





SEE SHEET 1

Rev.D 19-6-20 Stage 1A&1B Updated	BDR
Rev.C 9-6-20 Stage 1A&1B & Sed Basin Updated	BDR
Rev.B 7-5-20 Stage 1A Updated	BDR
Rev.A 2-4-20 Int'n SW updated	BDR
Revision	Chk
Associate Consultants:	
KNOBEL CONSULTING ENGINEERS & PLANIT CONSULTING ENGINEERS	

IMPORTANT NOTES :
ORIGIN OF LEVELS:
VIDE SSM78482 RL 17.2 A.H.D.
NOTE THAT ALL DIMENSIONS ARE SHOWN
IN METRES
•FH DENOTES FIRE HYDRANT
xSV DENOTES STOP VALVE
•CPIT DENOTES COMMUNICATIONS PIT
•EMH DENOTES ELECTRICITY PIT
•EPP DENOTES ELECTRICITY POLE
•EPIL DENOTES ELEC.PILLAR
•ELP DENOTES LIGHT POLE

THIS IS AN INTEGRAL PART OF THIS PLAN
WORK AS EXECUTED PLAN
WATER RETICULATION
STAGES 1A, 1B & EXTERNAL INTERSECTION
"AUREUS ESTATE"
SKENNARS HEAD
FOR INTRAPAC SKENNARS HEAD PTY LTD

Parish of BALLINA County of Rous

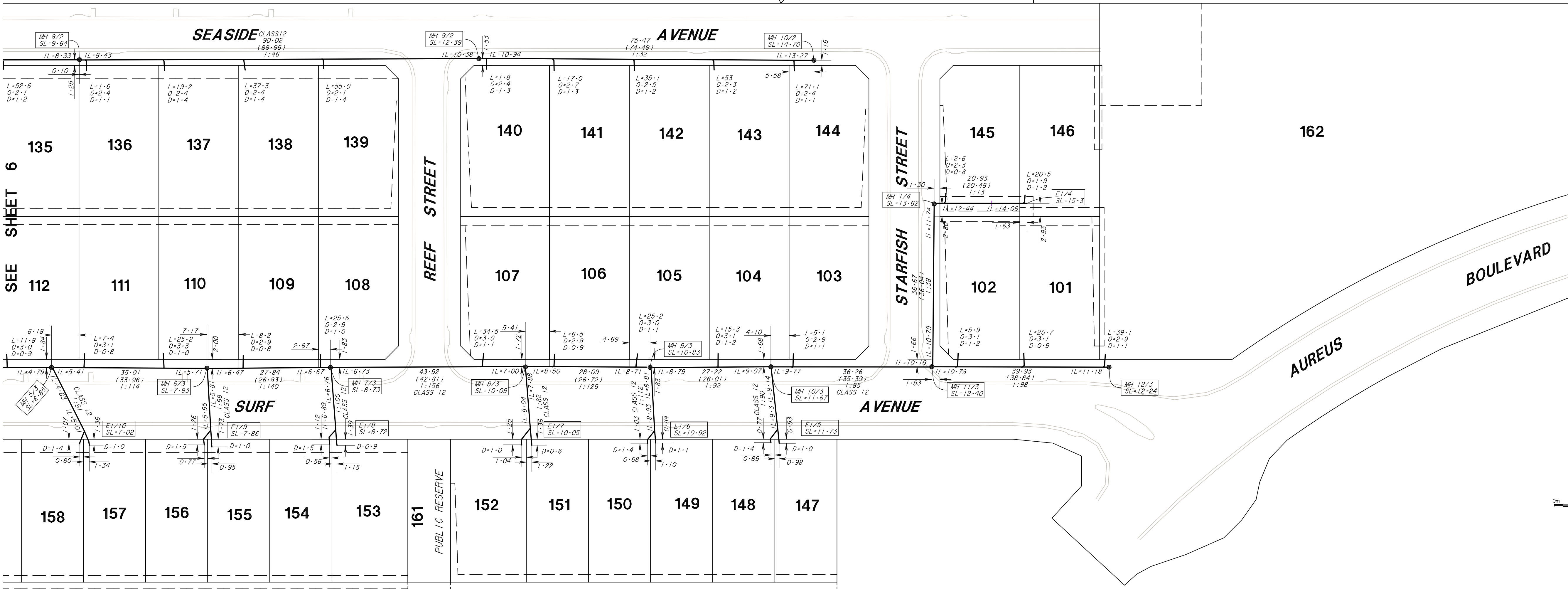
B & P SURVEYS
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Facsimile: (02) 66722618
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Offices Also At :
Nerang
Ph: (07) 55960370


