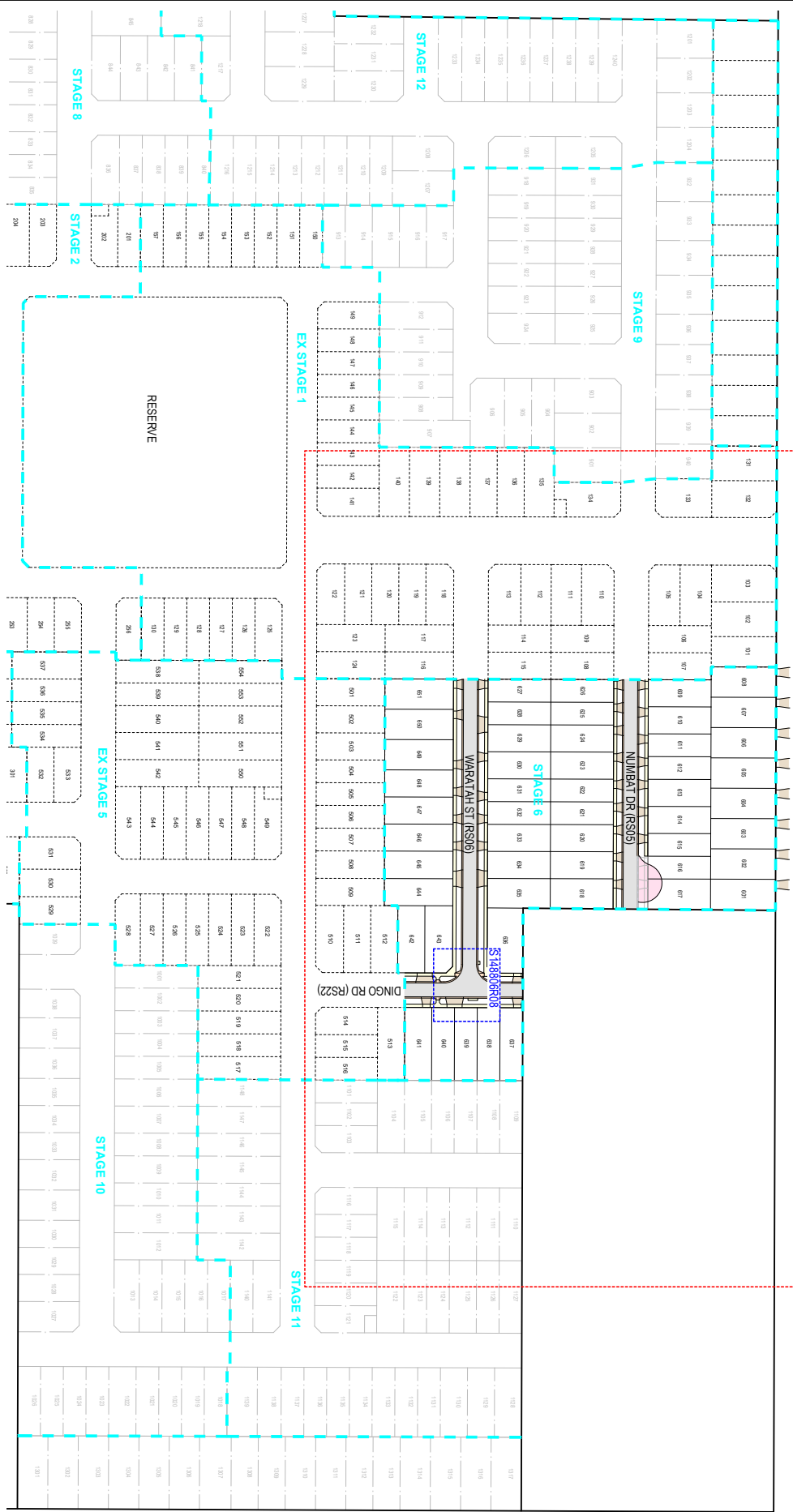


S148806R02-R06



R02 CONSTRUCTION SITE
 B CONICAL AMENDMENTS & DRAINAGE UPGRADE
 A AS SUBMITTED TO COUNCIL
 REV

MITCHELL SHIRE COUNCIL
 APPROVED PLAN
 J11 A8 18/11/20
 J11 A9 17/11/20
 J11 N9 13/09/20
 DES DWG CHK DATE



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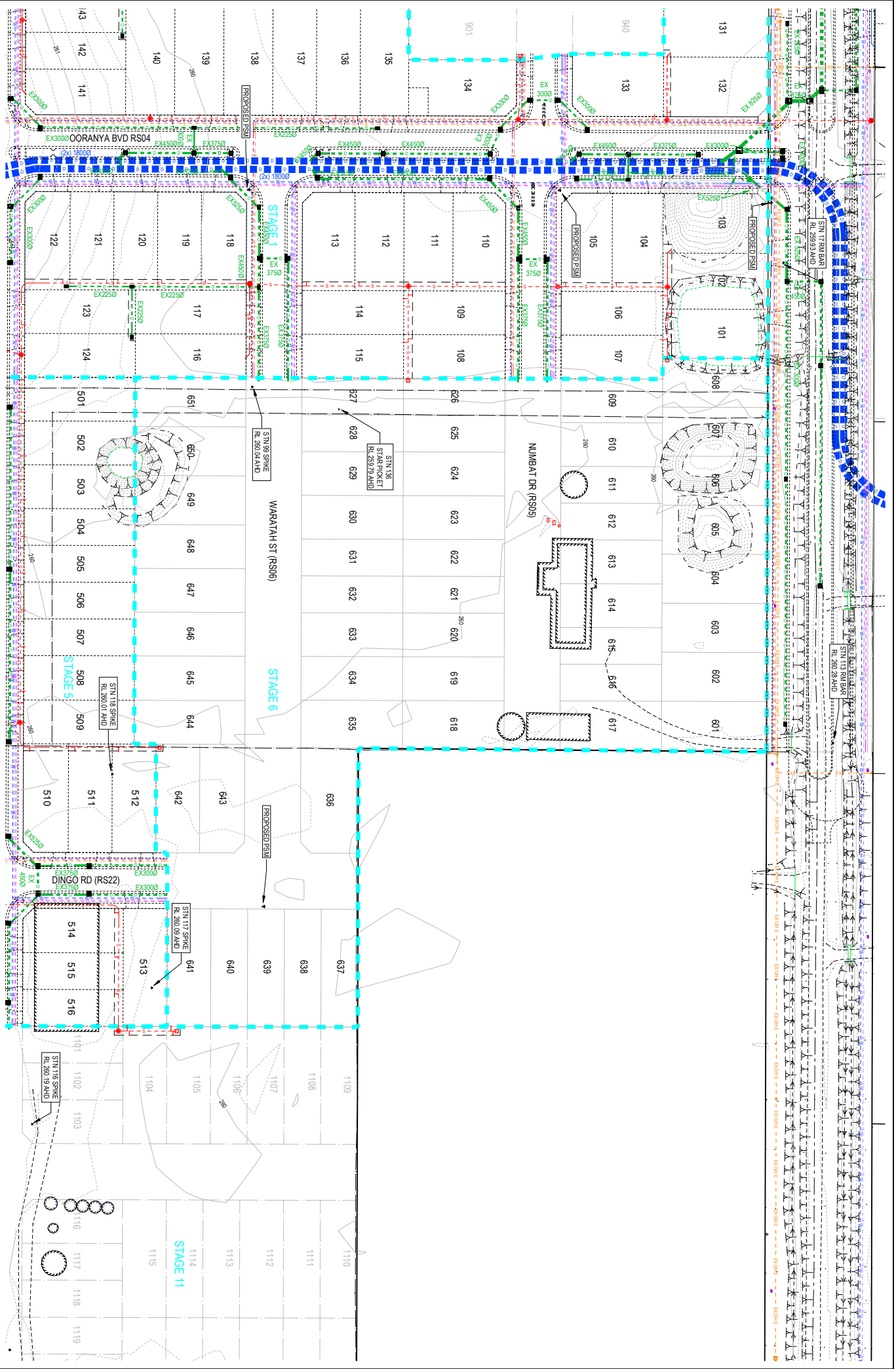
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SCALE 1:12,000

CORANYA ESTATE - STAGE 6
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
OVERALL DEVELOPMENT PLAN
 MITCHELL SHIRE COUNCIL SHRF
 THE CONCORIS GROUP DEVELOPMENT'S PVTY LTD
 DWS STATUS

FOR CONSTRUCTION S148806R02 / 27 C



FOR CONSTRUCTION USE
 B. CONICAL MEASUREMENTS & DIMENSIONS UPDATE
 A. AS SUBMITTED TO COUNCIL

REVISION
 DES. DWG. CHK. DATE

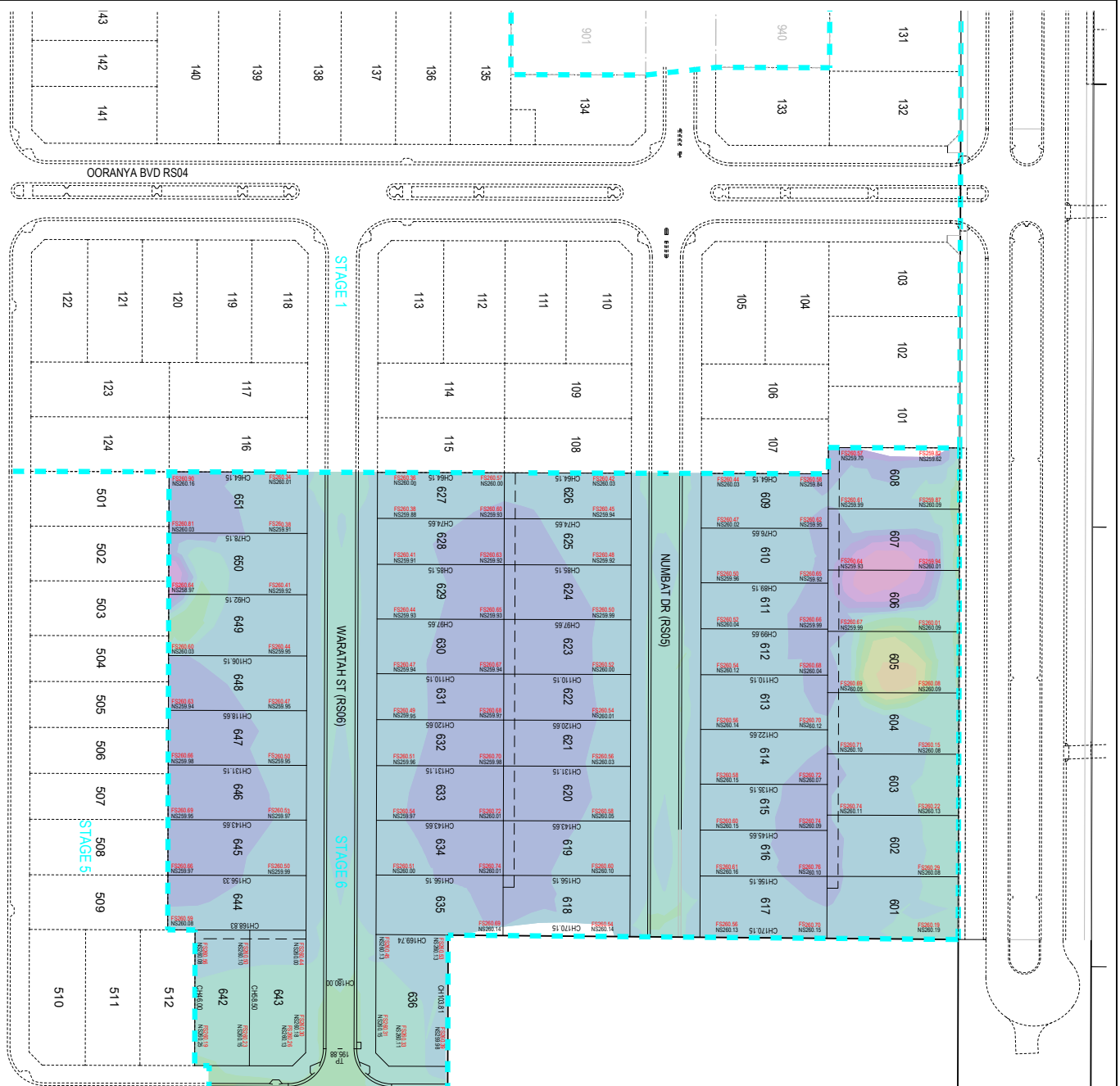


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OORANYIA ESTATE - STAGE 6
WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 EXISTING CONDITIONS & SUEVEY STATIONS/TBWS
 MICHAEL SHIRE COUNCIL REF
 THE CONCORIS GROUP DEVELOPMENTS PTY LTD
 PROJECT & DWG NO.
FOR CONSTRUCTION S148806R03 / 27



No.	Min. Level	Max. Level	Colour	No.	Min. Level	Max. Level	Colour	No.	Min. Level	Max. Level	Colour
1	-2.00	-1.50		5	-0.30	0.00		9	1.00	1.50	
2	-1.50	-1.00		6	0.00	0.30					
3	-1.00	-0.50		7	0.30	0.60					
4	-0.50	-0.30		8	0.60	1.00					

Level	Min. Level	Max. Level	Colour	No.	Min. Level	Max. Level	Colour
1109	NS 101.15	NS 101.15		1110	NS 101.15	NS 101.15	
1108	NS 101.15	NS 101.15		1111	NS 101.15	NS 101.15	
1107	NS 101.15	NS 101.15		1112	NS 101.15	NS 101.15	
1106	NS 101.15	NS 101.15		1113	NS 101.15	NS 101.15	
1105	NS 101.15	NS 101.15		1114	NS 101.15	NS 101.15	
1104	NS 101.15	NS 101.15		1115	NS 101.15	NS 101.15	

NOTES: CUT & FILL LENGTH LEVELS ARE A COMPARISON BETWEEN EXISTING SURFACE & DESIGN SURFACE. ALL LEVELS ARE CORONAL, UNLESS NOTED OTHERWISE. SURFACE LEVELS & DESIGN LEVELS ARE FINISH. FINISHED SURFACE ELEVATION INCLUDING LOCAL DRAINAGE HAS BEEN TAKEN INTO CONSIDERATION OF LOCAL DRAINAGE.

