

Casuarina Beach Concept



NSW GOVERNMENT | **Planning & Environment**
Issued under the *Environmental Planning and Assessment Act 1979*
Approved Section 75W Modification Application
No. 10 granted on the 7 Nov 2018
in respect to MP 06-0258
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Sheet No. 1 of 47

Casuarina Beach Concept



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Sheet No. 2 of 47

Grand Parade



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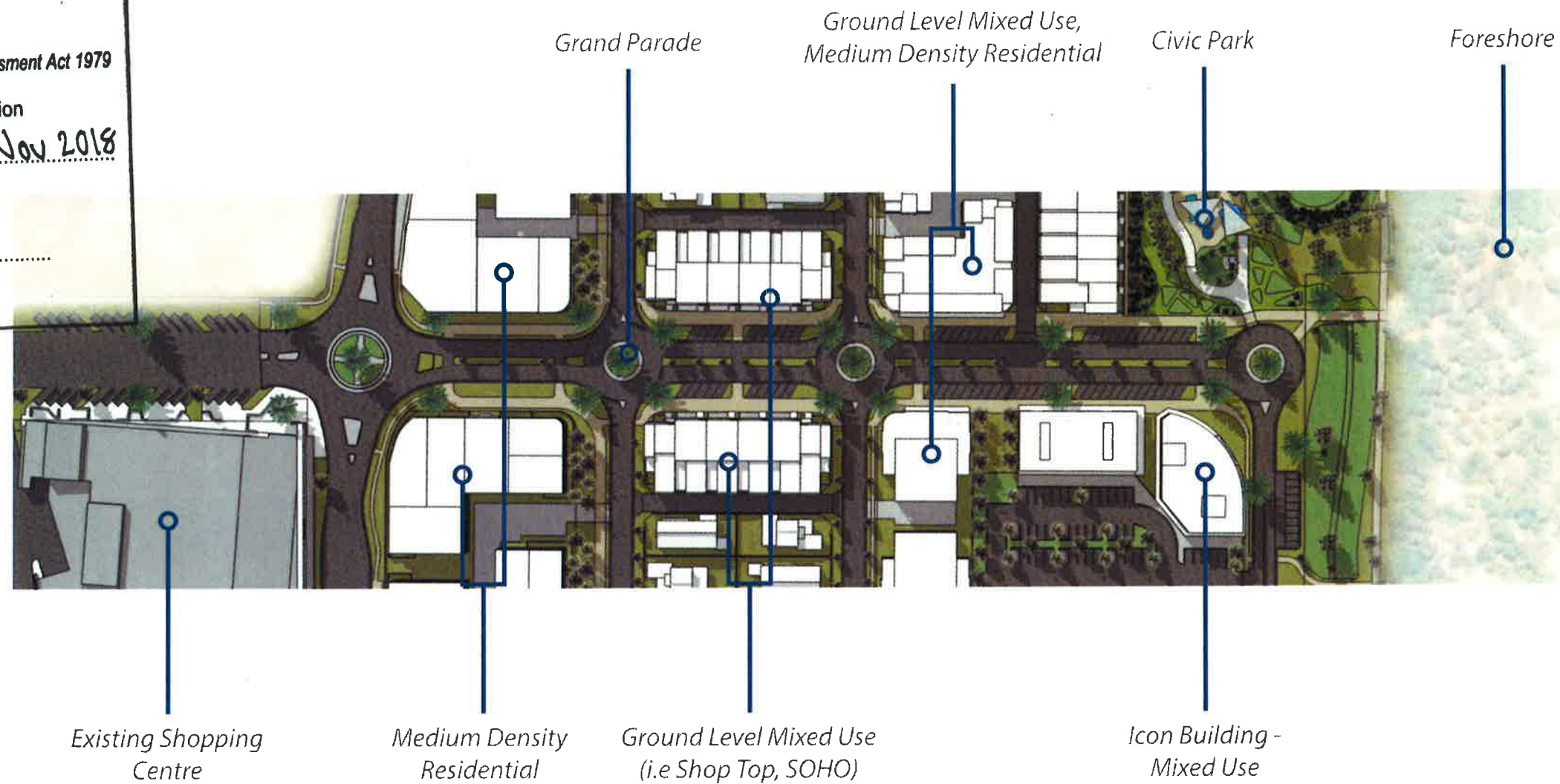
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Example Grand Parade Imagery

RPS

Density



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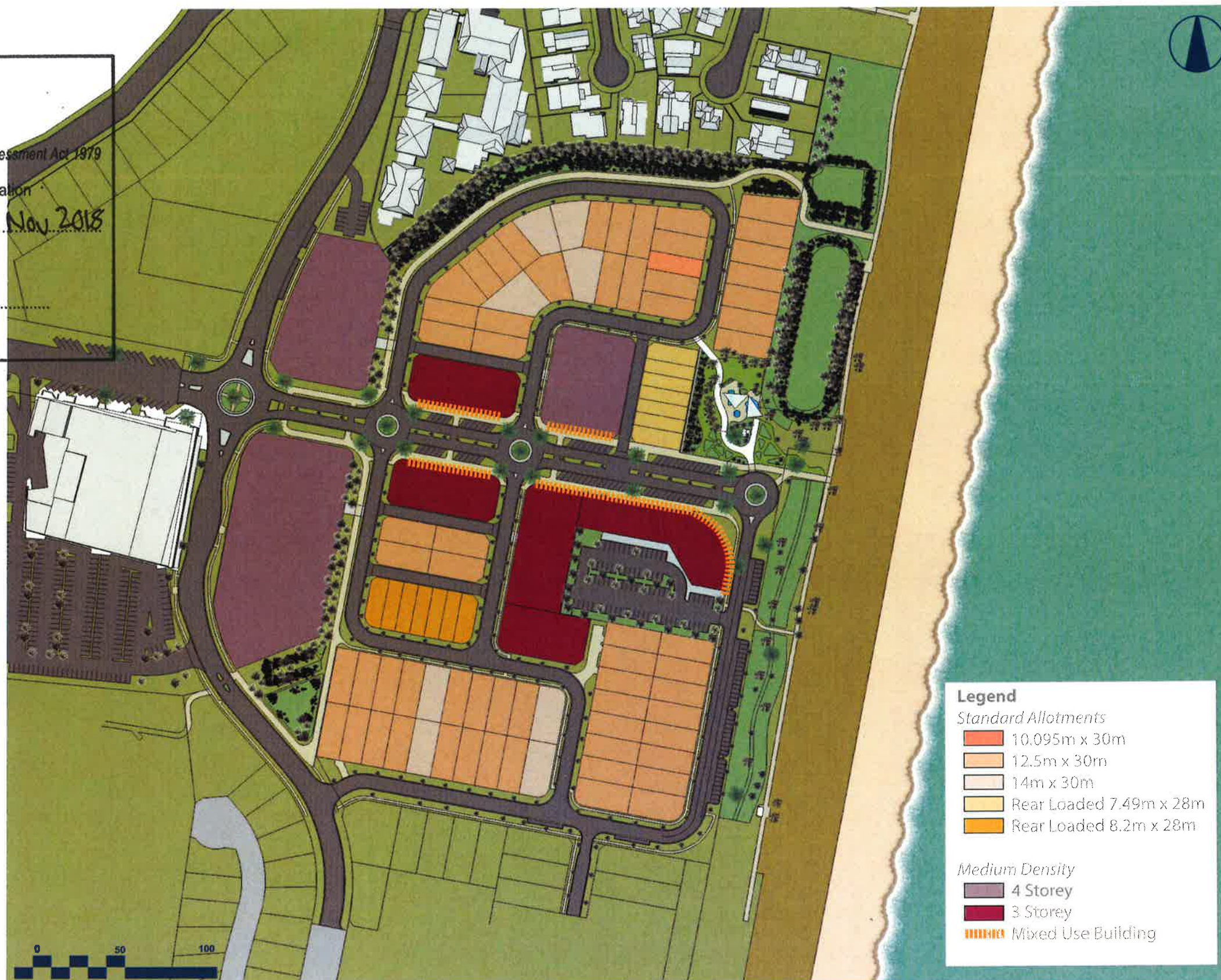
Legend

- A** 4 storey
GFA 1.25
Height 13.6m
- B** 4 storey
GFA 1.5
Height 13.6m
- C** 3 storey
GFA 1.5
Rear Loaded
- D** 3 storey
GFA 1.5
- E** 3 storey
GFA 1.25
- F** 3 storey
Mixed Use
- G** 2 storey
Rear Loaded Attached
Residential
- H** 3 storey
Rear Loaded Attached
Residential

Unlabelled = standard 1-2 storey
detached residential product

Built Form


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Built Form



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*Medium Density
& Mixed Use*



*Standard Allotments
Front Loaded*



*Standard Allotments
Rear Loaded*



Yield Estimate



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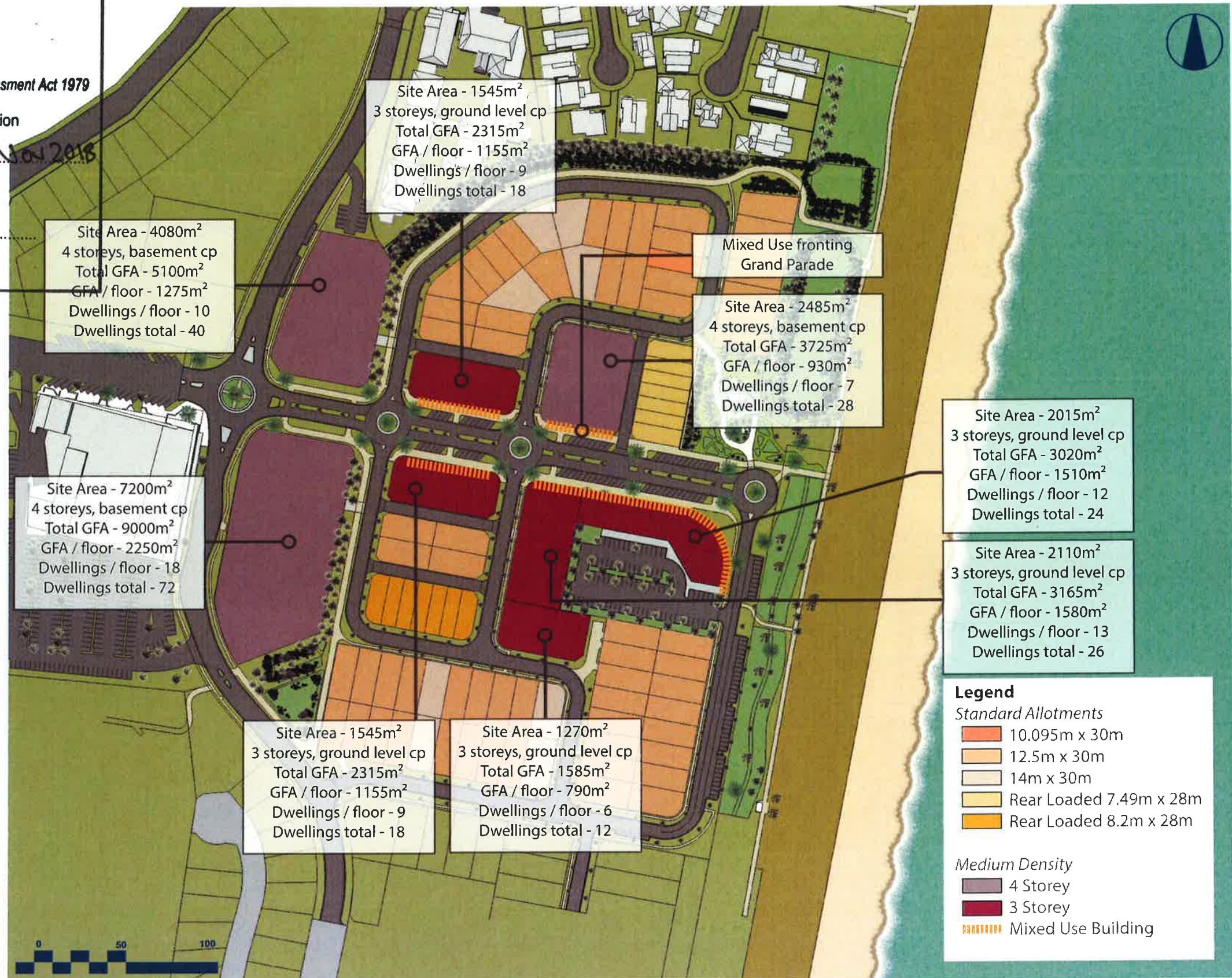
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LANDSCAPE MASTERPLAN

- 1 Revegetation to edges of swale to integrate device into existing dune landscape
- 2 Primary street trees in informal groupings to local residential streets provide a relaxed intimate streetscape
- 3 Secondary feature trees located at the end of view lines strength wayfinding, create interest in the streetscape and increase amenity
- 4 Feature pavement to laneways breakup expanse of hardscape and create interest within the streetscape
- 5 Buffer to rear of existing properties includes planted mounds, informal shrub and groundcover planting to achieve privacy for residents
- 6 Feature tree avenue to entrance road strengthens way-finding, achieves shade to carparking and pedestrian pathways, provides amenity and creates a signature approach to the beach
- 7 Planting to multi-storey residential surrounds to soften the built form and integrate the property fence into the streetscape
- 8 Beachfront park reinforces beach access and frames views of the ocean
- 9 Trees proposed to carpark provide shade, reduce glare and enhance amenity
- 10 Secondary street trees in a formal arrangement along Blue Horizon Drive strengthen road hierarchy within the development while assisting in wayfinding strategy
- 11 Planting to infiltration basin and surrounds to integrated the device into the landscape
- 12 Shared pedestrian/cycle path connecting residents to the Tweed Shire Council shared pedestrian/cycle path



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NEIGHBOURHOOD PARK

The park provides a breakout space for residents and visitors. Located at a key juncture between the retail hub, entry road termination and main beach access this space is a key node in pedestrian movement and wayfinding.

The park forms a link between the town centre and the linear open space (7f zone) containing a shared walkway that forms a major north-south pedestrian/cycle network for the Tweed Coast.

The park incorporates a playground with formal play equipment and natural play elements such as mounding and balancing boulders. The playground is nestled into the landscape with landform and planting surrounds. Trees provide shade and amenity to the space. Mounding and planting have been proposed between the road and the play space to create a screen.

A shared 3.5m wide path has been incorporated along the edge of the park for pedestrians and cyclist to traverse from the town centre to the foreshore shared pedestrian and cycle path. Intimate gathering spaces have been created within the park for informal interactions between the communities. A kickabout space has also been defined with planting and mounding to diversify the parks usage.

Mounding and planting will combine to form a buffer and screen between public and private interfaces. A path to the north connects the cul-de-sac road to the park and foreshore.

The sweeping landscape form of planting beds and mounds reflects the natural swaths of the beach landscape. The planting pallet will draw its inspiration from the existing species found within the foreshore linear park.



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0 50 100
Scale 1:750

28/09/2017

landscape report

Page 4 of 5

FORESHORE

The foreshore zone will be protected and enhanced to ensure the scenic and environmental values of the area are preserved. Links are made between the development and the existing shared pedestrian/cycle path to strengthen the community's connection with the environment and foster a stewardship over the land.

Endemic spices will be planted informally along the interface between the development and the foreshore enhancing the current character of the area. These native species will also be filtered throughout the development creating a seamless landscape and strengthened identity.