A QUALITY ASSURED COMPANY
www.bpsurveys.com.au
Home page:
Tweed Heads
Ph: (07) 55363611

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P:\31800-31890\wse\190801\235708-D-pro		SCALE		Level	DATUM	Drawn	Chk'd	F.Bk	L.Bk
1:500 A1		A.H.D.		808				909.919	-
REF. NO.	DATE	DRAWING No./Size	Sheet	Q1	Rev				
M31890	19-2-2020	23570 B	2	25	D				

SEE SHEET 3



0m 10 20 30 40 50
Scale in Metres - 1:500

Rev.D 19-6-20 Stage 1A&B Updated	BDR
Rev.C 9-6-20 Stage 1A&B & Sed Basin Updated	BDR
Rev.B 7-5-20 Stage 1A Updated	BDR
Rev.A 2-4-20 Int'l SW updated.	BDR
Revision	Chk
Associate Consultants:	
KNOBEL CONSULTING ENGINEERS & NOBEL CONSULTING ENGINEERS	

IMPORTANT NOTES :

ORIGIN OF LEVELS:
VIDE SSM78482 RL 17'2 A.H.O.

NOTE THAT ALL DIMENSIONS ARE SHOWN
IN METRES

ALL PIPES ARE 0-15 DIA. CLASS SN8 UNLESS OTHERWISE SHOWN.

