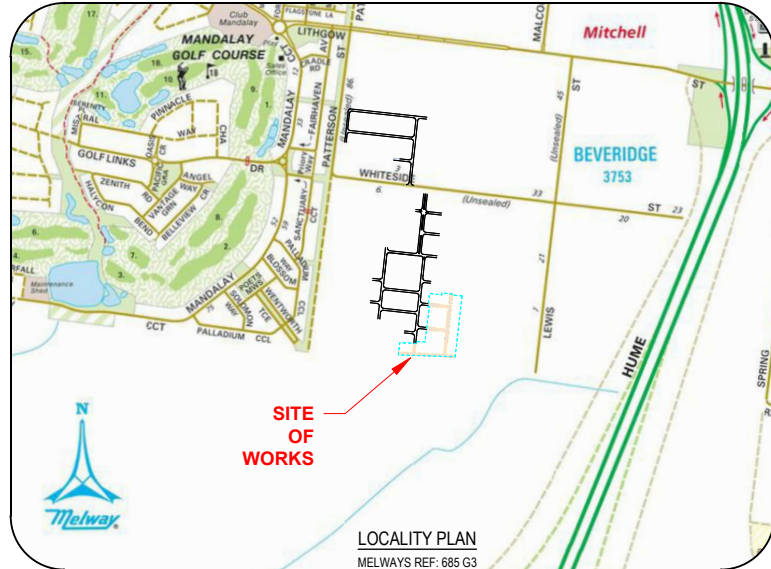


OORANYA ESTATE, STAGE 3

ROAD & DRAINAGE CONSTRUCTION PLAN

WHITESIDE STREET - BEVERIDGE



DRAWING LIST

ROAD & DRAINAGE CONSTRUCTION PLANS

S148803R01	LOCALITY PLAN & GENERAL NOTES	S148803R16	LEADBEATER CCT (RS16) LONG SECTION
S148803R02	OVERALL DEVELOPMENT PLAN	S148803R17	LEADBEATER CCT (RS16) CROSS SECTIONS
S148803R03	EXISTING CONDITIONS & SURVEY STATION/TBMS	S148803R18	LILLYPILLY RD (RS21) LONG SECTION
S148803R04	CONSTRUCTION LAYOUT PLAN	S148803R19-R22	CROSS SECTIONS (4 SHEETS)
S148803R05	CUT & FILL DEPTH RANGES & LOT LEVELS	S148803R23-26	DRAINAGE LONG SECTIONS (4 SHEETS)
S148803R06	SIGNAGE & LINEMARKING	S148803R27	PI SCHEDULE
S148803R07	PAVEMENT DETAILS	S148803R28	CATCHMENTS & 1% AEP FLOW PATHS
S148803R08-R09	INTERSECTION DETAILS (2 SHEETS)	S148803R29	20% AEP DRAINAGE HYDRAULIC DATA
S148803R10	TYPICAL DETAILS	S148803R30	5% AEP DRAINAGE HYDRAULIC DATA
S148803R11	MALLEEFOWL BVD (RS08)	S148803R31	1% AEP DRAINAGE HYDRAULIC DATA
S148803R12	LONG AND CROSS SECTIONS	S148803R32	20% AEP DRAINAGE HYDROLOGY DATA
S148803R13	MURNONG PL (RS12) LONG SECTION	S148803R33	5% AEP DRAINAGE HYDROLOGY DATA
S148803R14	MURNONG PL (RS12) CROSS SECTIONS	S148803R34	1% AEP DRAINAGE HYDROLOGY DATA
S148803R15	CUMBUNGI RD (RS14) LONG SECTION		
	CUMBUNGI RD (RS14) CROSS SECTIONS		

LEGEND

	EXISTING SHRUBS / TREES		PROPOSED SEWER AND MANHOLE
	PROPOSED STREET TREE		PROPOSED SEWER RISING MAN
	SHRUBS / TREES TO BE REMOVED		PROPOSED PRIVATE SEWER
	SIGN		EXISTING SEWER & MANHOLE
	TELCO PILLA		PROPOSED WATER MAN
	TELCO PITS		PROPOSED PRIVATE WATER MAN
	ELECTRICITY LIGHT & POLE		PROPOSED RECYCLED WATER MAN
	PROPOSED KERB & CHANNEL		EXISTING WATER MAN, FIRE PLUG AND VALVE
	EXISTING KERB & CHANNEL		PROPOSED FUTURE WATER
	PROPOSED DRAIN / PIT / I.S.		PROPOSED ELECTRICITY MAIN
	EXISTING DRAIN / PIT		PROPOSED PRIVATE ELECTRICITY MAN
	PROPOSED HOUSE DRAIN / EASEMENT CONNECTION		EXISTING ELECTRICITY MAIN & PIT
	FUTURE DRAIN / PIT		PROPOSED FUTURE ELECTRICITY
	FENCE LINE		PROPOSED GAS MAN
	INVERT (DESIGN) (EXISTING)		PROPOSED PRIVATE GAS MAN
	EDGE OF SEAL / EDGE OF BITUMEN (DESIGN) (EXISTING)		EXISTING GAS MAN
	TOP OF BANK (DESIGN) (EXISTING)		PROPOSED FUTURE GAS
	BOTTOM OF BANK		PROPOSED TELCO MAN
	PROPOSED TITLE BOUNDARY & SITE TITLE BOUNDARY		PROPOSED PRIVATE TELCO MAN
	PROPOSED FUTURE TITLE BOUNDARY		EXISTING TELCO CABLE
	PREVIOUS STAGE TITLE BOUNDARY		PROPOSED FUTURE TELCO
	PROPOSED OR EXISTING EASEMENT		PROPOSED CATCH DRAIN
	HOUSE		PROPOSED CATCH DRAIN
	PROPOSED ELEC / TELSTRA CONDUIT & PIT		PROPOSED AG DRAIN
	PROPOSED GAS & WATER CONDUIT		
	PROPOSED FLAT TOP SPEED HUMP		



WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE DETERMINED ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

TABLE OF OFFSETS FOR SERVICES

STREET	GAS		WATER		ELEC		TELCO	
	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE
MALLEEFOWL BVD (RS08)	2.1m	EAST	3.0m/2.55m	EAST	2.4m	WEST	1.9m	WEST
MURNONG PL (RS12)	2.1m	NORTH	3.0m/2.55m	NORTH	2.4m	SOUTH	1.9m	SOUTH
CUMBUNGI RD (RS14)	2.1m	NORTH	3.0m/2.55m	NORTH	2.4m	SOUTH	1.9m	SOUTH
LEADBEATER CCT (RS16)	2.1m	NORTH	3.0m/2.55m	NORTH	1.2m	SOUTH	1.75m	NORTH
LILLYPILLY RD (RS21)	2.1m	EAST	3.0m/2.55m	EAST	2.4m	WEST	1.9m	WEST

GENERAL NOTES

- PRIOR TO THE COMMENCEMENT OF WORKS**
- THE CONTRACTOR MUST NOTIFY THE RELEVANT AUTHORITY 7 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE RELEVANT WORKS.
 - THE CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS FROM THE MUNICIPALITY & VICROADS FOR ANY WORKS UNDERTAKEN WITHIN AN EXISTING ROAD RESERVE PRIOR TO THE COMMENCEMENT OF WORKS.
 - THE CONSULTANT HAS MADE EVERY REASONABLE ATTEMPT TO LOCATE EXISTING SERVICES AND HAS SHOWN THESE ON THE DRAWINGS. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS AND PROVIDE A WRITTEN REPORT DETAILING THE CONDITION REGARDING ALL EXISTING INFRASTRUCTURE WHICH THEY ARE INTERFACING WITH, OR OTHERWISE HAVING AN IMPACT ON.
 - PRIOR TO COMMENCING WORKS THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SERVICES BY SITE SURVEY (INSPECTION AND CONSULTATION WITH ALL RELEVANT SERVICING AUTHORITIES). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING SERVICES, WHETHER SHOWN OR NOT.
 - THE CONTRACTOR MUST CONTACT DIAL BEFORE YOU DIG (CALL 1100), OR VISIT THE DIAL BEFORE YOU DIG WEBSITE PRIOR TO COMMENCING WORKS AND SATISFY THEMSELVES THAT THERE ARE NO SERVICES WITHIN THE VICINITY OF THE WORK AREA.
 - NO WORK IS TO COMMENCE BEFORE THE CONTRACTOR HAS ASCERTAINED WHAT UNDERGROUND SERVICES ARE PRESENT.
 - CONTRACTOR MUST FOLLOW THE 'NO GO ZONE' SAFETY PROCEDURES AT ALL TIMES, WHICH ARE AVAILABLE FROM ALL UTILITY AND TELECOMMUNICATIONS COMPANIES, INCLUDING THE OFFICE OF THE CHIEF ELECTRICAL INSPECTOR, THE OFFICE OF GAS SAFETY AND WORKSAFE VICTORIA.
 - IF THESE SAFETY PROCEDURES CANNOT BE COMPLIED WITH THEN NO WORK IS TO BE UNDERTAKEN WITHOUT PERMISSION FROM THE UTILITY COMPANY.
 - THE CONTRACTOR MUST PREPARE A PROJECT MANAGEMENT PLAN (OTHERWISE CALLED A CONSTRUCTION OR SITE MANAGEMENT PLAN) AND HAVE IT APPROVED BY BOTH COUNCIL & THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF ANY WORKS. THIS PROJECT MANAGEMENT PLAN IS TO INCORPORATE THE FOLLOWING AT A MINIMUM AND IN ACCORDANCE WITH ANY LEGISLATION REQUIREMENTS:
 - OCCUPATIONAL HEALTH & SAFETY PROCEDURES
 - SITE STAFFING INCLUDING CONTACT DETAILS
 - TRAFFIC MANAGEMENT PLAN
- CONSTRUCTION SETOUT**
- ALL LEVELS ARE TO A.H.D. AND ARE REFERENCED TO THE T.B.M. INDICATED.
 - COORDINATION OF THIS DESIGN USES MGA 94. CORRECT AS OF THE DATE OF THESE PLANS. FROM 1ST JANUARY 2017, MGA 2020 MAY BE IN STANDARD USE AND WILL DIFFER IN POSITION BY AROUND 1.8 METRES FROM THIS DOCUMENT.
 - NO TM CAN BE USED WITHOUT FIRST PROVING IT TO BE CORRECT TO A SECOND TM. NO HORIZONTAL SETOUT CONTROL CAN BE USED WITHOUT FIRST PROVING IT TO BE CORRECT TO A THIRD KNOWN POINT. THE CONSULTING SURVEYOR IS TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY. TITLE PGS AND T.B.M.'S TO BE RE-ESTABLISHED BY A LICENSED SURVEYOR IF FOUND TO BE MISSING.
 - IF USING GNSS / GPS TO SETOUT FOR CONSTRUCTION PLEASE NOTE:
 - GNSS HAS REDUCED VERTICAL PRECISION COMPARED TO TRADITIONAL SURVEY METHODS.
 - ONLY USE A SINGLE POINT CALIBRATION FOR THE VERTICAL THEN TEST TO AT LEAST 1 OTHER STATED TM BEFORE PROCEEDING.
 - IF YOU HAVE ANY QUERIES OR CONCERNS CONTACT THE CONSULTING SURVEYOR.
- SITE MANAGEMENT DURING CONSTRUCTION**
- THE SUPERINTENDENT IS RESPONSIBLE FOR THE DESIGN AND MANAGEMENT OF THE CONSTRUCTION WORKS. ANY PROBLEMS ARISING DURING CONSTRUCTION SHALL BE DIRECTED TO THE SUPERINTENDENT.
 - ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING DESIGN & CONSTRUCTION MANUAL AND ANY OTHER RELEVANT AUTHORITY SPECIFICATIONS. A COPY OF THE EDM CAN BE FOUND AT WWW.VPA.VIC.GOV.AU *IF YOU HAVE ANY ISSUES INTERPRETING THE MANUAL CONTACT THE SUPERINTENDENT.
 - ALL WORKS MUST ABIDE BY THE APPROVED CONSTRUCTION MANAGEMENT PLAN AND MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION 'CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL' (PUBLICATION NO 275). APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIOD.
 - BEFORE COMMENCING ANY EXCAVATION WORKS OF 1.5m DEPTH OR GREATER, THE CONTRACTOR IS REQUIRED TO SUBMIT THE REQUIRED NOTIFICATION TO WORKSAFE VICTORIA. THE NOTIFICATION MUST BE RECEIVED BY THE AUTHORITY

- AT LEAST THREE (3) DAYS PRIOR TO COMMENCING EXCAVATIONS, A COPY OF THE NOTIFICATION IS TO BE PROVIDED TO THE SUPERINTENDENT. THE CONTRACTOR SHALL COMPLY WITH THE MINES ACT, OCCUPATIONAL HEALTH AND SAFETY ACT, WORKSAFE VICTORIA REQUIREMENTS INCLUDING COMPLIANCE CODES.
 29. ANY FILLING IN EXCESS OF 300mm DEPTH IS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION UNLESS DIRECTED OTHERWISE. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL & FILLED USING APPROVED CLAY FILL. TOPSOIL IS TO BE REPLACED NO MORE THAN 150mm THICK TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING IS TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED AS DETAILED ABOVE IN ACCORDANCE WITH AS3798-1996 (GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS). ON COMPLETION THE CONTRACTOR SHALL PRESENT A LEVEL 1 TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED, ITS CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS 'CONTROLLED FILL'. IF ANY SUBSTANTIAL FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH VERIFICATION PROVIDED TO THE SUPERVISING ENGINEER. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
 30. THE SUPERINTENDENT IS TO BE ADVISED OF ANY FILLING THAT ACHIEVES A DEPTH OF 300mm OR GREATER.
 31. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE REQUIREMENT FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO. 448 (SEPT 95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
 32. ALL TRENCHES ARE TO ACHIEVE THE SPECIFIED COMPACTION RESULTS WITHOUT EXCEPTION. THE SUPERINTENDENT RESERVES THE RIGHT TO REQUIRE COMPACTION TESTING BY A NATA APPROVED LABORATORY AT THE CONTRACTORS EXPENSE.
 33. ALL EXCAVATIONS OF DEPTH 1.5m OR GREATER MUST COMPLY WITH LEGISLATION ENFORCED BY WORKSAFE VICTORIA. A NOTICE OF INTENTION TO COMMENCE EXCAVATION MUST BE SUBMITTED TO YOUR LOCAL WORKSAFE OFFICE.
 34. ALL LOTS ARE TO ACHIEVE A MINIMUM CROSS FALL OF 1 IN 150 (0.67%) TO A LEGAL POINT OF DISCHARGE (DRAINAGE POINT OR ROAD) UNLESS STATED OTHERWISE.
 35. RESERVES TO BE FREE DRAINING AND TO BE LEFT IN A CONDITION SATISFACTORY TO THE SUPERINTENDENT.
- ROAD WORKS AND FOOTPATHS**
- ALL KERB & CHANNEL IS SM2 (EDM 302) UNLESS STATED OTHERWISE.
 - ALL ASPHALT ROAD SEALS ARE TO BE 7mm TYPE 'N' UNLESS STATED OTHERWISE.