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- 1 Existing shared pedestrian/cycle path
- 2 Existing beach access
- 3 Path nodes
- 4 Seating placed at required intervals
- 5 Infiltration basins
- 6 Endemic planted mounds using species from the Tweed Shire Council Landscape Guidelines Casuarina Beach -7(f) Zone.
- 7 Access path to park and town centre





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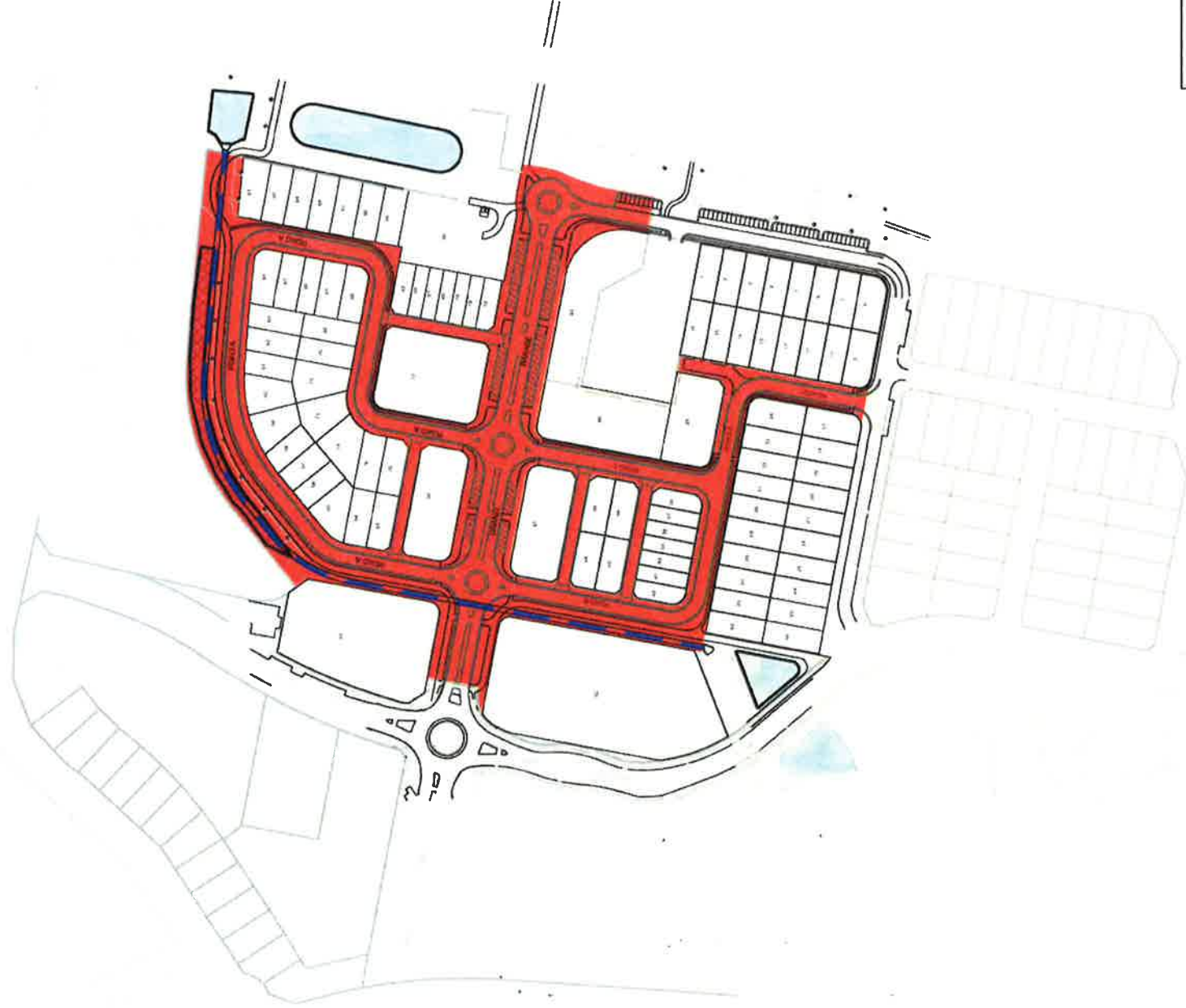
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No. **16** granted on the **7 Nov 2018**

in respect to MP **05-0258**

Signed **[Signature]**

Sheet No. **11** of **47**



LEGEND

PROPOSED BOUNDARY

STAGE 1D

STAGE 1D (SWALE)

NOTE

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1cm = 20m

1:2000

REV DATE AMENDMENT

B 22/07/18 BDY

C 17/08/17 BDY

D

E

SOURCE PLAN: N/A

Newton Denny Chapelle
Surveyors Planners Engineers

Email: office@newtondennychapelle.com.au

LESMORE 31 Carrington St. Lesmore 2480 PH: 66622 1011

CASINO 100 Barker St. Casino 2470 PH: 66662

5000

ABN: 66 230 045 469

P1 - SUBDIVISION LAYOUT

PLAN STAGE 1D

REV C

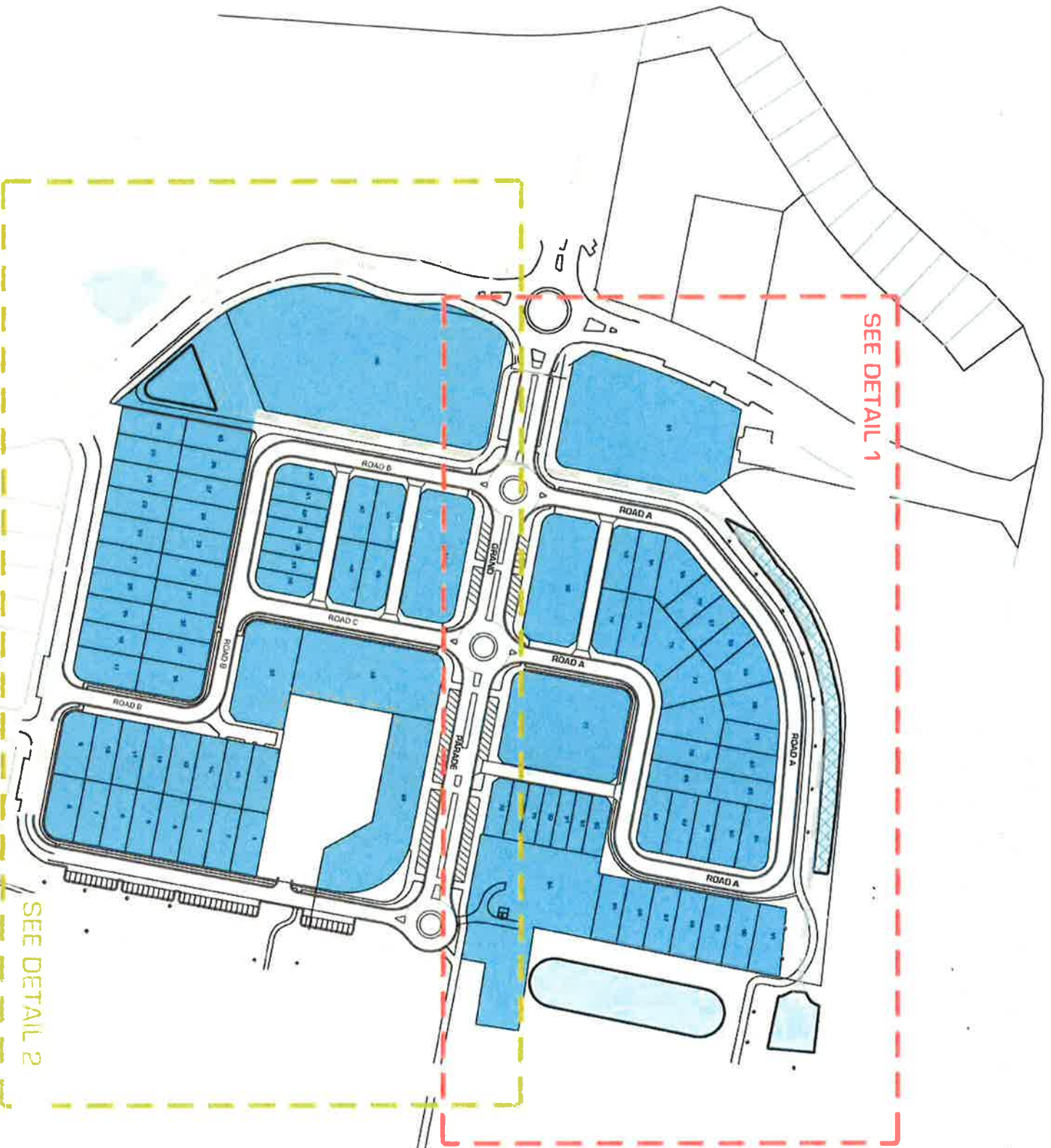
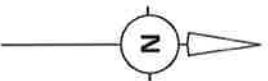
CLIENT: CLARENCE PROPERTY

LOCATION: CASUARINA TOWN CENTRE

CASUARINA BEACH

DATE: 17/08/17 REF: 13/054

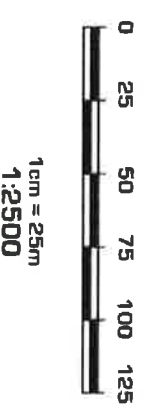
SCALE: 1:2000 @ A3 DRAWN: DK



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Sheet No. **12** of **47**

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LEGEND
— PROPOSED BOUNDARY
■ STAGE 1E



REV DATE AMENDMENT

B 22/07/16 BDY
C 17/08/17 BDY
D
E

SOURCE PLAN: N/A

Newton Denny Chapelle

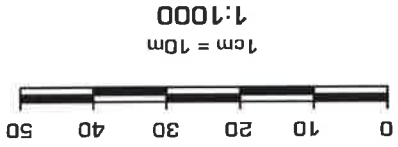
Surveyors Planners Engineers
Email: office@newtondennychapelle.com.au
Lismore 31 Carrington St, Lismore 2480 Ph: 6622 1011
C/SMD 100 Barker St, Lismore 2470 Ph: 6622 5000
ABN: 56 220 045 463

P2 - SUBDIVISION LAYOUT
PLAN STAGE 1E

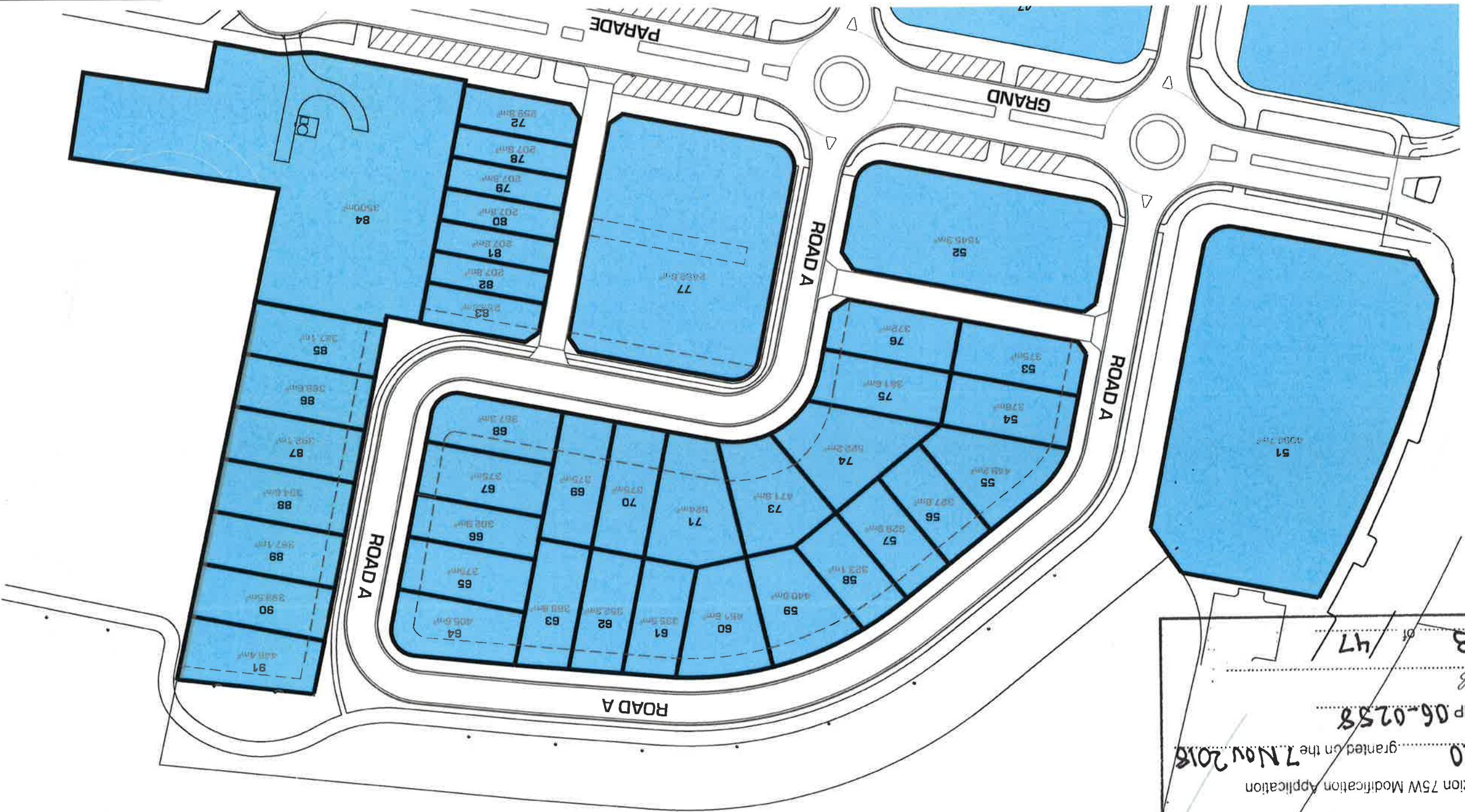
CLIENT: CLARENCE PROPERTY
LOCATION: CASUARINA TOWN CENTRE
DATE: 17/08/17 REF: 13/054
SCALE: 1:1500 @ A3 DRAWING: BK

13/11/2018

NOTE:
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LEGEND
— PROPOSED BOUNDARY
--- EASEMENT FOR SEWER AND WATER
■ STAGE 1E



REV DATE AMENDMENT
B 22/07/16 BDY
C 17/08/17 BDY
E

SOURCE PLAN: N/A

Newton Denny Chapelle
Surveyors Planners Engineers

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CASINO 100 Barker St. Casino 2470 PH: 6662 5000
ABN: 86 220 045 469

DATE: 17/08/17
SCALE: 1 : 1000 @ A3
DRAWN: bk
REF: 13/D54

LOCATION: CASUARINA TOWN CENTRE
CASUARINA BEACH

CLIENT: CLARENCE PROPERTY

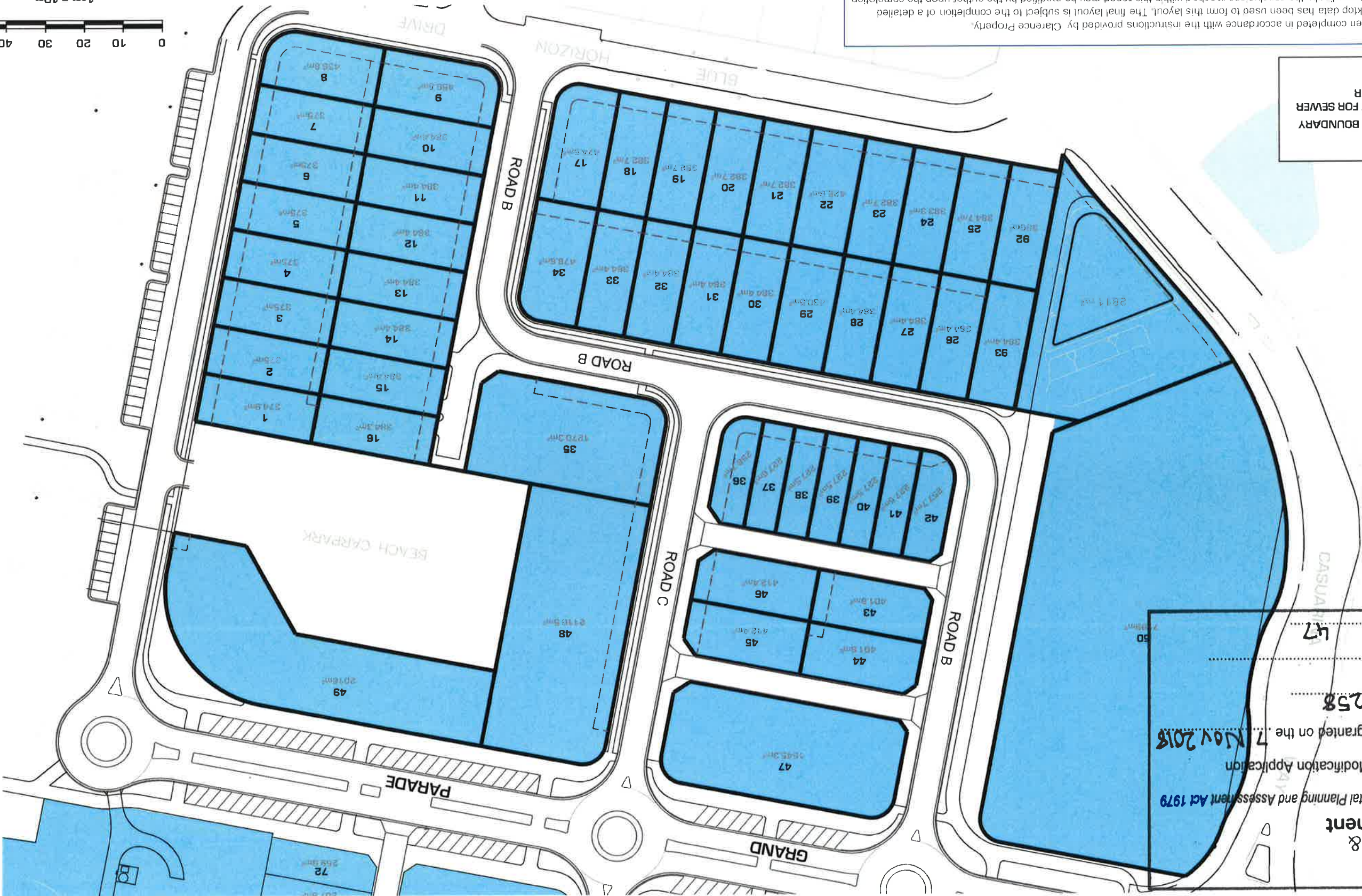
P4 - SUBDIVISION LAYOUT PLAN
STAGE 1E - DETAIL 2