DISTANCE FROM MANHOLE TO MANHOLE WITH BRACKETED
DIMENSIONS BEING PIPE LENGTHS

HOUSE CONNECTIONS NOTED

DISTANCE FROM DOWNSTREAM MANHOLE

0 = OFFSET FROM SEWER LINE TO END OF HC

D = DEPTH

THIS IS AN INTEGRAL PART OF THIS PLAN

SYMBOLS

 SRM SCOUR VALVE

 SRM AIR VALVE

THIS IS AN INTEGRAL PART OF THIS PLAN

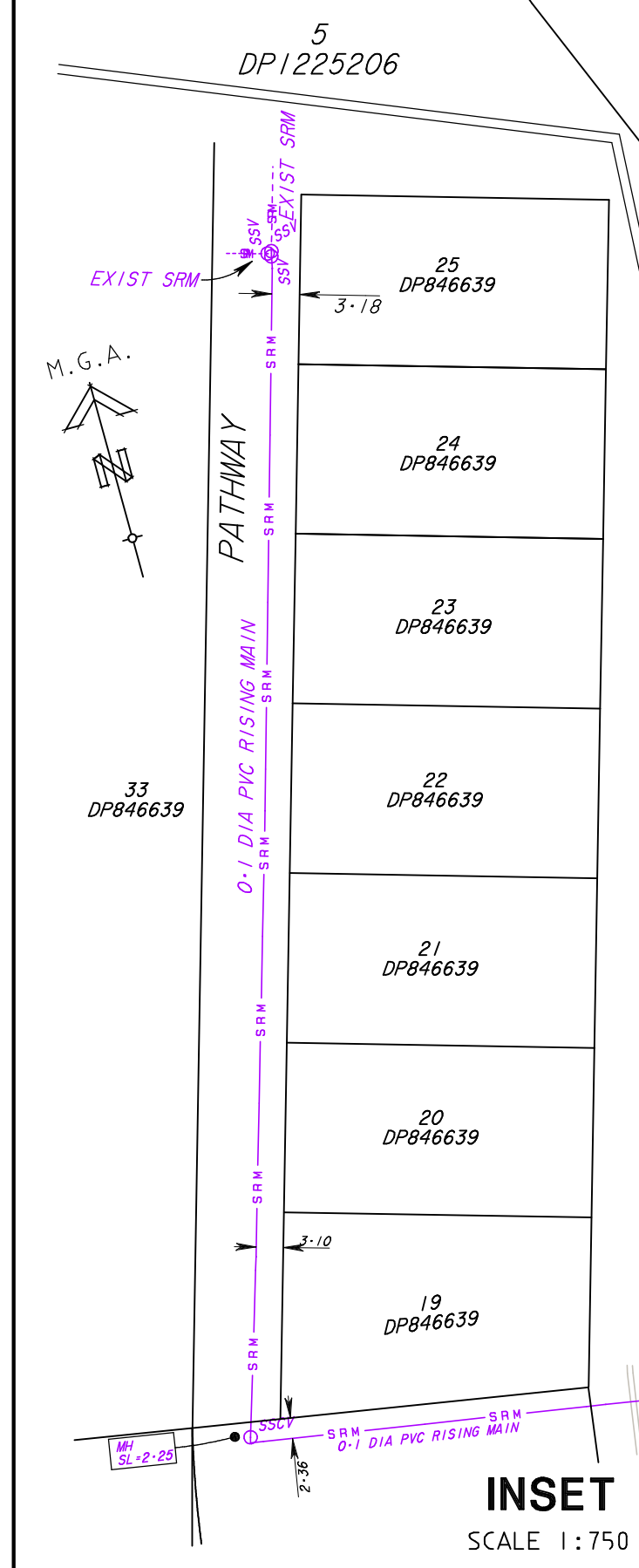
WORK AS EXECUTED PLAN
SEWER RETICULATION

STAGES 1A, 1B & EXTERNAL INTERSECTION
"AUREUS ESTATE"
SKENNARS HEAD
FOR INTRAPAC SKENNARS HEAD PTY LTD

Parish of BALLINA County of Rous

B & P SURVEYS
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P:\31800-131890\wee\190801\23570B-D-pro						
SCALE 1:500 AI 1:1000 A3	Level DATUM A.H.D.	Drawn BDR	Chk'd 909.919 928.929	F.Bk 909.919 928.929	L.Bk —	
REF. No. M31890	DATE 19-2-2020	DRAWING No./Size 23570 B	Sheet 5	Of 25	Rev. D	



SEE SHEET 5

SEE SHEET 7



Rev.D 19-6-20 Stage 1A&1B Updated	BDR
Rev.C 9-6-20 Stage 1A&1B & Sed Basin Updated	BDR
Rev.B 7-5-20 Stage 1A Updated	BDR
Rev.A 2-4-20 Int'n SW updated	BDR
Revision	Chk
Associate Consultants:	
KNOBEL CONSULTING ENGINEERS & PLANIT CONSULTING ENGINEERS	

IMPORTANT NOTES :
ORIGIN OF LEVELS:
VIDE SSM78482 RL 17.2 A.H.D.
NOTE THAT ALL DIMENSIONS ARE SHOWN IN METRES
ALL PIPES ARE 0.15 DIA. CLASS SBN UNLESS OTHERWISE SHOWN.
DISTANCES BEING PIPE LENGTHS
HOUSE CONNECTIONS NOTED:
L = DISTANCE FROM DOWNSIDE MANHOLE
D = OFFSET FROM SEWER LINE TO END OF HC
D = DEPTH
THIS IS AN INTEGRAL PART OF THIS PLAN

SRM SCOUR VALVE
SRM AIR VALVE

THIS IS AN INTEGRAL PART OF THIS PLAN

**WORK AS EXECUTED PLAN
SEWER RETICULATION**
STAGES 1A, 1B & EXTERNAL INTERSECTION
"AUREUS ESTATE"
SKENNARS HEAD
FOR INTRAPAC SKENNARS HEAD PTY LTD