FOR CONSTRUCTION USE
 B. CONICAL MEASUREMENTS & DIMENSIONS UPGRADE
 A. AS SUBMITTED TO COUNCIL
 REVISION: _____
 DES. DWG. CHK. DATE



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SCALE: 1:11,000

COORANYA ESTATE - STAGE 6
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
CUT & FILL DEPTH RANGES & LOT LEVELS
 MIPHELE SHIRE COUNCIL REF:
 THE CONCORIS GROUP DEVELOPMENTS PTY LTD
 PROJECT & DWG. NO.
FOR CONSTRUCTION S148806R05 / 27



- LEGEND**
- 1. PROPOSED SIGNAGE
 - 2. PROPOSED PAVEMENT
 - 3. PROPOSED TOSI
 - 4. PROPOSED RECTANGULAR TOSI
 - 5. ALL TOSI'S TO BE IN ACCORDANCE TO AS 1288.4.1
 - 6. REMOVE UNDERGROUND SERVICES
- NOTE:**
1. ALL TOSI'S TO HAVE CENTRE LINE MARKING WITH SPACING TO BE IN ACCORDANCE WITH AUSTRALIAN ROAD REPAIR ENGINEERING MANUAL, MANUAL VOL. 2
 2. ALL TOSI'S TO HAVE MARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 1742
 3. ALL TOSI'S TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 1742
 4. ALL TOSI'S TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 1742
 5. ALL TOSI'S TO BE IN ACCORDANCE TO AS 1288.4.1
 6. REMOVE UNDERGROUND SERVICES

FOR CONSTRUCTION USE
B. CONSULT AMENDMENTS & SUPPLEMENTARY UPGRADE
A. AS SUBMITTED TO COUNCIL

REVISION: _____

JM 08 18/11/20
JM 08 17/11/20
JM 08 13/08/20

DES. DWG. CHK. DATE

MITCHELL SHIRE COUNCIL
APPROVED PLAN

SCALE: 1:1100

Tomkinson
SPECIALIST ENGINEERING PLANNING PROJECT MANAGEMENT

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DIGGER

CORCORIS
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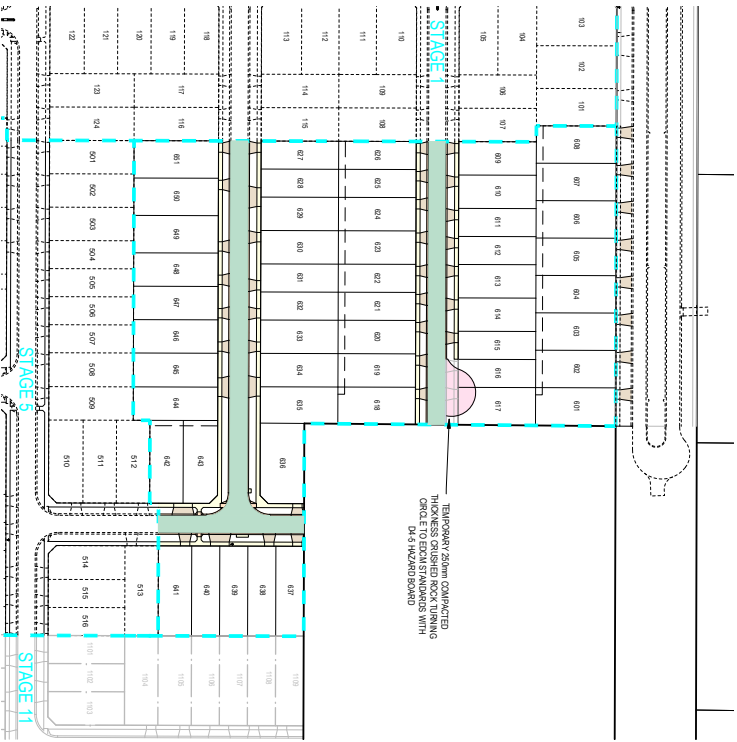
OORANYIA ESTATE - STAGE 6
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
SIGNAGE & LITEMARKING PLAN
MITCHELL SHIRE COUNCIL REF:
THE CORCORIS GROUP DEVELOPMENT'S PTY LTD
PROJECT & DWG NO:
FOR CONSTRUCTION S148806R08 / 27

REV: _____

REV: _____

CONCRETE STD SINGLE & DOUBLE DRIVEWAY PAVEMENT DETAILS (EODM 301 - 302)		MATERIAL	
PAVEMENT LAYER	LAYER THICKNESS (mm)		
1 SURFACE FINISH		BROCKED FINISH TOOGED CORNER FINISHED SURFACE TO COMPLY WITH A8.8. 20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE F BELOW)	
2 CONCOURSE	93	CONCRETE 20MPa WITH 1.5% FIBRE ENHANCEMENT WITH 20mm MIN. CORNER	
3 SUBLINE	90	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE F BELOW)	
4 SUBGRADE		SUBGRADE PREPARED AND TESTED FOR 9% SUBGRADE IMPROVEMENT AS DIRECTED BY SUBMITTEND	

CONCRETE FOOTPATH & SARKED PATH PAVEMENT DETAILS (EODM 401)		MATERIAL	
PAVEMENT LAYER	LAYER THICKNESS (mm)		
1 SURFACE FINISH		BROCKED FINISH TOOGED CORNER FINISHED SURFACE TO COMPLY WITH A8.8. 20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE F BELOW)	
2 CONCOURSE	93	CONCRETE 20MPa WITH 1.5% FIBRE ENHANCEMENT WITH 20mm MIN. CORNER	
3 SUBLINE	90	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE F BELOW)	
4 SUBGRADE		SUBGRADE PREPARED AND TESTED FOR 9% SUBGRADE IMPROVEMENT AS DIRECTED BY SUBMITTEND	



PAVEMENT DESIGN TO BE
READ IN CONJUNCTION WITH
GTS REPORT 20C 0008.2

- PAVEMENT NOTES:**
- A. PAVEMENT DESIGN PROVIDED IN ACCORDANCE WITH GTS REPORT 20C 0008.2
 - B. PAVEMENT DESIGN COMPRESSIVE TO BE COMPACTED TO AN MINIMUM DENSITY RATIO OF 98% MOISTURE
 - C. PAVEMENT SUBBASE COURSE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% AND D
 - D. THE TOPPING LAYER SHALL BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% STANDARD AND
 - E. PAVEMENT FINISH SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 20mm THICKNESS.
 - F. SUBGRADE PREPARED AND ENGINEERED FILL CONSTRUCTION (PAVEMENTS) TO BE IN ACCORDANCE
 - G. WHEN PAVEMENT EXPANSIONS IN ROCK. ALL LOOSE MATERIAL, INC. ROCK CLAY MUST BE REMOVED.
 - H. PAVEMENT DESIGN MUST BE REGULATED WITH COUNCIL APPROVAL OF THE MATERIAL TO
 - I. PRIOR TO LAYING OF THE FILL MATERIAL UNDER NEW PAVEMENT APPROVAL OF THE MATERIAL TO
 - J. ALL SUBGRADE DRAWS TO BE CONSTRUCTED AS PER STANDARD DRAWING EODM 228 FOR EXPANSIVE
 - K. SUBGRADE
 - L. IN THE CASE OF ANY PAVEMENT DESIGN CONFLICTS, GTS REPORT 20C 0008.2 WILL TAKE PRECEDENCE

400mm DEPTH ACCESS STREET PAVEMENT		MATERIAL	
PAVEMENT LAYER	LAYER THICKNESS (mm)		
1 ASPHALT	20	TYPE 1 ASPHALT	
2 BITUMEN GRADE RUBBER ASPHALT	30	SIZE 10 ASPHALT	
3 SMALL GRAIN BITUMINOUS PRIME		SMALL GRAIN (TOUGH) SBR ASPHALT ACTION RATIO OF GREATER THAN OR EQUAL TO 10 BITUMEN BITUMINOUS PRIME (LAYS 2 AND 3)	
4 BAKE COURSE	140	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE B ABOVE)	
5 SUBGRADE COURSE	100	20mm NOM. SIZE CLASS 3 CRUSHED ROCK (SEE NOTE G ABOVE)	
7 TOPPING LAYER	190	CONTINUATION OF LOWER SUBGRADE COURSE OR EXISTING SUBGRADE MATERIAL STABILISED WITH 9% LINE BY MASS (SEE NOTE D ABOVE)	
8 SUBGRADE			

TEMPORARY TURNING CIRCLE PAVEMENT		MATERIAL	
PAVEMENT LAYER	LAYER THICKNESS (mm)		
1 BASE COURSE	200	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK	

FOR CONSTRUCTION USE
C. COUNCIL AMENDMENTS & REVISIONS URGENT
B. AS SUBMITTED TO COUNCIL
A. AS SUBMITTED TO COUNCIL
REV

DATE: 18/11/2020
DRAWN BY: JIM NG
CHECKED BY: CES
DATE

MITCHELL SHIRE COUNCIL
APPROVED LOGO

Tomkinson
SUNNY HILLS BUSINESS PARKS PROJECT MANAGEMENT

CORANYA GROUP

FOR CONSTRUCTION USE
C. COUNCIL AMENDMENTS & REVISIONS URGENT
B. AS SUBMITTED TO COUNCIL
A. AS SUBMITTED TO COUNCIL
REV

DATE: 18/11/2020
DRAWN BY: JIM NG
CHECKED BY: CES
DATE

MITCHELL SHIRE COUNCIL
APPROVED LOGO

Tomkinson
SUNNY HILLS BUSINESS PARKS PROJECT MANAGEMENT

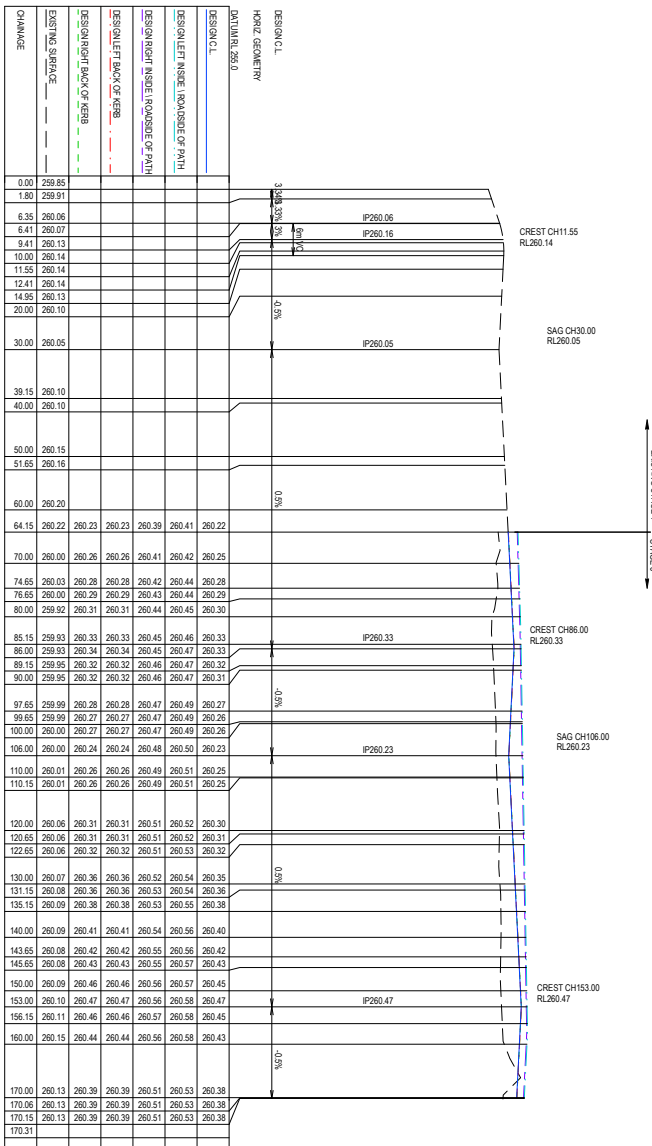
CORANYA GROUP

FOR CONSTRUCTION USE
C. COUNCIL AMENDMENTS & REVISIONS URGENT
B. AS SUBMITTED TO COUNCIL
A. AS SUBMITTED TO COUNCIL
REV

DATE: 18/11/2020
DRAWN BY: JIM NG
CHECKED BY: CES
DATE

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C. COUNCIL AMENDMENTS & REVISIONS URGENT
B. AS SUBMITTED TO COUNCIL
A. AS SUBMITTED TO COUNCIL
REV

DATE: 18/11/2020
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DATE



FOR CONSTRUCTION USE
 C COUNCIL AMENDMENTS & REMAKE UPDATE
 B COUNCIL AMENDMENTS & REMAKE UPDATE
 A AS SUBMITTED TO COUNCIL
 REV

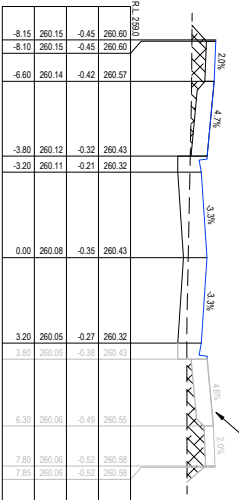
MITCHELL SHIRE COUNCIL
 APPROVED PLAN
 JAN 08 11:11:20
 JAN 08 17:11:20
 JAN 08 13:02:20
 DES DWG CHK DATE

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 HEAD OFFICE: 57 AMERS STREET BENDIGO 3550 PH 03 5445 6700
 ABLN 11 103 336 368 WWW.TOMKINSON.COM

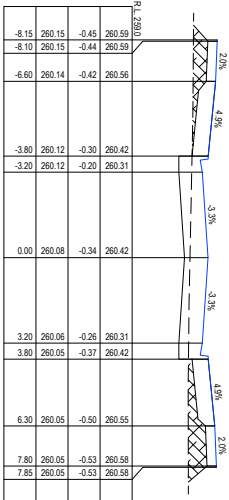
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 V 0 10 20 30 40 50
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FOR CONSTRUCTION S148806R10 / 27
 PROJECT & DWG NO.
 COORANYA ESTATE - STAGE 6
 WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 NUNBET DR (RS09) LONG SECTION
 MITCHELL SHIRE COUNCIL REF
 THE COORANYA GROUP DEVELOPMENT'S PTY LTD
 DWG STATUS

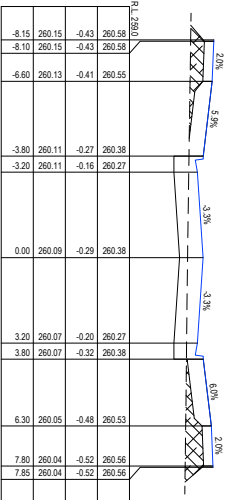
INSTALL TEMPORARY EDGE STRIPS & GRADE TO FUTURE FOOTPATH AS REQUIRED



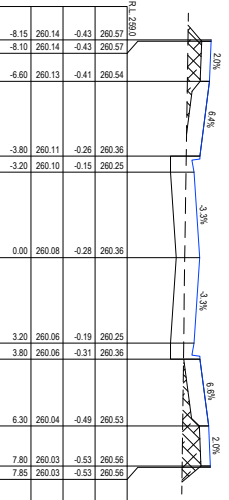
CH 145.65



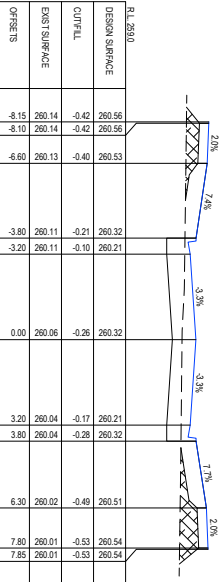
CH 143.65



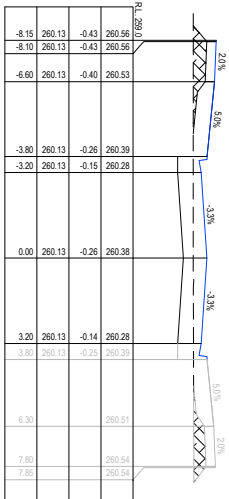
CH 135.15



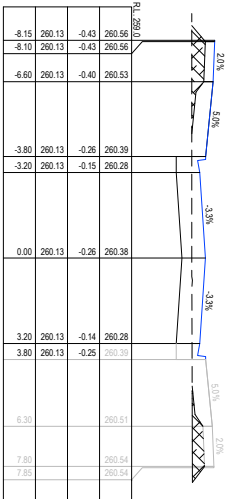
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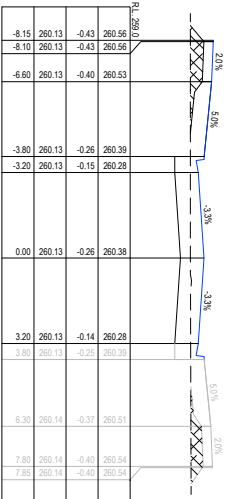
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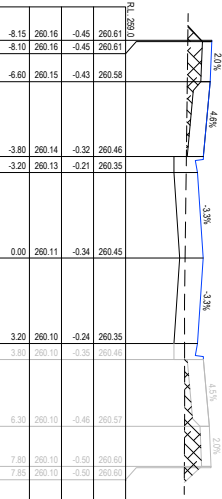
CH 170.16