REV C

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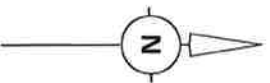
LEGEND
— PROPOSED BOUNDARY
--- EASEMENT FOR SEWER
AND WATER
STAGE 1E

1cm = 10m
1:1000
0 10 20 30 40 50

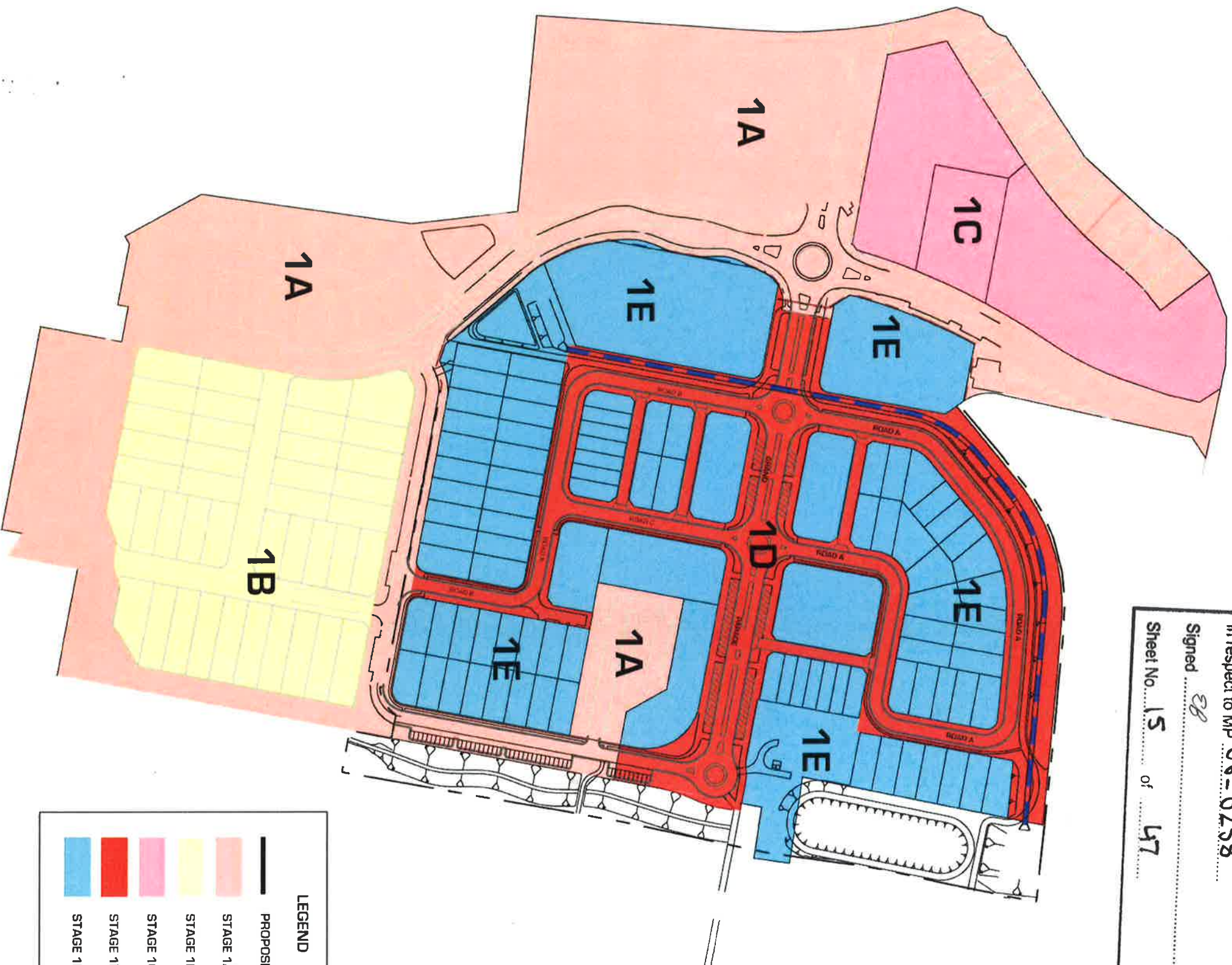


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No. 10 granted on the 7 May 2018
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LEGEND

- PROPOSED BOUNDARY
- STAGE 1A
- STAGE 1B
- STAGE 1C
- STAGE 1D
- STAGE 1E

0 25 50 75 100 125
1cm = 25m
1:2500

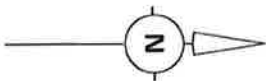
REV DATE AMENDMENT
B 22.07.16 BOY
C 17.08.17 BOY
E

SOURCE PLAN: N/A

Newton Denny Chapelle Engineers

Newton Denny Chapelle
Surveyors Planners Engineers
Email: office@newtondennychapelle.com.au
LISMORE 31 Carrington St, Lismore 2480 PH 6592 1011
CASINO 100 Barker St, Casino 2470 PH 6562 5000
ABN 86 220 045 469

P5 - SUBDIVISION STAGING
PLAN
CLIENT: CLARENCE PROPERTY
LOCATION: CASSINO, TASMANIA
DATE: 17/09/17
SCALE: 1:2500 A3
REV: 13/05/14
DRAWN: DK



**Planning &
Environment**

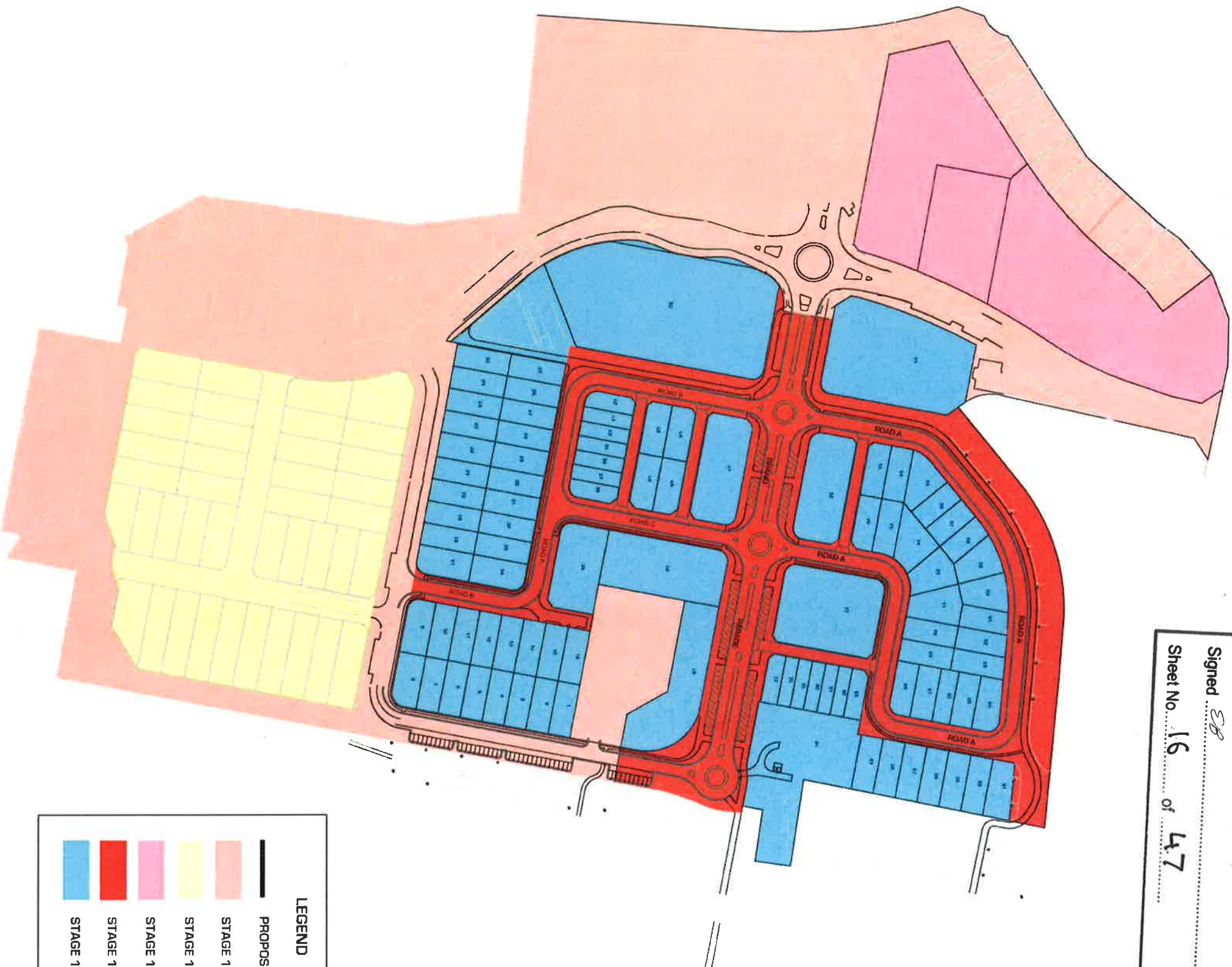
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LEGEND

— PROPOSED BOUNDARY

STAGE 1A

STAGE 1B

STAGE 1C

STAGE 1D

STAGE 1E

0 25 50 75 100 125

1cm = 25m

1:2500

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REV DATE AMENDMENT

22/07/18 BDY
17/08/17 BDY
N/A

SOURCE PLAN: N/A

Newton Denny Chapelle
Surveyors Planners Engineers

Email: office@newtondennychapelle.com.au
USM006 31 Carrington St, USmore 2480 PH 5552 1011
CASINO 100 Barker St, Casino 2470 PH 5552
ABN: 56 220 045 469

**P6 - DEVELOPMENT
SEQUENCE PLAN**

CLIENT: CLARENCE PROPERTY
LOCATION: CASUARINA TOWN CENTRE
CASUARINA BEACH

DATE: 17/08/17 REF: 13/054
SCALE: 1:2500 @ A3 DRAWN: CK

REV C

No.	Open Space	Total Area	Dedicated To Council
1	EAST - WEST DEDICATION	4965m ²	YES
2	7(i) DEDICATION AREA	329m ²	YES
3	7(i) DEDICATION AREA	186m ²	YES
4	7(i) DEDICATION AREA	226m ²	YES
5	CIVIC PARK	3500m ²	YES
6	STORM WATER INFILTRATION	2071m ²	YES
7	STORMWATER INFILTRATION	1643m ²	YES
8	NORTH WEST INFILTRATION	885m ²	YES
Total Area To Be Dedicated To Council		13,805m ²	

NSW GOVERNMENT
Planning & Environment
DANIELLA DRIVE

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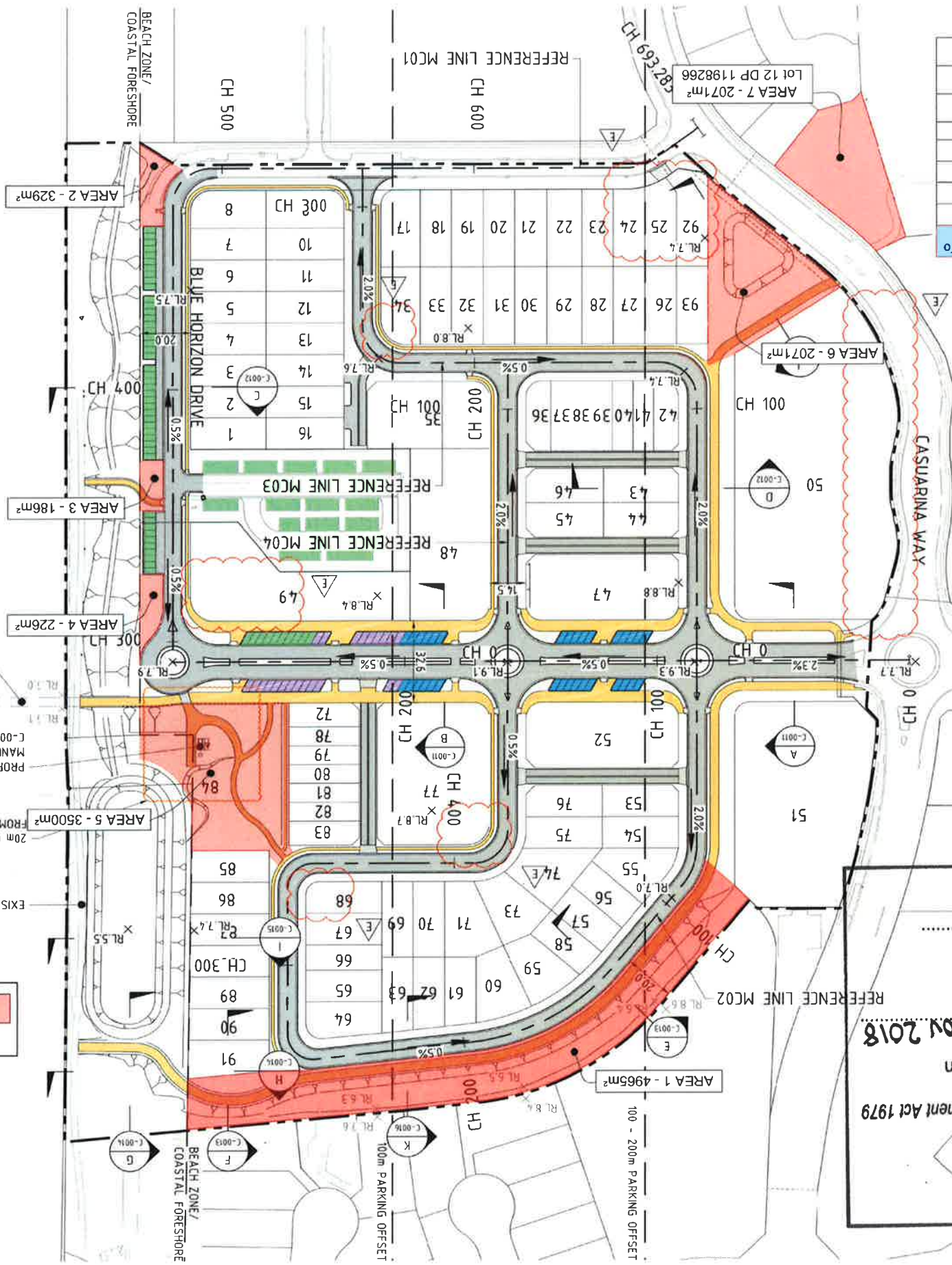
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PROPOSED SEWER PUMP STATION
MANHOLE REFER TO DRAWING C-0060
PROPOSED PEDESTRIAN AND EMERGENCY ACCESS TO BEACH
20m ODOUR BUFFER FROM PUMP STATION