Parish of BALLINA County of Rous

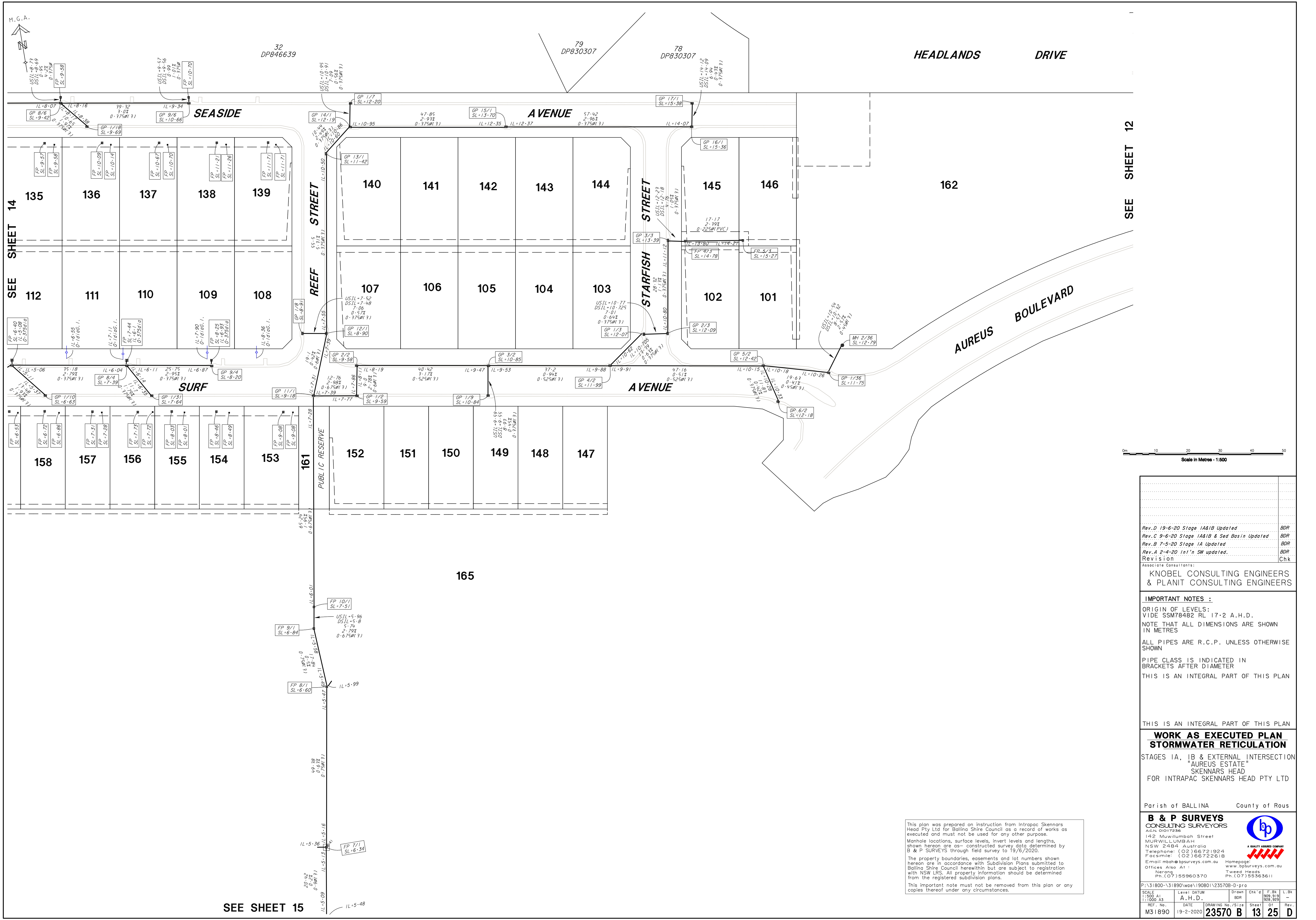
B & P SURVEYS
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P:\31800-131890\wss\190801\235708-D-prc		Level	DATUM	Drawn	Chk'd	F.Bk	L.Bk
SCALE	1:500 A1	A.H.D.				909,919	928,929
REF. NO.	M31890	DATE	19-2-2020	DRAWING No./Size	23570 B	Sheet	6
						Rev	25
							D



Rev.D 19-6-20 Stage 1A&1B Updated	BDR
Rev.C 9-6-20 Stage 1A&1B & Sed Basin Updated	BDR
Rev.B 7-5-20 Stage 1A Updated	BDR
Rev.A 2-4-20 Int'n SW updated.	BDR
Revision	Chk

Associate Consultants:
KNOBEL CONSULTING ENGINEERS
& PLANIT CONSULTING ENGINEERS

IMPORTANT NOTES :
ORIGIN OF LEVELS:
VIDE SSM78482 RL 17.2 A.H.D.
NOTE THAT ALL DIMENSIONS ARE SHOWN
IN METRES
ALL PIPES ARE R.C.P. UNLESS OTHERWISE
SHOWN
PIPE CLASS IS INDICATED IN
BRACKETS AFTER DIAMETER
THIS IS AN INTEGRAL PART OF THIS PLAN

THIS IS AN INTEGRAL PART OF THIS PLAN

WORK AS EXECUTED PLAN
STORMWATER RETICULATION
STAGES 1A, 1B & EXTERNAL INTERSECTION
"AUREUS ESTATE"
SKENNARS HEAD
FOR INTRAPAC SKENNARS HEAD PTY LTD

Parish of BALLINA County of Rous

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P:\31800-31890\wss\190801\235708-D-pro					
SCALE 1:500 A1 1:1000 A3	Level DATUM A.H.D.	Drawn BDR	Chk'd BDR	F.Bk 309,919	L.Bk 308,929
REF. No. M31890	DATE 19-2-2020	DRAWING No./Size 23570 B	Sheet 13	Rev 25	D



Rev.D 19-6-20 Stage 1A&1B Updated	BDR
Rev.C 9-6-20 Stage 1A&1B & Sed Basin Updated	BDR
Rev.B 7-5-20 Stage 1A Updated	BDR
Rev.A 2-4-20 Int'n SW updated	BDR
Revision	Chk
Associate Consultants:	
KNOBEL CONSULTING ENGINEERS & PLANIT CONSULTING ENGINEERS	

IMPORTANT NOTES :
ORIGIN OF LEVELS:
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THIS IS AN INTEGRAL PART OF THIS PLAN