CH 170.15



CH 170.06



CH 156.15

NOTE:
DENOTES
STRUCTURAL FILL
(REFER PAVEMENT
NOTES)



FOR CONSTRUCTION USE
B CONSULT AGREEMENTS & DRAWING UPGRADE
A AS SUBMITTED TO COUNCIL
REV

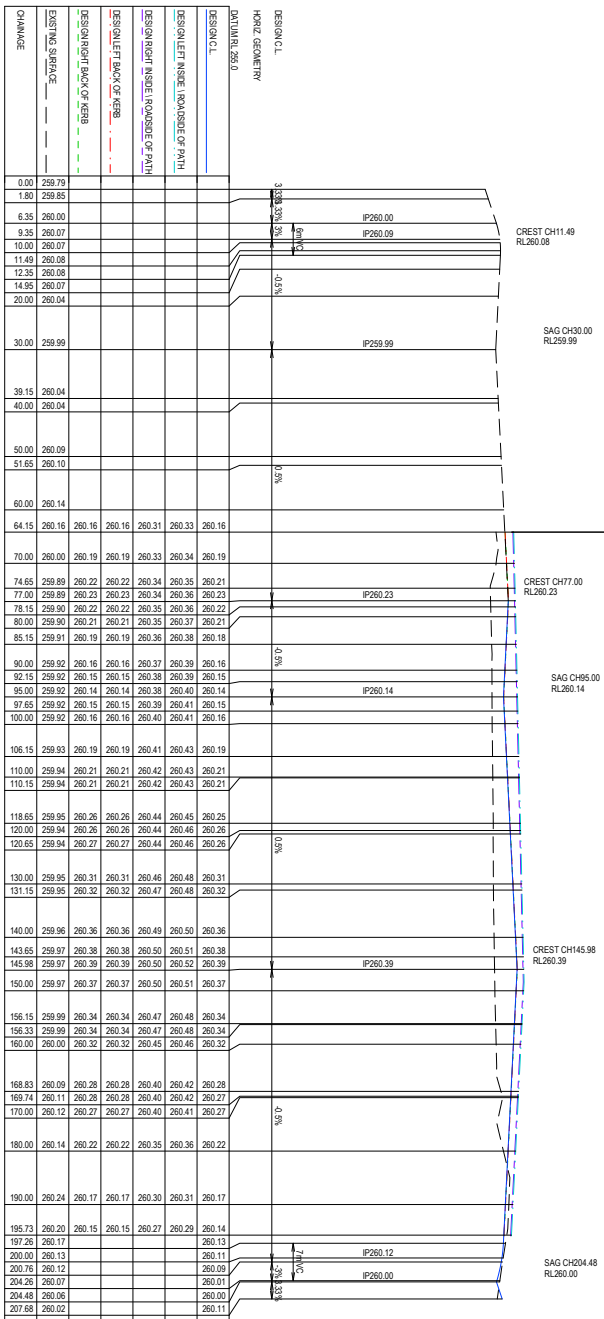
REVISION



JM 08 18/11/20
JM 08 17/11/20
JM NP 13/02/20
DES DWG CHK DATE



FOR CONSTRUCTION S148806R12 / 27 C



EXISTING STAGE 1
STAGE 6

FOR CONSTRUCTION USE
C COUNCIL AMENDMENTS & RENEWAL UPGRADE
B AS SUBMITTED TO COUNCIL
A AS SUBMITTED TO COUNCIL
REV

REVISION

DATE

DES. DWG. CHK. DATE



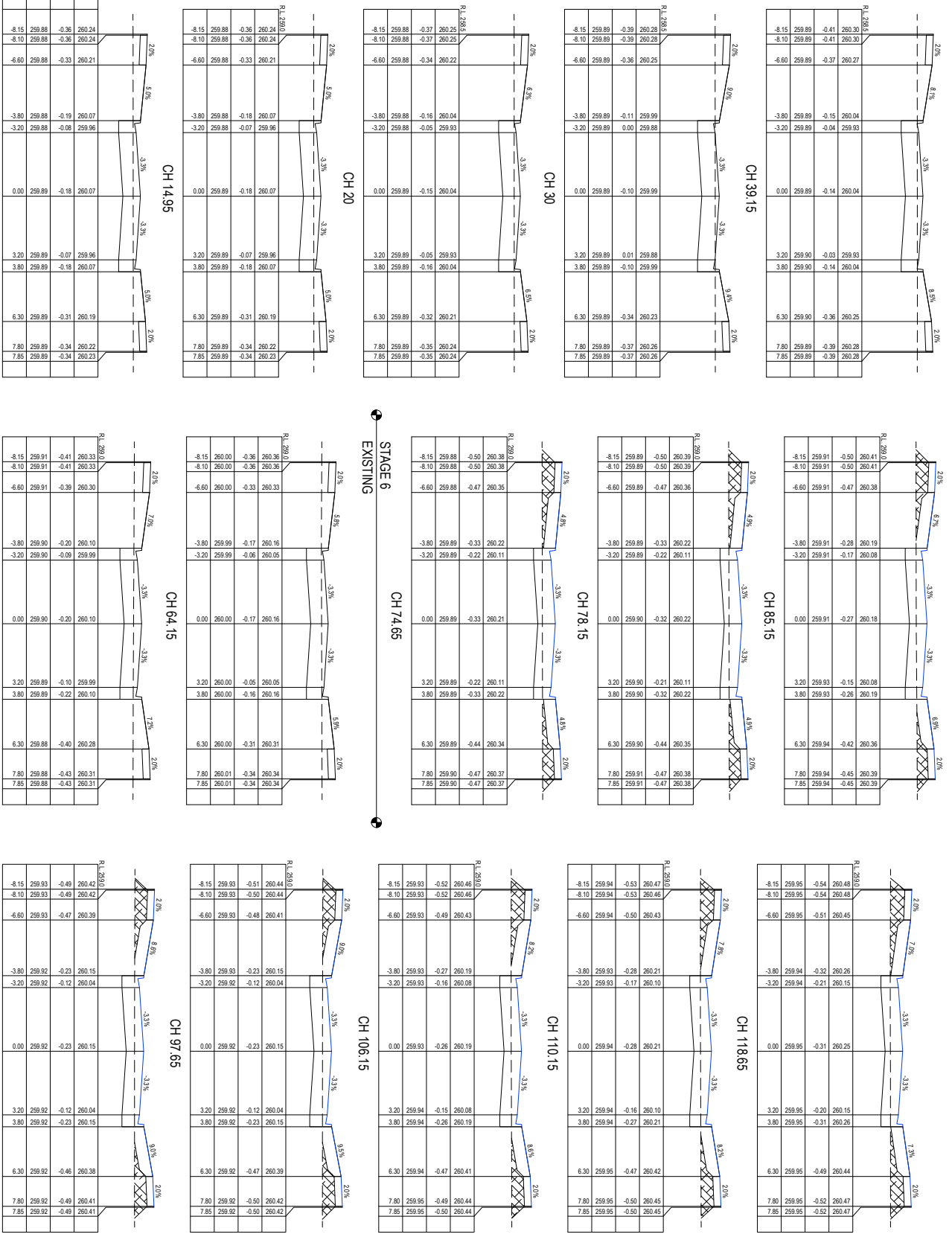
FOR CONSTRUCTION S148806R13 / 27

PROJECT & DWG NO.

WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
WARATAH ST (RS06) LONG SECTION
MIRABEL SHIRE COUNCIL SHEET
THE CORCORIS GROUP DEVELOPMENT'S PTY LTD
DWS STATUS

NOTE:

DENOTES
STRUCTURAL HILL
REFEREANCEMENT
(NOTES)



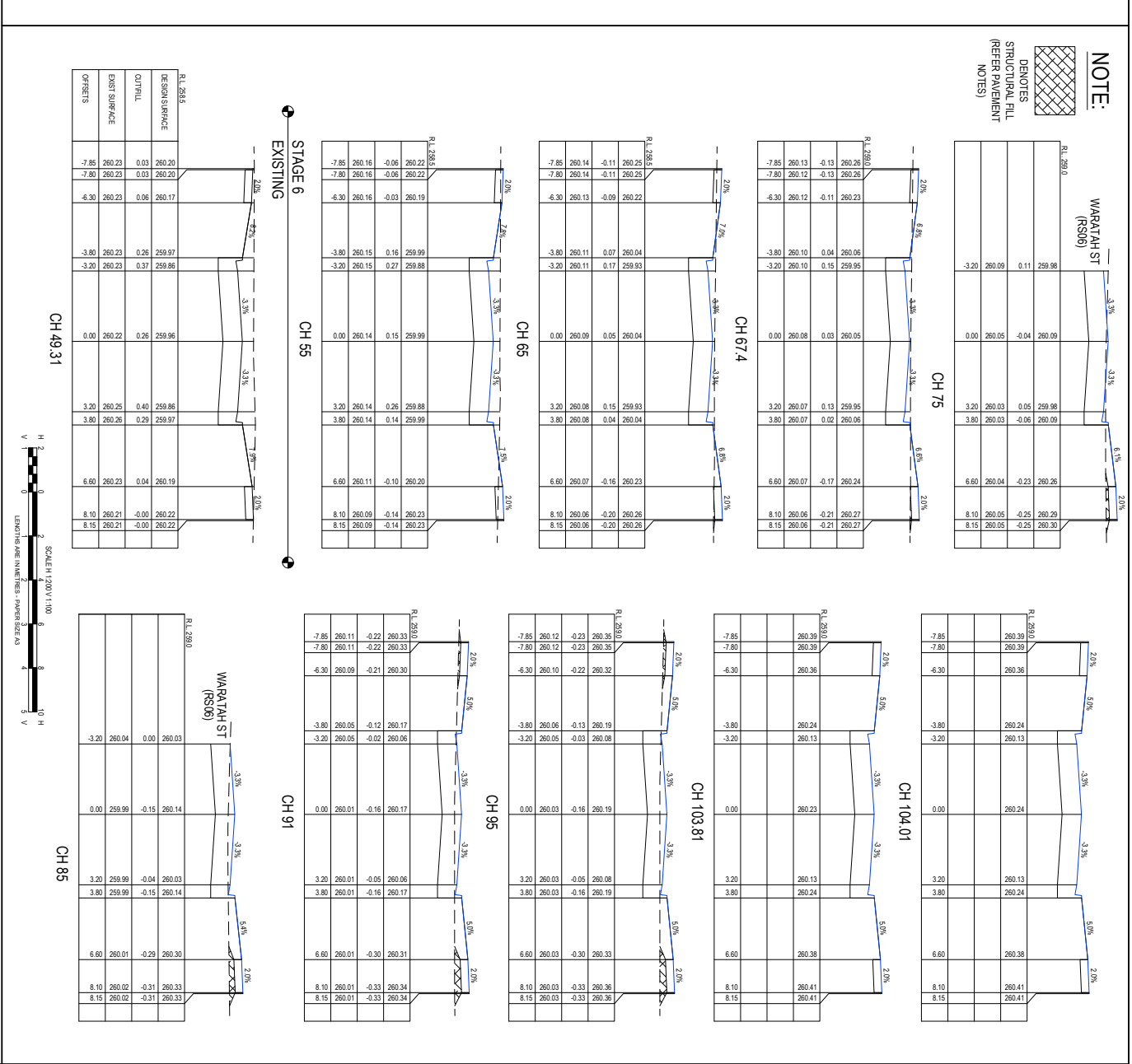
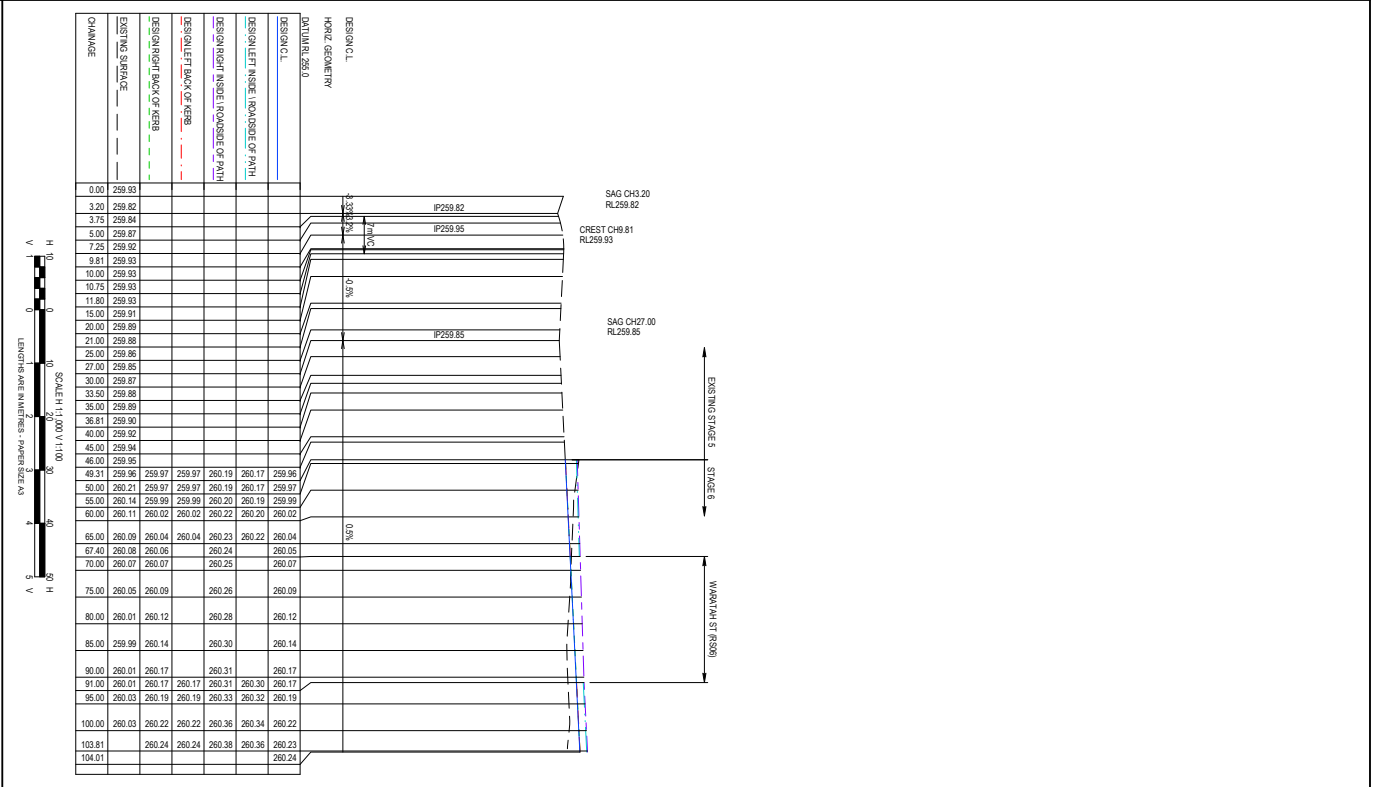
FOR CONSTRUCTION USE
C COUNCIL AMENDMENTS & RENEWAL UPGRADE
A AS SUBMITTED TO COUNCIL
REV