LEGEND

OPEN SPACE DEDICATION

LEGEND

PROPOSED ROAD GRADE

EXISTING LEVEL

PROPOSED LEVEL

PROPOSED ROAD

PROPOSED PATH

PARKING BAYS - 0m TO 100m (134 TOTAL)

8 TRESTLES AVENUE

55 PROPOSED BAYS

PARKING BAYS - 100m TO 200m (32 TOTAL)

PARKING BAYS - ADDITIONAL (26 TOTAL)

LOT No.	AREA (m ²)	LOT No.	AREA (m ²)
1	374.9	47	472.4
2	375.0	48	472.4
3	375.0	49	472.4
4	375.0	50	472.4
5	375.0	51	472.4
6	375.0	52	472.4
7	375.0	53	472.4
8	438.8	54	399.5
9	456.5	55	399.5
10	384.4	56	399.5
11	384.4	57	399.5
12	384.4	58	399.5
13	384.4	59	399.5
14	384.4	60	399.5
15	384.4	61	399.5
16	384.4	62	399.5
17	474.5	63	399.5
18	384.4	64	399.5
19	384.4	65	399.5
20	384.4	66	399.5
21	384.4	67	399.5
22	428.6	68	399.5
23	384.4	69	399.5
24	384.4	70	399.5
25	470.5	71	399.5
26	384.4	72	399.5
27	384.4	73	399.5
28	384.4	74	399.5
29	438.5	75	399.5
30	384.4	76	399.5
31	384.4	77	399.5
32	384.4	78	399.5
33	384.4	79	399.5
34	384.4	80	399.5
35	384.4	81	399.5
36	256.7	82	399.5
37	227.6	83	399.5
38	227.5	84	399.5
39	227.5	85	399.5
40	227.5	86	399.5
41	227.5	87	399.5
42	227.5	88	399.5
43	401.8	89	399.5
44	401.8	90	399.5
45	472.4	91	399.5
46	472.4		
47	472.4		

LOT No.	AREA (m ²)	LOT No.	AREA (m ²)
1	374.9	47	472.4
2	375.0	48	472.4
3	375.0	49	472.4
4	375.0	50	472.4
5	375.0	51	472.4
6	375.0	52	472.4
7	375.0	53	472.4
8	438.8	54	399.5
9	456.5	55	399.5
10	384.4	56	399.5
11	384.4	57	399.5
12	384.4	58	399.5
13	384.4	59	399.5
14	384.4	60	399.5
15	384.4	61	399.5
16	384.4	62	399.5
17	474.5	63	399.5
18	384.4	64	399.5
19	384.4	65	399.5
20	384.4	66	399.5
21	384.4	67	399.5
22	428.6	68	399.5
23	384.4	69	399.5
24	384.4	70	399.5
25	470.5	71	399.5
26	384.4	72	399.5
27	384.4	73	399.5
28	384.4	74	399.5
29	438.5	75	399.5
30	384.4	76	399.5
31	384.4	77	399.5
32	384.4	78	399.5
33	384.4	79	399.5
34	384.4	80	399.5
35	384.4	81	399.5
36	256.7	82	399.5
37	227.6	83	399.5
38	227.5	84	399.5
39	227.5	85	399.5
40	227.5	86	399.5
41	227.5	87	399.5
42	227.5	88	399.5
43	401.8	89	399.5
44	401.8	90	399.5
45	472.4	91	399.5
46	472.4		
47	472.4		

ISSUED FOR APPROVAL

CASUARINA BEACH

TOWN CENTRE - STAGE 2

CASUARINA WAY, NSW 2487

Brisbane Office

74 Bowen St, Spring Hill QLD 4000

P / +61 7 3167 3300

F / info@bge.com

BGE

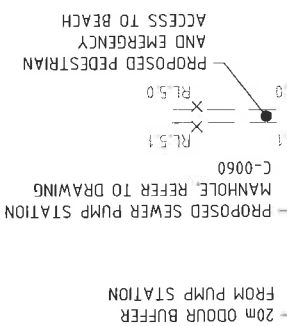
CLARENCE PROPERTY

C-0003

B16097

SITE LAYOUT PLAN

SCALE 1:1000 A1 SIZE



LOT AREA TABLE	LOT NO	AREA (m ²)
48	79	2219.3
50	78	1354.4
51	77	4084.7
52	76	1545.3
53	75	375.0
54	74	378.0
55	73	449.2
56	72	327.8
57	71	329.9
58	70	323.1
59	69	440.6
60	68	451.6
61	67	335.5
62	66	352.3
63	65	368.8
64	64	405.6
65	63	375.0
66	62	302.9
67	61	375.0
68	60	369.3
69	59	375.0
70	58	375.0
71	57	524.0
72	56	259.8
73	55	471.8
74	54	522.2
75	53	381.6
76	52	372.0
77	51	2481.0
78	50	207.8
79	49	207.8
80	48	207.8
81	47	207.8
82	46	207.8
83	45	255.6
84	44	350.0
85	43	381.1
86	42	389.6
87	41	392.1
88	40	394.6
89	39	397.1
90	38	399.5
91	37	787.7
92	36	797.7
93	35	778.7

LEGEND



ISSUED FOR APPROVAL

REV	DATE	DESCRIPTION
1	08/08/17	ISSUED FOR DA APPROVAL
2	08/08/17	ISSUED FOR DA APPROVAL
3	08/08/17	ISSUED FOR DA APPROVAL
4	08/08/17	ISSUED FOR DA APPROVAL
5	08/08/17	ISSUED FOR DA APPROVAL
6	08/08/17	ISSUED FOR DA APPROVAL
7	08/08/17	ISSUED FOR DA APPROVAL
8	08/08/17	ISSUED FOR DA APPROVAL
9	08/08/17	ISSUED FOR DA APPROVAL
10	08/08/17	ISSUED FOR DA APPROVAL



Brisbane Office—
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E / info@bgeeng.com
bgeeng.com



CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

ISSUED FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

EXISTING FEATURES PLAN

SCALE 1:1000 AT A1 SIZE



NSW GOVERNMENT
Planning & Environment

Issued under the Environmental Planning and Assessment Act 1979

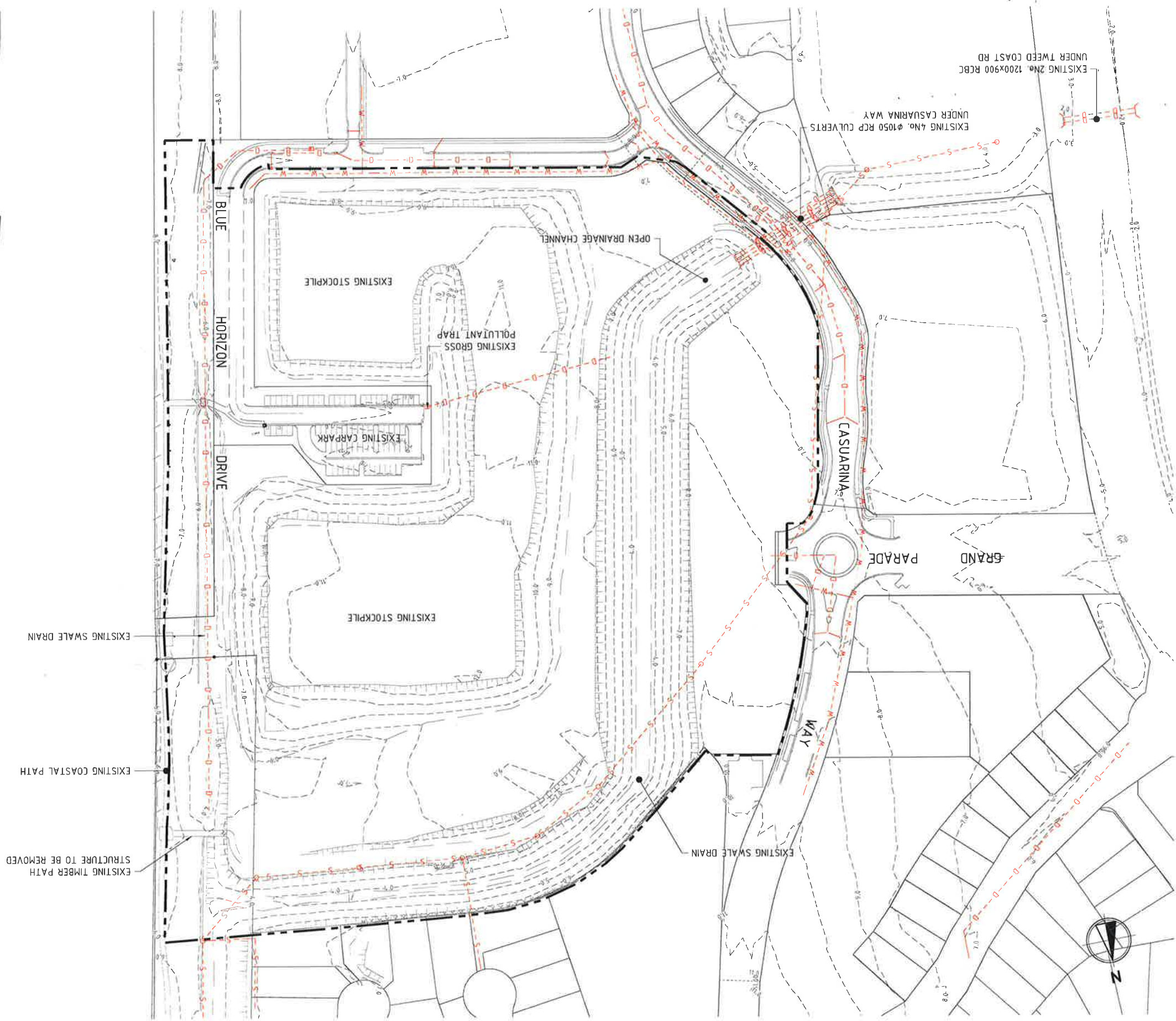
No. 10 Approved Section 75W Modification Application

in respect to MP 06-0258

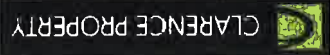
Signed *[Signature]* 19 of 47

Sheet No. 19 of 47

- LEGEND
- — — — — LIMIT OF WORKS BOUNDARY
 - - - - - EXISTING STORMWATER PIPE
 - - - - - EXISTING SEWER MAIN
 - - - - - EXISTING WATER MAIN
 - - - - - EXISTING CONTOURS
 - xxxxxxx EXISTING RETAINING WALL



REV	DATE	DESCRIPTION
1	08/08/17	ISSUED FOR DA APPROVAL
2	08/08/17	ISSUED FOR DA APPROVAL
3	08/08/17	ISSUED FOR DA APPROVAL
4	08/08/17	ISSUED FOR DA APPROVAL
5	08/08/17	ISSUED FOR DA APPROVAL
6	08/08/17	ISSUED FOR DA APPROVAL
7	08/08/17	ISSUED FOR DA APPROVAL
8	08/08/17	ISSUED FOR DA APPROVAL
9	08/08/17	ISSUED FOR DA APPROVAL
10	08/08/17	ISSUED FOR DA APPROVAL



Brisbane Office
74-76 Bowen St, Spring Hill QLD 4000
P / +61 7 3167 3300
E / info@bgeng.com
bgeng.com



CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

PROJECT NO	B16097
DRAWING NO	C-0010
DATE	08/08/17
SCALE	1:1000
CLIENT	MGA94
DESIGNER	AHD
CHECKER	CK
APPROVER	BJ
NOTED	MW
REVISIONS	BK

ISSUED FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

SCALE 1:1000 AT A1 SIZE

NSW GOVERNMENT
Planning & Environment

issued under the Environmental Planning and Assessment Act 1979

Approved Section 75W Modification Application

No. 10 granted on the 7 Nov 2018

in respect to MP 06-0258

Signed *[Signature]*

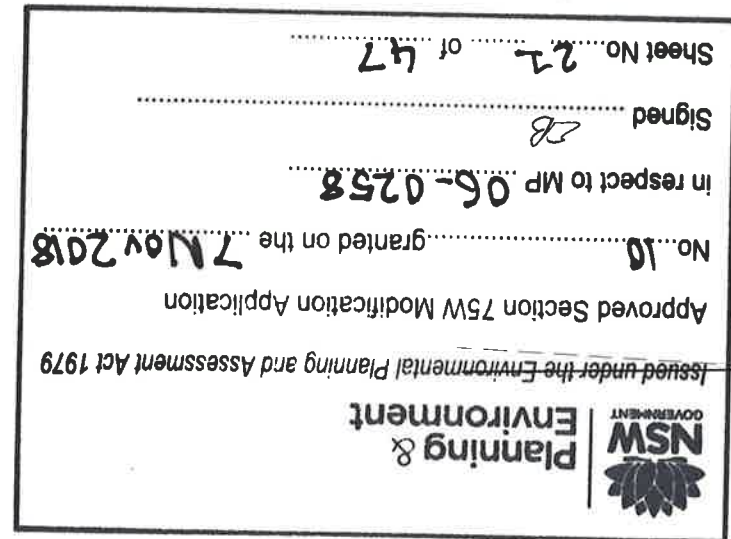
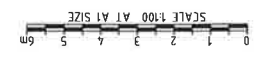
Sheet No. 20 of 47



LEGEND

- PROPOSED CONTOURS (dashed line with '5.50')
- LIMIT OF WORKS BOUNDARY (dashed line)
- PROPOSED RETAINING WALL (line with cross-hatching)
- EARTHWORKS CUT HATCH (yellow box)
- EARTHWORKS FILL HATCH (cross-hatching)

 CLARENCE PROPERTY		Brisbane Office— 74-76 Bowen St, Spring Hill QLD 4000 P / +61 7 3167 3300 E / info@bgeeng.com bgeeng.com—		 CASUARINA BEACH TOWN CENTRE - STAGE 2 CASUARINA WAY, NSW 2487		STATUS ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION				PLAN BULK EARTHWORKS SECTIONS SHEET 1		PROJECT NO. B16097		DATE C-0011	
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Planning & Environment

Issued under the *Environmental Planning and Assessment Act 1979*

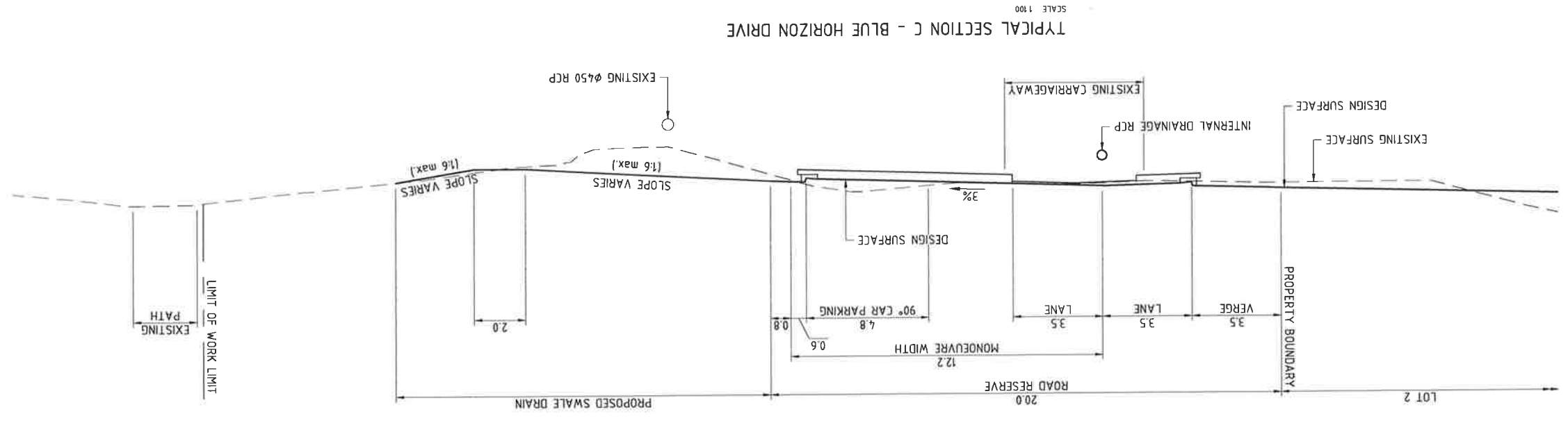
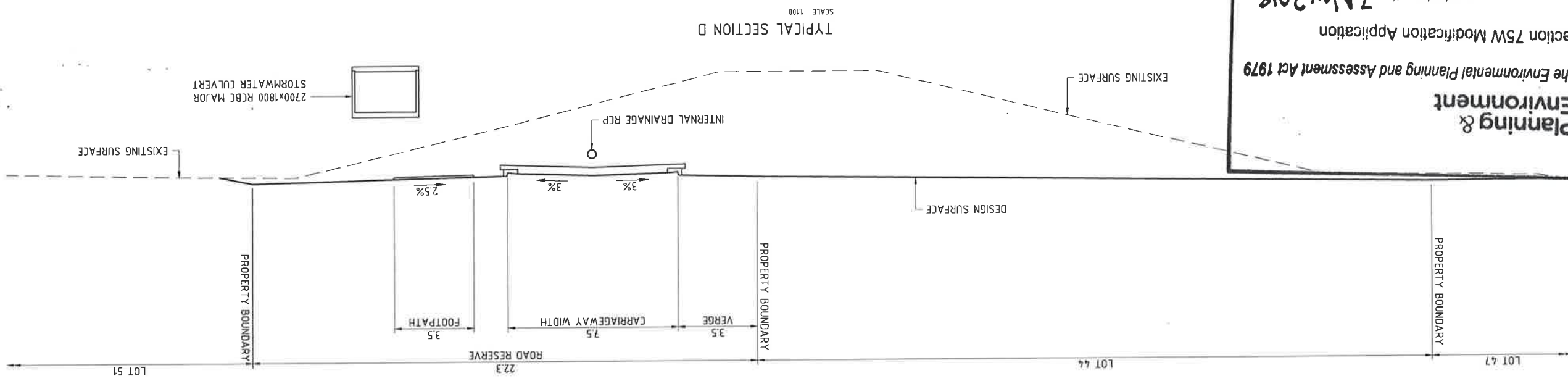
Approved Section 75W Modification Application