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WORK AS EXECUTED PLAN
STORMWATER RETICULATION
STAGES 1A, 1B & EXTERNAL INTERSECTION
"AUREUS ESTATE"
SKENNARS HEAD
FOR INTRAPAC SKENNARS HEAD PTY LTD

Parish of BALLINA County of Rous

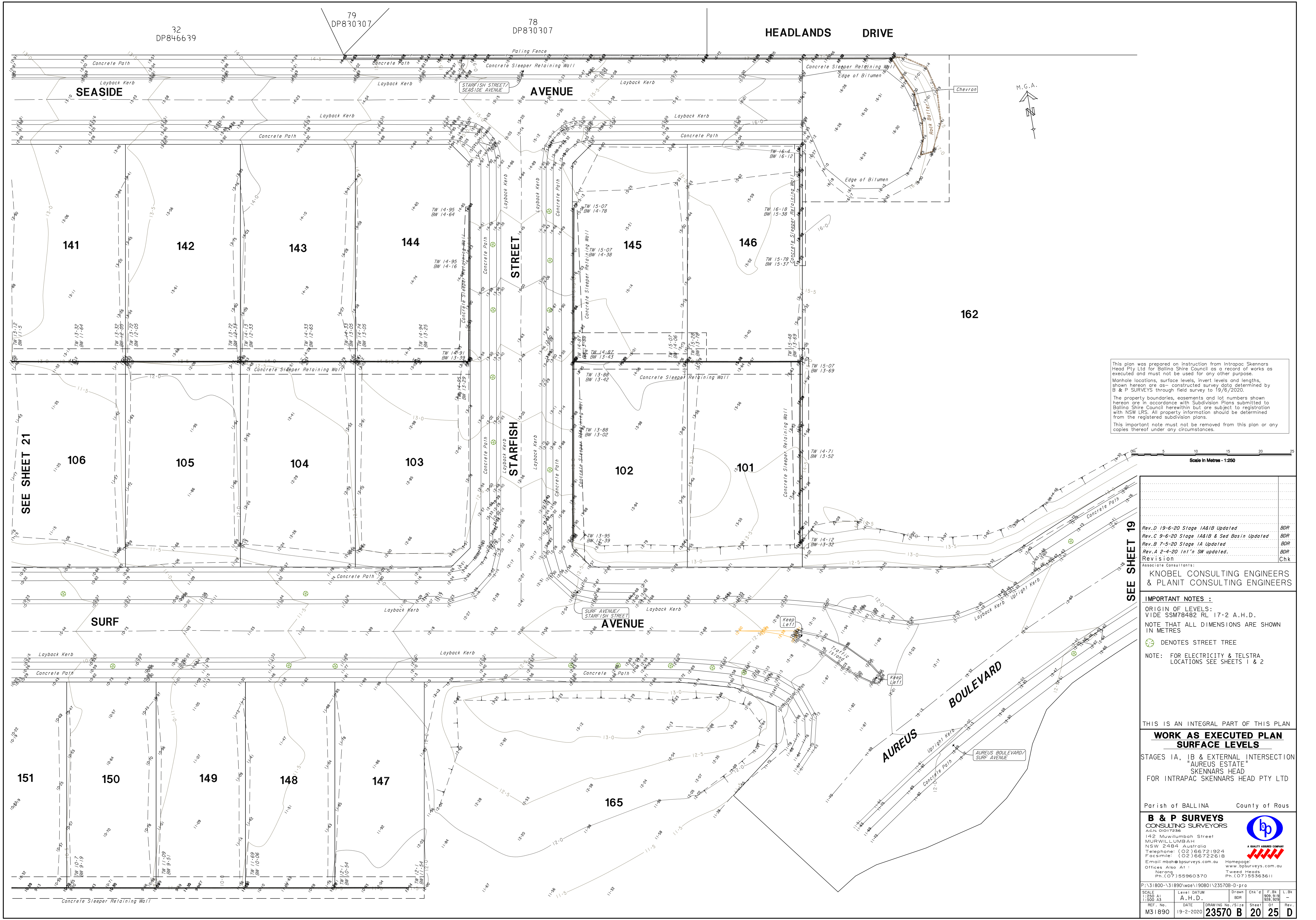
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SCALE	Level	DATUM	Drawn	Chk'd	F.Bk	L.Bk
1:1000 A3	A.H.D.		BDH		909,919	908,929
REF. NO.	DATE	DRAWING No./SIZE	Sheet	Rev		
M31890	19-2-2020	23570 B	14	25	D	