- ALL KERB RADI ARE TO BACK OF KERB UNLESS STATED OTHERWISE.
 - ALL FOOTPATHS ARE TO BE CONSTRUCTED AS PER THE EDM SERIES 400 STANDARD DRAWINGS AND IN ACCORDANCE WITH COUNCIL STANDARDS UNLESS STATED OTHERWISE.
 - TSGs ARE TO BE INSTALLED ON ALL PEDESTRIAN CROSSINGS AS PER AS 1428.4.
 - ALL NEW INTERSECTIONS ARE TO HAVE STREET SIGNS INSTALLED TO COUNCIL STANDARDS RESPECTIVE OF WHETHER THEY ARE DETAILED ON THE ENGINEERING PLANS OR NOT.
 - AT ALL TEMPORARY STAGE BOUNDARY TERMINATIONS TO ROADS THE CONTRACTOR IS TO INSTALL A D4-HAZARD SIGN.
 - ALL CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS AND MINIMUM CEMENT CONTENT OF 320 kg/m³.
 - TRANSITIONS BETWEEN DIFFERENT KERB TYPES TO BE OVER 3.0m MINIMUM. IF IT CANNOT BE ACHIEVED AT A PRAM CROSSING OR DRIVEWAY CROSOVER.
 - ROAD PAVEMENT COMPACTION & TESTING REQUIREMENTS ARE AS PER THE INFRASTRUCTURE DESIGN MANUAL.
- STORMWATER DRAINAGE AND SERVICE CONDUIT NOTES**
- ALL EASEMENT DRAINAGE PIPES ARE TO BE 1.0m OFFSET TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE.
 - ALL EASEMENT DRAINAGE FITS ARE TO BE 1.0m PAST TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE.
 - ALL PROPERTY DRAINAGE CONNECTIONS FROM ROAD RESERVES ARE TO ENTER THE PROPERTY 1.0m OS SIDE BOUNDARY ON THE LOW SIDE WITH 0.5m COVER UNLESS NOTED OTHERWISE.
 - ALL STORMWATER AND CONDUIT TRENCHES UNDER ROAD PAVEMENT, KERB & CHANNEL AND FOOTPATH SHALL BE BACKFILLED IN ACCORDANCE WITH THE DM UNLESS STATED OTHERWISE.
 - REFER TO THE CERTIFIED PLAN OF SUBDIVISION FOR ALL EASEMENT WIDTHS, DO NOT SCALE FROM DRAWING.
 - STORMWATER DRAINS SHALL BE RCP OR PVC CLASS 5 UNLESS OTHERWISE SHOWN. RCP PIPES BELOW 750mm DIA SHALL BE RUBBER RING JOINTED CLASS 2, RCP PIPES ABOVE 750mm DIA SHALL BE FLUSH JOINTED CLASS 2.
 - ALL RCP FLUSH JOINTED PIPES ARE TO HAVE EXTERNAL SEALING BANDS.
- CONSTRUCTION HOLD POINTS**
- CONSTRUCTION HOLD POINTS ARE TO BE IN ACCORDANCE WITH THE INFRASTRUCTURE DESIGN MANUAL.
- EMERGENCY CONTACTS**
- THE PROJECT AREA CONTAINS THE FOLLOWING SERVICES FOR ASSISTANCE IN EMERGENCY CONTACT:

SERVICE	AUTHORITY & CONTACT TELEPHONE
DRAINAGE	MITCHELL COUNCIL 03 5734 6200
ELECTRICITY	SP USNET 180 088 208
GAS	APA GROUP 08 8115 4500
TELESTRA	180 853 935
SEWER & WATER	YARRA VALLEY WATER 03 9872 1456
 - IN ANY EMERGENCY IF YOU BELIEVE LIFE OR PROPERTY IS THREATENED DO NOT HESITATE TO CONTACT STATE EMERGENCY SERVICES ON TELEPHONE 000.

Mitchell Shire Council
TRANSPORT & DEVELOPMENT
APPROVED PLAN

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TM & PSM LOCATIONS
B AMENDMENTS AS REQUESTED BY COUNCIL
A AS SUBMITTED TO COUNCIL

REV REVISION

MELWAYS REF: 685 G3

DES DWG CHK DATE

Tomkinson Group

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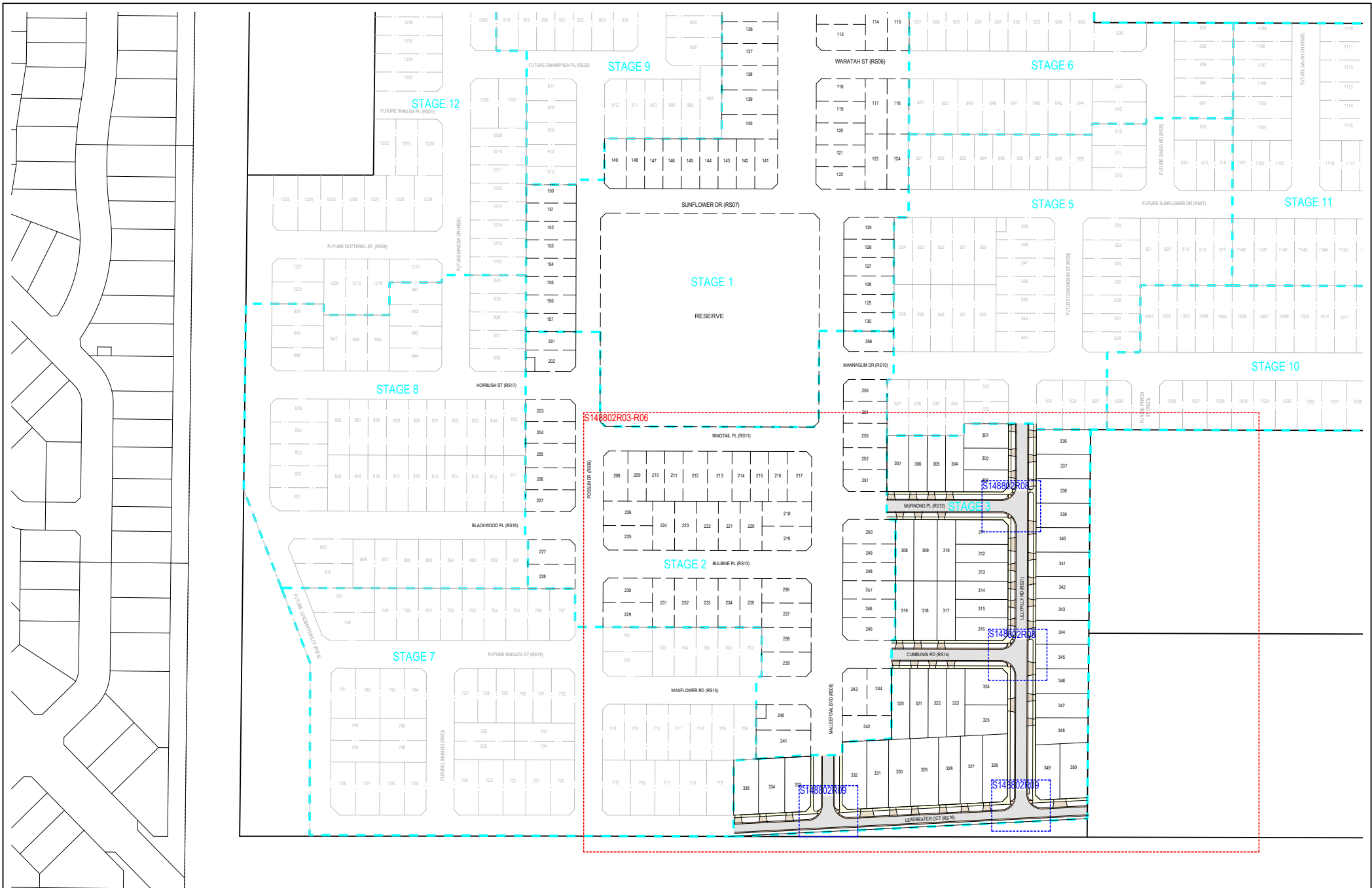
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WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
LOCALITY PLAN & GENERAL NOTES

MITCHELL SHIRE COUNCIL #REF
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: PROJECT & DWG NO: REV: 1

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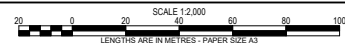
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 A AS SUBMITTED TO COUNCIL



DESIGNED BY: J M AR 29/09/20
 DRAWN BY: AR JM NB 29/06/20
 CHECKED BY: AR JM NB 26/06/20
 DESIGNED BY: DES DWG CHK DATE



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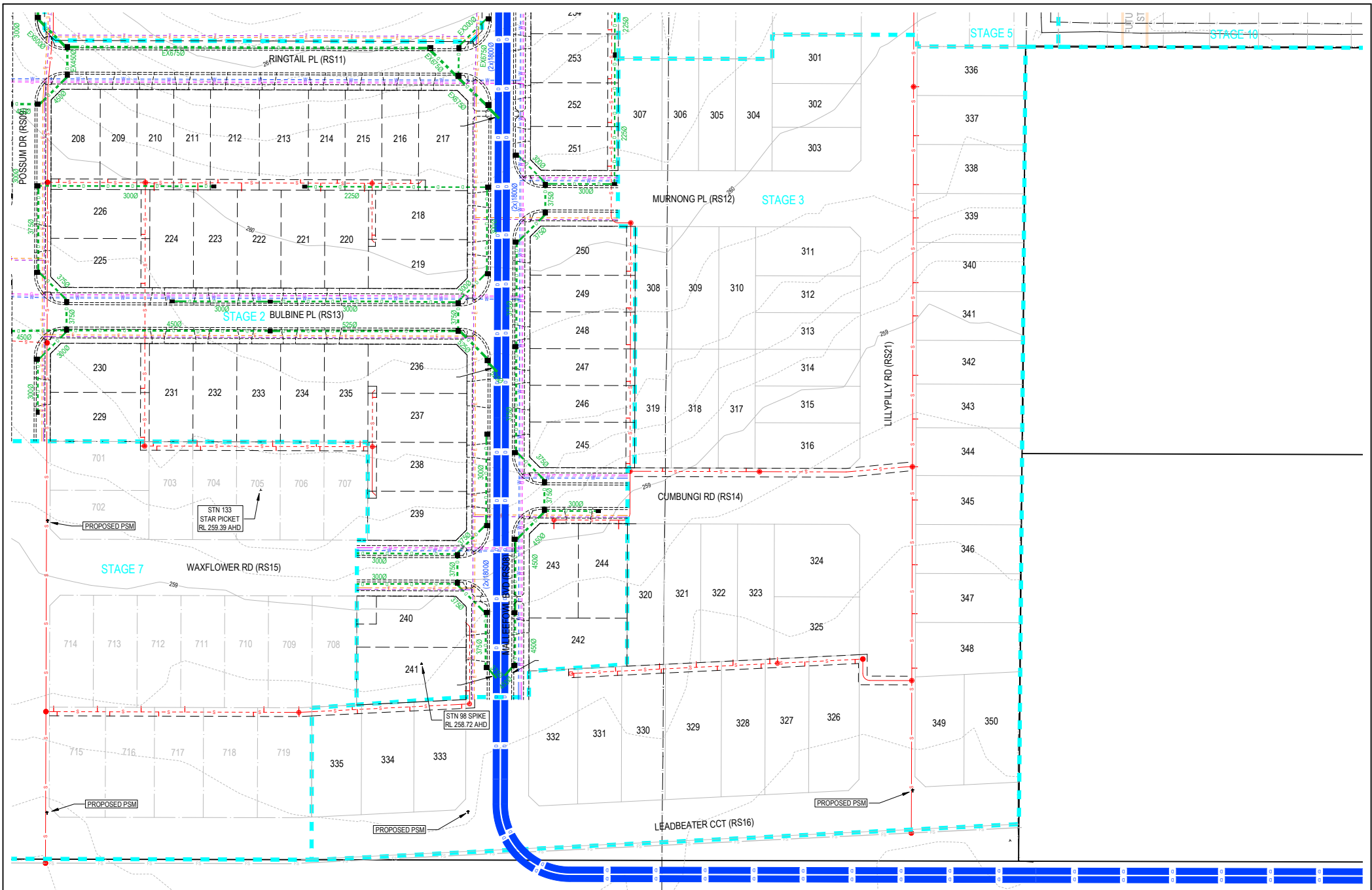
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 ROADS & DRAINAGE CONSTRUCTION PLANS
 OVERALL DEVELOPMENT PLAN
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C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
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 A AS SUBMITTED TO COUNCIL