No. 10 granted on the **7 May 2018**

in respect to MP **06-0258**

Signed **SB**

Sheet No. **22** of **47**





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Planning & Environment

Issued under the Environmental Planning and Assessment Act 1979

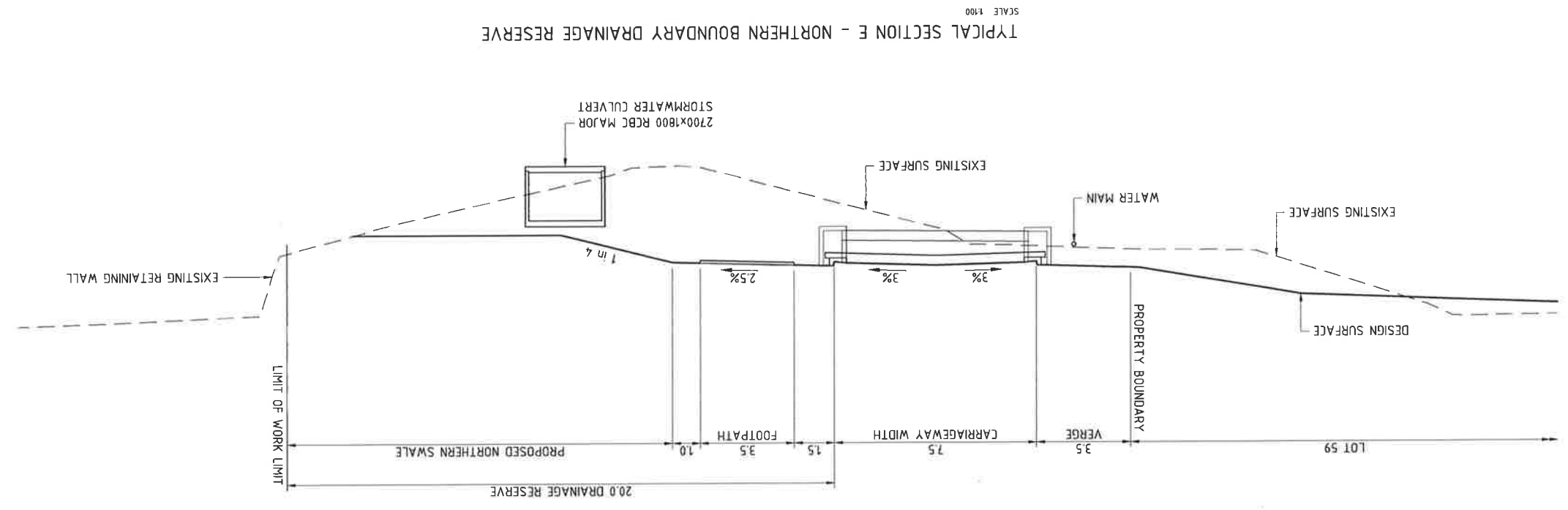
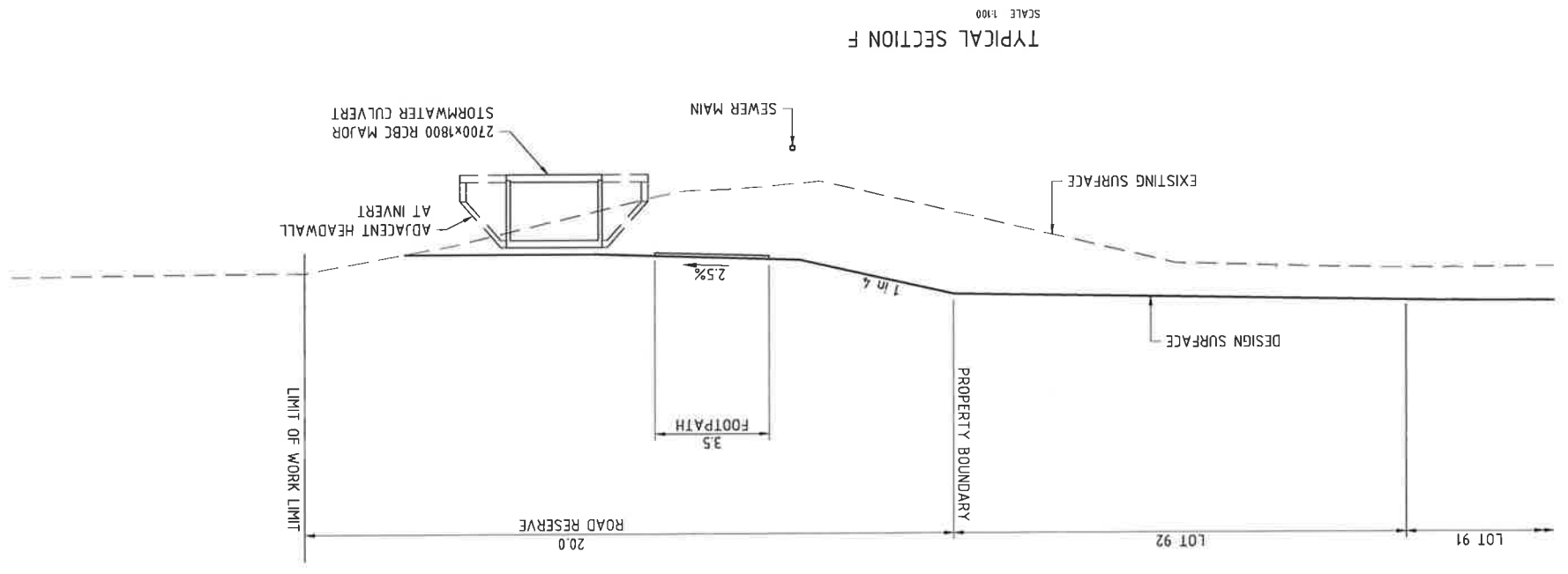
Approved Section 75W Modification Application

No. 10 granted on the 7 Nov 2018

in respect to MP 06-0258

Signed *SC*

Sheet No. 23 of 27



REV	DATE	DESCRIPTION
1	09/08/17	ISSUED FOR DOA APPROVAL
2	09/08/17	ISSUED FOR DOA APPROVAL
3	09/08/17	ISSUED FOR DOA APPROVAL
4	09/08/17	ISSUED FOR DOA APPROVAL
5	09/08/17	ISSUED FOR DOA APPROVAL
6	09/08/17	ISSUED FOR DOA APPROVAL
7	09/08/17	ISSUED FOR DOA APPROVAL
8	09/08/17	ISSUED FOR DOA APPROVAL
9	09/08/17	ISSUED FOR DOA APPROVAL
10	09/08/17	ISSUED FOR DOA APPROVAL



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bgeeng.com

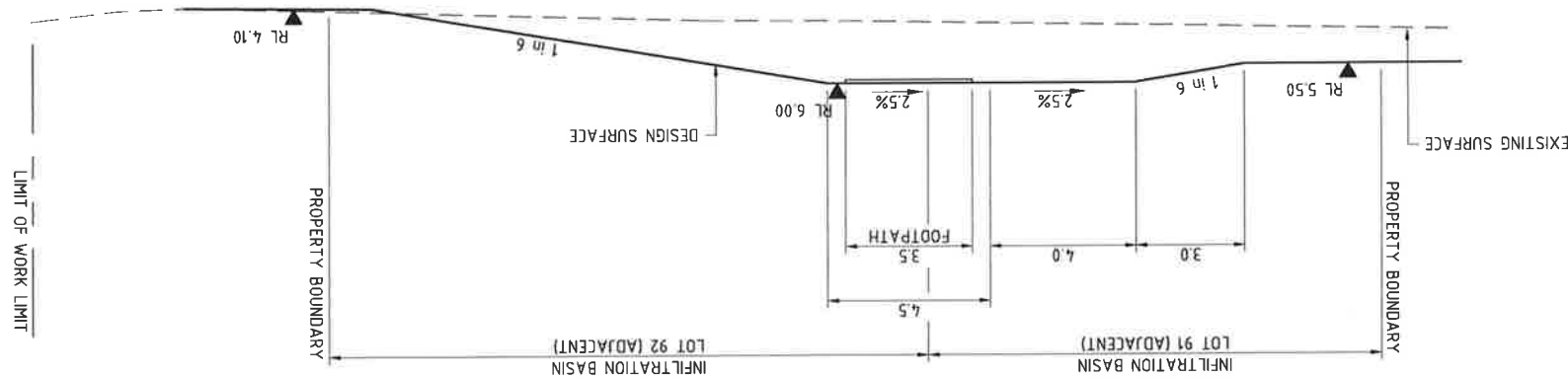


CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

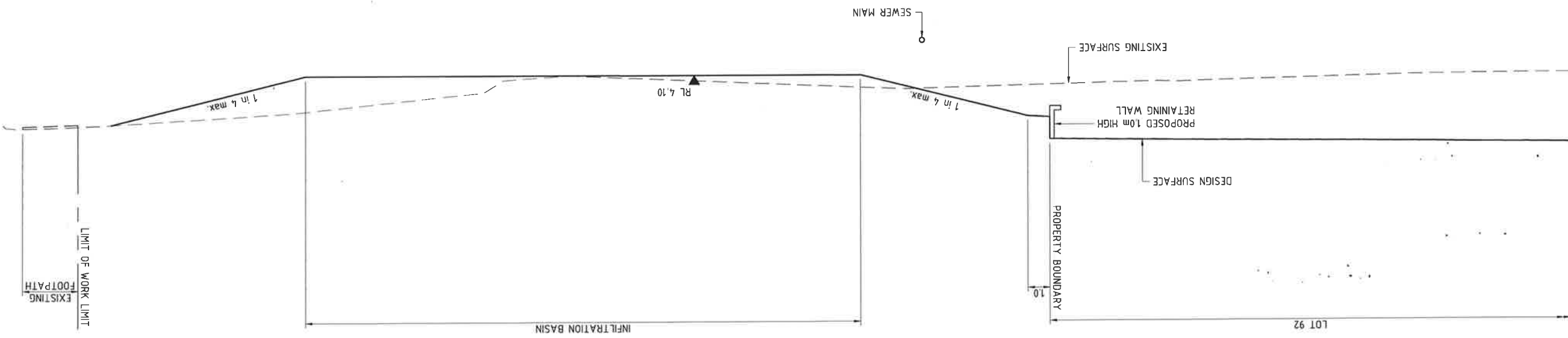
PROJECT NO	B16097
DATE	C-0014
SCALE	1:50
DATE	15/0
DATE	15/0
DATE	15/0
DATE	15/0
DATE	15/0
DATE	15/0
DATE	15/0
DATE	15/0

ISSUED FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
BULK EARTHWORKS SECTIONS
SHEET 4

TYPICAL SECTION G
SCALE 1:100



TYPICAL SECTION H - EASTERN INFILTRATION BASIN
SCALE 1:100



NSW GOVERNMENT
Planning & Environment
Issued under the Environmental Planning and Assessment Act 1979
Approved Section 75W Modification Application
No. 10
in respect to MP 06-0258
Signed *[Signature]*
Sheet No. 24 of 47

SCALE 1:100 AT A1 SIZE

 CLARENCE PROPERTY Brisbane Office— 7A-7B Bowen St, Spring Hill QLD 4000 P / +61 7 3167 3300 E / info@clarence.com www.clarence.com.au						 CASUARINA BEACH TOWN CENTRE - STAGE 2 CASUARINA WAY, NSW 2487						MGA9L AHD 150 CK B J BK ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION BULK EARTHWORKS SECTIONS SHEET 5 B16097 C-0015					
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Technical drawing of a proposed infiltration basin. The drawing shows a cross-section of the basin with a 'DESIGN SURFACE' and an 'EXISTING SURFACE'. A 'SEWER MAIN' is shown entering the basin from the left, with a 'PROPOSED 10m (MAX.) HIGH RETAINING WALL' and a 'PROPERTY BOUNDARY' indicated. The basin is labeled 'INFILTRATION BASIN' and has a 'FOOTPATH' of 3.5m. The 'DESIGN SURFACE' is at RL 7.75 MIN. and the 'EXISTING SURFACE' is at RL 6.65 MIN. The basin is connected to an 'OPEN DRAINAGE CHANNEL' via a 'STONE PITCHED BATTER' with a slope of 1:5. The channel bed is at RL 5.75 and the design surface is at RL 5.25.