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Rev.D 19-6-20 Stage 1A&1B Updated	BDR
Rev.C 9-6-20 Stage 1A&1B & Sed Basin Updated	BDR
Rev.B 7-5-20 Stage 1A Updated	BDR
Rev.A 2-4-20 Int'n SW updated	BDR
Revision	Chk

Associate Consultants:
KNOBEL CONSULTING ENGINEERS & PLANIT CONSULTING ENGINEERS

IMPORTANT NOTES :
ORIGIN OF LEVELS:
VIDE SSM78482 RL 17.2 A.H.D.
NOTE THAT ALL DIMENSIONS ARE SHOWN IN METRES
DENOTES STREET TREE
NOTE: FOR ELECTRICITY & TELSTRA LOCATIONS SEE SHEETS 1 & 2

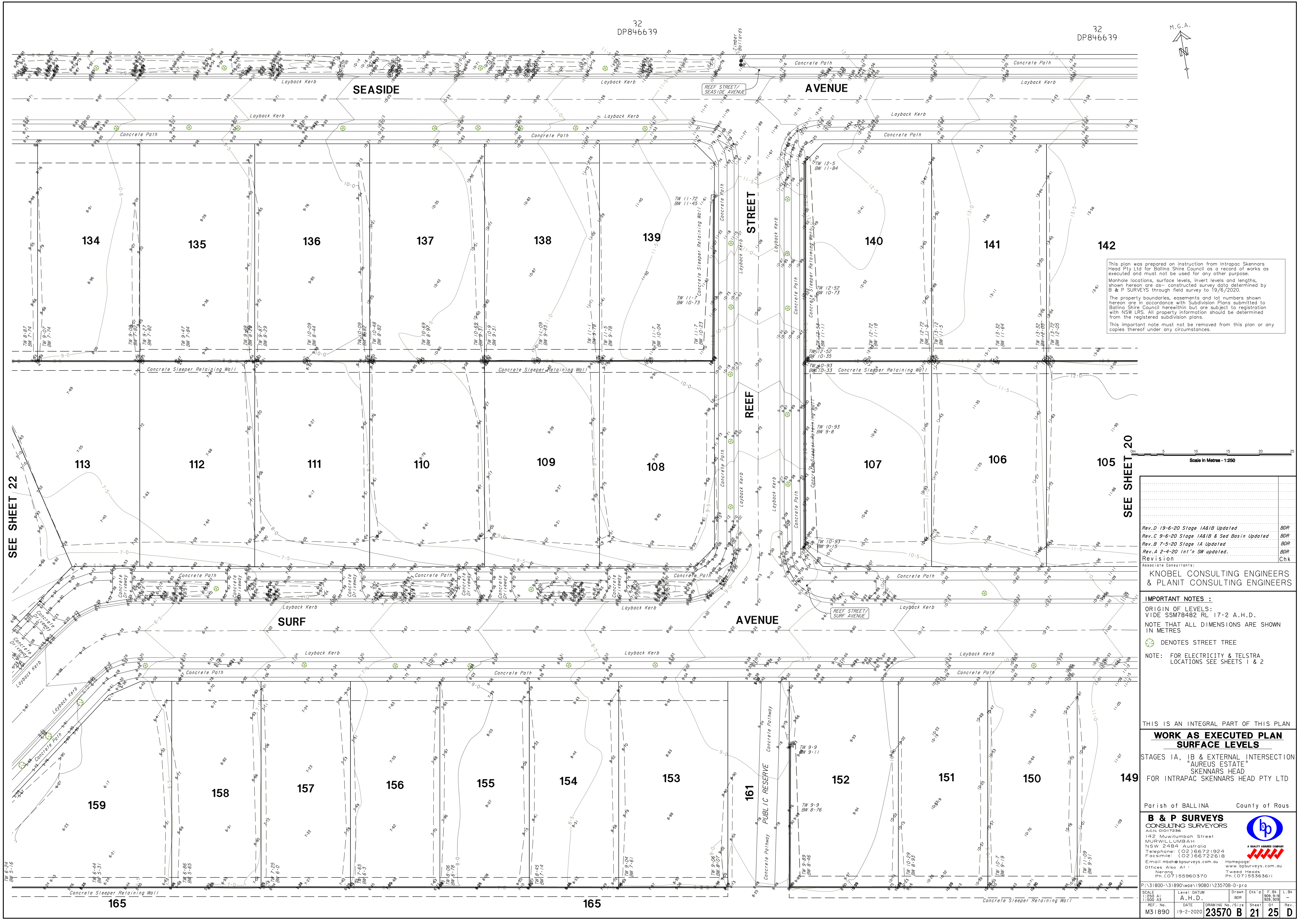
THIS IS AN INTEGRAL PART OF THIS PLAN
WORK AS EXECUTED PLAN SURFACE LEVELS
STAGES 1A, 1B & EXTERNAL INTERSECTION
"AUREUS ESTATE"
SKENNARS HEAD
FOR INTRAPAC SKENNARS HEAD PTY LTD

