus glaucescens</i>	Pigface	0.15	Tubestock	4/m2	
	<i>Cymbopogon refractus</i>	Barbed Wire Grass	1	Tubestock	4/m2	
	<i>Hardenbergia violacea</i>	Native sarsaparilla	Climber	Tubestock	4/m2	
	<i>Pratia purpurascens</i>	White Root	2	Tubestock	4/m2	
	<i>Scaevola calendulacea</i>	Dune Fan Flower	0.4	Tubestock	4/m2	
RUSHES/GRASSES						
	<i>Dianella caerulea</i>	Blue Flax Lily	0.5	Tubestock	4/m2	
	<i>Dichelachne crinita</i>	Longhair plume grass	1	Tubestock	4/m2	
	<i>Juncus usitatus</i>	Common Rush	1	Tubestock	4/m2	
	<i>Lomandra longifolia</i>	Spiny Head Mat Rush	1	Tubestock	4/m2	
UPPER RIPARIAN PLANTING (INSIDE EASEMENT)						
TREES						
	<i>Melaleuca linariifolia</i>	Snow-in-summer	8	200mm	1/5m2 (as per locations on plan)	
SHRUBS						
	<i>Banksia oblongifolia</i>	Fern-leaved Banksia	2	150mm	2/m2	
	<i>Banksia spinulosa</i>	Hairpin Banksia	1-3	150mm	2/m2	
	<i>Callistemon citrinus</i>	Crimson Bottlebrush	1-3	150mm	2/m2	
	<i>Leptospermum polygalifolium</i>	Tea Tree	4	150mm	2/m2	
	<i>Melaleuca ericifolia</i>	Swamp Paperbark	4	200mm	2/m2	
	<i>Westringia fruticosa</i>	Coastal Rosemary	1.5	150mm	2/m2	
GROUND COVER/CLIMBERS						
	<i>Baekea imbricata</i>	Heath Myrtle	1	Tubestock	4/m2	
	<i>Carpobrotus glaucescens</i>	Pigface	0.15	Tubestock	4/m2	
	<i>Cymbopogon refractus</i>	Barbed Wire Grass	1	Tubestock	4/m2	
	<i>Hardenbergia violacea</i>	Native sarsaparilla	Climber	Tubestock	4/m2	
	<i>Pratia purpurascens</i>	White Root	2	Tubestock	4/m2	
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	<i>Dianella caerulea</i>	Blue Flax Lily	0.5	Tubestock	4/m2	
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	<i>Juncus usitatus</i>	Common Rush	1	Tubestock	4/m2	
	<i>Lomandra longifolia</i>	Spiny Head Mat Rush	1	Tubestock	4/m2	

Client



Project

Woollooware Bay Town Centre

Project No.

17-056W

Rev.

D

Drawn

AG

Date

22.09.17

Purpose

DA SUBMISSION

Title

Indicative Planting Strategy Plan

Drawing No.