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CASUARINA WAY, NSW 2487

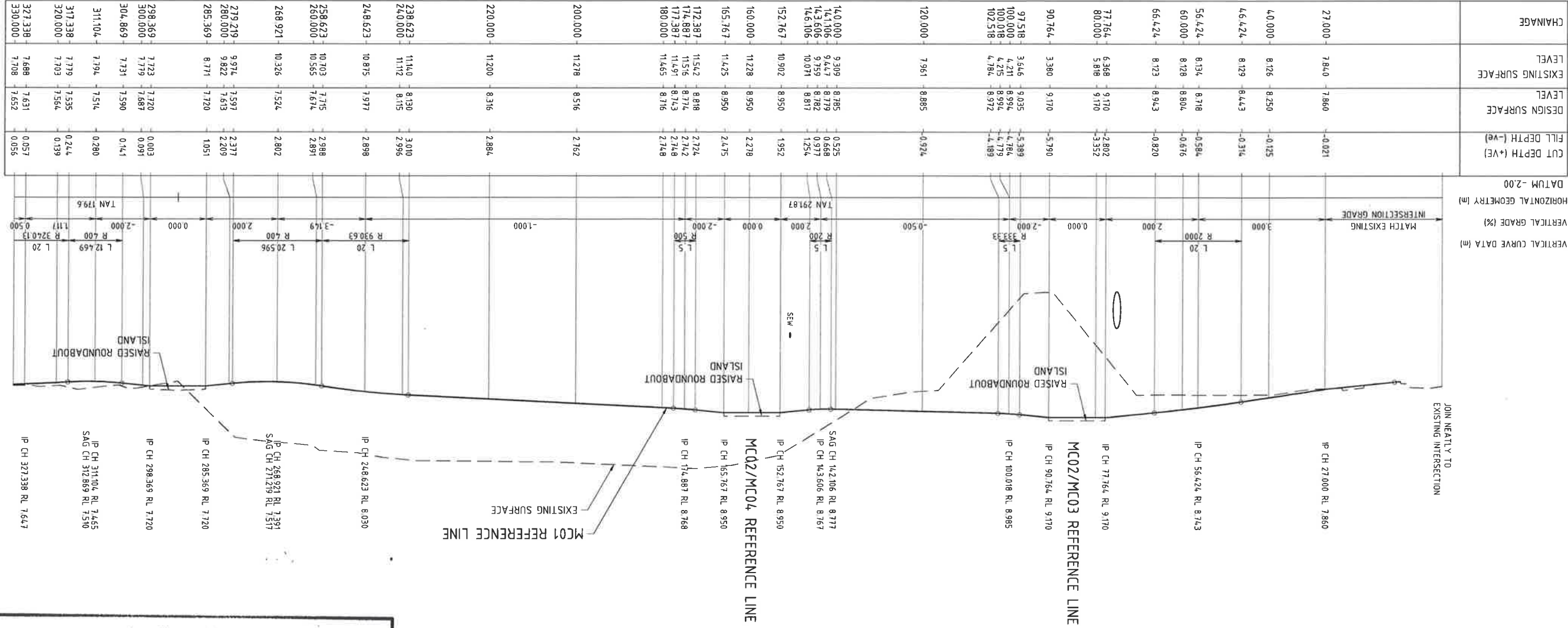
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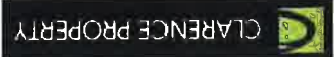
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In respect to MP. 06-0258

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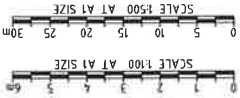
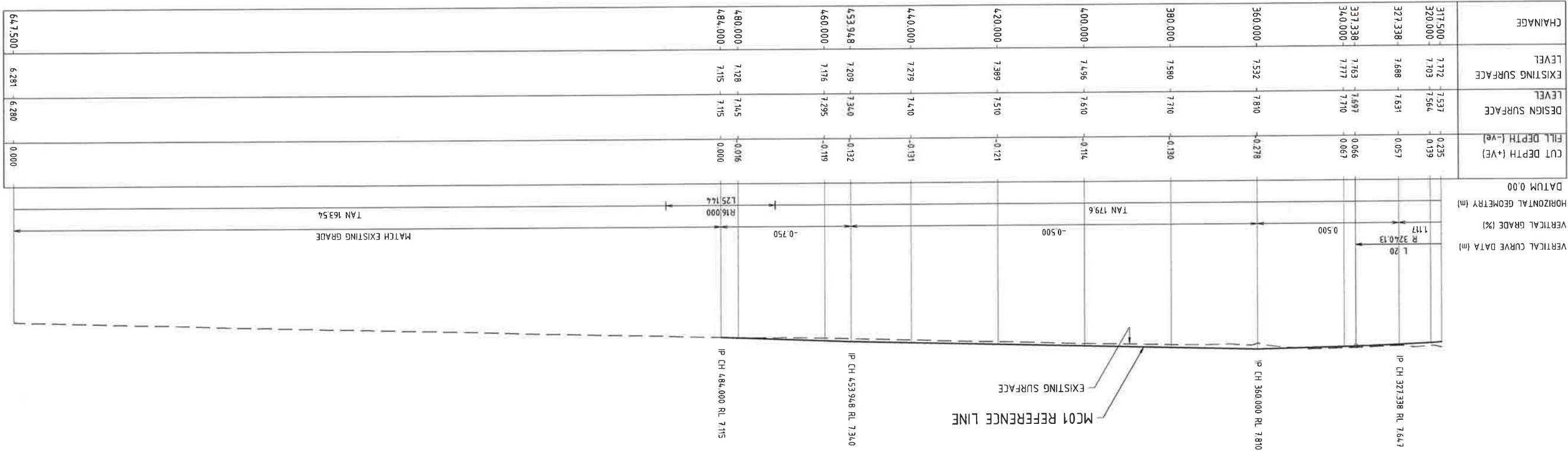
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ROAD LONGITUDINAL SECTION
MC01 SHEET 2

MC01 LONGITUDINAL SECTION (CON'T)

SCALE HORIZ 1:500 VERT 1:100



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No. 10

in respect to MP 06-0258

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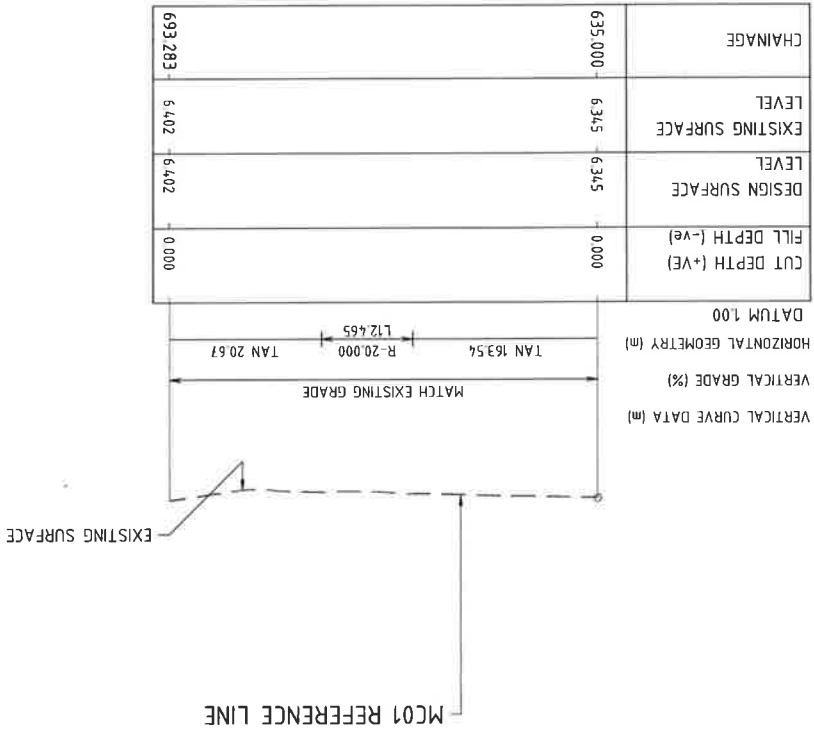


CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

SCALE	1:100
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SCALE	1:100
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MC01 LONGITUDINAL SECTION (CON'T)



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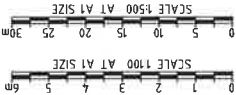
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No. 10 granted on the 7 May 2018

in respect to MP 06-0258

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CHAINAGE	EXISTING SURFACE LEVEL	DESIGN SURFACE LEVEL	CUT DEPTH (+VE) FILL DEPTH (-VE)
0.000	4.769	9.170	-4.400
6.500	4.758	9.170	-4.412
20.000	4.782	8.900	-4.117
40.000	4.829	8.500	-3.671
60.000	4.922	8.100	-3.177
80.000	4.628	7.700	-3.072
93.647	3.480	7.427	-3.946
100.000	3.476	7.310	-3.834
118.647	5.657	7.083	-1.426
120.000	5.645	7.073	-1.429
140.000	5.569	7.037	-1.468
143.647	5.542	7.052	-1.510
160.000	5.414	7.134	-1.720
180.000	5.767	7.234	-1.467
200.000	5.645	7.334	-1.689
220.000	5.884	7.434	-1.550
260.000	5.886	7.634	-1.747
280.000	6.714	7.734	-1.019
300.000	6.296	7.834	-1.537
320.000	6.060	7.934	-1.873
330.000	6.859	7.984	-1.125

MC01 REFERENCE LINE

IP CH 6.500 RL 9.170

RAISED ROUNDABOUT

SEW

IP CH 118.647 RL 6.927

SAG CH 133.647 RL 7.027

EXISTING SURFACE

MC02 REFERENCE LINE

HORIZONTAL GEOMETRY (m)

VERTICAL GRADE (%)

VERTICAL CURVE DATA (m)

DATUM -2.00

0.000

2.000

TAN 72.83

R25.000

L77.564

TAN 36.27

R 2000

L 50

TAN 24.15

R100.000

L75.934

TAN 27.09

R15.000

L24.893

TAN 46.54

R15.000

L23.562

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Issued under the Environmental Planning and Assessment Act 1979

Approved Section 75W Modification Application

No. 10 granted on the 7 Nov 2018

in respect to MP 06-0258

Signed *JB*

Sheet No. 30 of 47



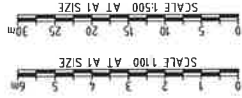
CLARENCE PROPERTY



ISSUED FOR APPROVAL

B16097	C-0024
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	A	
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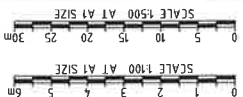
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No. 10 granted on the 7 Nov 2018
In respect to MP 06-0258
Signed JB
Sheet No. 31 of 47



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ISSUED FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

ROAD LONGITUDINAL SECTION
MC04 SHEET 1



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Approved Section 75W Modification Application

No. 16 granted on the 7 Nov 2018

In respect to MP 06-0258

Signed *[Signature]*

Sheet No. 33 of 47

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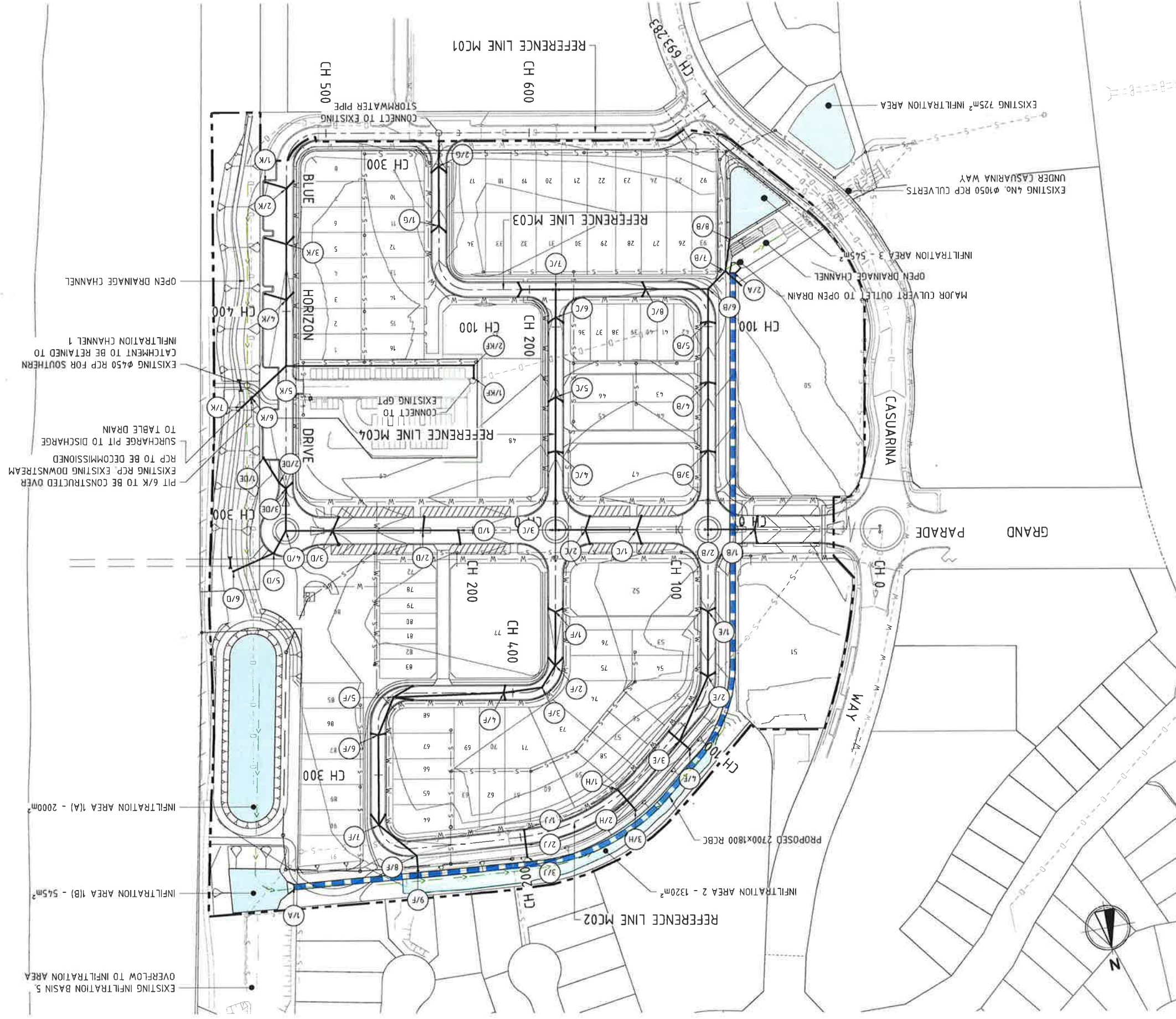
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CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

ISSUED FOR APPROVAL		NOT TO BE USED FOR CONSTRUCTION	
DATE	TIME	DATE	TIME
11/10/00	11:00	11/10/00	11:00

STORMWATER LAYOUT PLAN
SHEET 1



BIO-RETENTION IS TO BE PROTECTED FROM SEDIMENT INPUTS DURING HOUSING CONSTRUCTION. BIO-RETENTION TO BE HANDED OVER TO COUNCIL AFTER 90% HOUSING CONSTRUCTION IS COMPLETE.

NOTE

- LEGEND
- + CH 100
- DESIGN CONTROL LINE
- LIMIT OF WORKS BOUNDARY
- PROPOSED LIP OF KERB
- PROPOSED RETAINING WALL
- PROPOSED MINOR STORMWATER NETWORK
- PROPOSED MAJOR CULVERT AND HEADWALL
- PROPOSED DRAINAGE STRUCTURE
- INFILTRATION AREA (5900m² TOTAL)
- PROPOSED SWALE DRAIN
- PROPOSED TRUNK SEWER ALIGNMENT
(0.3m - 5.0m DEEP)
- PROPOSED SEWER ALIGNMENT
(0m - 3.0m DEEP)
- PROPOSED WATER
- PROPOSED WATER CONNECTION
- PROPOSED CONTOURS
- EXISTING WATER
- EXISTING OVERHEAD POWER LINE
- EXISTING CONTOURS

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Approved Section 75W Modification Application

No. 10 granted on the Nov 7, 2018

in respect to MP 06-0258

Signed *JB*

34 of 47

SCALE 1:1000 AT A1 SIZE

0 10 20 30 40 50 60m

[illegible]