Parish of BALLINA County of Rous

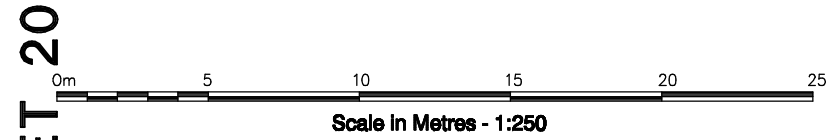
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P:\31800-31890\wse\190801\235708-D-pro					
SCALE	Level	DATUM	Drawn	Chk'd	L.Bk
1:250 AI	A.H.D.				
1:500 AS					
REF. No.	DATE	DRAWING No./Size	Sheet	Of	Rev
M31890	19-2-2020	23570 B	20	25	D



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Rev.D 19-6-20 Stage 1A&1B Updated	BDR
Rev.C 9-6-20 Stage 1A&1B & Sed Basin Updated	BDR
Rev.B 7-5-20 Stage 1A Updated	BDR
Rev.A 2-4-20 Int'n SW updated	BDR
Revision	Chk
Associate Consultants:	
KNOBEL CONSULTING ENGINEERS & PLANIT CONSULTING ENGINEERS	

IMPORTANT NOTES :
ORIGIN OF LEVELS:
VIDE SSM78482 RL 17.2 A.H.D.
NOTE THAT ALL DIMENSIONS ARE SHOWN IN METRES
DENOTES STREET TREE
NOTE: FOR ELECTRICITY & TELSTRA LOCATIONS SEE SHEETS 1 & 2

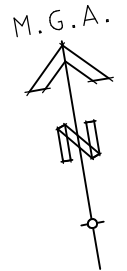
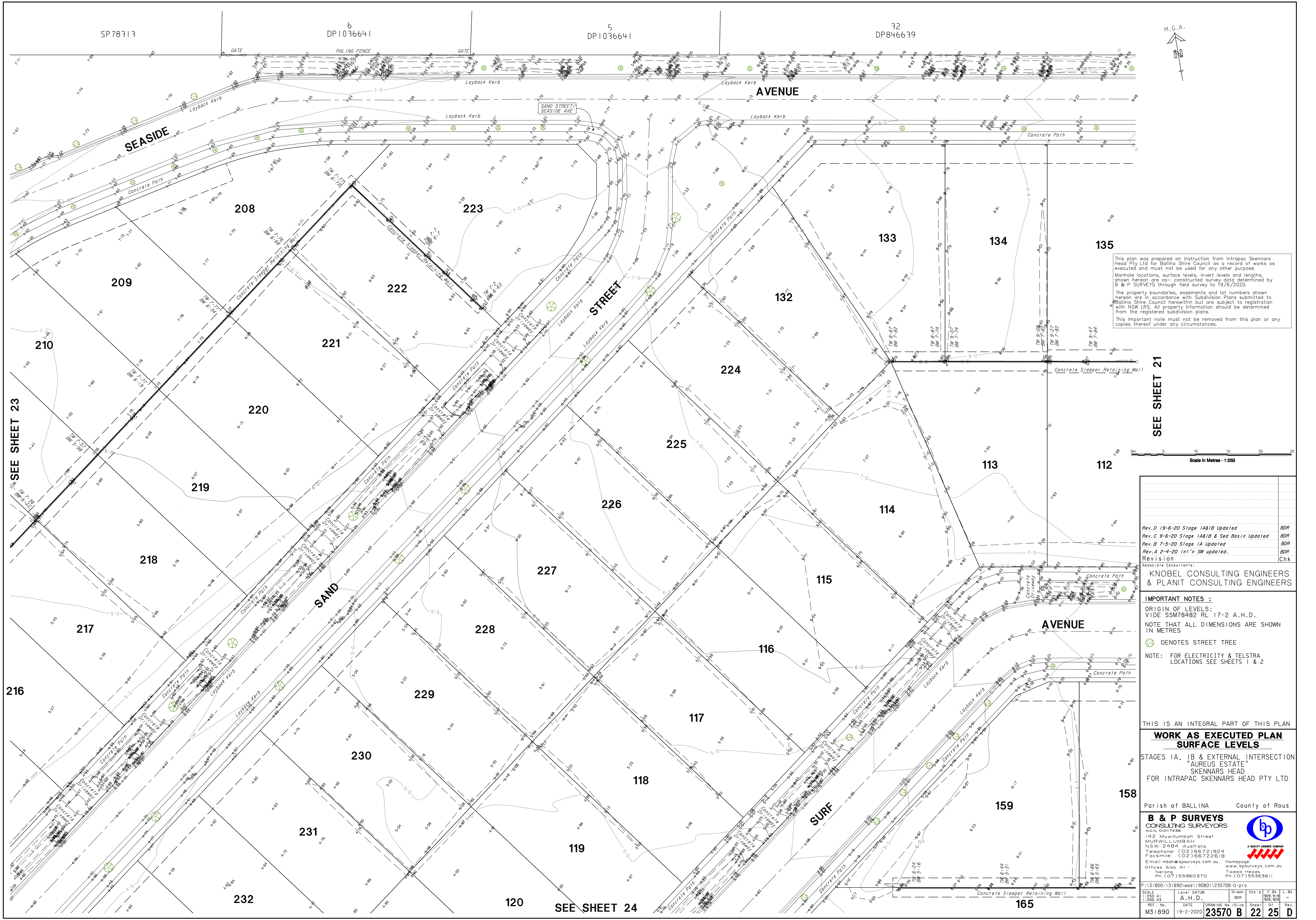
THIS IS AN INTEGRAL PART OF THIS PLAN
WORK AS EXECUTED PLAN SURFACE LEVELS
STAGES 1A, 1B & EXTERNAL INTERSECTION "AUREUS ESTATE" SKENNARS HEAD
FOR INTRAPAC SKENNARS HEAD PTY LTD