JM 08 18/11/20
JM 08 17/11/20
JM NP 13/02/20
DES DWG CHK DATE



ORANYA ESTATE - STAGE 6
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
WARATAH ST (RS06) CROSS SECTIONS (SHEET 1/2)
MITCHELL SHIRE COUNCIL REF#
THE CONCORIS GROUP DEVELOPMENT'S PTY LTD
PROJECT & DWG NO.
FOR CONSTRUCTION S148806R14 / 27 C



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FOR CONSTRUCTION USE
B. CONSULT AGREEMENTS & RENEWALS UPDATE
A. AS SUBMITTED TO COUNCIL

REVISION

DATE

DES. DWG CHK. DATE

MITCHELL SHIRE COUNCIL
APPROVED PLAN

DATE: 18/11/20
18/11/20
13/01/20

Tomkinson
SUNSHINE ENGINEERING & PLANNING PROJECT MANAGEMENT

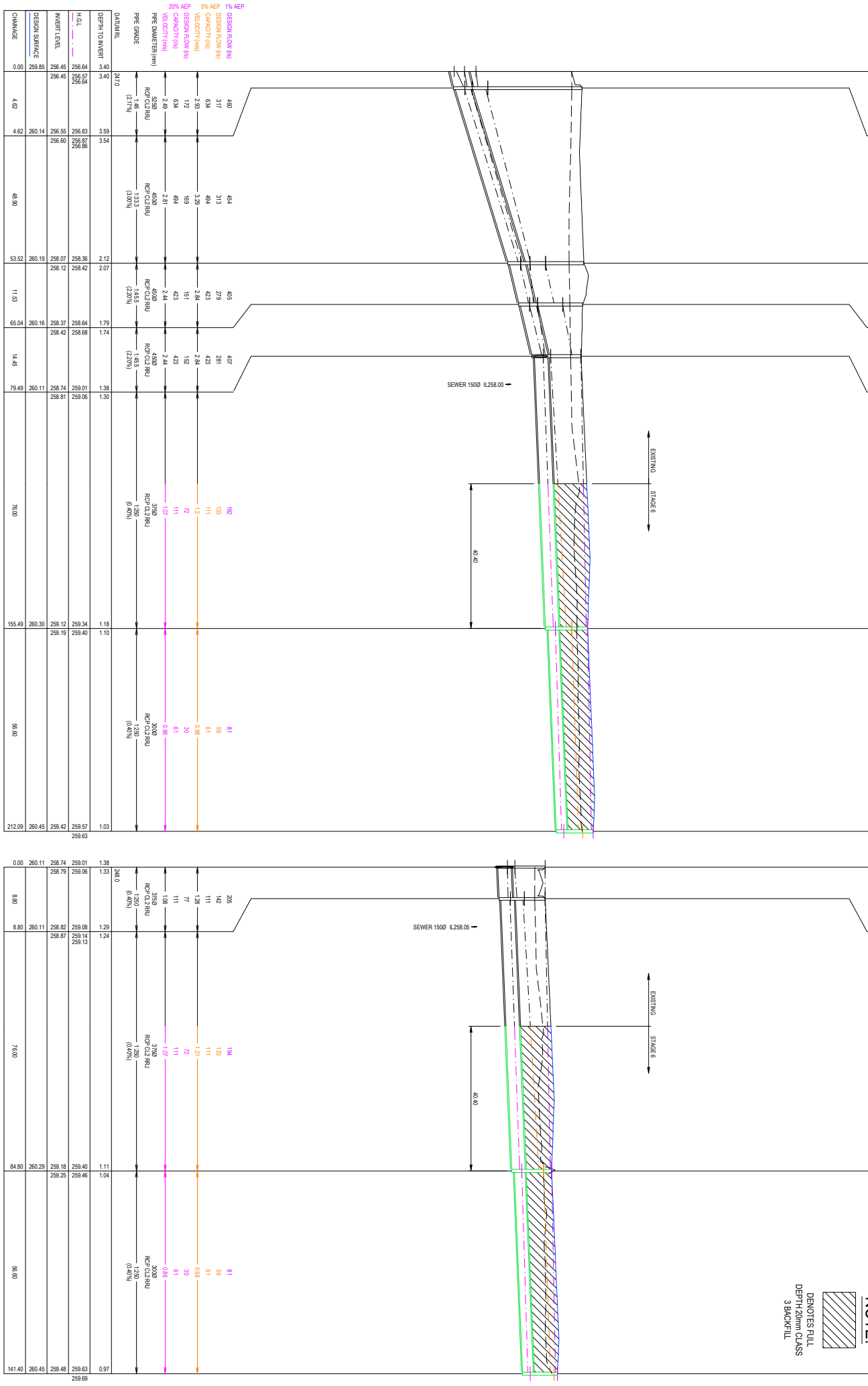
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CORANYA
CORANYA GROUP

SCALE AS SHOWN

CORANYA ESTATE - STAGE 6
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
DINGO RD (RS23) LONG & CROSS SECTIONS
MITCHELL SHIRE COUNCIL REF
THE CORCORIS GROUP DEVELOPMENTS PTY LTD
PROJECT & DWG NO.
FOR CONSTRUCTION S148806R16 / 27

EXC09 EX22A EX22B EX22C EX22D 22E 22F EX22D EX23A 23B 23C



NOTE:
 DENOTES FULL DEPTH 20mm CLASS 3 BACKFILL

DEPTH TO INVERT (m)	3.40	3.59	3.54	2.12	2.07	1.79	1.74	1.38	1.30	1.18	1.10	1.03	259.63
H.O.L.	256.94	256.83	256.86	258.36	258.42	258.64	258.68	259.01	259.06	259.34	259.40	259.57	259.63
INVERT LEVEL	256.95	256.95	256.95	258.07	258.12	258.37	258.42	259.01	259.06	259.12	259.19	259.42	259.48
DESIGN SURFACE	256.92	256.92	256.92	258.19	258.24	258.49	258.54	259.13	259.18	259.24	259.31	259.54	259.60
CHANGE	0.00	4.62	4.92	53.52	11.53	95.04	14.45	79.49	260.11	78.00	56.00	212.09	260.45

DEPTH TO INVERT (m)	3.40	3.59	3.54	2.12	2.07	1.79	1.74	1.38	1.30	1.18	1.10	1.03	259.63
H.O.L.	256.94	256.83	256.86	258.36	258.42	258.64	258.68	259.01	259.06	259.34	259.40	259.57	259.63
INVERT LEVEL	256.95	256.95	256.95	258.07	258.12	258.37	258.42	259.01	259.06	259.12	259.19	259.42	259.48
DESIGN SURFACE	256.92	256.92	256.92	258.19	258.24	258.49	258.54	259.13	259.18	259.24	259.31	259.54	259.60
CHANGE	0.00	4.62	4.92	53.52	11.53	95.04	14.45	79.49	260.11	78.00	56.00	212.09	260.45

FOR CONSTRUCTION USE
 C CONICAL MEASUREMENTS & SPREADSHEET UPDATE
 A AS SUBMITTED TO COUNCIL
 REV

REVISION

DES. DWG. CHK. DATE

APR 18/20
 APR 18/20
 APR 18/20

MICHELLE SHIRE COUNCIL
 TOWN & REGIONAL PLANNING
 APPROVED PLAN

Tomkinson
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CORANYA
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SCALE H: 1:100 V: 1:100
 10 20 30 40 50 M

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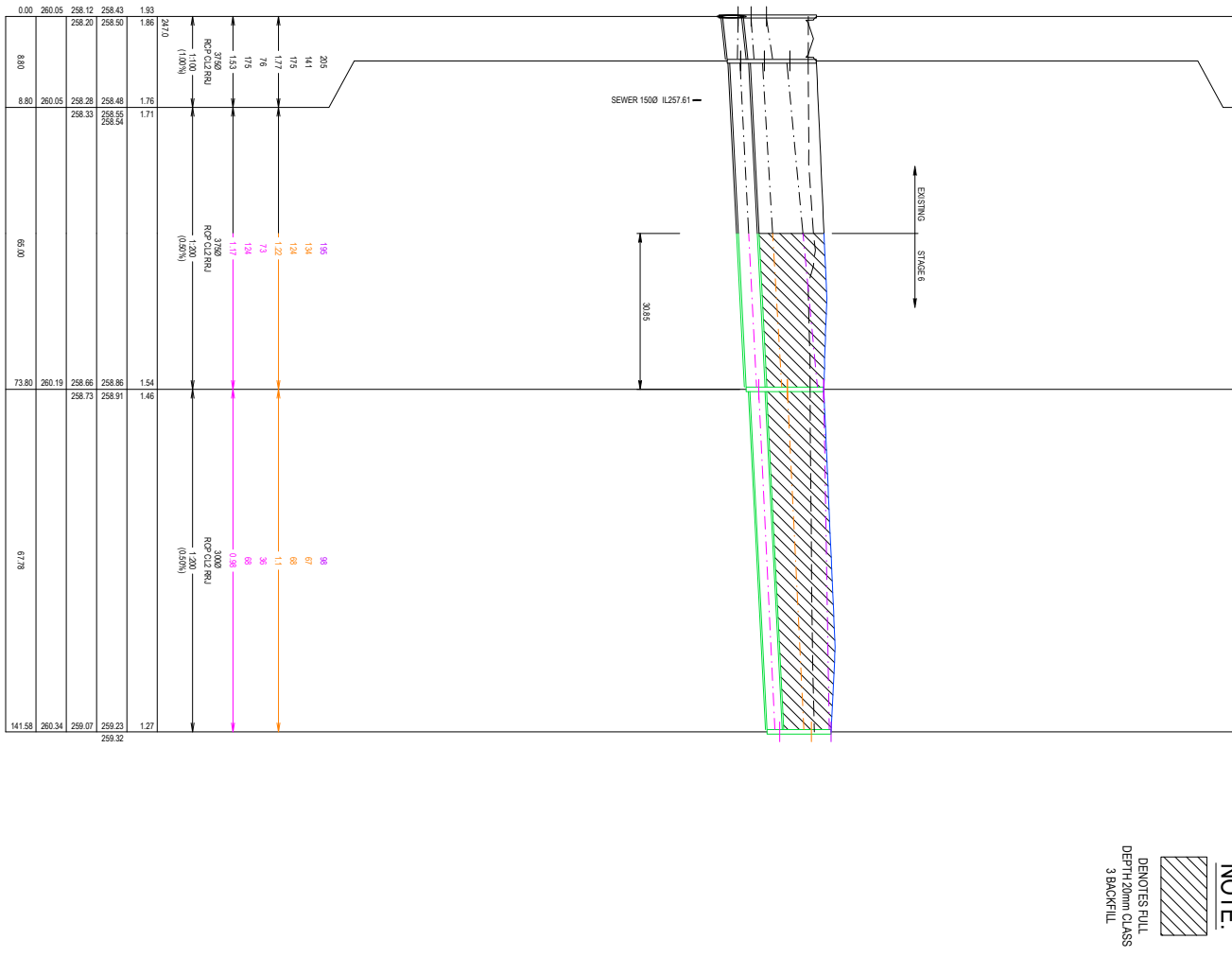
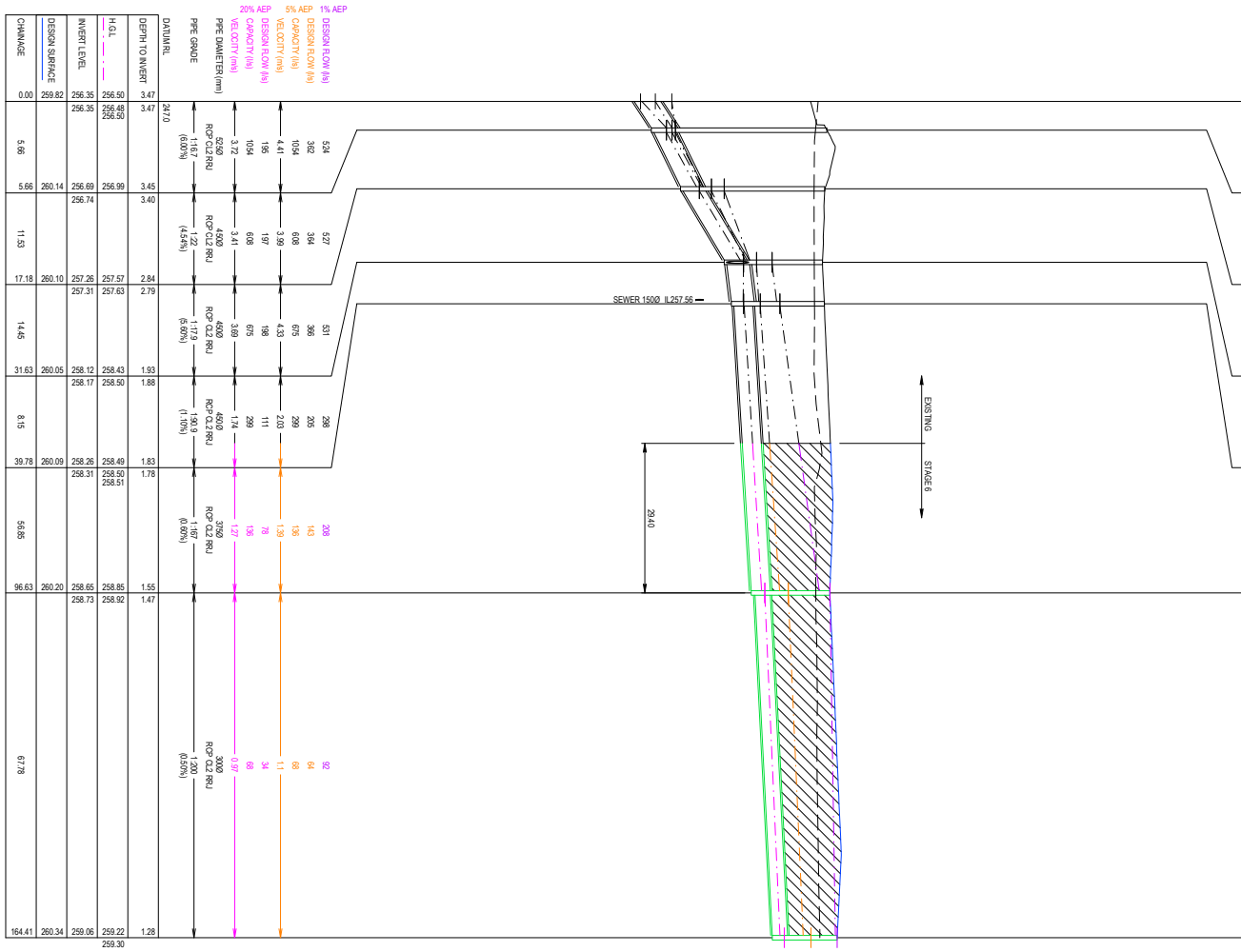
FOR CONSTRUCTION S148806R17 / 27

PROJECT & DWG NO.