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MITCHELL SHIRE COUNCIL
 TRANSPORT & DEVELOPMENT
APPROVED PLAN

APPROVED
 Mitchell Shire Council of Vic. Act 1956

JM AR 28/09/20
 AR JM NB 28/06/20
 AR JM NB 28/06/20



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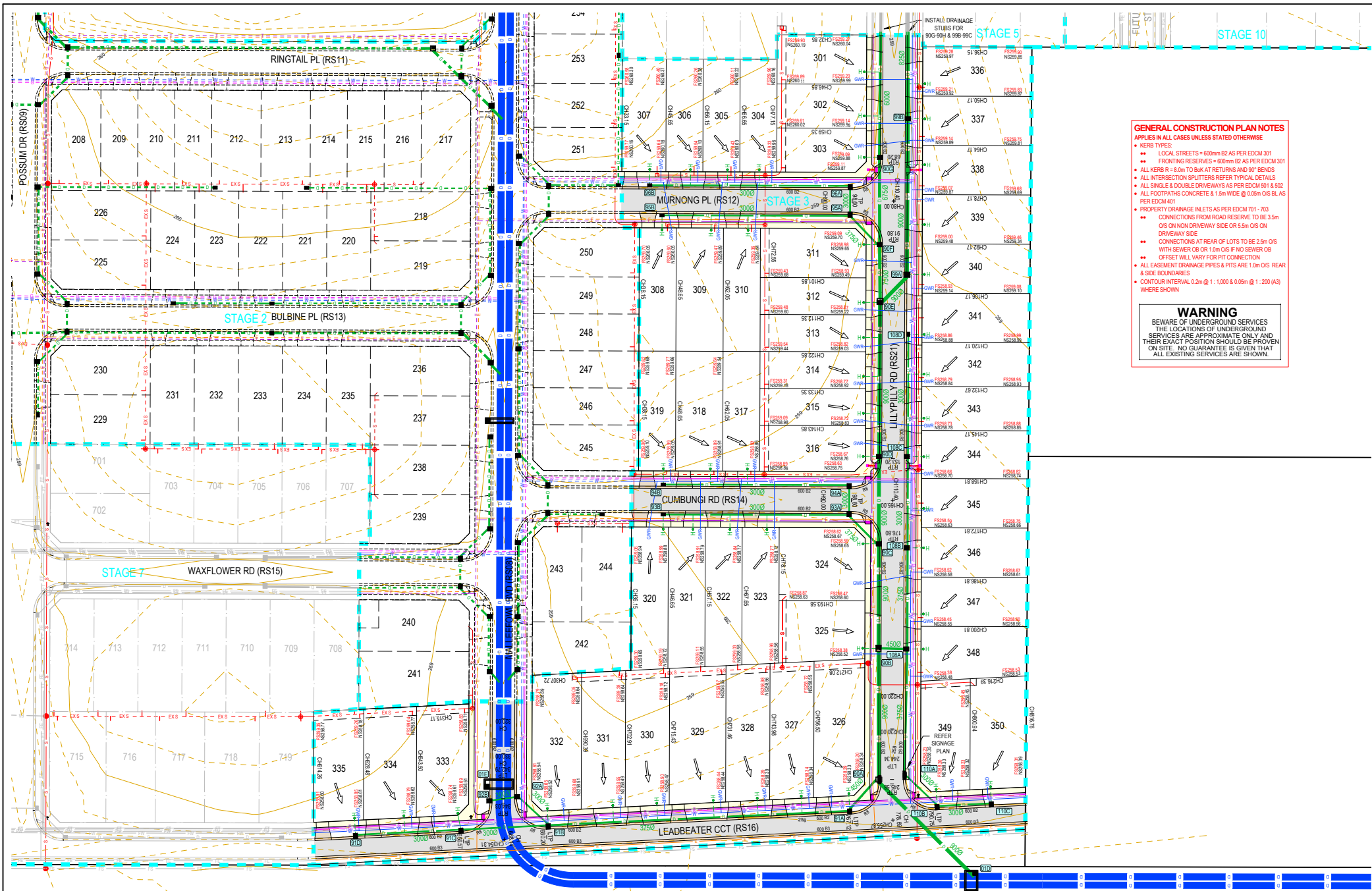
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OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 EXISTING CONDITIONS & SURVEY STATIONS/TBM'S

MITCHELL SHIRE COUNCIL #REF
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GENERAL CONSTRUCTION PLAN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE

- KERB TYPES
 - LOCAL STREETS = 600mm B2 AS PER EDCM 301
 - FRONTING RESERVES = 600mm B2 AS PER EDCM 301
- ALL KERB R = 8.0m TO BAK AT RETURNS AND 90° BENDS
- ALL INTERSECTION SPLUTERS REFER TYPICAL DETAILS
- ALL SINGLE & DOUBLE DRIVEWAYS AS PER EDCM 501 & 502
- ALL FOOTPATHS CONCRETE & 1.5m WIDE @ 0.05m O/S BL AS PER EDCM 401
- PROPERTY DRAINAGE INLETS AS PER EDCM 701 - 703
 - CONNECTIONS FROM ROAD RESERVE TO BE 3.5m O/S ON NON DRIVEWAY SIDE OR 5.5m O/S ON DRIVEWAY SIDE
 - CONNECTIONS AT REAR OF LOTS TO BE 2.0m O/S WITH SEWER OB OR 1.0m O/S IF NO SEWER OB
 - OFFSET WILL VARY FOR FIT CONNECTION
- ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S REAR & SIDE BOUNDARIES
- CONTOUR INTERVAL 0.2m @ 1:1,000 & 0.05m @ 1:200 (A3) WHERE SHOWN

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C. UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
 B. AMENDMENTS AS REQUESTED BY COUNCIL
 A. AS SUBMITTED TO COUNCIL

REVISION

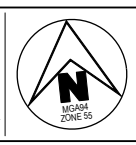
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MITCHELL SHIRE COUNCIL
 TRANSPORT & DEVELOPMENT
 APPROVED PLAN

APPROVED

JM AR 28/06/20
 AR JM NB 28/06/20
 AR JM NB 28/06/20

DES DWG CHK DATE



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OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 CONSTRUCTION LAYOUT PLAN

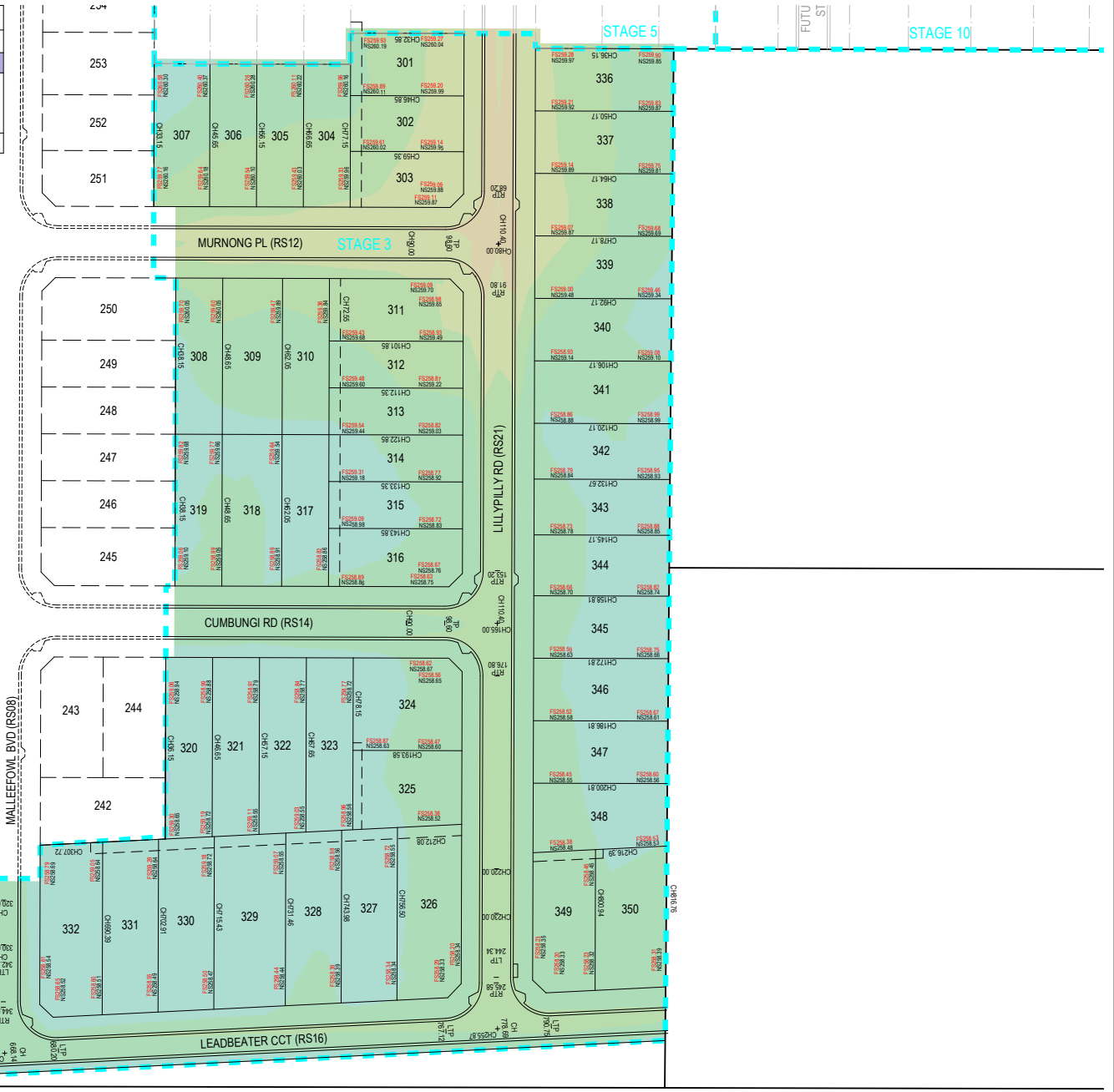
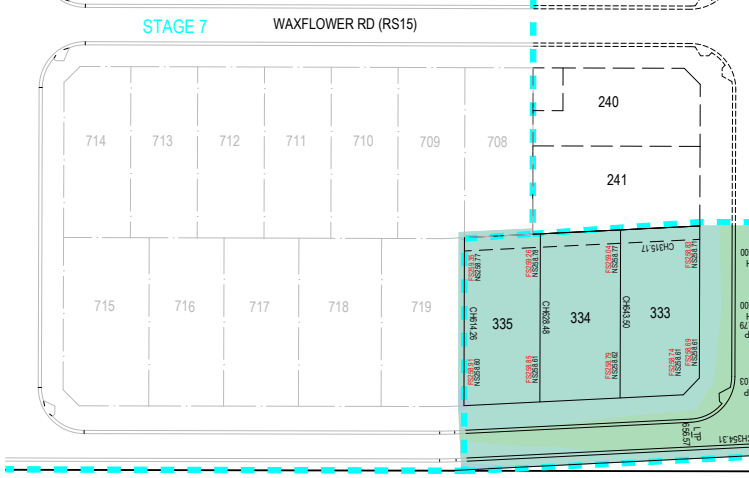
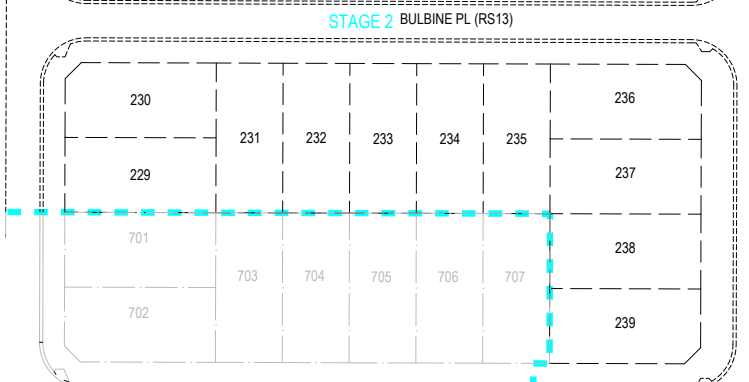
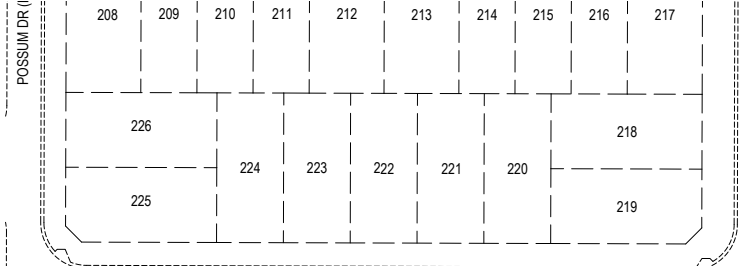
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No.	Min. Level	Max. Level	Colour	No.	Min. Level	Max. Level	Colour	No.	Min. Level	Max. Level	Colour
1	-2.00	-1.50		5	-0.30	0.00		9	1.00	1.50	
2	-1.50	-1.00		6	0.00	0.30					
3	-1.00	-0.60		7	0.30	0.60					
4	-0.60	-0.30		8	0.60	1.00					

NOTES: CUT & FILL DEPTH LEVELS ARE A COMPARISON BETWEEN EXISTING SURFACE & DESIGN SURFACE. NS LEVELS ARE ORIGINAL AS-SURVEYED EXISTING SURFACE LEVELS & FS LEVELS ARE FINAL FINISHED SURFACE AFTER TOPSOILING. NO ALLOWANCE HAS BEEN MADE FOR STRIPPING OF TOPSOIL OR BOXING.