Parish of BALLINA County of Rous

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P:\31800-31890\wse\190801\235708-D-pro					
SCALE	Level	DATUM	Drawn	Chk'd	L.Bk
1:250 AI	A.H.D.				
1:500					
REF. No.	DATE	DRAWING No./Size	Sheet	Of	Rev
M31890	19-2-2020	23570 B	21	25	D



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SEE SHEET 21



Rev.D 19-6-20 Stage 1A&1B Updated	BDR
Rev.C 9-6-20 Stage 1A&1B & Sed Basin Updated	BDR
Rev.B 7-5-20 Stage 1A Updated	BDR
Rev.A 2-4-20 Int'n SW updated.	BDR
Revision	Chk
Associate Consultants:	
KNOBEL CONSULTING ENGINEERS & PLANIT CONSULTING ENGINEERS	

IMPORTANT NOTES :
ORIGIN OF LEVELS:
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NOTE THAT ALL DIMENSIONS ARE SHOWN IN METRES
DENOTES STREET TREE
NOTE: FOR ELECTRICITY & TELSTRA LOCATIONS SEE SHEETS 1 & 2

THIS IS AN INTEGRAL PART OF THIS PLAN
**WORK AS EXECUTED PLAN
SURFACE LEVELS**
STAGES 1A, 1B & EXTERNAL INTERSECTION
"AUREUS ESTATE"
SKENNARS HEAD
FOR INTRAPAC SKENNARS HEAD PTY LTD

Parish of BALLINA County of Rous

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SCALE	Level	DATUM	Drawn	Chk'd	P.Bk	L.Bk
1:250 A1	A.H.D.				909,919	-
REF. No.	DATE	DRAWING No./Size	Sheet	Of	Rev.	
M31890	19-2-2020	23570 B	22	25	D	





SEE SHEET 22

SEE SHEET 23

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Rev.B 7-5-20 Stage 1A Updated	BDR
Rev.A 2-4-20 Int'n SW updated.	BDR
Revision	Chk
Associate Consultants:	
KNOBEL CONSULTING ENGINEERS & PLANIT CONSULTING ENGINEERS	

IMPORTANT NOTES :

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NOTE THAT ALL DIMENSIONS ARE SHOWN IN METRES
DENOTES STREET TREE
NOTE: FOR ELECTRICITY & TELSTRA LOCATIONS SEE SHEETS 1 & 2

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WORK AS EXECUTED PLAN
SURFACE LEVELS

STAGES 1A, 1B & EXTERNAL INTERSECTION
"AUREUS ESTATE"
SKENNARS HEAD
FOR INTRAPAC SKENNARS HEAD PTY LTD

Parish of BALLINA County of Rous

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P:\31800-31890\wse\190801\235708-D-pro		Level DATUM		Drawn	Chk'd	F.Bk	L.Bk
SCALE		A.H.D.		80%	90%	91%	92%
REF. No.	DATE	DRAWING No./Size	Sheet	Of	Rev.		
M31890	19-2-2020	23570 B	24	25	D		