OOORANYA ESTATE - STAGE 6
 WHITEHIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 DRAINAGE LONG SECTIONS (SHEET 1 OF 3)
 MICHELLE SHIRE COUNCIL SHEET
 THE CONCORIS GROUP DEVELOPMENTS PTY LTD
 PROJECT & DWG NO.

EX207 EX25A EX25B EX25C EX25D 25E 25F EX25C EX26A 26B 26C

NOTE:
 DENOTES FILL
 DEPTH 20mm CLASS
 3 BACKFILL



FOR CONSTRUCTION USE
 C CONSULT AGREEMENTS & PERFORMANCE UPDATE
 B AS SUBMITTED TO COUNCIL
 A AS SUBMITTED TO COUNCIL
 REV/

Tomkinson
 GROUP ENGINEERING PLANNING PROJECT MANAGEMENT
 HEAD OFFICE: 57 AMERS STREET BENDIGO 3550 PH 03 5445 6700
 ABN 11 103 336 388 WWW.TOMKINSON.COM

JM 08 18/11/20
 JM 08 17/11/20
 JM NP 13/09/20
 AP
 DES DWG CHK DATE



SCALE H: 1:200 V: 1:80
 10 20 30 40 50
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 LENGTHS ARE IN METERS - SHOWS SIZE AS
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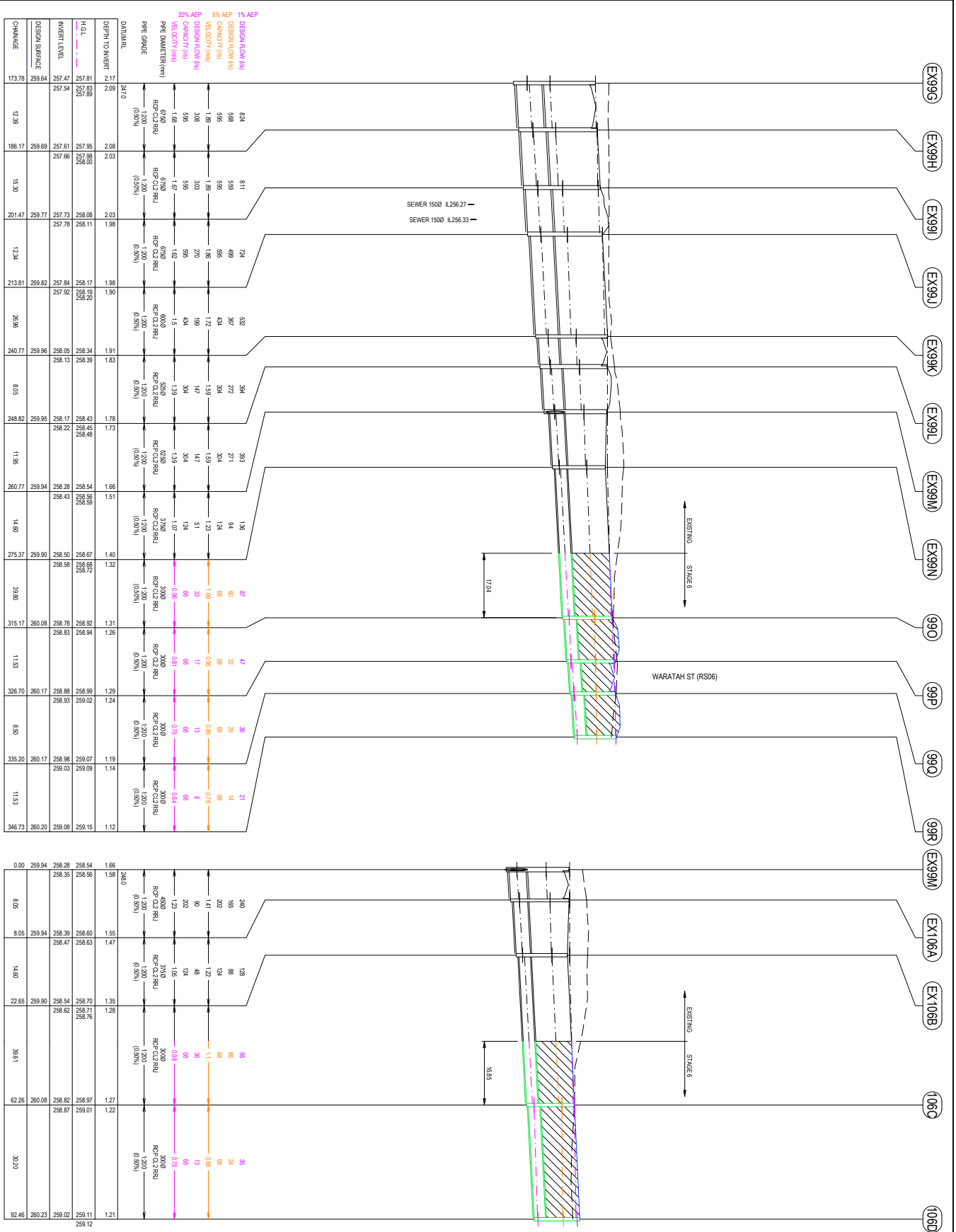
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CONTRACTOR
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OORANYA ESTATE - STAGE 6
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
DRAINAGE LONG SECTIONS (SHEET 2 OF 3)
 MITCHELL SHIRE COUNCIL REF#
 THE CONCORDS GROUP DEVELOPMENT'S PTY LTD
 DWS STATUS
FOR CONSTRUCTION S148806R18 / 27
 PROJECT & DWG NO.
 REV/

NOTE:
 DENOTES FILL
 DEPTH 20mm CLASS
 3 BACKFILL



DEPTH TO INVERT	2.17	2.09	2.08	2.03	1.98	1.98	1.91	1.83	1.78	1.73	1.66	1.51	1.40	1.32	1.31	1.26	1.29	1.24	1.19	1.14	1.12
H.O.L.	257.83	257.85	257.96	258.06	258.11	258.17	258.34	258.39	258.43	258.45	258.54	258.65	258.67	258.68	258.69	258.78	258.88	258.99	259.07	259.09	259.15
INVERT LEVEL	257.54	257.61	257.66	257.73	257.78	257.84	258.05	258.13	258.17	258.22	258.34	258.43	258.50	258.58	258.59	258.83	258.93	259.02	259.11	259.12	259.12
DESIGN SURFACE	259.64	259.69	259.77	259.77	259.77	259.82	259.96	259.96	259.95	259.94	259.94	260.00	260.00	260.00	260.00	260.08	260.17	260.23	260.23	260.23	260.23
CHANNEL	173.78	186.17	193.30	201.47	213.81	231.81	240.77	248.82	267.77	286.77	305.77	324.77	343.77	362.77	381.77	400.77	419.77	438.77	457.77	476.77	495.77

DEPTH TO INVERT	2.17	2.09	2.08	2.03	1.98	1.98	1.91	1.83	1.78	1.73	1.66	1.51	1.40	1.32	1.31	1.26	1.29	1.24	1.19	1.14	1.12
H.O.L.	257.83	257.85	257.96	258.06	258.11	258.17	258.34	258.39	258.43	258.45	258.54	258.65	258.67	258.68	258.69	258.78	258.88	258.99	259.07	259.09	259.15
INVERT LEVEL	257.54	257.61	257.66	257.73	257.78	257.84	258.05	258.13	258.17	258.22	258.34	258.43	258.50	258.58	258.59	258.83	258.93	259.02	259.11	259.12	259.12
DESIGN SURFACE	259.64	259.69	259.77	259.77	259.77	259.82	259.96	259.96	259.95	259.94	259.94	260.00	260.00	260.00	260.00	260.08	260.17	260.23	260.23	260.23	260.23
CHANNEL	173.78	186.17	193.30	201.47	213.81	231.81	240.77	248.82	267.77	286.77	305.77	324.77	343.77	362.77	381.77	400.77	419.77	438.77	457.77	476.77	495.77

FOR CONSTRUCTION USE
 C. COUNCIL AMENDMENTS & RERUNNAGE UPDATE
 B. AS SUBMITTED TO COUNCIL
 A. AS SUBMITTED TO COUNCIL
 REV:

APPROVED PLAN
 MICHELLE SHIRE COUNCIL
 APPROVED PLAN

JAN 08 14:11:20
 JAN 08 17:11:02
 JAN 09 13:02:20
 APR 10 13:02:20
 DES. DWG. CHK. DATE

TOMKINSON
 SANITARY ENGINEERING & PLUMBING PROJECT MANAGEMENT
 HEAD OFFICE: 57 AMERS STREET BENDIGO 3550 PH 03 5445 8700
 ABN 11 103338 888 WWW.TOMKINSON.COM

CORANYA
 CIVIL ENGINEERING

SCALE H: 1:100 V: 1:50
 0 10 20 30 40 50 M
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 LENGTHS ARE IN METRES, DIMENSIONS IN MILLIMETRES

CORANYA ESTATE - STAGE 6
 WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 DRAINAGE LONG SECTIONS (SHEET 3 OF 3)
 MICHELLE SHIRE COUNCIL SHEET
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD
 DWS STATUS: PROJECT & DWG NO. S148806R19 / 27 FOR CONSTRUCTION

PIT NAME	PIT TYPE	EASTING	NORTHING	INTERNAL		PIT		DEPTH	REMARKS			
				INLET	W/O LEN	INW	OUTLET			INW	DEPTH	
102230	GSFP	318977.82	585028.29	600	300	375	258.87	260.12	1.28	EQC/M602		
221	GSFP	318975.38	5850185.21	600	300	300	259.19	375	250.12	EQC/M602		
222	JP	318980.66	5850182.13	600	300	375	258.87	375	258.82	EQC/M605		
EQC/M602	GSFP	318978.27	5850305.44	600	300	375	258.87	375	258.82	EQC/M602		
228	GSFP	318975.43	5850196.06	600	300	300	259.25	375	259.18	EQC/M602		
262	JP	318981.61	5850190.88	600	300	300	258.46	260.45	0.97	EQC/M605		
EQC/M605	JP	318977.97	5850271.64	600	300	375	258.31	450	258.26	260.09	1.82	EQC/M605
251	GSFP	318974.48	5850115.83	600	300	300	258.73	375	258.65	260.20	1.55	EQC/M602
252	JP	318981.88	5850108.54	600	300	300	258.33	300	259.07	260.34	1.28	EQC/M605
EQC/M602	GSFP	318975.44	5850124.98	600	300	375	258.33	375	258.28	260.05	1.77	EQC/M602
268	GSFP	318982.81	5850117.29	600	300	300	258.73	300	259.07	260.34	1.27	EQC/M605
EQC/M605	JP	318982.41	5850206.59	600	300	300	258.82	300	258.76	260.09	1.51	EQC/M602
992	GSFP	318984.21	5850105.19	600	300	300	258.83	300	258.88	260.17	1.26	EQC/M601
993	GSFP	318985.12	5850113.64	600	300	300	259.03	300	258.98	260.17	1.19	EQC/M601
994	GSFP	318984.10	5850120.87	600	300	300	259.03	300	259.08	260.20	1.12	EQC/M601
EQC/M601	GSFP	318986.60	5850095.29	600	300	300	258.62	375	258.54	259.90	1.25	EQC/M601
1000	GSFP	318985.86	5850095.11	600	300	300	258.87	300	258.82	260.08	1.27	EQC/M601
1002	GSFP	318983.11	5850125.13	600	300	300	259.02	300	259.02	260.23	1.21	EQC/M601

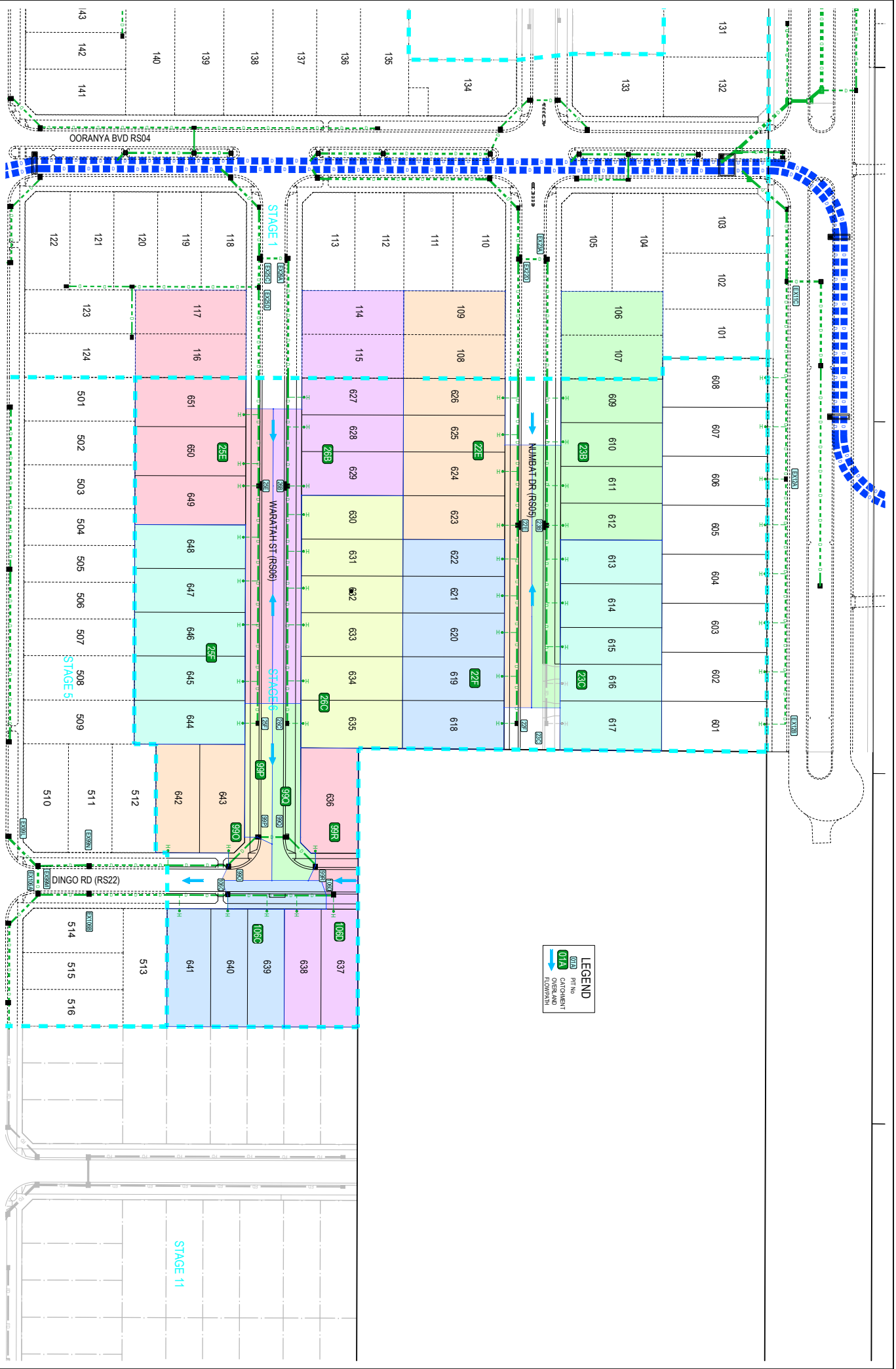
PIT SCHEDULE

FOR CONSTRUCTION USE
 C CONICAL AMENDMENTS & REMAKE UPGRADE
 A AS SUBMITTED TO COUNCIL
 REVISION

DATE: 18/11/2020
 DES: DWG CHK: DATE



COORANYA ESTATE - STAGE 6
WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 PITS SCHEDULE
 MITCHELL SHIRE COUNCIL REF:
 THE CONCORIS GROUP DEVELOPMENT'S PTY LTD
 DWG STATUS:
FOR CONSTRUCTION S148806R20 / 27