MITCHELL SHIRE COUNCIL
TRANSPORT & DEVELOPMENT
APPROVED PLAN

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
B AMENDMENTS AS REQUESTED BY COUNCIL
A AS SUBMITTED TO COUNCIL

REV _____ REVISION _____ DES DWG CHK DATE _____

REVISION

DES DWG CHK DATE

Tomkinson Group

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OORANYA ESTATE

SCALE 1:1,000
LENGTHS ARE IN METRES - PAPER SIZE A3

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**OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
CUT & FILL DEPTH RANGES & LOT LEVELS**

MITCHELL SHIRE COUNCIL REF
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: _____ PROJECT & DWG No: _____ REV: _____

FOR CONSTRUCTION S148803R05 / 34 C

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LEGEND

- WHITE PROPOSED LINEMARKING
- YELLOW PROPOSED LINEMARKING
- PROPOSED SIGNAGE
- PROPOSED RRRM
- PROPOSED PSM
- PROPOSED TGS
- PROPOSED DIRECTIONAL TGS

ROAD NAMES TO BE DETERMINED "RSXX" SIGNS ONLY SHOWN FOR LOCATION

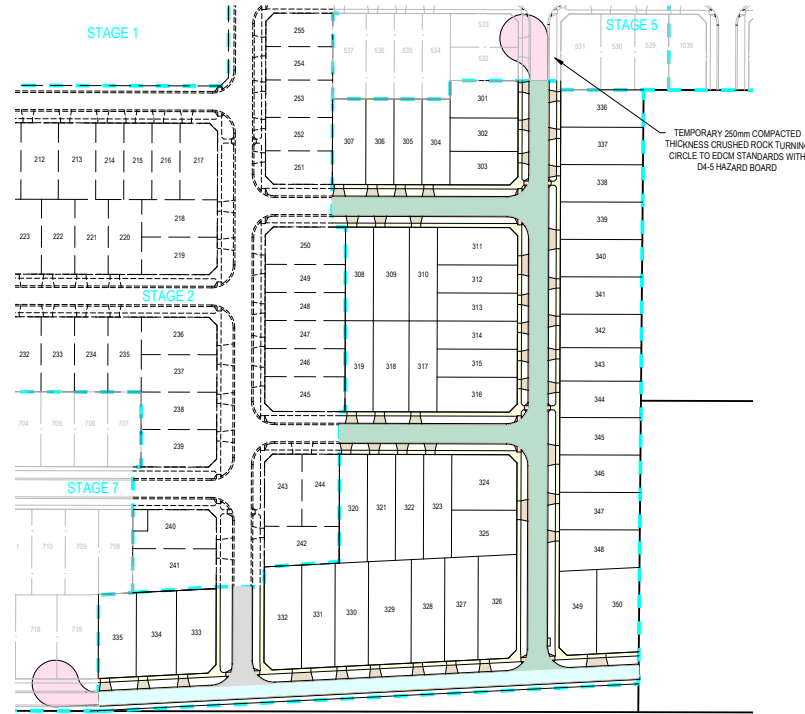
- NOTE:**
1. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRRM'S AT MAX 6m SPACING.
 2. RRRM'S TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL MANUAL VOL 2 (TEM 2)
 3. ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.
 4. ALL SIGN POSTS TO BE MIN 1m CLEAR OF DRIVEWAYS, BACK OF KERB.
 5. ALL TGS'S TO BE IN ACCORDANCE TO AS 1428.4.1.
 6. BEWARE UNDERGROUND SERVICES

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CONCRETE STD SINGLE & DOUBLE DRIVEWAY PAVEMENT DETAILS (EDCM 501 - 502)		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4886 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
2 CONCRETE	125	CONCRETE 32MPa WITH SLAB TOP REINFORCEMENT WITH 50mm MIN. COVER
3 BASE	50	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE 3 BELOW)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE G BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT

CONCRETE FOOTPATH & SHARED PATH PAVEMENT DETAILS (EDCM 401)		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4886 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
2 CONCRETE	125	CONCRETE 32MPa WITH SLAB TOP REINFORCEMENT WITH 50mm MIN. COVER
3 BASE	50	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE 3 BELOW)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE G BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT

TEMPORARY TURNING CIRCLE PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 BASE COURSE	250	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK



PAVEMENT DESIGN TO BE READ IN CONJUNCTION WITH GTS REPORT 20C 0008-2

- PAVEMENT NOTES:**
- PAVEMENT DESIGNS PRODUCED IN ACCORDANCE WITH GTS REPORT 20C 0008-2
 - PAVEMENT BASE COURSES ARE TO BE COMPACTED TO A MINIMUM DENSITY RATIO OF 98% MODIFIED MAXIMUM DRY DENSITY (MMD).
 - UPPER PAVEMENT SUBBASE COURSE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 96% MMD.
 - LOWER PAVEMENT SUBBASE COURSE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 95% MMD.
 - THE CAPPING LAYER SHALL BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% STANDARD AND EXTEND 1.0m BEHIND BACK OF KERB.
 - PAVEMENT LAYERS SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm THICKNESS.
 - SUBGRADE PREPARATION AND ENGINEERED FILL CONSTRUCTION (PAVEMENTS) TO BE IN ACCORDANCE WITH RELEVANT STANDARDS.
 - WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCL. ROCK & CLAY) MUST BE REMOVED. THE SUBGRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
 - PRIOR TO PLACEMENT OF THE FILL MATERIAL UNDER NEW PAVEMENT, APPROVAL OF THE MATERIAL TO BE USED MUST BE OBTAINED FROM COUNCIL.
 - ALL SUBSURFACE DRAINS TO BE CONSTRUCTED AS PER STANDARD DRAWING EDM 202 FOR EXPANSIVE SUBGRADES.
 - IN THE CASE OF ANY PAVEMENT DESIGN CONFLICTS, GTS REPORT 20C 0008-2 WILL TAKE PRECEDENCE.

620mm DEPTH ACCESS STREET 2 PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 ASPHALT	40	TYPE N ASPHALT
2 BITUMEN CRUMB RUBBER ASPHALT	40	SIZE 10 ASPHALT
3 SAMI SEAL 1 BITUMINOUS PRIME		SAMI SEAL (10mm) - S1BRF (APPLICATION RATE OF GREATER THAN OR EQUAL TO 1.8 LITRES/m ² BITUMINOUS PRIME (UNDER SAMI SEAL))
4 BASE COURSE	120	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK (SEE NOTE B ABOVE)
5 UPPER SUBBASE COURSE	160	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C ABOVE)
6 LOWER SUBBASE COURSE	110	40mm NOM. SIZE CLASS 4 CRUSHED ROCK (SEE NOTE D ABOVE)
7 CAPPING LAYER	150	CONTINUATION OF LOWER SUBBASE COURSE OR EXISTING SUBGRADE MATERIAL STABILISED WITH 3% LIME BY MASS (SEE NOTE E ABOVE)
8 SUBGRADE		

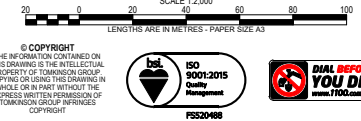
570mm DEPTH ACCESS STREET 1 PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 ASPHALT	30	TYPE N ASPHALT
2 BITUMEN CRUMB RUBBER ASPHALT	30	SIZE 10 ASPHALT
3 SAMI SEAL 1 BITUMINOUS PRIME		SAMI SEAL (10mm) - S1BRF (APPLICATION RATE OF GREATER THAN OR EQUAL TO 1.8 LITRES/m ² BITUMINOUS PRIME (UNDER SAMI SEAL))
4 BASE COURSE	130	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK (SEE NOTE B BELOW)
5 UPPER SUBBASE COURSE	130	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C BELOW)
6 LOWER SUBBASE COURSE	100	40mm NOM. SIZE CLASS 4 CRUSHED ROCK (SEE NOTE D ABOVE)
7 CAPPING LAYER	150	CONTINUATION OF LOWER SUBBASE COURSE OR EXISTING SUBGRADE MATERIAL STABILISED WITH 3% LIME BY MASS (SEE NOTE E ABOVE)
8 SUBGRADE		

440mm DEPTH ACCESS STREET PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 ASPHALT	20	TYPE L ASPHALT
2 BITUMEN CRUMB RUBBER ASPHALT	30	SIZE 10 ASPHALT
3 SAMI SEAL 1 BITUMINOUS PRIME		SAMI SEAL (10mm) - S1BRF (APPLICATION RATE OF GREATER THAN OR EQUAL TO 1.8 LITRES/m ² BITUMINOUS PRIME (UNDER SAMI SEAL))
4 BASE COURSE	140	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK (SEE NOTE B BELOW)
5 SUBBASE COURSE	100	20mm NOM. SIZE CLASS 3 CRUSHED ROCK (SEE NOTE D ABOVE)
7 CAPPING LAYER	150	CONTINUATION OF LOWER SUBBASE COURSE OR EXISTING SUBGRADE MATERIAL STABILISED WITH 3% LIME BY MASS (SEE NOTE E ABOVE)
8 SUBGRADE		

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
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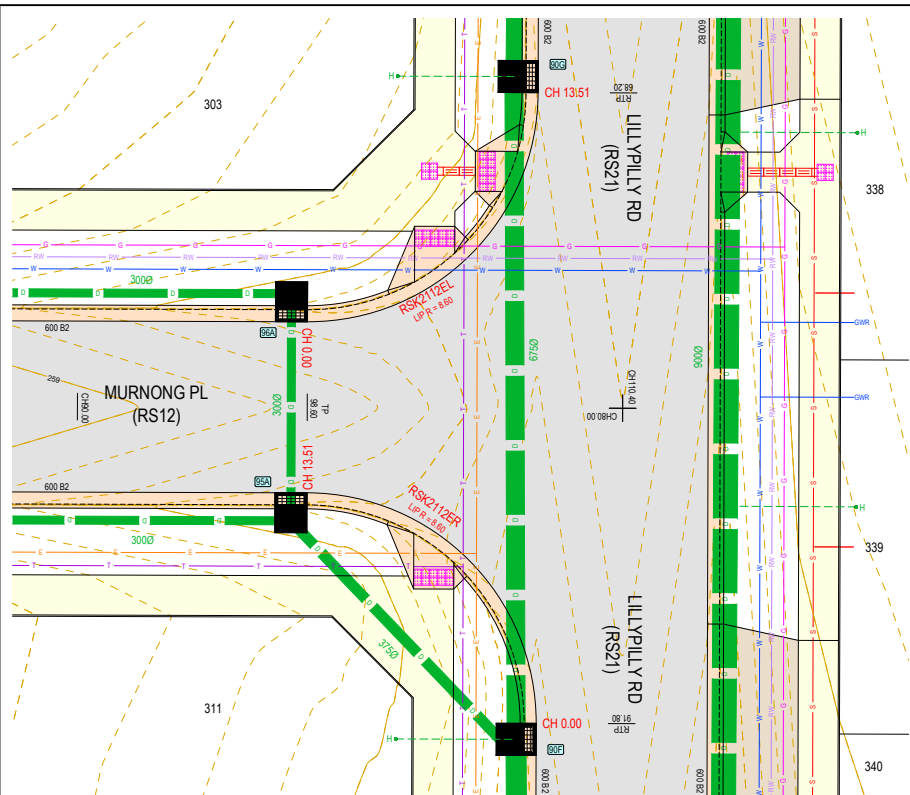


JM AR 28/09/20
 AR JM NB 28/06/20
 AR JM NB 26/06/20



**OORANYA ESTATE - STAGE 3
 WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 PAVEMENT DETAILS**
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 THE CORCORIS GROUP DEVELOPMENTS PTY LTD
 DWG STATUS: PROJECT & DWG No: REV: FOR CONSTRUCTION S148803R07 / 34 C

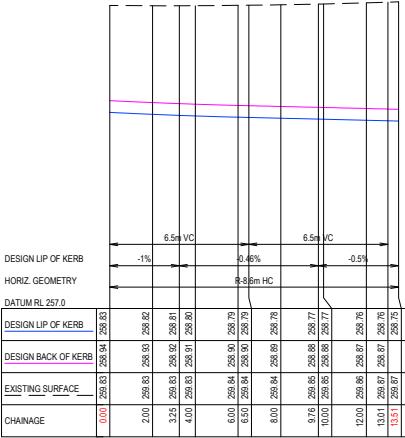
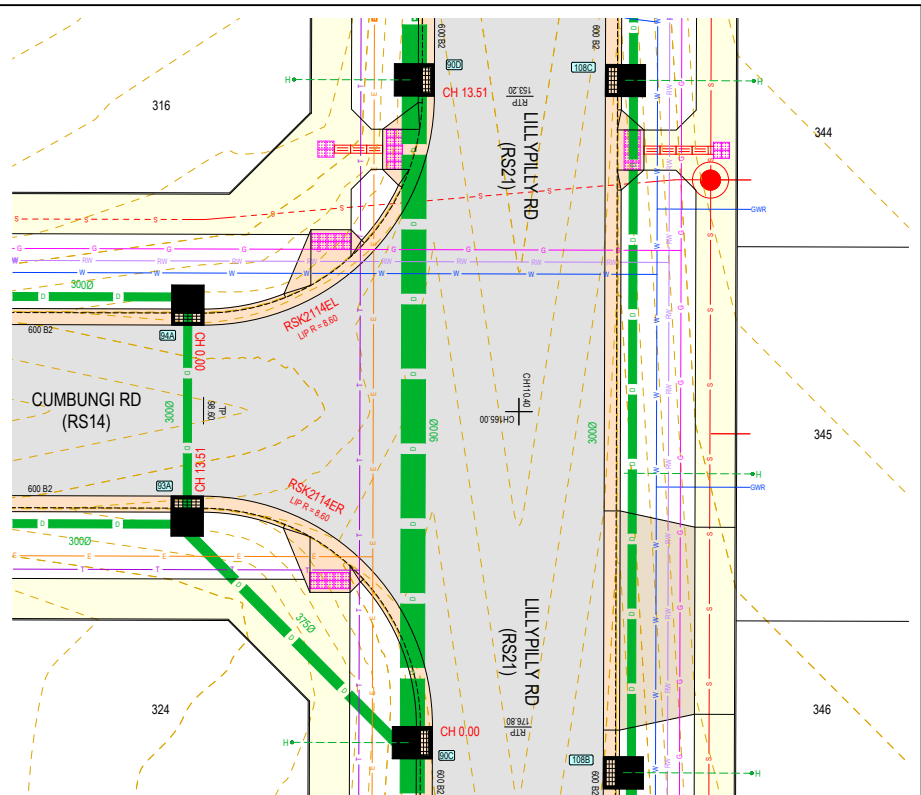
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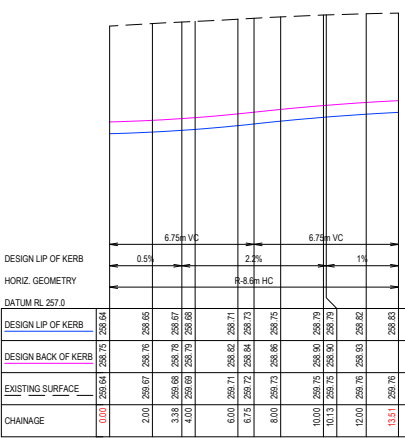
GENERAL CONSTRUCTION PLAN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE

- KERB TYPES:
 - LOCAL STREETS = 600mm B2 AS PER EDM 301
 - FRONTING RESERVES = 600mm B2 AS PER EDM 301
 - ALL KERB R = 8.0m TO BxK AT RETURNS AND 90° BENDS
 - ALL INTERSECTION SPLITTERS REFER TYPICAL DETAILS
 - ALL SINGLE & DOUBLE DRIVEWAYS AS PER EDM 501 & 502
 - ALL FOOTPATHS CONCRETE & 1.5m WIDE @ 0.05m O/S BL AS PER EDM 401
 - PROPERTY DRAINAGE INLETS AS PER EDM 701 - 703
 - CONNECTIONS FROM ROAD RESERVE TO BE 3.5m O/S ON NON DRIVEWAY SIDE OR 5.5m O/S ON DRIVEWAY SIDE
 - CONNECTIONS AT REAR OF LOTS TO BE 2.5m O/S WITH SEWER O/S OR 1.5m O/S IF NO SEWER O/S
 - OFFSET WILL VARY FOR PIT CONNECTION
 - ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S REAR & SIDE BOUNDARIES
 - CONTOUR INTERVAL 0.2m @ 1:1,000 & 0.05m @ 1:200 (AS) WHERE SHOWN

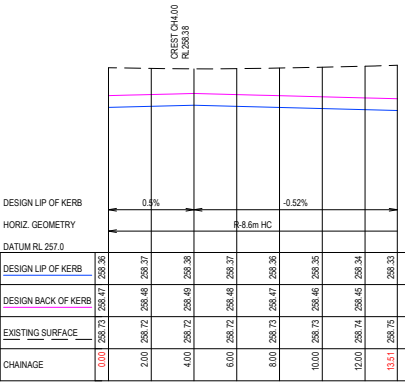
WARNING
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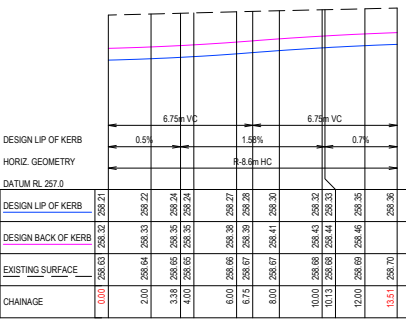
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RSK2112ER
 SCALE 1:250 V:1:50



RSK2114EL
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RSK2114ER
 SCALE 1:250 V:1:50

MITCHELL SHIRE COUNCIL
 TRANSPORT & DEVELOPMENT
 APPROVED PLAN

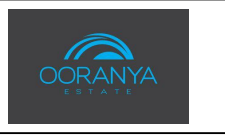
C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
 B AMENDMENTS AS REQUESTED BY COUNCIL
 A AS SUBMITTED TO COUNCIL

REV 13.51
 DESIRED DATE: 28/06/20
 DESIRED TIME: 13.51



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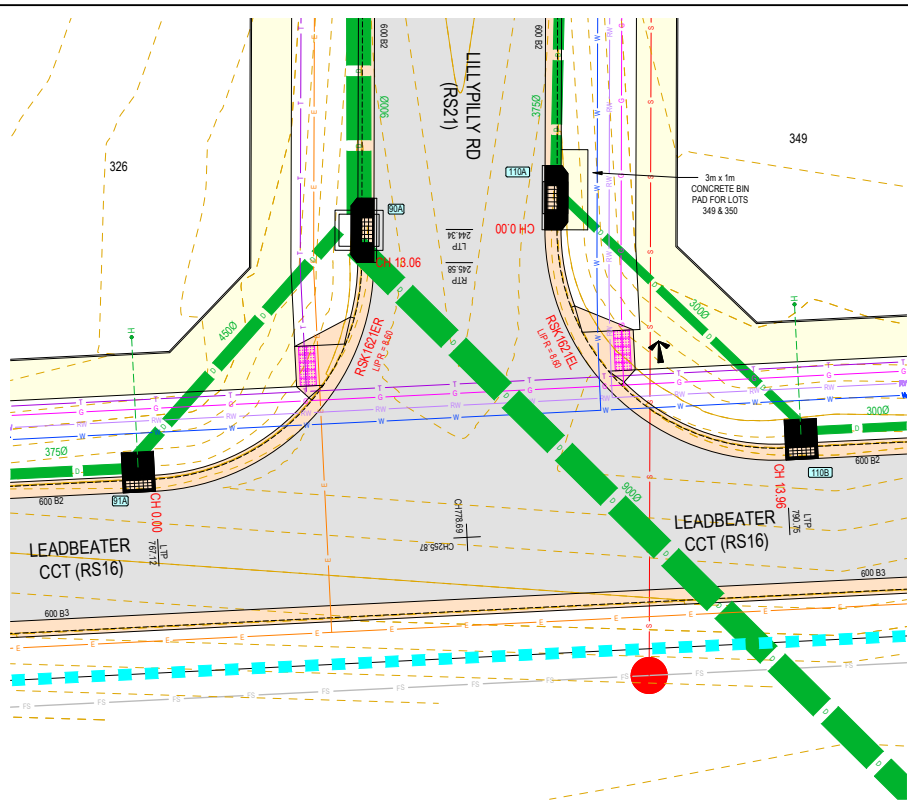
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OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 INTERSECTION DETAILS (SHEET 1 OF 2)

MITCHELL SHIRE COUNCIL, R/RF
 THE CONCORIS GROUP DEVELOPMENTS PTY LTD

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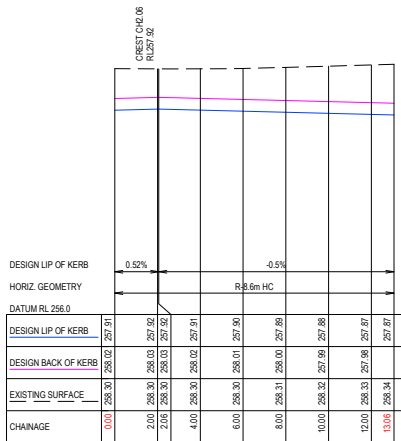
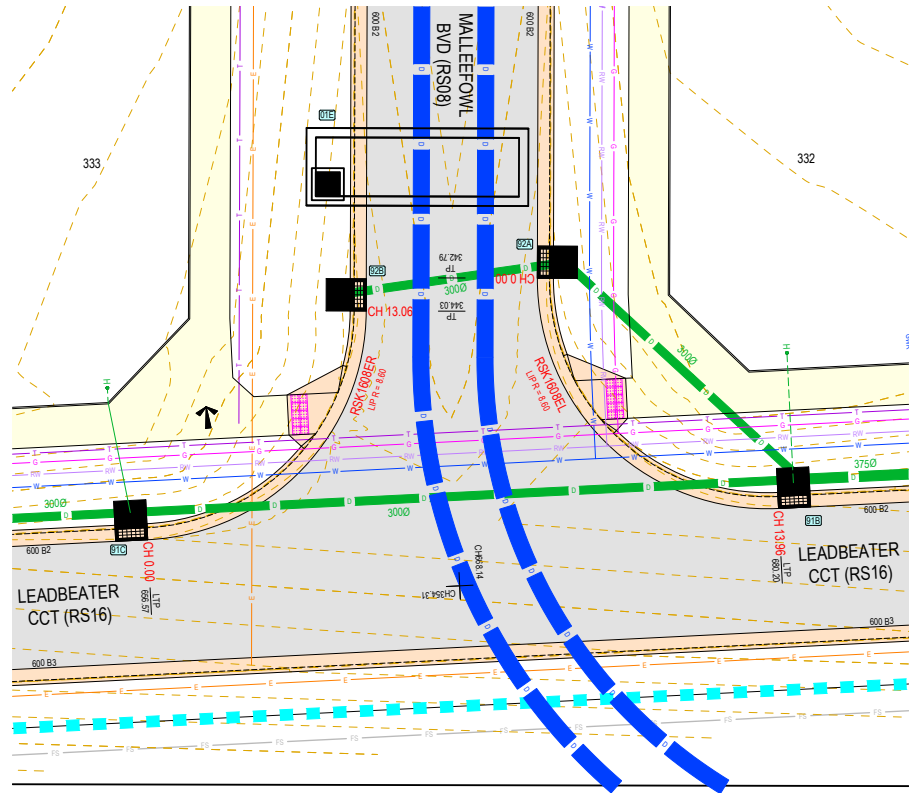
GENERAL CONSTRUCTION PLAN NOTES

APPLIES IN ALL CASES UNLESS STATED OTHERWISE

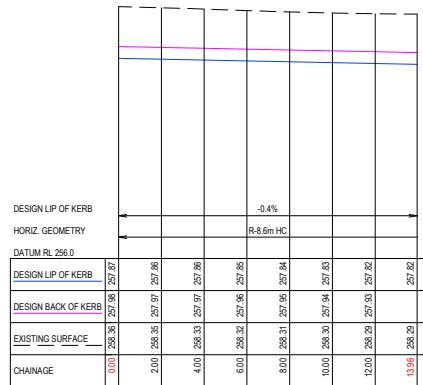
- KERB TYPES:
 - LOCAL STREETS = 600mm B2 AS PER EDM 301
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 - CONTOUR INTERVAL 0.2m @ 1:1,000 & 0.05m @ 1:200 (A3) WHERE SHOWN

WARNING

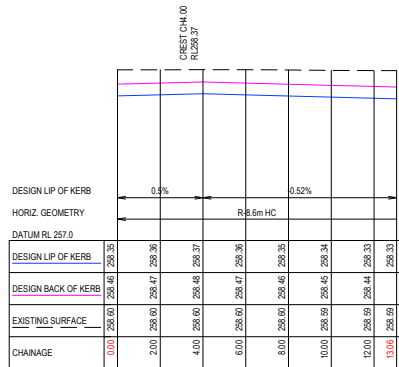
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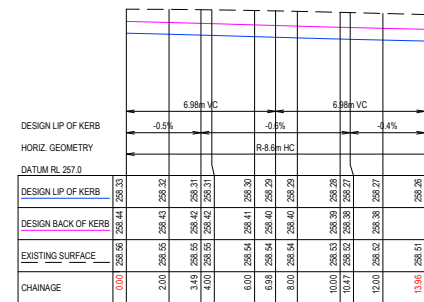
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SCALE 1:250 V 1:50



RSK1621EL
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RSK1608ER
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RSK1608EL
SCALE 1:250 V 1:50

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS

B AMENDMENTS AS REQUESTED BY COUNCIL

A AS SUBMITTED TO COUNCIL

REV	REVISION	DES	DWG	CHK	DATE



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JM AR 28/09/20

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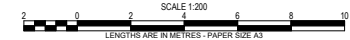
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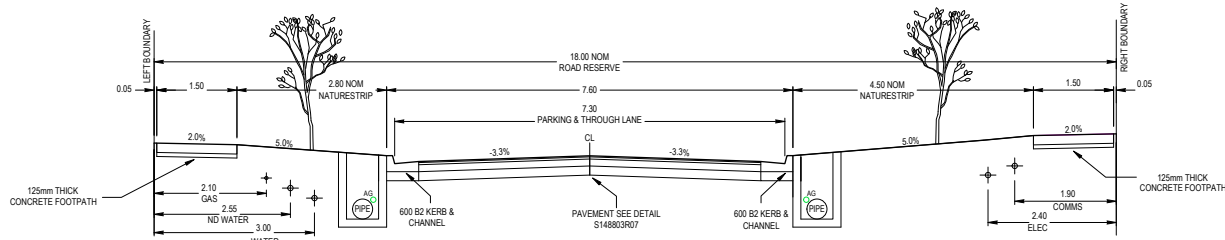
**OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
INTERSECTION DETAILS (SHEET 2 OF 2)**

MITCHELL SHIRE COUNCIL #REF

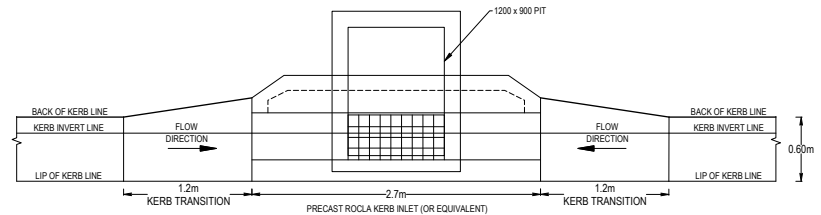
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