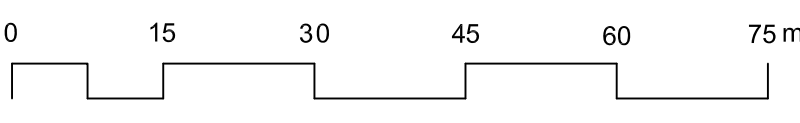
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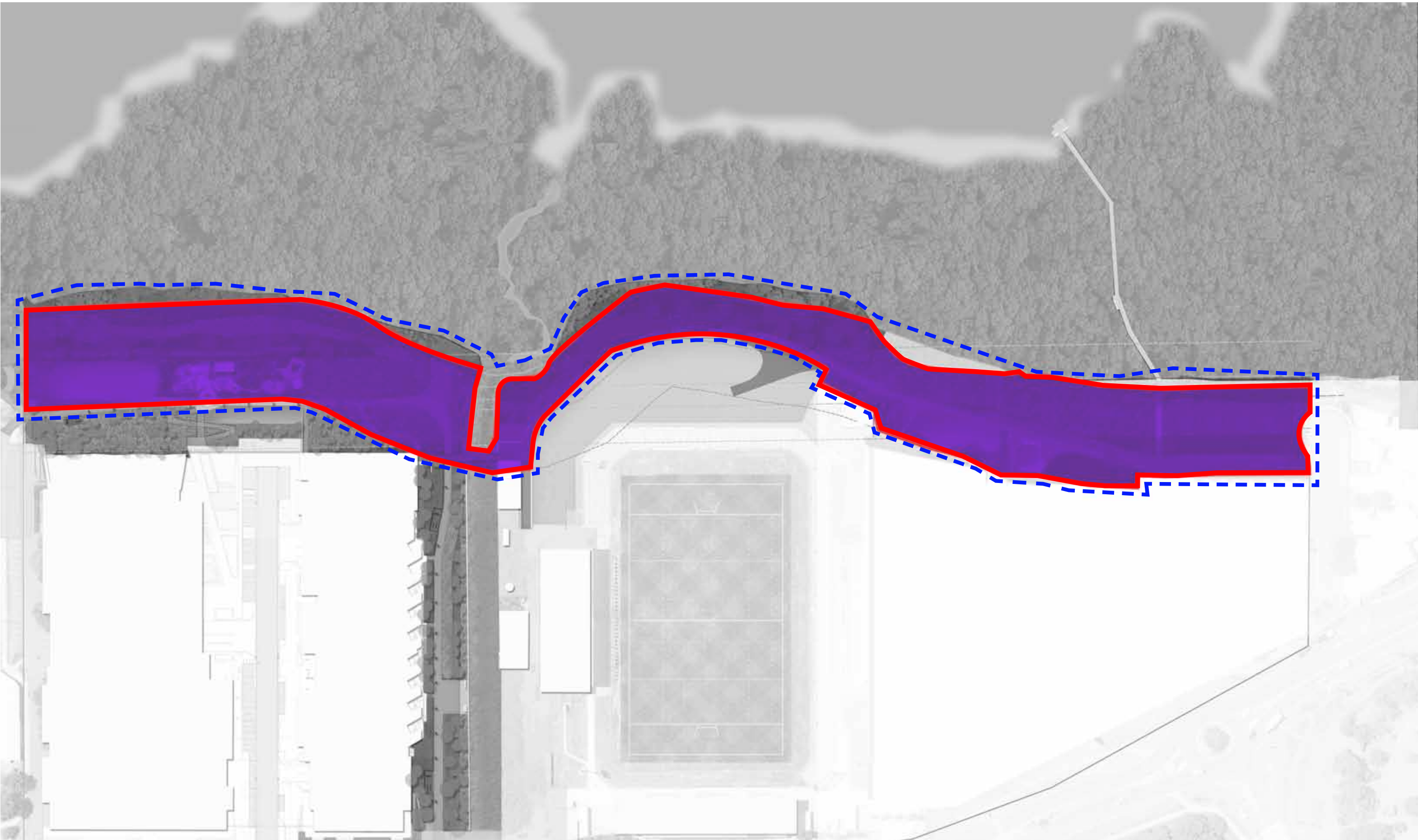
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JH