LEGEND
 (Lot No) PT No
 (Catchment) OVERLAND FLOW PATH

FOR CONSTRUCTION USE
 B. CONVEYANCE DOCUMENTS & PERMITS UPGRADE
 A. AS SUBMITTED TO COUNCIL
 REV

MITCHELL SHIRE COUNCIL
 APPROVED PLAN
 PROJECT & DRAWING NO.
 DATE
 DES. DWG. CHK. DATE



Tomkinson
 SHARED DEVELOPERS | PLANNING | PROJECT MANAGEMENT
 HEAD OFFICE: 57 AMERS STREET, BENDIGO 3550, PH 03 5445 6700
 ABLN 11 103336 388 WWW.TOMKINSON.COM



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 MANAGE YOUR
 PROJECTS

CONVEYANCE
 DOCUMENTS

CORANYA ESTATE - STAGE 6
 WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 DRAINAGE CATCHMENTS & 1% AEP FLOW PATHS
 MITCHELL SHIRE COUNCIL REF
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD
 PROJECT & DRAWING NO.
 FOR CONSTRUCTION S148806R21 / 27

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 PLOT DATE: 18/11/2020 FILE: C:\12\DATA\TOMKBGO-12DS01S1488 - THE CORCORIS GROUP DEVELOPMENT PTY LTD, BEVERIDGE_91ENGINEERING DESIGN\STAGE 6\S148806 R&D CONSTRUCTION PLANS REV.C.DWG

12D MODEL - HYDRAULIC DESIGN SHEET
 Project: Design Drainage
 Drainage Model: 12D Model
 Manning's n: 0.015
 Rainfall Intensity: 125mm/hr
 Return Period: 100 Years
 Frequency: 0.01
 Major 1% AEP Storm Event

Pipe ID	Pipe Type	Pipe Length (m)	Pipe Size (mm)	Full Pipe Area (sqm)	Grade (m)	Full Pipe Slope (1/m)	Full Pipe Td (m)	Full Pipe Invert (mm)	Full Pipe Sum CA (U/s)	Part-area Td (m)	Part-area Sum CA (ha)	Part-area Flow Q (U/s)	Part-area Flow Qx (U/s)	Capacity Flow Q (U/s)	Q/Cap (1)	Full Pipe Vel (m/s)	Norm Depth (m)	Crit Depth (m)	Capacity Vel (m/s)	US Node Invert (m)	Pipe Invert (m)	US Node D51 (m)	Pipe D51 (m)	Cover (m)	Cover (m)	Pipe D51 (m)	Pipe D51 (m)	US Node US Drop	US Node Kc	US Node Vhead (m)	Part-Head (m)	WSE Loss (m)	Pipe Headloss (m)	US Node HGL (m)	Pipe US HGL (m)	US Node HGL (m)	HGL (m)	Part US (m)										
223a to 223b	RCC CL2 RNU	4.62	536	0.216	2.17	46.0	6.80	165.98	0.9561	459.3	6.73	166.21	0.9562	460.2	460.2	644.4	0.72	2.13	3.19	2.22	260.14	256.55	260.14	256.55	0.75	2.83	0.0	0.437	0.90	1.27	0.23	0.20	257.20	257.20	256.78	4.80	20.9	2.8										
223b to 223c	RCC CL2 RNU	48.00	450	0.159	3.00	33.3	6.30	170.05	0.9387	452.8	6.32	170.29	0.9388	453.7	453.7	464.0	0.92	2.85	3.52	2.90	260.19	256.60	260.19	256.60	0.75	1.63	60.0	0.950	1.08	0.42	0.45	257.84	257.84	257.23	257.80	38.6	1.24											
223c to 223d	RCC CL2 RNU	11.53	450	0.159	2.20	46.5	6.30	171.01	0.9385	400.0	6.33	171.25	0.9386	404.6	404.6	423.1	0.96	2.56	3.03	2.69	260.16	256.37	260.16	256.37	0.75	1.31	45.0	0.950	0.75	0.25	0.30	259.42	259.42	258.94	2.01	49.7	0.73											
223d to 223e	RCC CL2 RNU	14.45	450	0.159	2.20	46.5	6.18	172.22	0.9385	406.8	6.11	172.95	0.9386	407.5	407.5	423.1	0.96	2.56	3.03	2.69	260.16	256.37	260.16	256.37	0.75	1.31	45.0	0.950	0.75	0.25	0.30	259.42	259.42	258.94	2.01	49.7	0.73											
223e to 223f	RCC CL2 RNU	76.00	375	0.110	0.40	250.0	5.47	180.34	0.9342	192.5	5.00	186.00	0.9365	193.9	193.9	110.9	1.32	1.74	1.74	1.44	260.30	259.12	260.30	259.12	0.65	0.77	0.0	0.975	1.45	0.04	0.06	0.23	260.30	260.24	260.01	0.30	334.1	0.00										
223f to 223g	RCC CL2 RNU	56.60	300	0.071	0.40	250.0	5.00	186.00	0.9365	80.9	5.00	186.00	0.9365	80.9	80.9	110.9	1.32	1.14	1.14	1.44	260.45	259.42	260.45	259.42	0.71	0.71	0.0	0.975	2.84	0.02	0.05	0.11	260.45	260.40	260.30	0.19	531.8	0.00										
223g to 223h	RCC CL2 RNU	8.00	375	0.110	0.40	250.0	6.11	172.95	0.9273	205.3	5.63	178.40	0.9244	204.4	205.3	110.9	1.85	1.86	1.86	2.01	260.11	258.82	260.11	258.82	0.60	0.60	0.0	0.950	1.59	1.93	0.04	0.06	0.07	0.03	260.11	260.04	260.01	0.29	360.8	0.00								
223h to 223i	RCC CL2 RNU	36.00	300	0.071	0.40	250.0	5.47	180.34	0.9388	193.8	5.00	186.00	0.9370	193.8	193.8	110.9	1.75	1.75	1.75	1.99	260.29	259.18	260.29	259.18	0.60	0.71	0.0	0.975	2.98	0.03	0.03	0.04	0.15	260.29	260.25	260.10	0.19	490.6	0.00									
223i to 223j	RCC CL2 RNU	36.00	300	0.071	0.40	250.0	5.00	186.00	0.9372	81.2	5.00	186.00	0.9372	81.2	81.2	61.2	1.38	1.15	1.15	1.45	260.45	259.48	260.45	259.48	0.74	0.64	0.0	0.975	2.98	0.02	0.05	0.11	260.45	260.40	260.29	0.19	529.9	0.00										
223j to 223k	RCC CL2 RNU	44.00	300	0.071	0.40	250.0	5.00	186.00	0.9372	81.2	5.00	186.00	0.9372	81.2	81.2	61.2	1.38	1.15	1.15	1.45	260.45	259.48	260.45	259.48	0.74	0.64	0.0	0.975	2.98	0.02	0.05	0.11	260.45	260.40	260.29	0.19	529.9	0.00										
223k to 223l	RCC CL2 RNU	11.53	450	0.159	4.54	27.0	6.30	171.01	0.9303	433.4	6.32	171.25	0.9302	433.9	433.9	407.8	0.71	1.72	4.15	2.79	260.10	257.96	260.10	257.96	0.75	2.36	0.0	0.950	0.75	0.38	0.38	0.38	0.38	0.38	257.92	257.92	257.13	4.86	20.6	2.13								
223l to 223m	RCC CL2 RNU	14.45	450	0.159	4.54	27.0	6.18	172.20	0.9303	435.4	6.11	172.95	0.9302	435.9	435.9	407.8	0.65	1.27	4.15	2.79	260.05	258.12	257.31	260.05	0.75	1.44	45.0	0.950	0.99	0.25	0.25	0.25	0.25	0.25	258.95	257.97	257.97	3.90	25.1	1.12								
223m to 223n	RCC CL2 RNU	8.15	450	0.159	1.10	96.9	6.04	173.61	0.9319	201.4	5.47	180.31	0.9294	199.0	201.4	299.1	0.67	1.27	2.02	1.69	260.09	258.26	260.09	258.26	0.75	1.33	0.0	0.950	0.65	0.08	0.05	0.04	0.04	0.04	258.92	258.97	258.93	0.50	200.6	1.17								
223n to 223o	RCC CL2 RNU	67.78	300	0.071	0.60	166.7	5.56	179.22	0.9375	207.9	5.00	186.00	0.9294	205.3	207.9	135.9	1.33	1.88	1.88	2.07	260.24	259.06	260.24	259.06	0.75	1.14	0.0	0.950	1.31	0.18	0.24	0.18	0.24	259.95	259.71	258.97	2.58	71.2	0.25									
223o to 223p	RCC CL2 RNU	67.78	300	0.071	0.60	166.7	5.00	186.00	0.9294	92.3	5.00	186.00	0.9294	92.3	92.3	135.9	1.33	1.31	1.31	1.55	260.24	259.06	260.24	259.06	0.75	1.14	0.0	0.950	1.31	0.18	0.24	0.18	0.24	259.95	259.71	258.97	2.58	71.2	0.25									
223p to 223q	RCC CL2 RNU	67.78	300	0.071	0.60	166.7	5.56	179.22	0.9375	204.9	5.54	179.50	0.9369	203.3	204.9	174.4	1.17	1.86	1.86	2.00	260.19	258.28	260.19	258.28	0.75	1.16	0.0	0.975	2.36	1.68	1.99	0.18	0.29	0.35	0.12	259.94	259.05	258.93	1.36	73.3	0.65							
223q to 223r	RCC CL2 RNU	65.00	375	0.110	1.00	100.0	6.11	172.93	0.9265	204.9	5.54	179.50	0.9265	203.3	204.9	124.0	1.17	1.76	1.76	1.99	260.19	258.28	260.19	258.28	0.75	1.16	0.0	0.975	2.36	1.68	1.99	0.18	0.29	0.35	0.12	259.94	259.05	258.93	1.36	73.3	0.65							
223r to 223s	RCC CL2 RNU	67.78	300	0.071	0.50	200.0	5.00	186.00	0.9388	97.5	5.00	186.00	0.9388	97.5	97.5	88.4	1.48	1.38	1.38	1.59	260.24	259.07	260.24	259.07	0.75	1.13	0.0	0.975	2.17	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	259.70	259.70	259.01	0.68	62.7	0.00					
223s to 223t	RCC CL2 RNU	67.78	300	0.071	0.50	200.0	5.00	186.00	0.9388	97.5	5.00	186.00	0.9388	97.5	97.5	88.4	1.48	1.38	1.38	1.59	260.24	259.07	260.24	259.07	0.75	1.13	0.0	0.975	2.17	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	259.70	259.70	259.01	0.68	62.7	0.00
223t to 223u	RCC CL2 RNU	44.00	300	0.071	0.50	200.0	8.82	153.57	0.9351	289.6	7.17	163.21	0.9351	289.6	289.6	120.8	0.41	0.82	1.26	1.78	260.03	258.84	260.03	258.84	0.75	1.39	44.5	0.950	0.44	0.38	0.38	0.38	0.38	0.38	0.38	0.38	257.02	257.02	256.80	0.66	270.3	1.32						
223u to 223v	RCC CL2 RNU	44.00	300	0.071	0.50	200.0	8.82	153.57	0.9351	289.6	7.17	163.21	0.9351	289.6	289.6	120.8	0.41	0.82	1.26	1.78	260.03	258.84	260.03	258.84	0.75	1.39	44.5	0.950	0.44	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	257.02	257.02	256.80	0.66	270.3	1.32
223v to 223w	RCC CL2 RNU	48.61	825	0.535	0.50	200.0	8.07	154.48	0.9351	455.5	6.80	165.97	0.9362	482.4	482.4	1015.4	0.48	0.90	1.87	1.79	260.15	256.87	260.15	256.87	0.75	1.39	41.2	0.975	0.78	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	
223w to 223x	RCC CL2 RNU	12.20	825	0.535	0.50	200.0	7.96	155.33	0.9351	453.3	6.70	166.99	0.9364	480.3	480.3	1015.4	0.47	0.90	1.87	1.79	260.15	256.87	260.15	256.87	0.75	1.39	41.2	0.975	0.78	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03			
223x to 223y	RCC CL2 RNU	7.50	750	0.442	0.50	200.0	7.89	155.95	0.9351	413.7	6.83	167.69	0.9368	437.8	437.8	787.5	0.56	0.99	1.83	1.83	260.15	256.87	260.15	256.87	0.75	1.39	41.2	0.975	0.64	0.05	0.03	0.05	0.03	0.05	0.03	0.05	0.03	0.05	0.03	0.05	0.03	0.05	0.03	0.05	0.03			
223y to 223z	RCC CL2 RNU	42.99	750	0.442	0.50	200.0	7.44	160.03	0.9388	358.1	6.24	160.03	0.9388	358.1	358.1	787.5	0.48	0.86	1.76	1.78	259.43	257.15	259.43	257.15	0.75	1.30	33.3	0.950	1.26	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05				
223z to 223aa	RCC CL2 RNU	12.99	675	0.358	0.50	200.0	7.24	160.96	0.9372	325.2	6.14	171.59	0.9372	343.1	343.1	594.6	0.58	0.96	1.70	1.71	259.69	257.61	259.69	257.6																								

12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage
 Drainage Model: sfg minor 12d DRI
 Rainfall File: Beveridge Intensifies 12dHydro
 TC Method: Direct
 Rainfall Method: IFD Table
 Runoff C Method: Direct