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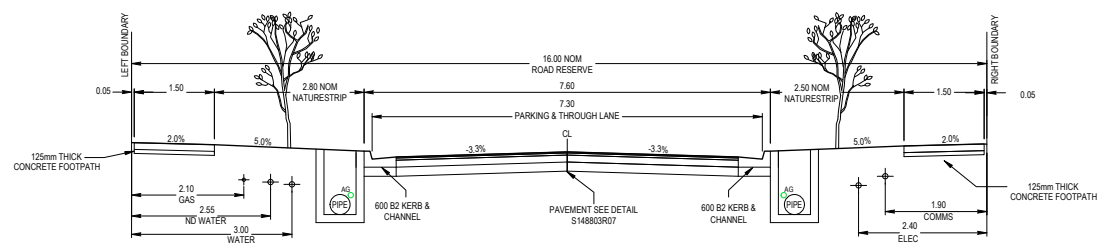
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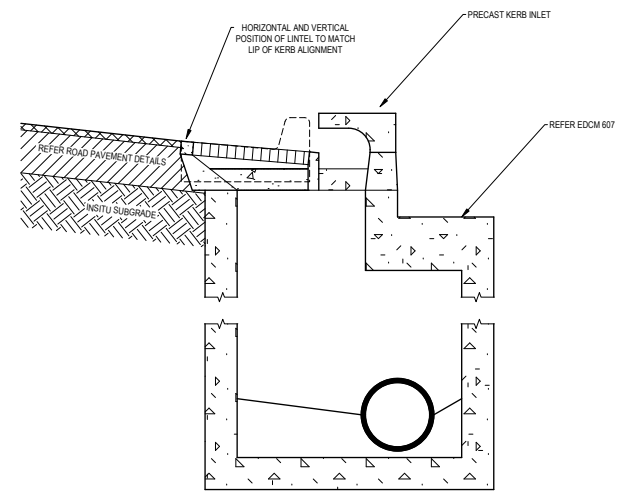
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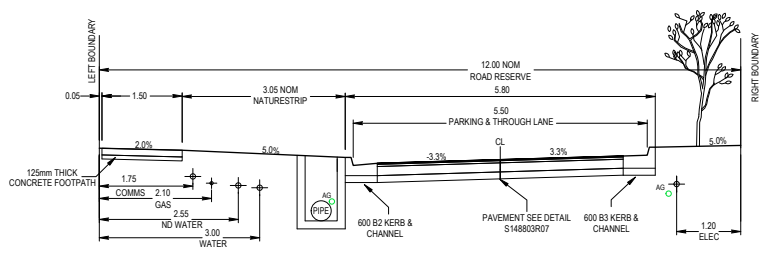
EXTENDED KERB INLET DETAIL - SAG
 SCALE 1:50



TYPICAL SECTION - MURNONG PL (RS12), CUMBUNGI RD (RS14) & LILLYPILLY RD (RS21)
 SCALE 1:100



EXTENDED KERB INLET SECTION - SAG
 SCALE 1:25



TYPICAL SECTION - LEADBEATER CCT (RS16)
 SCALE 1:100

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
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JM AR 29/09/20
 AR JM NB 29/06/20
 AR JM NB 26/06/20
 DES DWG CHK DATE

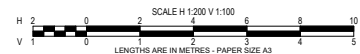
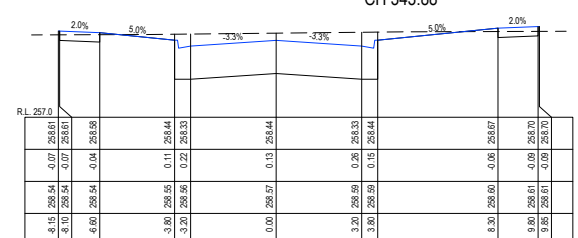
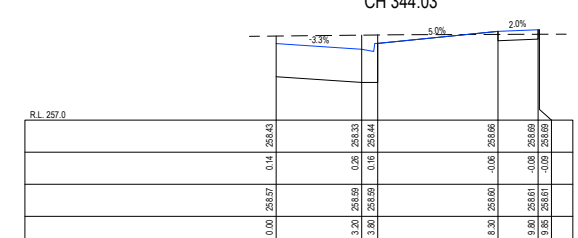
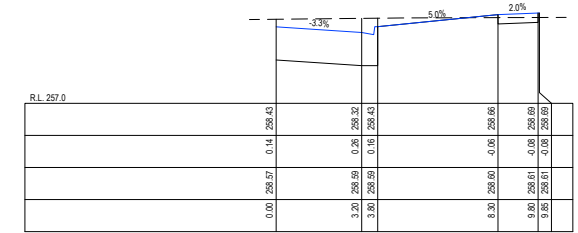
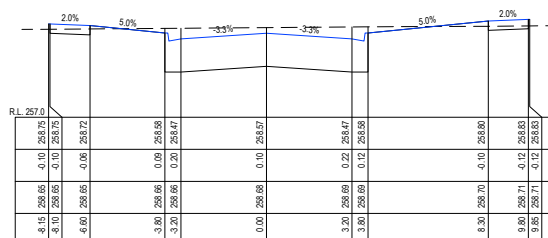
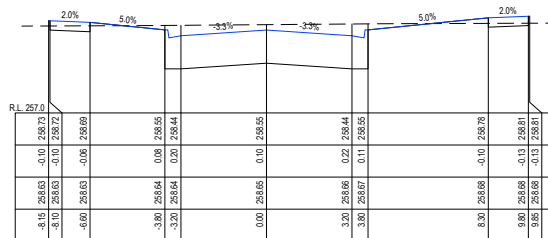
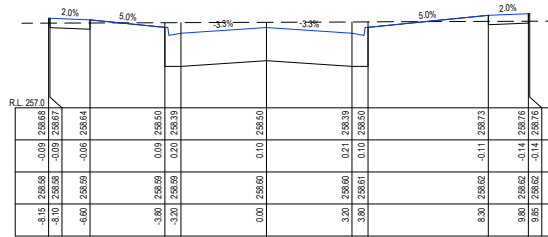
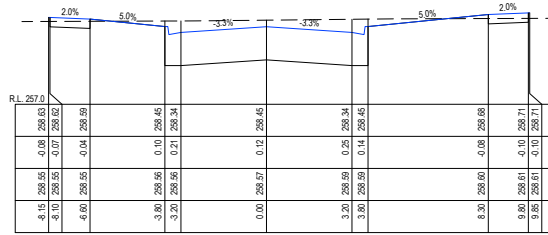
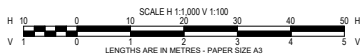
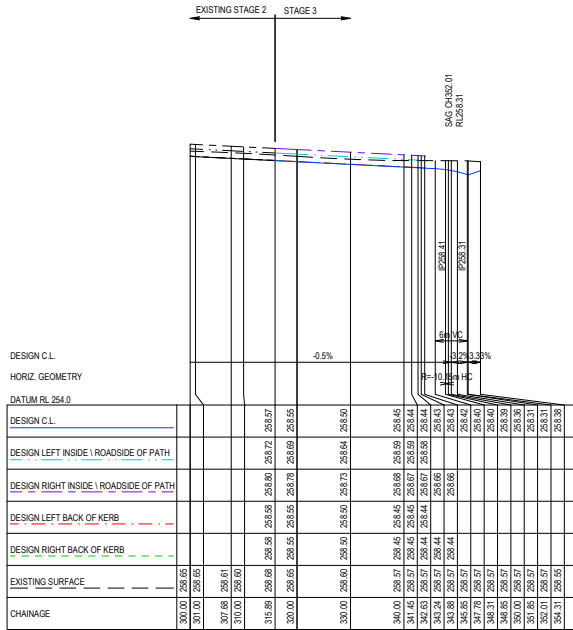
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OORANYA ESTATE - STAGE 3
 WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 TYPICAL DETAILS
 MITCHELL SHIRE COUNCIL #RFB
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD
 DWG STATUS: PROJECT & DWG No: REV:
FOR CONSTRUCTION S148803R10 / 34 C

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MITCHELL SHIRE COUNCIL
TRANSPORT & DEVELOPMENT
APPROVED PLAN

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TM & PSM LOCATIONS
B AMENDMENTS AS REQUESTED BY COUNCIL
A AS SUBMITTED TO COUNCIL

DESIGNED BY: JM AR 28/09/20
CHECKED BY: AR JM NB 29/06/20
DATE: AR JM NB 26/06/20

REVISION
DESIGNER: JM AR
CHECKER: JM NB

Tomkinson Group

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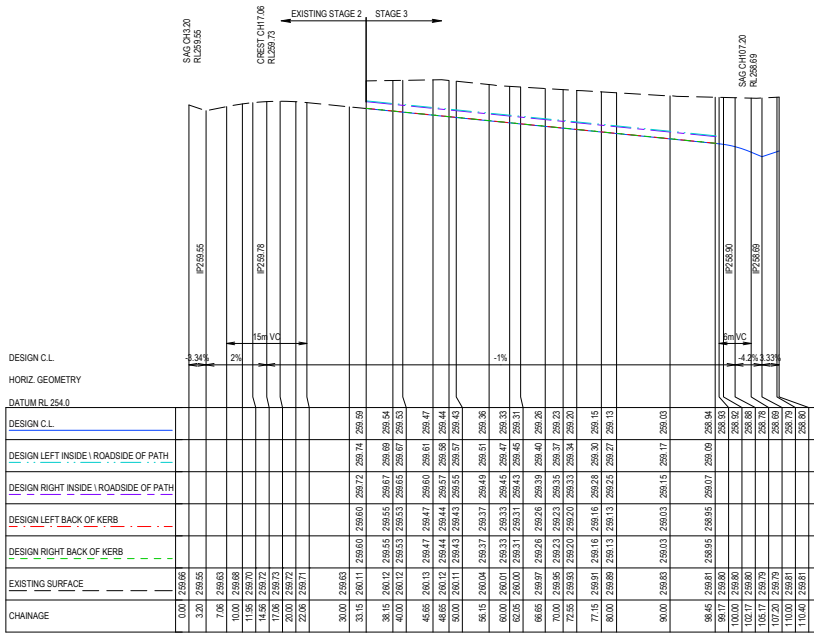
**OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
MALLEEFOWL BVD (RS08) LONG & CROSS SECTIONS**

MITCHELL SHIRE COUNCIL #REF
THE CORCORIS GROUP DEVELOPMENTS PTY LTD


DWG STATUS:
PROJECT & DWG No: S148803R11 / 34
REV: C

FOR CONSTRUCTION

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CHAINAGE	EXISTING SURFACE	DESIGN LEFT BACK OF KERB	DESIGN RIGHT BACK OF KERB	DESIGN LEFT INSIDE ROADSIDE OF PATH	DESIGN RIGHT INSIDE ROADSIDE OF PATH	DESIGN C.L.
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3.20	2596.65					
7.06	2596.63					
10.00	2596.68					
11.95	2596.70					
14.95	2597.72					
17.06	2597.73					
20.00	2597.72					
22.06	2597.71					
30.00	2596.63					
33.15	2597.11	2596.60	2596.72	2597.74	2597.99	
38.15	2597.12	2596.55	2596.67	2597.69	2597.54	
40.00	2597.12	2596.53	2596.65	2597.67	2597.53	
45.65	2597.13	2596.47	2596.61	2597.61	2597.47	
48.65	2597.12	2596.44	2596.57	2597.58	2597.44	
50.00	2597.11	2596.43	2596.55	2597.57	2597.43	
55.15	2597.04	2596.37	2596.49	2597.51	2597.36	
60.00	2597.01	2596.33	2596.45	2597.47	2597.33	
62.05	2597.00	2596.31	2596.43	2597.45	2597.31	
66.65	2596.97	2596.26	2596.39	2597.40	2597.26	
70.00	2596.96	2596.23	2596.35	2597.37	2597.23	
72.55	2596.93	2596.20	2596.33	2597.34	2597.20	
77.15	2596.91	2596.16	2596.28	2597.30	2597.15	
80.00	2596.89	2596.13	2596.25	2597.27	2597.13	
90.00	2596.83	2596.03	2596.15	2597.17	2597.03	
98.45	2596.81	2595.95	2597.07	2597.08	2596.94	
99.17	2596.80				2596.93	
100.00	2596.80				2596.93	
102.00	2596.80				2596.93	
105.17	2596.79				2596.92	
107.20	2596.79				2596.89	
110.00	2596.81				2597.79	
110.40	2596.81				2597.90	



 TRANSPORT & DEVELOPMENT

APPROVED PLAN

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS JM AR 28/09/20
 B AMENDMENTS AS REQUESTED BY COUNCIL AR JM NB 29/06/20
 A AS SUBMITTED TO COUNCIL AR JM NB 26/06/20

REV _____ DESIOW _____ DESIOW _____ DESIOW _____ DESIOW _____
 DESIOW _____ DESIOW _____ DESIOW _____ DESIOW _____



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 V 1 0 20 40 60 V
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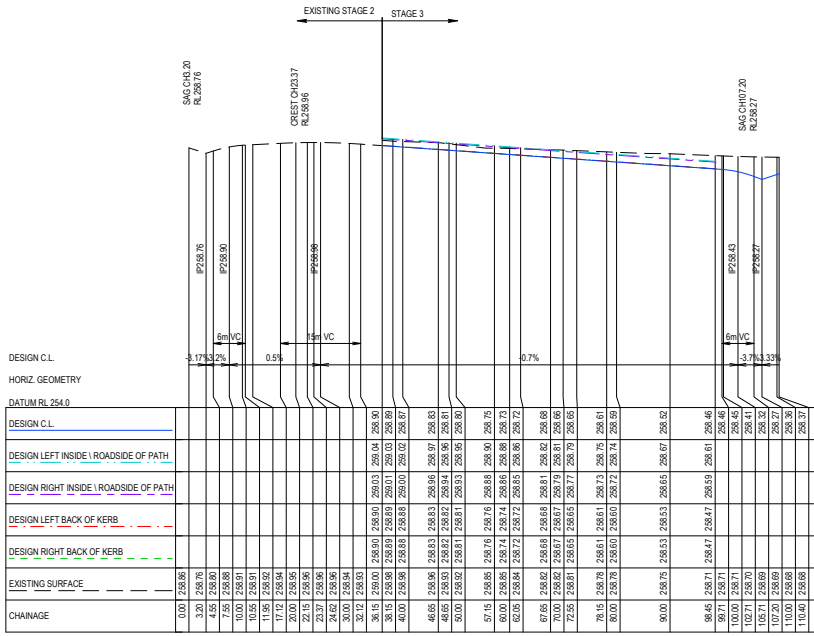
FS20488

OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
MURNONG PL (RS12) LONG SECTION