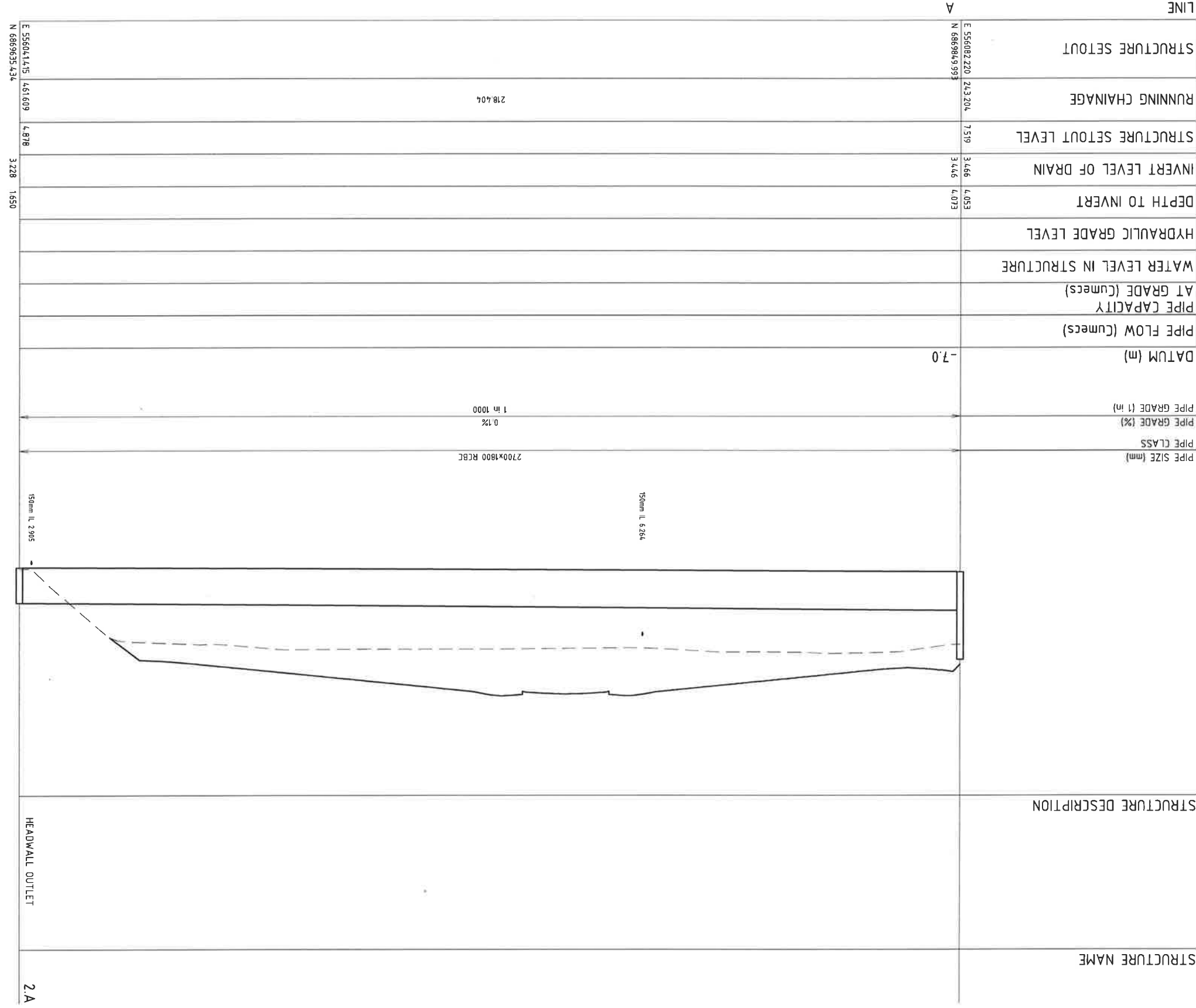
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CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

ISSUED FOR APPROVAL		NOT TO BE USED FOR CONSTRUCTION	
DATE	BY	DATE	BY
10/10/2017	CK	10/10/2017	BJ
MGA696		AHD	
AS SHOWN		AS	
DATE	BY	DATE	BY
10/10/2017	MW	10/10/2017	BK

STORMWATER
LONGITUDINAL SECTIONS
SHEET 2



NOTE
1. PIPE SIZES TO BE DETERMINED DURING
DETAILED DESIGN.



Planning & Environment

Approved Section 75W Modification Application

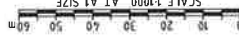
Approved Section 75W Modification Application

No. 16 granted on the 7 Nov 2018

06-0258

83

Sheet No. 36 of 47



NO.	DATE	DESCRIPTION	BY	CHK	APP
1	08/08/17	ISSUED FOR DA APPROVAL			
2					
3					
4					
5					
6					
7					
8					
9					
10					



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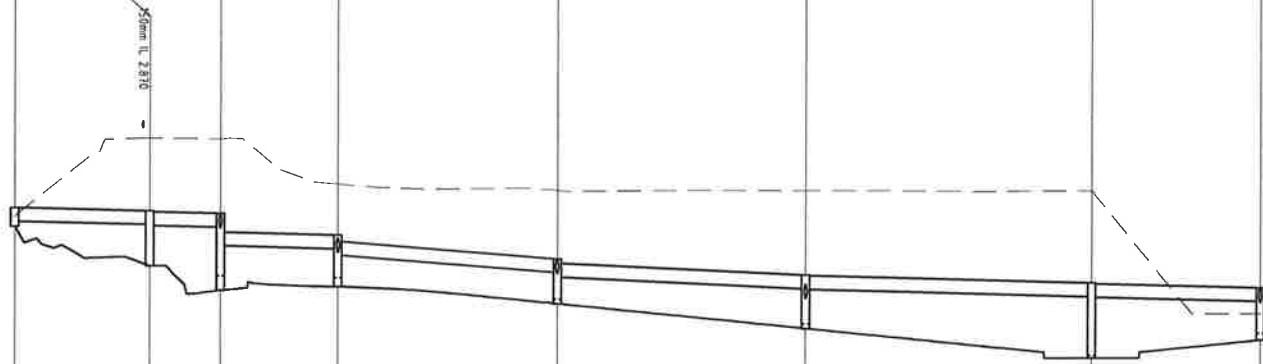


CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

STAGE	ISSUED FOR APPROVAL	NOT TO BE USED FOR CONSTRUCTION
CK	BJ	MW
AS SHOWN		

PROJECT NO.	B16097
DRAWING NO.	C-0037
DATE	
BY	B

STRUCTURE NAME	STRUCTURE DESCRIPTION	PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE (%)	PIPE GRADE (1 in)	DATUM (m)	PIPE FLOW (Cumecs)	PIPE CAPACITY	AT GRADE (Cumecs)	WATER LEVEL IN STRUCTURE	HYDRAULIC GRADE LEVEL	DEPTH TO INVERT	INVERT LEVEL OF DRAIN	STRUCTURE SETOUT LEVEL	RUNNING CHAINAGE	STRUCTURE SETOUT	LINE
1.B	MANHOLE	375	RCP CL3	0.5%	1 in 200	-7.0					0.000	1.420	7.415	8.835	22.923	E 556051556 0.000 N 6869762638	
2.B	MANHOLE	375	RCP CL3	0.5%	1 in 200						0.000	2.019	7.301	9.320	22.923	E 556074.075 22.923 N 6869758356	
3.B	MANHOLE	375	RCP CL3	0.5%	1 in 200						0.000	1.436	7.086	8.522	33.804	E 556066.809 61.813 N 6869720156	
4.B	MANHOLE	375	RCP CL3	0.93%	1 in 107.5						0.000	1.094	6.752	7.846	29.845	E 556064.974 95.617 N 6869686.94	
5.B	MANHOLE	375	RCP CL3	1.58%	1 in 63.2						0.000	1.222	6.156	7.378	15.934	E 556054.976 125.463 N 6869657622	
6.B	MANHOLE	375	RCP CL3	0.5%	1 in 200						0.000	1.579	5.891	7.469	9.602	E 556051940 141.396 N 6869641964	
7.B	SAG INLET	375	RCP CL3	0.5%	1 in 200						0.000	1.472	5.332	6.804	18.416	E 556044.093 150.938 N 6869636.438	
8.B	HEADWALL OUTLET	375	RCP CL3	0.5%	1 in 200						0.000	0.503	5.270	5.712	169.414	E 556037.250 169.414 N 6869619338	



NOTE
1. PIPE SIZES TO BE DETERMINED DURING
DETAILED DESIGN.

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Approved Section 75W Modification Application

No. 10

in respect to MP 06-0258

Signed *SB*

Sheet No. 37 of 47

SCALE 1:1000 AT A1 SIZE

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Approved Section 75W Modification Application

No. 10 granted on the 7 Nov 2018

in respect to MP 06-0258

Signed DB

Sheet No. 38 of 47

REV	DATE	DESCRIPTION
A	28/03/17	ISSUED FOR DA APPROVAL
B	08/08/17	AS PER DA APPROVAL
REV		



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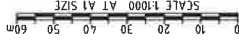


CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

ISSUED FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

DATE	BY	CHK	APP	REV
28/03/17	B.J.	B.K.	M.W.	A.S. SHOWN

STORMWATER
LONGITUDINAL SECTIONS
SHEET 5
C-0039
B



LINE	STRUCTURE SETOUT	RUNNING CHAINAGE	STRUCTURE SETOUT LEVEL	INVERT LEVEL OF DRAIN	DEPTH TO INVERT	HYDRAULIC GRADE LEVEL	WATER LEVEL IN STRUCTURE	PIPE GRADE (Cumecs)	PIPE CAPACITY	PIPE FLOW (Cumecs)	DATUM (m)	PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE (%)	PIPE GRADE (1 in)	STRUCTURE DESCRIPTION	
1.D	MANHOLE	E 556194.639 0.000 N 6869735.423	8.446	7.100	1346						-5.0	375	RCP CL3	0.5%	1 in 200	MANHOLE	1.D
2.D	MANHOLE	E 55624.128 17592 N 6869726.581	8.271	7.012	1258							375	RCP CL3	0.5%	1 in 200	MANHOLE	2.D
3.D	MANHOLE	E 556264.342 61780 N 6869722.171	7.525	6.679	0.846							375	RCP CL3	0.97%	1 in 103.5	MANHOLE	3.D
4.D	MANHOLE	E 556270.969 84.819 N 6869688.261	7.921	6.385	11536							375	RCP CL3	0.5%	1 in 200	MANHOLE	4.D
5.D	MANHOLE	E 556278.281 97.362 N 6869656.175	7.722	6.302	1420							375	RCP CL3	0.5%	1 in 200	MANHOLE	5.D
6.D	HEADWALL OUTLET	E 556281.777 117.789 N 6869655.511	6.171	6.180	-0.009							375	RCP CL3	6.8%	1 in 14.7	HEADWALL OUTLET	6.D

1.E	MANHOLE	E 556081.609 0.000 N 6869797.971	8.493	7.288	1205						-8.0	375	RCP CL3	1.65%	1 in 60.6	MANHOLE	1.E
2.E	MANHOLE	E 556087.580 31.958 N 6869829.366	7.854	6.760	1094							375	RCP CL3	1.94%	1 in 51.4	MANHOLE	2.E
3.E	MANHOLE	E 556107.260 66.540 N 6869857.801	7.092	5.979	1113							375	RCP CL3	0.5%	1 in 200	MANHOLE	3.E
4.E	HEADWALL OUTLET	E 556103.146 73.076 N 6869862.881	7.017	5.926	1091							375	RCP CL3	0.5%	1 in 200	HEADWALL OUTLET	4.E

NOTE

1. PIPE SIZES TO BE DETERMINED DURING
DETAILED DESIGN.

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Approved Section 75W Modification Application
No. **10** granted on the **7 Nov 2018**
in respect to MP **06 - 0258**
Signed *SB*
Sheet No. **39** of **47**



CLARENCE PROPERTY



ISSUED FOR APPROVAL

MANHOLE	1.67	6.108	10.59	-6.0				1 in 59.2	1 in 200	MANHOLE	1.67
E 556176.337	0.000									E 556176.337	0.000
N 68695586.376										N 68695586.376	
E 556171.004	29.321	6.576	0.964							E 556171.004	29.321
N 6869557.538	12.388	5.463	1.113							N 6869557.538	12.388
E 556168.542	4.1709									E 556168.542	4.1709
N 6869545.398										N 6869545.398	
		5.401	11.220								

NOTE

PIPE SIZES TO BE DETERMINED DURING DETAILED DESIGN.

	Planning & Environment	1/F	Issued under the Environmental Planning and Assessment Act 1979	Approved Section 75W Modification Application	No 10 granted on the 7 Nov 2018	in respect to MP 06-0258	Signed _____ STRUCTURE DESCRIPTION	MANHOLE	Sheet No. 40 47
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CLARENCE PROPERTY



ISSUED FOR APPROVAL

[illegible]

 NSW GOVERNMENT	Planning & Environment MANDEL	Issued under the Environmental Planning and Assessment Act 1979
	Approved Section 75W Modification of the	No 10 granted on the 7 Nov 2018
in respect to MP 06-0258		Signed Sheet No 47

[illegible]

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CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

ISSUED FOR APPROVAL

SERVICES PLAN
SHEET 1

NSW GOVERNMENT
Planning & Environment

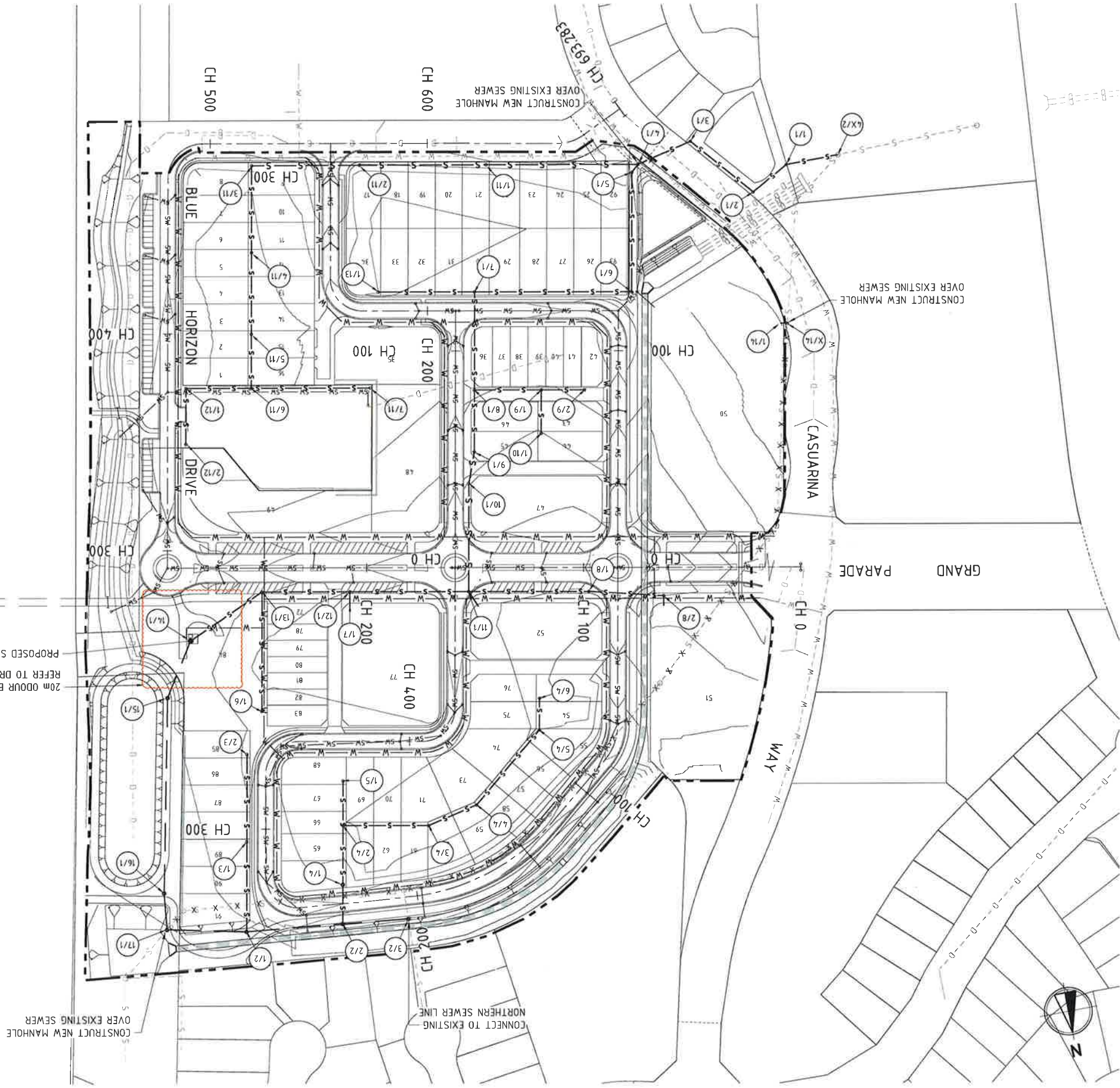
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Approved Section 75W Modification Application

No. 10 granted on the 7 Nov 2018

Signed 83

Sheet No. 42 of 47



- [illegible]

REV	DATE	DESCRIPTION
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2	08/08/17	ISSUED FOR DA APPROVAL
3	08/08/17	ISSUED FOR DA APPROVAL
4	08/08/17	ISSUED FOR DA APPROVAL
5	08/08/17	ISSUED FOR DA APPROVAL
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12	08/08/17	ISSUED FOR DA APPROVAL
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14	08/08/17	ISSUED FOR DA APPROVAL
15	08/08/17	ISSUED FOR DA APPROVAL
16	08/08/17	ISSUED FOR DA APPROVAL
17	08/08/17	ISSUED FOR DA APPROVAL
18	08/08/17	ISSUED FOR DA APPROVAL
19	08/08/17	ISSUED FOR DA APPROVAL
20	08/08/17	ISSUED FOR DA APPROVAL