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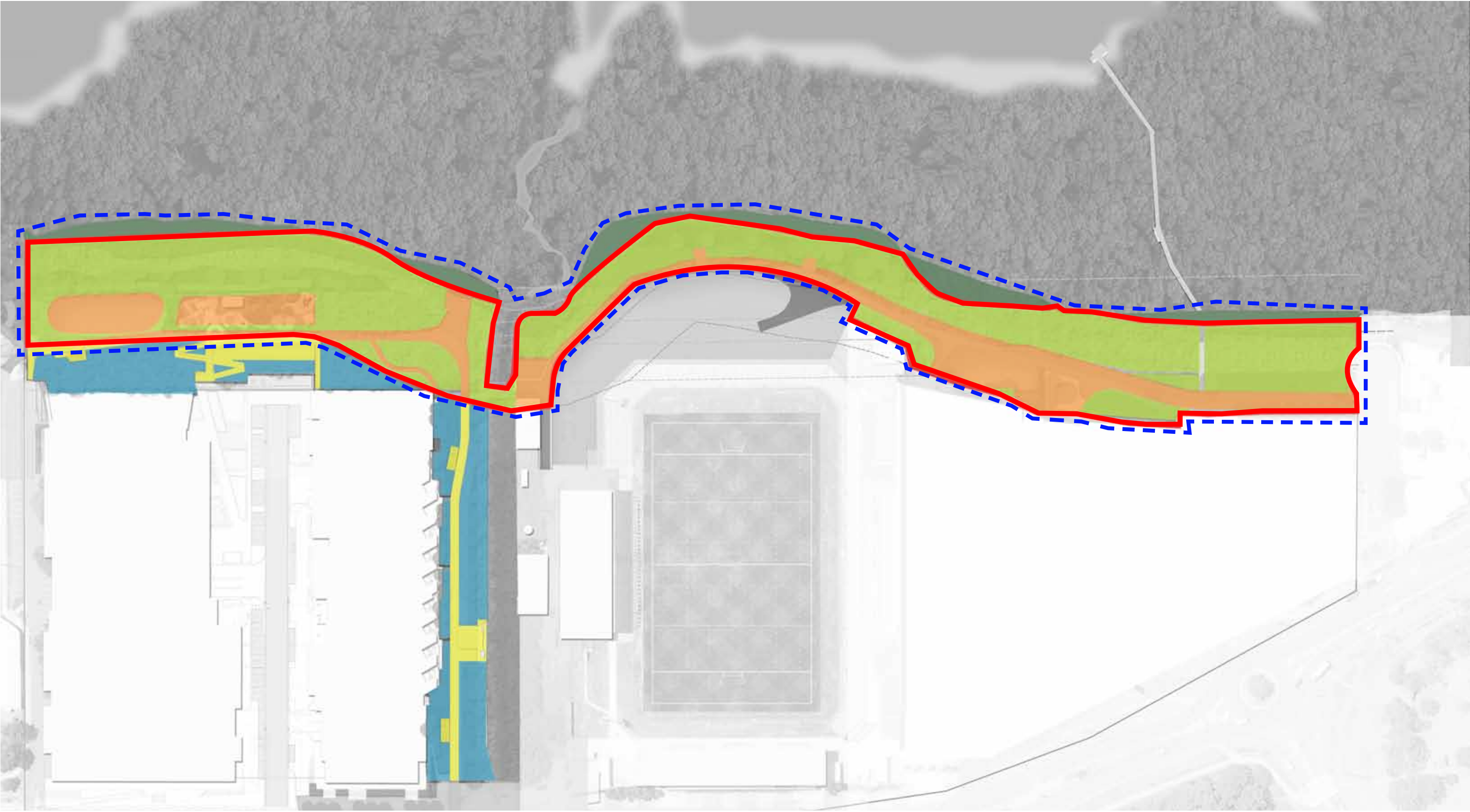
PLAN 1: RIPARIAN CORRIDOR

LEGEND

- SITE
- RIPARIAN CORRIDOR

TABLE 1: RIPARIAN CORRIDOR CALCULATIONS

KEY	RIPARIAN AREA	AREA (m²)	
		DA SUBMISSION	S75W APPLICATION
	TOTAL RIPARIAN AREA WITHIN SITE	17,538	17,425



PLAN 2: PLANTING AND NON PLANTING AREAS WITHIN RIPARIAN CORRIDOR

LEGEND

- SITE
- RIPARIAN CORRIDOR

TABLE 2: PLANTING AND NON PLANTING AREAS WITHIN RIPARIAN CORRIDOR CALCULATIONS

		AREA (m²)	
		DA SUBMISSION	S75W APPLICATION
	TOTAL RIPARIAN PLANTING AREA	17,538	17,425
	Total Riparian planting within corridor	11,556	11,955
	Total Riparian planting outside corridor (offset planting)	2,260	1,847
	Total Riparian planting off site (offset planting)	3,722	3,623
	TOTAL NON RIPARIAN AREA	7,432	5,975
	Total non Riparian planting within corridor	5,392	3,927
	Total non Riparian planting outside corridor	2,040	2,040

Client



Project

Woollooware Bay Town Centre

Project No.

17-056W

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D

Drawn

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Date

22.09.17

Purpose

DA SUBMISSION

Title

Landscape Calculations Plans

Drawing No.