Minor 20% AEP Storm Event

Node Name	Node Type	Start Easting (m)	Start Northing (m)	Start RL (m)	Catch ID	Time Tc (min)	Intensity I (mm/hr)	Runoff C (-)	Area A (ha)	Full CA (ha)	Full Sum CA (ha)	Full Qc-CA (L/s)	Partial CA (ha)	Partial Sum CA (ha)	Partial Qc-CA (L/s)	Approach Flow Qa (L/s)
C09 (-)	CONN	319646.00	5850140.23	259.95												
22A	EDCM 900x600 GSEF SD063	319646.22	5850142.10	260.14	1P	5.00	87.70	0.71	0.0415	0.0297	0.0297	7.2	0.0297	0.0297	7.2	7.2
22B	EDCM 900x600 GSEF SD063	319646.48	5850190.72	260.19	1P	5.00	87.70	0.71	0.1200	0.0856	0.0856	20.9	0.0856	0.0856	20.9	20.9
22C	EDCM 900x600 GSEF SD065	319667.46	5850197.94	260.16	1P	5.00	87.70	0.57	0.0541	0.0308	0.0308	7.5	0.0308	0.0308	7.5	7.5
22D	EDCM 900x600 GSEF SD064	319677.83	5850198.39	260.11	1P	5.00	87.70	0.68	0.2648	0.1801	0.1801	43.9	0.1801	0.1801	43.9	43.9
22E	EDCM 900x600 GSEF SD064	319753.39	5850188.21	260.30	1P	5.00	87.70	0.68	0.2648	0.1801	0.1801	43.9	0.1801	0.1801	43.9	43.9
22F	EDCM 900x600 GSEF SD065	319806.66	5850182.13	260.45	1P	5.00	87.70	0.71	0.1735	0.1239	0.1239	30.2	0.1239	0.1239	30.2	30.2
23A	EDCM 900x600 GSEF SD064	319878.77	5850205.14	260.11	1P	5.00	87.70	0.57	0.0562	0.0320	0.0320	7.8	0.0320	0.0320	7.8	7.8
23B	EDCM 900x600 GSEF SD064	319754.33	5850198.96	260.29	1P	5.00	87.70	0.68	0.2650	0.1816	0.1816	44.2	0.1816	0.1816	44.2	44.2
23C	EDCM 900x600 GSEF SD065	319810.64	5850198.88	260.45	1P	5.00	87.70	0.71	0.1742	0.1244	0.1244	30.3	0.1244	0.1244	30.3	30.3
G07	CONN	319646.12	5850113.60	259.92												
25A	EDCM 900x600 GSEF SD063	319646.52	5850117.15	260.14												0.0
25B	EDCM 900x600 GSEF SD065	319655.50	5850121.37	260.05												0.0
25C	EDCM 900x600 GSEF SD064	319666.87	5850121.82	260.05	1P	5.00	87.70	0.63	0.0827	0.0521	0.0521	12.7	0.0521	0.0521	12.7	12.7
25D	EDCM 900x600 GSEF SD065	319677.97	5850121.94	260.09	1P	5.00	87.70	0.68	0.2778	0.1889	0.1889	46.0	0.1889	0.1889	46.0	46.0
25E	EDCM 900x600 GSEF SD064	319734.49	5850115.83	260.20	1P	5.00	87.70	0.71	0.1981	0.1414	0.1414	34.5	0.1414	0.1414	34.5	34.5
25F	EDCM 900x600 GSEF SD065	319801.88	5850108.54	260.34	1P	5.00	87.70	0.71	0.2040	0.1596	0.1596	38.9	0.1596	0.1596	38.9	38.9
26A	EDCM 900x600 GSEF SD064	319725.44	5850121.57	260.05	1P	5.00	87.70	0.67	0.2382	0.1596	0.1596	38.9	0.1596	0.1596	38.9	38.9
26B	EDCM 900x600 GSEF SD064	319725.44	5850121.58	260.09	1P	5.00	87.70	0.67	0.2382	0.1596	0.1596	38.9	0.1596	0.1596	38.9	38.9
26C	EDCM 900x600 GSEF SD065	319820.83	5850117.29	260.34	1P	5.00	87.70	0.71	0.2093	0.1494	0.1494	36.4	0.1494	0.1494	36.4	36.4
90E	EDCM 1500x1200 GSEF SD067	319725.24	5849838.60	258.66												
90A	EDCM 1500x1200 GSEF SD069-607	319742.79	5849846.02	258.71	2P	5.00	87.70	0.57	0.0260	0.0207	0.1127	27.5	0.0207	0.1127	27.5	27.5
90B	EDCM 1500x1200 GSEF SD069-607	319748.54	5849888.94	258.93	2P	5.00	87.70	0.71	0.1289	0.0320	0.0822	20.0	0.0320	0.0822	20.0	20.0
90C	EDCM 1500x1200 GSEF SD069-607	319753.19	5849932.31	259.15	2P	5.00	87.70	0.71	0.0865	0.0318	0.0865	2.1	0.0318	0.0865	2.1	2.1
90D	EDCM 1500x1200 GSEF SD069-607	319762.58	5849940.10	259.23	2P	5.00	87.70	0.57	0.0351	0.0202	0.0757	18.4	0.0202	0.0757	18.4	18.4
90E	EDCM 1500x1200 GSEF SD069-607	319765.15	5849948.07	259.22	2P	5.00	87.70	0.57	0.0777	0.0355	0.0757	18.4	0.0355	0.0757	18.4	18.4
90F	EDCM 1500x1200 GSEF SD069-607	319765.15	5849948.07	259.22	2P	5.00	87.70	0.57	0.0362	0.0208	0.0208	5.1	0.0208	0.0208	5.1	5.1

12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage
 Drainage Model: sfg minor 12d DRI
 Rainfall File: Beveridge Intensifies 12dHydro
 TC Method: Direct
 Rainfall Method: IFD Table
 Runoff C Method: Direct

Minor 20% AEP Storm Event

Node Name	Node Type	Start Easting (m)	Start Northing (m)	Start RL (m)	Catch ID	Time Tc (min)	Intensity I (mm/hr)	Runoff C (-)	Area A (ha)	Full CA (ha)	Full Sum CA (ha)	Full Qc-CA (L/s)	Partial CA (ha)	Partial Sum CA (ha)	Partial Qc-CA (L/s)	Approach Flow Qa (L/s)
99F (-)	EDCM 1500x800 GSEF SD063+607	319774.46	5849955.56	259.43	2P	5.00	87.70	0.57	0.0346	0.0198	0.0198	23.8	0.0198	0.0198	23.8	23.8
99G	EDCM 900x600 GSEF SD061	319779.02	5849997.70	259.64	2P	5.00	87.70	0.71	0.1088	0.0778	0.0778	15.1	0.0778	0.0778	15.1	15.1
99H	EDCM 900x900 GSEF SD061+607	319787.90	5850006.35	259.69	2P	5.00	87.70	0.71	0.0703	0.0502	0.0502	7.7	0.0502	0.0502	7.7	7.7
99I	EDCM 900x1200 GSEF SD061+607	319789.60	5850021.55	259.77	2P	5.00	87.70	0.71	0.0346	0.0247	0.0247	9.1	0.0247	0.0247	9.1	9.1
99J	EDCM 900x1200 GSEF SD061+607	319798.92	5850029.65	259.82	2P	5.00	87.70	0.71	0.0407	0.0291	0.0291	10.2	0.0291	0.0291	10.2	10.2
99K	EDCM 900x900 GSEF SD061+607	319825.71	5850028.60	259.96	2P	5.00	87.70	0.57	0.0247	0.0037	0.0314	7.7	0.0037	0.0314	7.7	7.7
99L	EDCM 900x1200 GSEF SD061+607	319826.57	5850034.60	259.95	2P	5.00	87.70	0.71	0.0247	0.0037	0.0032	1.3	0.0032	0.0032	1.3	1.3
99M	EDCM 900x1200 GSEF SD061+607	319835.88	5850042.10	259.94	2P	5.00	87.70	0.57	0.0247	0.0037	0.0281	7.6	0.0037	0.0281	7.6	7.6
99N	EDCM 900x600 GSEF SD061	319837.15	5850056.64	259.90	2P	5.00	87.70	0.71	0.0247	0.0037	0.0314	19.3	0.0247	0.0314	19.3	19.3
99O	EDCM 900x600 GSEF SD061	319841.43	5850096.21	260.08	2P	5.00	87.70	0.57	0.0191	0.0037	0.0637	15.5	0.0037	0.0637	15.5	15.5
99P	EDCM 900x600 GSEF SD061	319842.21	5850105.19	260.17	2P	5.00	87.70	0.57	0.0247	0.0037	0.0174	4.2	0.0174	0.0174	4.2	4.2
99Q	EDCM 900x600 GSEF SD061	319843.12	5850113.64	260.17	2P	5.00	87.70	0.57	0.0446	0.0256	0.0256	6.2	0.0256	0.0256	6.2	6.2
99R	EDCM 900x600 GSEF SD061	319844.10	5850120.87	260.20	2P	5.00	87.70	0.57	0.0001	0.0057	0.0339	7.7	0.0057	0.0292	7.1	7.7
106A	EDCM 900x600 GSEF SD061	319843.88	5850041.23	259.94	2P	5.00	87.70	0.57	0.0247	0.0037	0.033	0.8	0.0037	0.033	0.8	0.8
106B	EDCM 900x600 GSEF SD061	319845.60	5850057.73	259.90	2P	5.00	87.70	0.57	0.0343	0.0239	0.0549	13.4	0.0239	0.0549	13.4	13.4
106C	EDCM 900x600 GSEF SD061	319849.86	5850095.11	260.08	2P	5.00	87.70	0.71	0.0247	0.0143	0.0946	23.0	0.0143	0.0946	23.0	23.0
106D	EDCM 900x600 GSEF SD061	319853.11	5850125.13	260.23	2P	5.00	87.70	0.57	0.0127	0.0035	0.0540	13.1	0.0035	0.0540	13.1	13.1

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 THE CONCORDS GROUP DEVELOPMENTS PTY LTD

PROJECT & DRAWING NO: S148806R25 / 27

12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage
 Drainage Model: sfg5 SAEP2d DRI
 Rainfall File: Beveridge InterStres,12dHydro
 TC Method: Direct
 Rainfall Method: IFD Table
 Runoff C Method: Direct

5% AEP Storm Event

Node Name	Node Type	Setout Easting (m)	Setout Northing (m)	Setout RL (m)	Catch ID	Time Tc (min)	Intensity I (mm/h)	Runoff C	Area A (ha)	Full CA (ha)	Partial CA (ha)	Full CA Qe-CA (L/s)	Partial CA Qe-CA (L/s)	Approach Flow da (L/s)
C09	CONN	319645.01	5850140.23	259.85	1P	5.00	128.00	0.90	0.0415	0.0375	0.0375	13.3	0.0375	13.3
22A	EDCM 900x600 GSEF SD093	319649.22	5850142.10	260.14	1P	5.00	128.00	0.90	0.1200	0.1082	0.1082	38.5	0.1082	38.5
22B	EDCM 900x600 GSEF SD093	319654.48	5850150.72	260.19	1P	5.00	128.00	0.90	0.1200	0.1082	0.1082	38.5	0.1082	38.5
22C	EDCM 900x600 GSEF SD093	319663.46	5850159.54	260.18	1P	5.00	128.00	0.90	0.1200	0.1082	0.1082	38.5	0.1082	38.5
22D	EDCM 900x600 GSEF SD093	319673.83	5850166.59	260.11	1P	5.00	128.00	0.72	0.0541	0.0390	0.0390	13.9	0.0390	13.9
22E	EDCM 900x600 GSEF SD093	319753.39	5850188.21	260.40	1P	5.00	128.00	0.86	0.2648	0.2277	0.2277	81.0	0.2277	81.0
22F	EDCM 900x600 GSEF SD093	319698.66	5850202.13	260.45	1P	5.00	128.00	0.90	0.1735	0.1565	0.1565	55.6	0.1565	55.6
23A	EDCM 900x600 GSEF SD093	319754.33	5850205.14	260.41	1P	5.00	128.00	0.72	0.0592	0.0405	0.0405	14.4	0.0405	14.4
23B	EDCM 900x600 GSEF SD093	319754.33	5850196.96	260.29	1P	5.00	128.00	0.86	0.2670	0.2297	0.2297	81.7	0.2297	81.7
23C	EDCM 900x600 GSEF SD093	319810.61	5850190.88	260.45	1P	5.00	128.00	0.90	0.1742	0.1572	0.1572	55.9	0.1572	55.9
C07	CONN	319642.12	5850111.60	259.82										
23A	EDCM 900x600 GSEF SD093	319646.52	5850117.15	260.14										0.0
23B	EDCM 900x600 GSEF SD093	319655.50	5850124.37	260.10										0.0
23C	EDCM 900x600 GSEF SD093	319669.90	5850122.82	260.05										23.5
23D	EDCM 900x600 GSEF SD093	319677.97	5850121.94	260.09										0.0
23E	EDCM 900x600 GSEF SD093	319734.49	5850115.83	260.20	1P	5.00	128.00	0.86	0.2778	0.2389	0.2389	84.9	0.2389	84.9
23F	EDCM 900x600 GSEF SD093	319680.88	5850108.54	260.24	1P	5.00	128.00	0.90	0.1981	0.1787	0.1787	63.5	0.1787	63.5
26A	EDCM 900x600 GSEF SD093	319670.82	5850131.57	260.05	1P	5.00	128.00	0.72	0.0490	0.0353	0.0353	12.5	0.0353	12.5
26B	EDCM 900x600 GSEF SD093	319735.44	5850124.58	260.19	1P	5.00	128.00	0.86	0.2382	0.2025	0.2025	72.0	0.2025	72.0
26C	EDCM 900x600 GSEF SD093	319802.81	5850117.29	260.34	1P	5.00	128.00	0.90	0.2093	0.1888	0.1888	67.1	0.1888	67.1
90E	EDCM 1500x1200 GSEF SD067	319735.24	5849988.00	258.66	3P	5.00	128.00	0.72	0.0351	0.0255	0.0255	9.3	0.0255	9.3
90A	EDCM 1500x1200 GSEF SD063+607	319743.79	5849988.02	258.71	3P	5.00	128.00	0.72	0.0360	0.0261	0.0261	9.6	0.0261	9.6
98B	EDCM 900x1200 GSEF SD061+607	319748.54	5849988.94	258.93	2P	5.00	128.00	0.72	0.1289	0.1163	0.1163	36.9	0.1163	36.9
98C	EDCM 900x1200 GSEF SD061+607	319748.54	5849988.94	258.93	2P	5.00	128.00	0.72	0.0885	0.0781	0.0781	26.2	0.0781	26.2
99C	EDCM 1500x1200 GSEF SD063+607	319753.19	5849992.31	259.23	2P	5.00	128.00	0.72	0.0351	0.0255	0.0255	9.3	0.0255	9.3
99D	EDCM 1500x1200 GSEF SD063+607	319752.58	5849990.10	259.23	2P	5.00	128.00	0.72	0.0351	0.0255	0.0255	9.3	0.0255	9.3
99E	EDCM 1500x1200 GSEF SD063+607	319765.15	5849998.07	259.22	2P	5.00	128.00	0.72	0.0362	0.0262	0.0262	9.3	0.0262	9.3

12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage
 Drainage Model: sfg5 SAEP2d DRI
 Rainfall File: Beveridge InterStres,12dHydro
 TC Method: Direct
 Rainfall Method: IFD Table
 Runoff C Method: Direct