MITCHELL SHIRE COUNCIL #REF
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: _____ PROJECT & DWG No: _____ REV: _____
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3.00	258.76					
4.35	258.80					
7.35	258.88					
10.00	258.91					
11.95	258.92					
17.12	258.94					
20.00	258.95					
22.37	258.96					
30.00	258.94					
32.12	258.93					
36.15	259.00	258.90	259.03	259.04	259.90	
38.15	258.98	258.89	258.89	259.01	259.03	258.89
40.00	258.98	258.88	258.88	259.00	259.02	258.87
46.05	258.96	258.83	258.95	258.97	258.83	258.96
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57.15	258.85	258.76	258.88	258.90	258.75	258.85
60.00	258.85	258.74	258.86	258.88	258.73	258.85
62.05	258.94	258.72	258.72	258.85	258.85	258.72
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71.05	258.81	258.65	258.65	258.77	258.70	258.65
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80.00	258.78	258.60	258.60	258.72	258.74	258.59
90.00	258.75	258.53	258.53	258.65	258.67	258.52
98.45	258.71	258.47	258.47	258.59	258.61	258.46
99.71	258.71					258.46
100.00	258.71					258.46
102.00	258.70					258.45
105.71	258.69					258.32
107.20	258.69					258.27
110.00	258.68					258.35
110.40	258.68					258.37

MITCHELL SHIRE COUNCIL
 TRANSPORT & DEVELOPMENT
 APPROVED PLAN
 C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TM & PSM LOCATIONS
 B AMENDMENTS AS REQUESTED BY COUNCIL
 A AS SUBMITTED TO COUNCIL

JM	AR	28/09/20
AR	JM	NB 28/06/20
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DES DWG CHK DATE

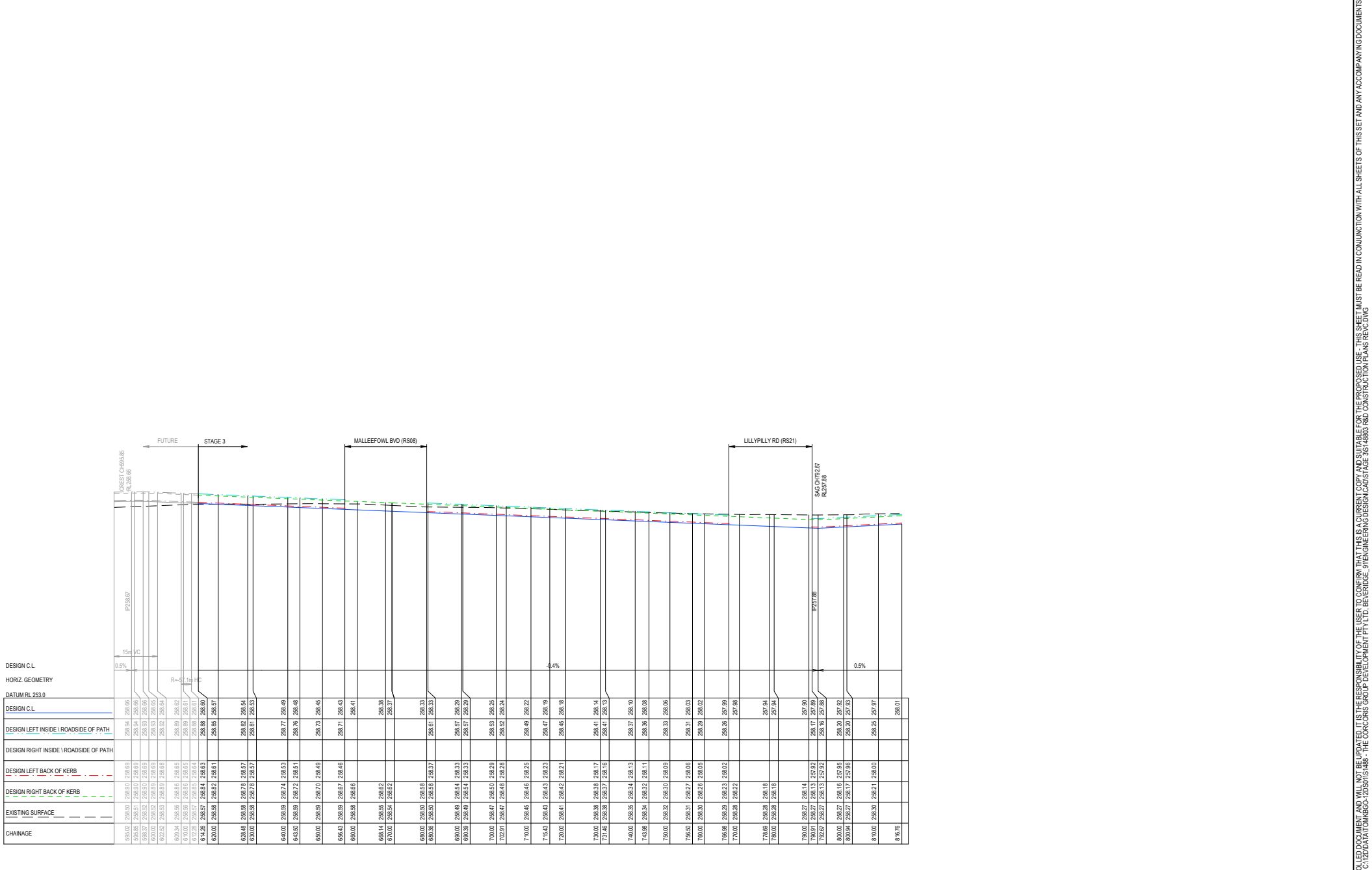
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**OORANYA ESTATE - STAGE 3
 WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 CUMBUNGI RD (RS14) LONG SECTION**
 MITCHELL SHIRE COUNCIL #REF
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD
 DWG STATUS: PROJECT & DWG No: REV:
FOR CONSTRUCTION S148803R14 / 34 C

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C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
 B AMENDMENTS AS REQUESTED BY COUNCIL
 A AS SUBMITTED TO COUNCIL

MITCHELL SHIRE COUNCIL
 TRANSPORT & DEVELOPMENT
APPROVED PLAN
Approved by Mitchell Shire Council

JM AR 29/09/20
 AR JM NB 29/06/20
 AR JM NB 26/06/20

DES DWG CHK DATE

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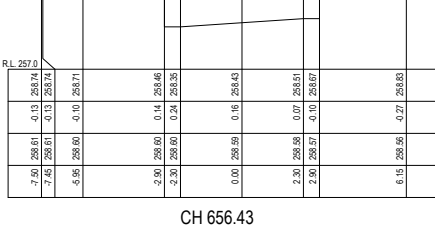
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OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
LEADBEATER CCT (RS16) LONG SECTION
 MITCHELL SHIRE COUNCIL #R#F
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD
 DWG STATUS: PROJECT & DWG No: REV:
FOR CONSTRUCTION S148803R16 / 34 C

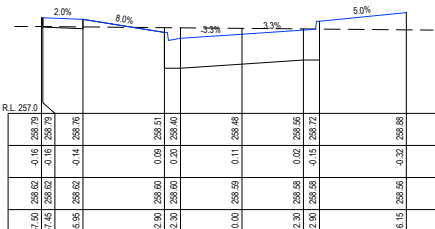
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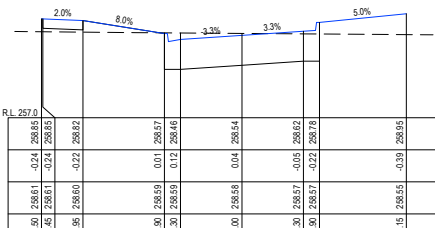
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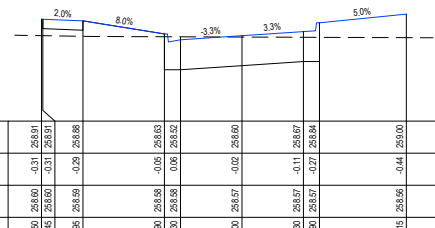
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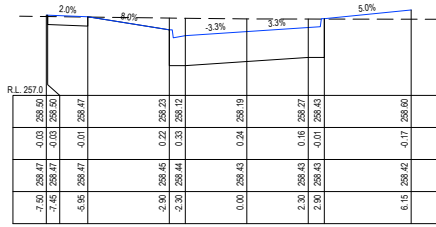
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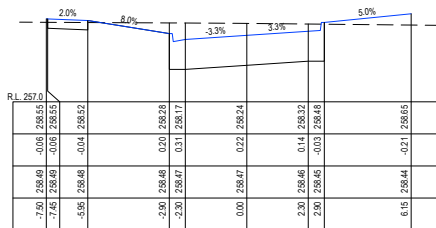
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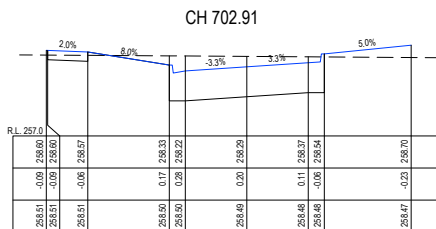
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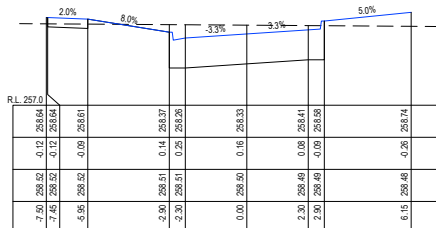
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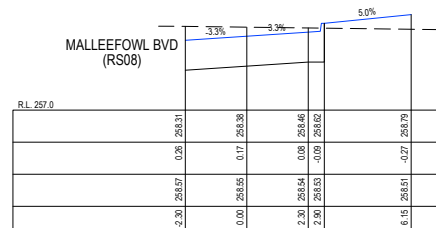
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CH 690.39



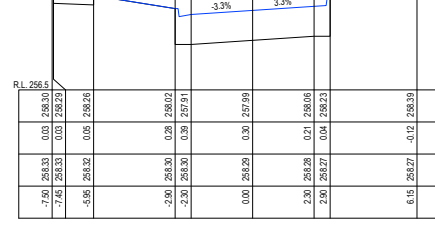
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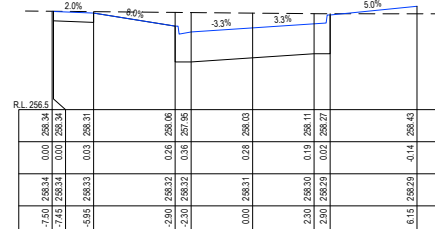
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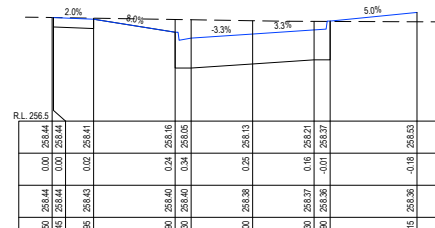
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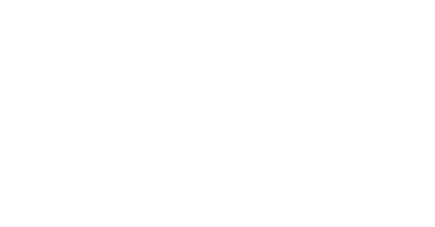
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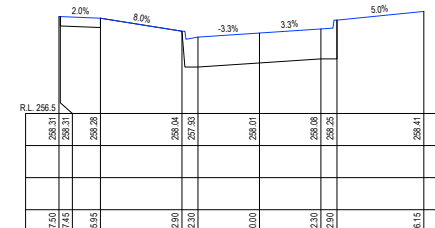
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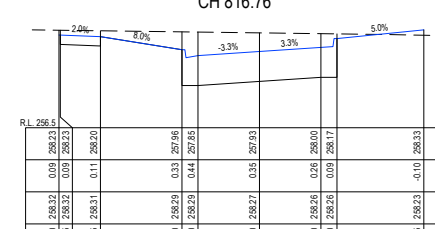
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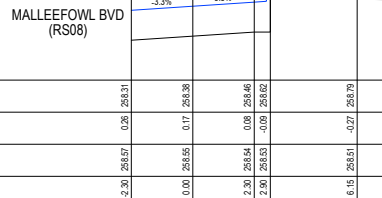
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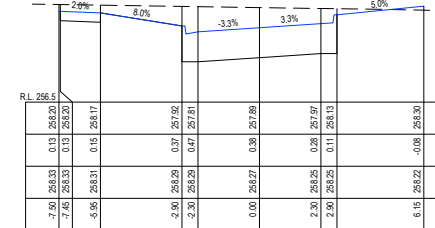
CH 790.91



CH 778.69



MALLEEFOWL BVD (RS08)



LILLYPILLY RD (RS21)

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-7.45 258.00	-0.31 258.91	-7.45 258.00	-7.45 258.00
-5.95 258.99	-0.29 258.86	-5.95 258.99	-5.95 258.99
-2.90 258.99	-0.05 258.63	-2.90 258.99	-2.90 258.99
-2.30 258.99	0.00 258.52	-2.30 258.99	-2.30 258.99
0.00 258.97	-0.02 258.63	0.00 258.97	0.00 258.97
2.30 258.97	-0.11 258.67	2.30 258.97	2.30 258.97
2.90 258.97	-0.27 258.66	2.90 258.97	2.90 258.97
6.15 258.96	-0.44 259.00	6.15 258.96	6.15 258.96

CH 614.26



C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TM & PSM LOCATIONS
 B AMENDMENTS AS REQUESTED BY COUNCIL
 A AS SUBMITTED TO COUNCIL
 REVISION
 DES DWG CHK DATE