LC 04

Scale

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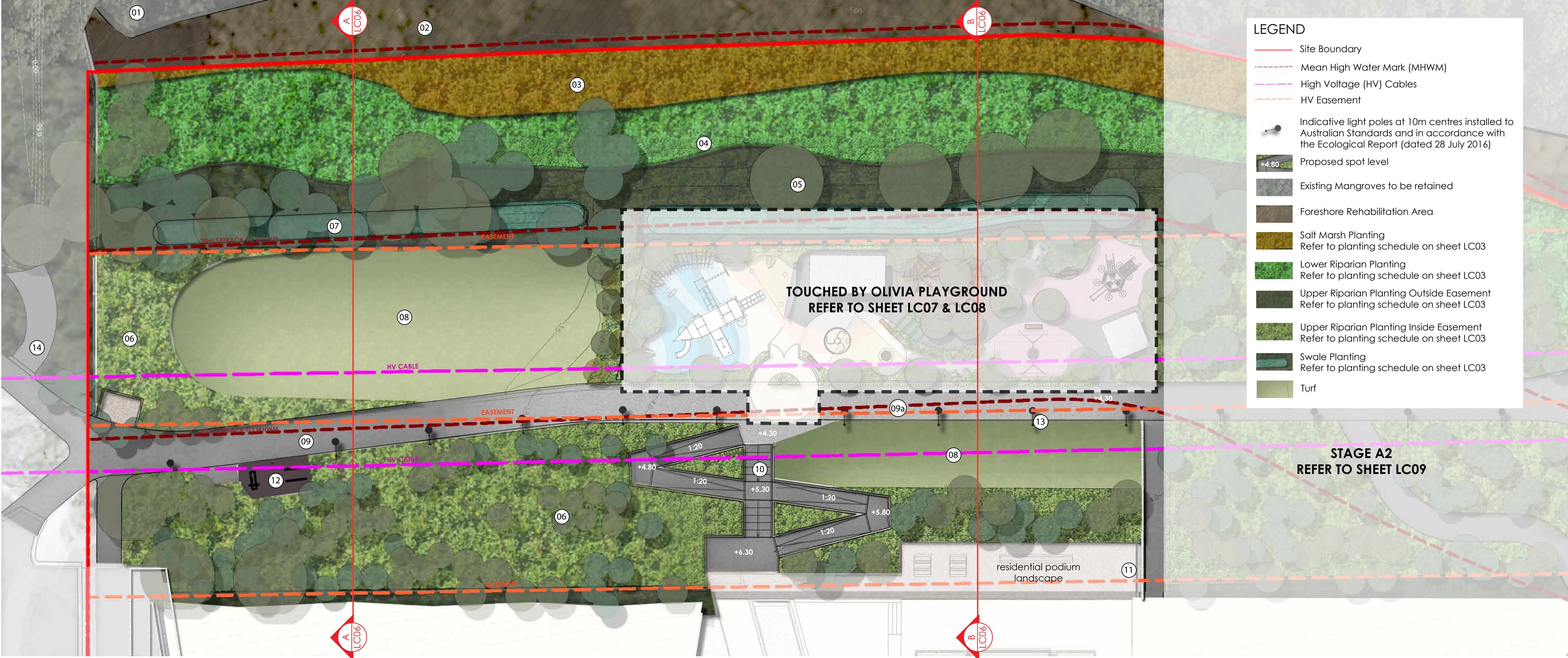
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FORESHORE PARK ILLUSTRATIVE PLAN

DESIGN INSPIRATION

- KEY

 - 01 Existing Mangroves to be retained
 - 02 Foreshore Rehabilitation Area
 - 03 Salt Marsh Planting
Refer to planting schedule on sheet LC03
 - 04 Lower Riparian Planting
Refer to planting schedule on sheet LC03
 - 05 Upper Riparian Planting Outside Easement
Refer to planting schedule on sheet LC03
 - 06 Upper Riparian Planting Inside Easement
Refer to planting schedule on sheet LC03
 - 07 Swale Planting
Refer to planting schedule on sheet LC03
- 08 Turf
 - 09 Foreshore Shared Pathway (4m width)
 - 09a Foreshore Shared Pathway with exposed aggregate finish (4m width)
 - 10 1 in 20 accessible ramp and stair access between
Foreshore Shared Pathway and residential buildings
 - 11 Public Toilet (under Residential Stage 2 podium
landscape). Approved as part of Stage 2
Residential DA #DA14/0598
 - 12 Proposed Fitness Station
 - 13 Indicative light poles at 10m centres installed to Australian
Standards and in accordance with the Ecological Report
(dated 28 July 2016)
 - 14 Heavy Vehicle Access for Council Maintenance Vehicles
(To Engineer's Detail)