5% AEP Storm Event

Node Name	Node Type	Setout Easting (m)	Setout Northing (m)	Setout RL (m)	Catch ID	Time Tc (min)	Intensity I (mm/h)	Runoff C	Area A (ha)	Full CA (ha)	Partial CA (ha)	Full CA Qe-CA (L/s)	Partial CA Qe-CA (L/s)	Approach Flow da (L/s)
99F	EDCM 1500x900 GSEF SD063+607	319774.46	5849955.56	259.43	2P	5.00	128.00	0.72	0.0346	0.0251	0.0251	43.8	0.0251	43.8
99G	EDCM 900x600 GSEF SD061	319779.02	5849997.70	259.64	2P	5.00	128.00	0.72	0.0304	0.0148	0.0148	27.8	0.0148	27.8
99H	EDCM 900x600 GSEF SD061+607	319787.90	5850006.35	259.69	3P	5.00	128.00	0.90	0.0321	0.0088	0.0088	14.2	0.0088	14.2
99I	EDCM 900x1200 GSEF SD061+607	319789.60	5850021.55	259.77	3P	5.00	128.00	0.90	0.0345	0.0192	0.0192	16.8	0.0192	16.8
99J	EDCM 900x1200 GSEF SD061+607	319798.92	5850029.65	259.82	2P	5.00	128.00	0.72	0.0307	0.0150	0.0150	5.3	0.0150	5.3
99K	EDCM 900x900 GSEF SD061+607	319825.71	5850026.60	259.96	2P	5.00	128.00	0.72	0.0307	0.0150	0.0150	5.3	0.0150	5.3
99L	EDCM 900x1200 GSEF SD061+607	319826.57	5850034.60	259.95	2P	5.00	128.00	0.72	0.0291	0.0066	0.0066	2.3	0.0066	2.3
99M	EDCM 900x1200 GSEF SD061+607	319835.88	5850042.10	259.94	2P	5.00	128.00	0.72	0.0291	0.0066	0.0066	2.3	0.0066	2.3
99N	EDCM 900x600 GSEF SD061	319837.15	5850056.64	259.90	2P	5.00	128.00	0.72	0.0419	0.0304	0.0304	35.7	0.0304	35.7
99O	EDCM 900x600 GSEF SD061	319841.43	5850096.21	260.08	3P	5.00	128.00	0.72	0.0318	0.0100	0.0100	28.6	0.0100	28.6
99P	EDCM 900x600 GSEF SD061	319843.21	5850105.19	260.17	2P	5.00	128.00	0.90	0.0381	0.0205	0.0205	7.8	0.0205	7.8
99Q	EDCM 900x600 GSEF SD061	319845.12	5850113.64	260.17	2P	5.00	128.00	0.72	0.0346	0.0231	0.0231	11.5	0.0231	11.5
99R	EDCM 900x600 GSEF SD061	319844.10	5850120.87	260.20	2P	5.00	128.00	0.72	0.0300	0.0072	0.0072	14.3	0.0072	14.3
106A	EDCM 900x600 GSEF SD061	319843.88	5850041.23	259.94	2P	5.00	128.00	0.72	0.0349	0.0256	0.0256	15.5	0.0256	15.5
106B	EDCM 900x600 GSEF SD061	319845.60	5850055.73	259.90	3P	5.00	128.00	0.72	0.0349	0.0256	0.0256	15.5	0.0256	15.5
106C	EDCM 900x600 GSEF SD061	319849.86	5850095.11	260.08	3P	5.00	128.00	0.90	0.0349	0.0256	0.0256	15.5	0.0256	15.5
106D	EDCM 900x600 GSEF SD061	319853.11	5850125.13	260.23	3P	5.00	128.00	0.72	0.0361	0.0244	0.0244	24.2	0.0244	24.2

R/R CONSTRUCTION SITE
 B CONICAL AMBLEMENTS & RAMPAGE UPRATE
 A AS SUBMITTED TO COUNCIL
 REV



DATE: 18/11/20
 18/11/20
 13/03/20

DES: DWG CHK: DATE



SALES | MANAGEMENT | PLANNING | PROJECT MANAGEMENT

HEAD OFFICE: 57 AMERS STREET, BENDIGO 3550, PH: 03 5446 8700
 ABL 11 103336 888 WWW.TOMKINSON.COM



THE CORCORIS GROUP DEVELOPMENT PTY LTD
 1000 WILSON AVENUE, SUITE 101
 100 WILSON AVENUE, SUITE 101
 BENDIGO VIC 3550
 PH: 03 5446 8700
 WWW.CORCORISGROUP.COM

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SCALE: 1:1000

CORANYA ESTATE - STAGE 6
 WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 5% AEP DRAINAGE HYDROLOGICAL DATA
 MIRRELL SHIRE COUNCIL REF
 THE CORCORIS GROUP DEVELOPMENT PTY LTD
 DWS STATUS

PROJECT & DWG NO: S148806R26 / 27 C

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 PLOT DATE: 18/11/2020 FILE: C:\12D\DATA\MTKBG0-12DS01S1488 - THE CORCORIS GROUP DEVELOPMENT PTY LTD, BEVERIDGE, 91ENGINEERING DESIGN\CAD\STAGE 6\148806 RAO CONSTRUCTION PLANS\REV\DWG

12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage
 Drainage Model: sig major 12d DRI
 Rainfall File: Beveridge Intensifies 12dHydro
 TC Method: Direct
 Rainfall Method: IFD Table
 Runoff C Method: Direct

Major 1% AEP Storm Event

Node Name	Node Type	Start Easting (m)	Start Northing (m)	Start RL (m)	Catch ID	Time Tc (min)	Intensity I (mm/hr)	Runoff C (-)	Area A (ha)	Full CA	Full CA Qc-CA	Full CA Qc-CA (L/s)	Partial CA	Partial CA Qc-CA	Partial CA Qc-CA (L/s)	Approach Flow Qa (L/s)
C09	CONN	319646.00	5850140.23	259.95												
22A	EDCM 900x600 GSEF SD063	319646.22	5850142.10	260.14	1P	5.00	186.00	0.90	0.0415	0.0375	0.0375	19.4	0.0375	0.0375	19.4	19.4
22B	EDCM 900x600 GSEF SD063	319646.48	5850190.72	260.16	1P	5.00	186.00	0.90	0.1200	0.1082	0.1082	55.9	0.1082	0.1082	55.9	55.9
22C	EDCM 900x600 GSEF SD065	319667.46	5850197.94	260.16	1P	5.00	186.00	0.90	0.0541	0.0390	0.0390	20.1	0.0390	0.0390	20.1	20.1
22D	EDCM 900x600 GSEF SD064	319677.83	5850198.39	260.11	1P	5.00	186.00	0.90	0.2648	0.2277	0.2277	117.7	0.2277	0.2277	117.7	117.7
22E	EDCM 900x600 GSEF SD064	319753.39	5850188.21	260.30	1P	5.00	186.00	0.90	0.0415	0.0375	0.0375	19.4	0.0375	0.0375	19.4	19.4
22F	EDCM 900x600 GSEF SD065	319806.66	5850182.13	260.45	1P	5.00	186.00	0.90	0.1725	0.1565	0.1565	80.9	0.1565	0.1565	80.9	80.9
23A	EDCM 900x600 GSEF SD064	319878.77	5850205.14	260.11	1P	5.00	186.00	0.90	0.0562	0.0405	0.0405	20.9	0.0405	0.0405	20.9	20.9
23B	EDCM 900x600 GSEF SD064	319754.33	5850198.96	260.29	1P	5.00	186.00	0.90	0.2670	0.2297	0.2297	118.7	0.2297	0.2297	118.7	118.7
23C	EDCM 900x600 GSEF SD065	319810.64	5850198.88	260.45	1P	5.00	186.00	0.90	0.1742	0.1572	0.1572	81.2	0.1572	0.1572	81.2	81.2
G07	CONN	319646.12	5850113.64	259.92												
25A	EDCM 900x600 GSEF SD063	319646.52	5850117.15	260.14												
25B	EDCM 900x600 GSEF SD065	319655.50	5850124.37	260.10	1P	5.00	186.00	0.90	0.0827	0.0662	0.0662	34.2	0.0662	0.0662	34.2	34.2
25C	EDCM 900x600 GSEF SD064	319669.97	5850121.94	260.05	1P	5.00	186.00	0.90	0.2778	0.2389	0.2389	123.4	0.2389	0.2389	123.4	123.4
25E	EDCM 900x600 GSEF SD064	319734.49	5850115.83	260.20	1P	5.00	186.00	0.90	0.1981	0.1787	0.1787	92.3	0.1787	0.1787	92.3	92.3
25F	EDCM 900x600 GSEF SD065	319801.88	5850108.54	260.34	1P	5.00	186.00	0.90	0.0490	0.0353	0.0353	18.2	0.0353	0.0353	18.2	18.2
26A	EDCM 900x600 GSEF SD064	319750.82	5850131.57	260.05	1P	5.00	186.00	0.90	0.2382	0.2025	0.2025	104.6	0.2025	0.2025	104.6	104.6
26B	EDCM 900x600 GSEF SD064	319735.44	5850124.58	260.19	1P	5.00	186.00	0.90	0.0490	0.0353	0.0353	18.2	0.0353	0.0353	18.2	18.2
26C	EDCM 900x600 GSEF SD065	319820.83	5850117.29	260.34	1P	5.00	186.00	0.90	0.2093	0.1888	0.1888	97.5	0.1888	0.1888	97.5	97.5
26E	EDCM 1500x1200 GSEF SD067	319725.24	5849836.02	258.66												
26F	EDCM 1500x1200 GSEF SD063+607	319742.79	5849836.02	258.71	2P	5.00	186.00	0.72	0.0260	0.0261	0.0261	13.6	0.0261	0.0261	13.6	13.6
99A	EDCM 1500x1200 GSEF SD063+607	319742.79	5849836.02	258.71	2P	5.00	186.00	0.72	0.0260	0.0261	0.0261	13.6	0.0261	0.0261	13.6	13.6
99B	EDCM 900x1200 GSEF SD061+607	319748.54	5849888.94	258.93	2P	5.00	186.00	0.90	0.1289	0.1163	0.1163	53.6	0.1163	0.1163	53.6	53.6
99C	EDCM 900x1200 GSEF SD063+607	319753.19	5849932.31	259.15	2P	5.00	186.00	0.72	0.0356	0.0258	0.0258	13.6	0.0258	0.0258	13.6	13.6
99D	EDCM 1500x1200 GSEF SD063+607	319762.58	5849940.10	259.23	2P	5.00	186.00	0.72	0.0351	0.0255	0.0255	13.6	0.0255	0.0255	13.6	13.6
99E	EDCM 1500x1200 GSEF SD063+607	319765.15	5849948.07	259.22	2P	5.00	186.00	0.72	0.0362	0.0262	0.0262	13.6	0.0262	0.0262	13.6	13.6

12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage
 Drainage Model: sig major 12d DRI
 Rainfall File: Beveridge Intensifies 12dHydro
 TC Method: Direct
 Rainfall Method: IFD Table
 Runoff C Method: Direct

Major 1% AEP Storm Event

Node Name	Node Type	Start Easting (m)	Start Northing (m)	Start RL (m)	Catch ID	Time Tc (min)	Intensity I (mm/hr)	Runoff C (-)	Area A (ha)	Full CA	Full CA Qc-CA	Full CA Qc-CA (L/s)	Partial CA	Partial CA Qc-CA	Partial CA Qc-CA (L/s)	Approach Flow Qa (L/s)
99F	EDCM 1500x800 GSEF SD063+607	319774.46	5849955.56	259.43	2P	5.00	186.00	0.72	0.0346	0.0251	0.0251	13.3	0.0251	0.0251	13.3	13.3
99G	EDCM 900x600 GSEF SD061	319779.02	5849997.70	259.64	2P	5.00	186.00	0.90	0.1081	0.0982	0.0982	40.4	0.0982	0.0982	40.4	40.4
99H	EDCM 900x900 GSEF SD061+607	319787.90	5850006.35	259.69	2P	5.00	186.00	0.90	0.0703	0.0635	0.0635	20.7	0.0635	0.0635	20.7	20.7
99I	EDCM 900x1200 GSEF SD061+607	319789.60	5850021.55	259.77	2P	5.00	186.00	0.90	0.0346	0.0251	0.0251	13.3	0.0251	0.0251	13.3	13.3
99J	EDCM 900x1200 GSEF SD061+607	319798.92	5850029.65	259.82	2P	5.00	186.00	0.90	0.0207	0.0150	0.0150	7.8	0.0150	0.0150	7.8	7.8
99K	EDCM 900x900 GSEF SD061+607	319825.71	5850038.60	259.96	2P	5.00	186.00	0.72	0.0247	0.0234	0.0234	20.5	0.0234	0.0234	20.5	20.5
99L	EDCM 900x1200 GSEF SD061+607	319826.57	5850034.60	259.95	2P	5.00	186.00	0.90	0.0241	0.0235	0.0235	20.5	0.0235	0.0235	20.5	20.5
99M	EDCM 900x1200 GSEF SD061+607	319833.88	5850042.10	259.94	2P	5.00	186.00	0.90	0.0241	0.0235	0.0235	20.5	0.0235	0.0235	20.5	20.5
99N	EDCM 900x600 GSEF SD061	319837.15	5850056.64	259.90	2P	5.00	186.00	0.90	0.0241	0.0235	0.0235	20.5	0.0235	0.0235	20.5	20.5
99O	EDCM 900x600 GSEF SD061	319841.43	5850096.21	260.08	2P	5.00	186.00	0.90	0.0781	0.0705	0.0705	28.5	0.0705	0.0705	28.5	28.5
99P	EDCM 900x600 GSEF SD061	319842.21	5850105.19	260.17	2P	5.00	186.00	0.90	0.0241	0.0235	0.0235	20.5	0.0235	0.0235	20.5	20.5
99Q	EDCM 900x600 GSEF SD061	319845.10	5850113.64	260.17	2P	5.00	186.00	0.90	0.0446	0.0323	0.0323	16.7	0.0323	0.0323	16.7	16.7
99R	EDCM 900x600 GSEF SD061	319844.10	5850120.87	260.20	2P	5.00	186.00	0.72	0.0001	0.0073	0.0073	20.7	0.0073	0.0073	20.7	20.7
106A	EDCM 900x600 GSEF SD061	319843.88	5850041.23	259.94	2P	5.00	186.00	0.72	0.0241	0.0235	0.0235	20.5	0.0235	0.0235	20.5	20.5
106B	EDCM 900x600 GSEF SD061	319845.60	5850057.73	259.90	2P	5.00	186.00	0.90	0.0241	0.0235	0.0235	20.5	0.0235	0.0235	20.5	20.5
106C	EDCM 900x600 GSEF SD061	319849.86	5850095.11	260.08	2P	5.00	186.00	0.90	0.0241	0.0235	0.0235	20.5	0.0235	0.0235	20.5	20.5
106D	EDCM 900x600 GSEF SD061	319853.11	5850125.13	260.23	2P	5.00	186.00	0.90	0.0241	0.0235	0.0235	20.5	0.0235	0.0235	20.5	20.5

R&D CONSTRUCTION ESTE
 B CONSULTING AND ENGINEERING
 A AS SUBMITTED TO COUNCIL

DATE: 18/11/20
 TIME: 11:11:20
 DRAWING NO: 130/20
 DESIGNED BY: DMC
 CHECKED BY: DMC

HEAD OFFICE: 57 AMERS STREET, BENDIGO 3550, PH 03 5446 8700
 888/11 103336 888 WWW.TOMKINSON.COM

THE REMEDIATION CONTRACTOR
 INSTALLATION AND MAINTENANCE OF
 GROUNDWATER MONITORING SYSTEMS
 AND REMEDIATION SYSTEMS
 GROUP MEMBERS COMPANY

CONSTRUCTION

SCALE: 1:1000

CORANYA ESTATE - STAGE 6
WHITESIDE ST. BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
1% AEP DRAINAGE HYDROLOGICAL DATA

MITCHELL SHIRE COUNCIL REF
 THE CONCORIS GROUP DEVELOPMENTS PTY LTD
 DWS STATUS: FOR CONSTRUCTION S148806R27 / 27