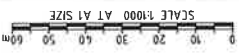
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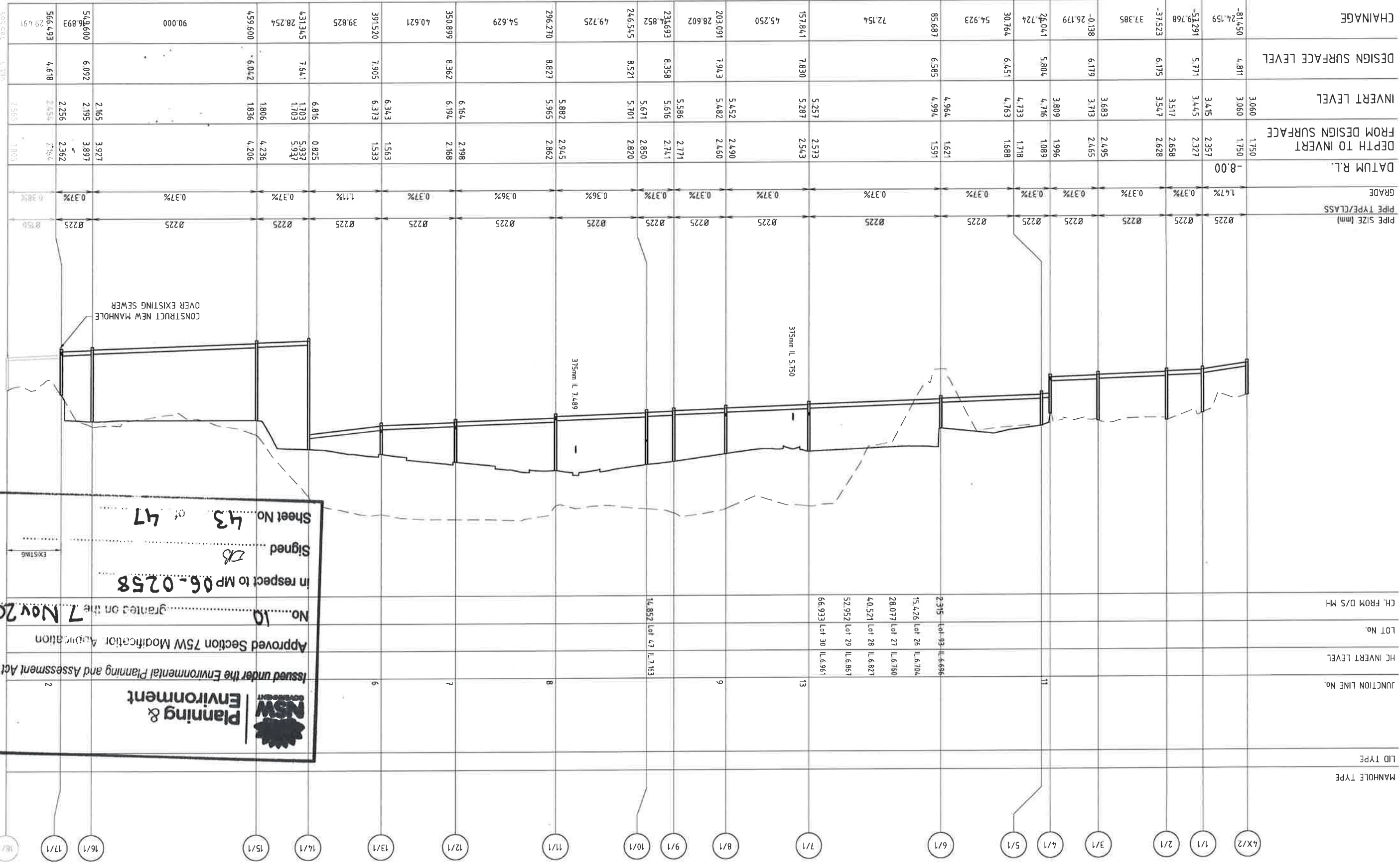
CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

ISSUED FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
DRAWN BY: CK
CHECKED BY: BJ
SCALE: AS SHOWN
PROJECT NO: B16097
SHEET 1

SEWAGE RETICULATION
LONGITUDINAL SECTIONS
SHEET 1
C-0055



LINE 1



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Issued under the Environmental Planning and Assessment Act 1979
Approved Section 75W Modification Application
No. 10 granted on the 7 Nov 2018
in respect to MP 06-0258
Signed *JB*
Sheet No. 43 of 47

Approved Section 75W Modification Application

granted on the **7 Nov 2018**

in respect to MP 06-0258

Signed SB

Sheet No. 44 of 47

MANHOLE TYPE	LID TYPE	JUNCTION LINE No.	HC INVERT LEVEL	LOT No.
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[illegible][illegible][illegible]

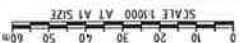
CLARENCE PROPERTY										 PROJECT CASUARINA BEACH TOWN CENTRE - STAGE 2 CASUARINA WAY, NSW 2487										ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION APPROVED BY DRAWN BY CHECKED BY SCALE AHD AS SHOWN SHEET NO.										SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 3										PROJECT NO. DATE B16097 2007										DATE BY 2007 B C-0057									
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555 TO C

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Planning & Environment
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 Approved Section 75W Modification Application
 No. 10 granted on the 7 Nov 2018
 in respect to MP 06-0258
 Signed EB
 Sheet No. 45 of 47

6.526	Lot 39	IL 6.523
18.013	Lot 38	IL 6.512
26.025	Lot 39	IL 6.537
3.536	Lot 40	IL 6.587
11.878	Lot 41	IL 6.529
19.999	Lot 42	IL 6.380

5.821	Lot 92	IL 6.011
18.545	Lot 25	IL 5.989
31.078	Lot 24	IL 6.111
43.624	Lot 23	IL 6.054
55.859	Lot 22	IL 6.118
70.010	Lot 21	IL 6.199
12.275	Lot 20	IL 6.263
25.006	Lot 19	IL 6.341
37.401	Lot 18	IL 6.415
49.947	Lot 17	IL 6.329



REV	DATE	DESCRIPTION
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2	08/08/17	ISSUED FOR APPROVAL
3	08/08/17	ISSUED FOR APPROVAL
4	08/08/17	ISSUED FOR APPROVAL
5	08/08/17	ISSUED FOR APPROVAL
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7	08/08/17	ISSUED FOR APPROVAL
8	08/08/17	ISSUED FOR APPROVAL
9	08/08/17	ISSUED FOR APPROVAL
10	08/08/17	ISSUED FOR APPROVAL



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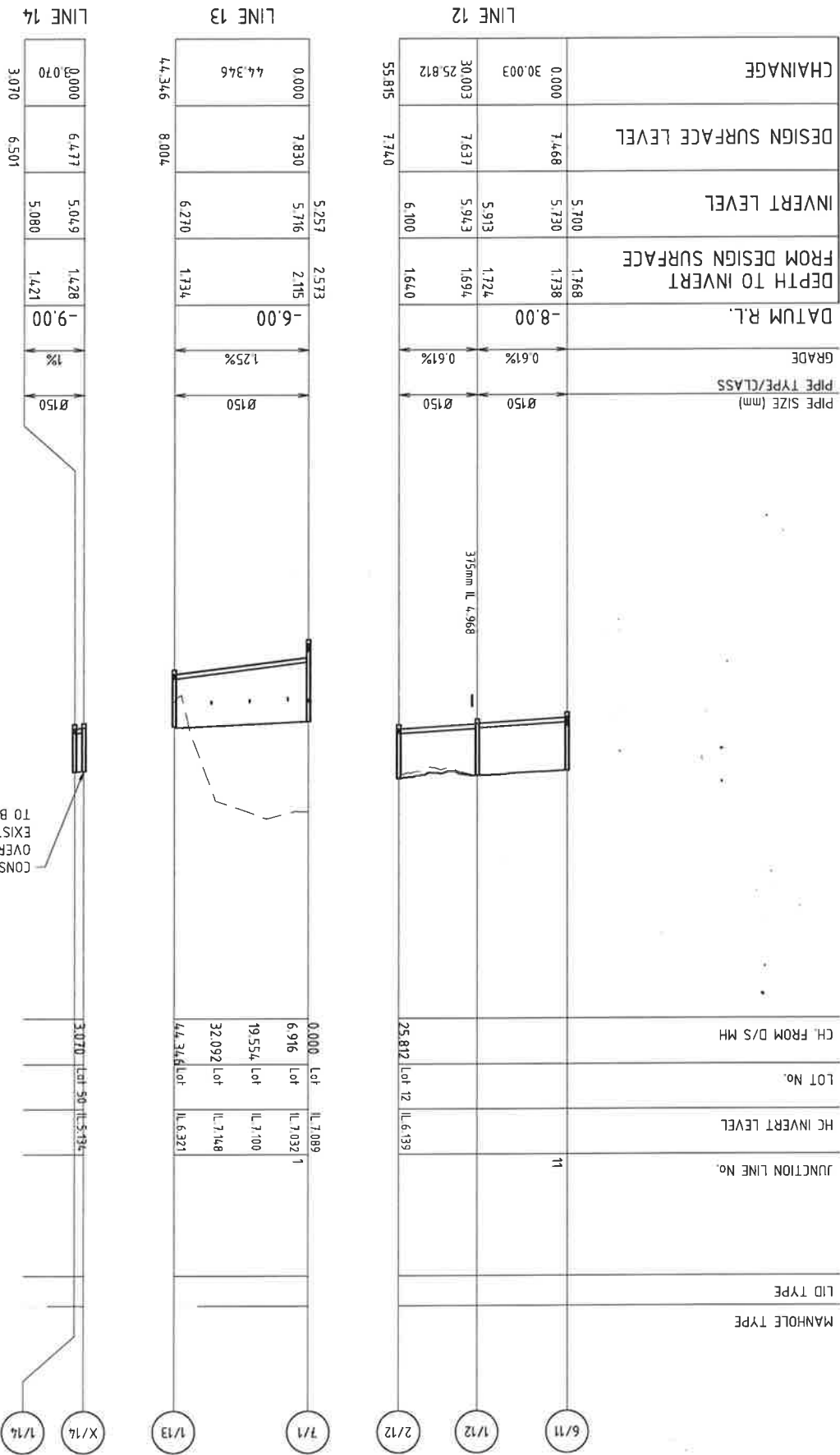
CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

ISSUED FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

DATE	BY	CHK	APP	AS SHOWN
08/08/17	CK	BJ	MW	BK

SEWERAGE RETICULATION
LONGITUDINAL SECTIONS
SHEET 4
B16097
C-0058

SCALE 1:1000 AT A1 SIZE
0 10 20 30 40 50 60m



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No. 10 granted on the 7 Nov 2018
in respect to MP 06-0258
Signed 28
Sheet No. 46 of 47

REV	DATE	DESCRIPTION
1	08/08/17	ISSUED FOR DA APPROVAL
2	09/08/17	ISSUED FOR DA APPROVAL
3	09/08/17	ISSUED FOR DA APPROVAL
4	09/08/17	ISSUED FOR DA APPROVAL
5	09/08/17	ISSUED FOR DA APPROVAL
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7	09/08/17	ISSUED FOR DA APPROVAL
8	09/08/17	ISSUED FOR DA APPROVAL
9	09/08/17	ISSUED FOR DA APPROVAL
10	09/08/17	ISSUED FOR DA APPROVAL



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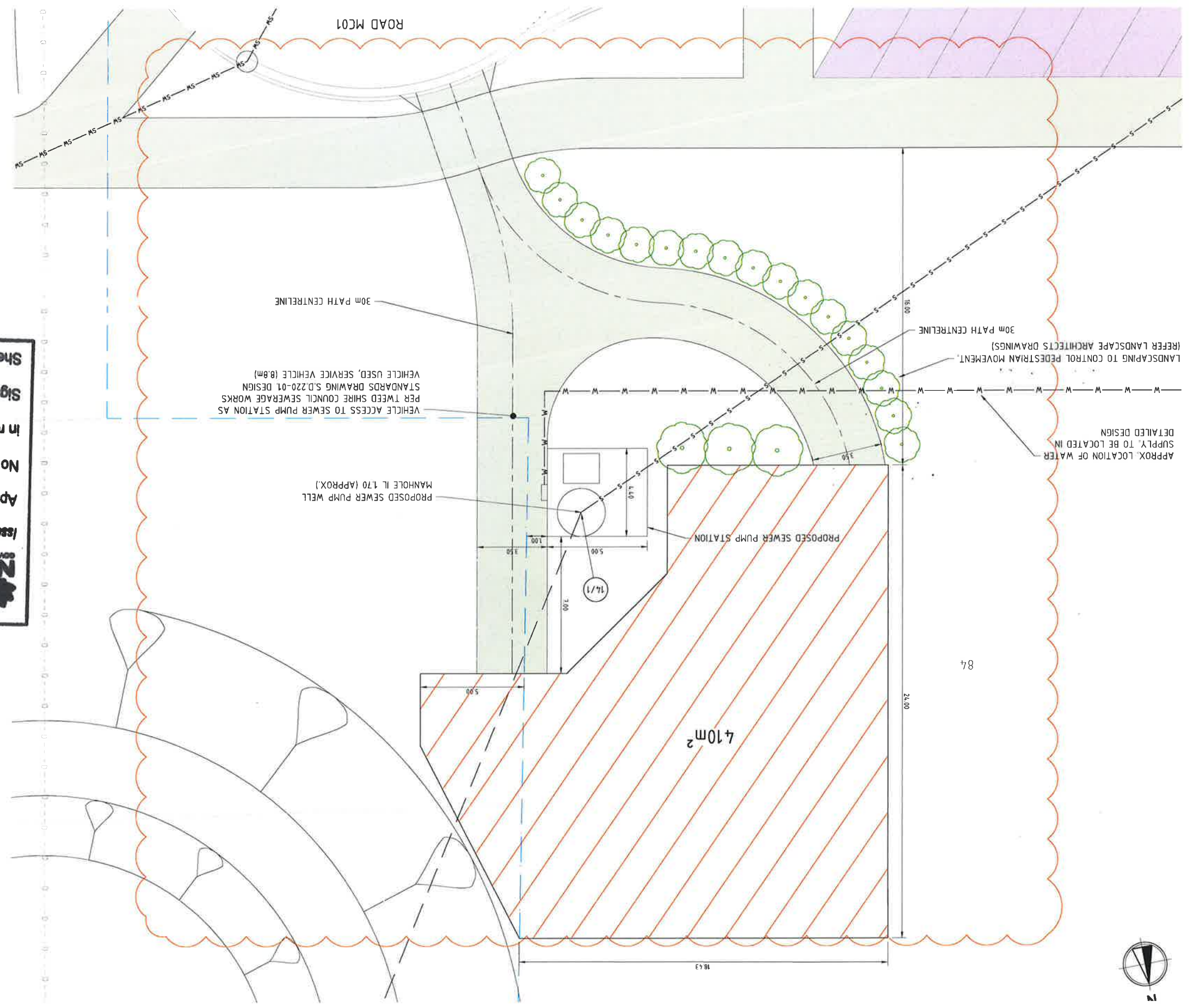


CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

MG949	AHD	1:100	AK	SS
AK	AK	MW	BK	SS

ISSUED FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
SEWER PUMP STATION
LAYOUT
PROJECT NO. B16097
DRAWING NO. C-0060
REV. B

SCALE 1:100 AT SIZE



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Approved Section 75W Modification Application
No. 10 granted on the 7 Nov 2018
in respect to MP 06-0258
Signed *JB*
Sheet No. 47 of 47



- LEGEND**
- PROPOSED TRUNK SEWER ALIGNMENT (3.0 - 5.0m DEEP)
 - PROPOSED SEWER ALIGNMENT (3.0 - 5.0m DEEP)
 - PROPOSED SEWER STRUCTURE (0 - 3.0m DEEP)
 - PROPOSED WATER RETICULATION ALIGNMENT
 - PROPOSED INTERNAL STORMWATER
 - PROPOSED ELECTRICAL
 - COASTAL FORESHORE BOUNDARY
 - EXTENT OF AREA ALLOWABLE FOR PLAYGROUND EQUIPMENT