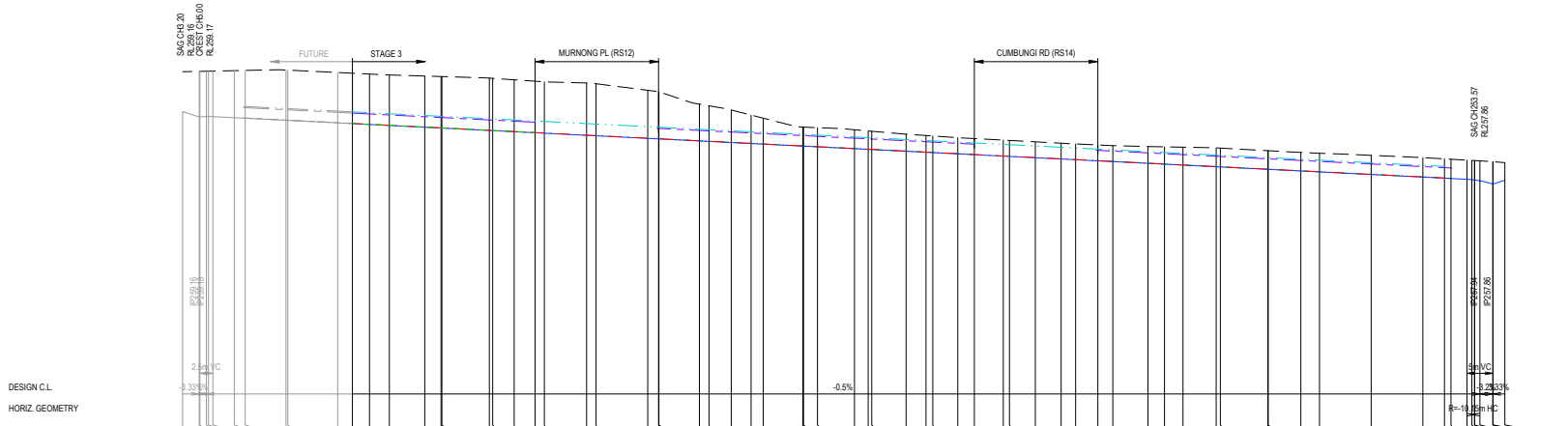
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OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
LEADBEATER CCT (RS16) CROSS SECTIONS
 MITCHELL SHIRE COUNCIL #RF
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD
 DWG STATUS:
FOR CONSTRUCTION S148803R17 / 34 C

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CHAINAGE	DESIGN C.L.	DESIGN LEFT INSIDE / ROADSIDE OF PATH	DESIGN RIGHT INSIDE / ROADSIDE OF PATH	DESIGN LEFT BACK OF KERB	DESIGN RIGHT BACK OF KERB	EXISTING SURFACE
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3.20	250.05					
3.34	250.05					
4.95	250.05					
5.00	250.05					
10.00	250.05					
12.10	250.07					
20.00	250.07					
20.35	250.07					
30.00	250.03					
32.85	250.01					
36.16	250.00					
40.00	250.00					
46.85	250.06					
50.00	250.05					
50.16	250.05					
59.35	250.02					
60.00	250.01					
64.15	250.08					
68.20	250.06					
70.00	250.04					
78.17	250.02					
80.00	250.01					
90.00	250.08					
92.10	250.05					
92.17	250.05					
100.00	250.01					
100.85	250.38					
106.17	250.30					
110.00	250.20					
122.85	250.06					
123.35	250.14					
133.35	250.08					
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165.00	250.68					
170.00	250.66					
172.81	250.64					
177.10	250.62					
180.00	250.61					
186.81	250.59					
190.00	250.58					
193.38	250.58					
200.00	250.57					
202.81	250.56					
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240.00	250.38					
244.16	250.35					
246.44	250.35					
249.45	250.33					
250.00	250.32					
250.01	250.32					
253.54	250.30					
253.57	250.30					
256.87	250.28					

MITCHELL SHIRE COUNCIL
 TRANSPORT & DEVELOPMENT
 APPROVED PLAN

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TM & PSM LOCATIONS
 B AMENDMENTS AS REQUESTED BY COUNCIL
 A AS SUBMITTED TO COUNCIL

DESIGN CHECK DATE

Tomkinson Group

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OORANYA ESTATE

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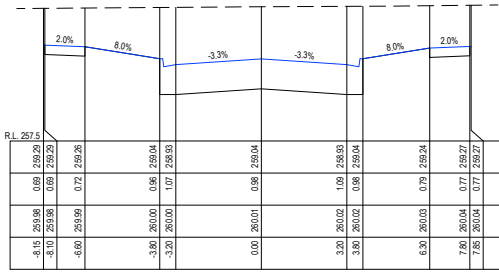
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FS20488

**OORANYA ESTATE - STAGE 3
 WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 LILLYPILLY RD (RS21) LONG SECTION**

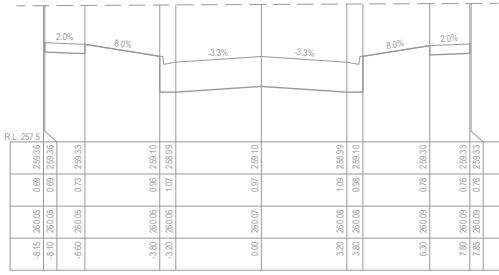
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 THE CORCORIS GROUP DEVELOPMENTS PTY LTD
 DWG STATUS: PROJECT & DWG No: REV: DATE: 15/10/2020 FILE C:\12\DATA\TM\MSG01\2020\1488 - THE CONCORIS GROUP DEVELOPMENT PTY LTD. CONSTRUCTION PLANS REV/CDD

FOR CONSTRUCTION S148803R18 / 34 C

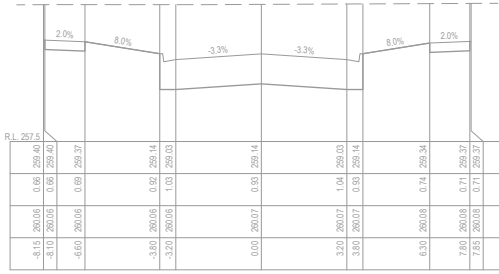


STAGE 3 CH 32.85

FUTURE



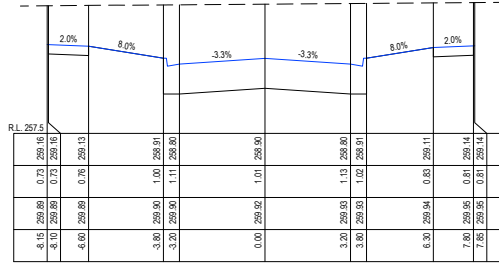
CH 20.35



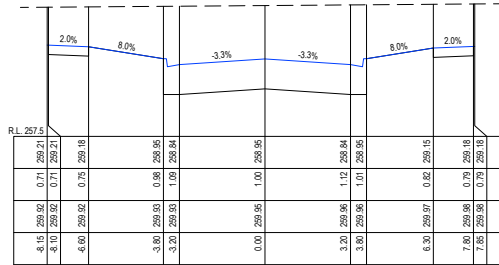
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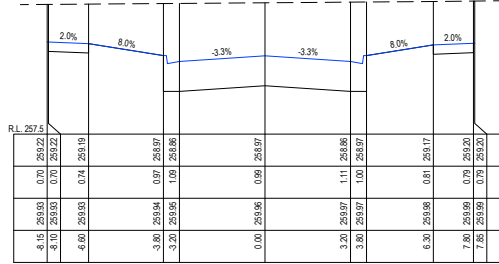
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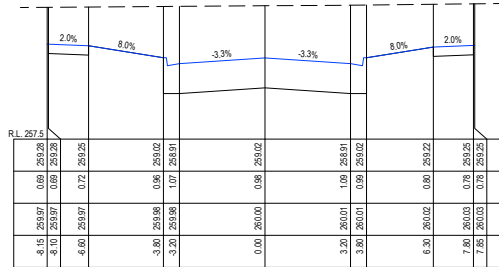
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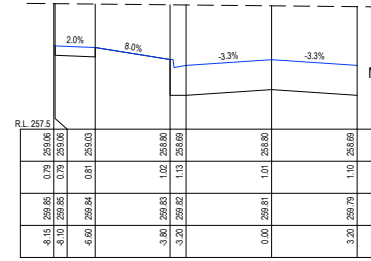
CH 50.16



CH 46.85

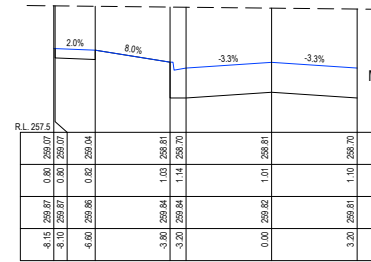


CH 36.16



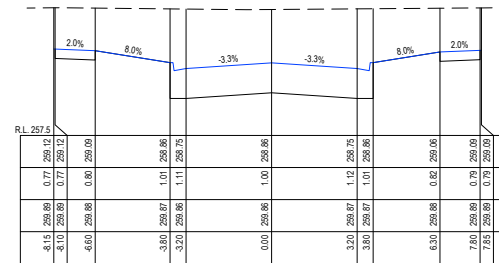
CH 80

MURNONG PL (RS12)

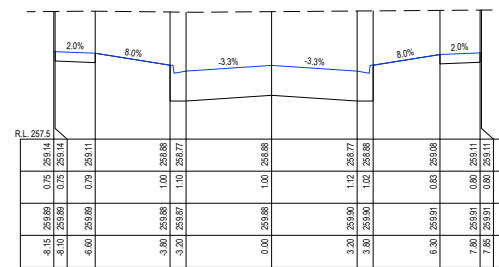


CH 78.17

MURNONG PL (RS12)



CH 68.2



CH 64.15

- C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
- A AS SUBMITTED TO COUNCIL



JM AR 29/09/20
AR JM NB 29/06/20
AR JM NB 26/06/20

REV DESIWN CHK DATE

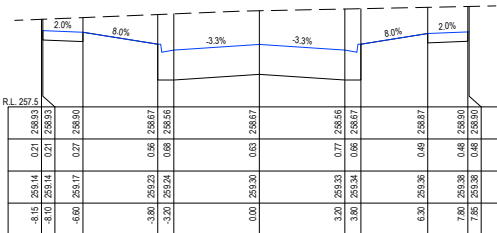
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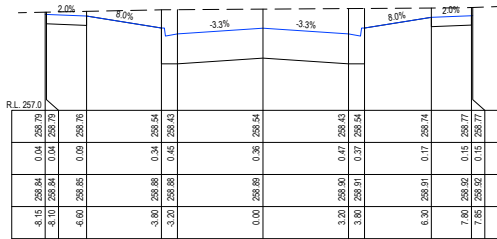
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OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 LILYPILLY RD (RS21) CROSS SECTIONS (1/4)
 MITCHELL SHIRE COUNCIL #RFP
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD
 DWG STATUS: PROJECT & DWG No: REV:
FOR CONSTRUCTION S148803R19 / 34 C

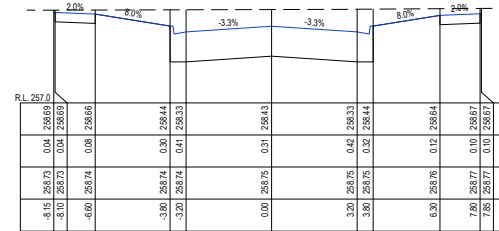
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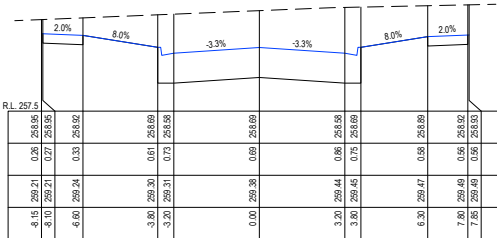
CH 106.17



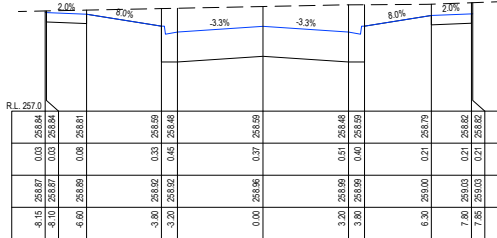
CH 132.66



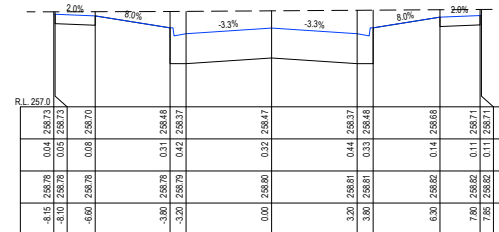
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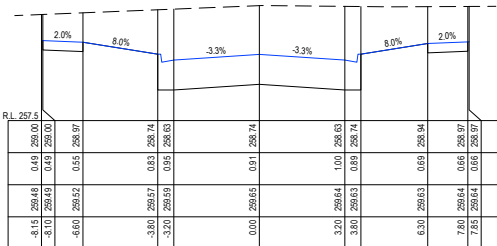
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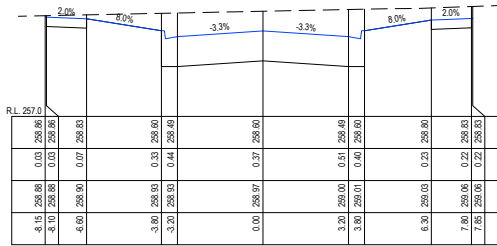
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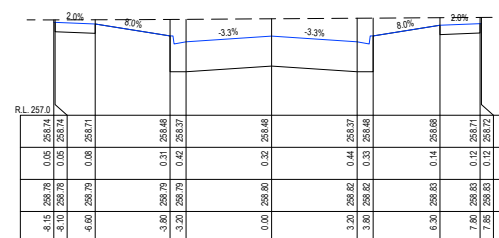
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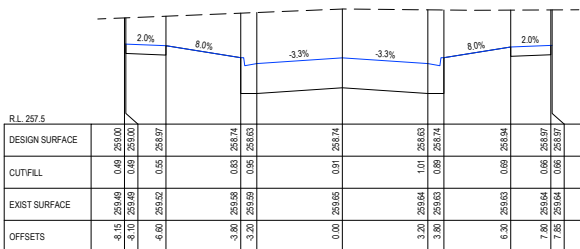
CH 92.17



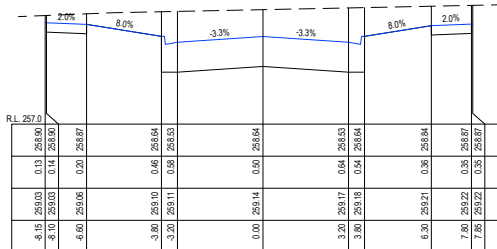
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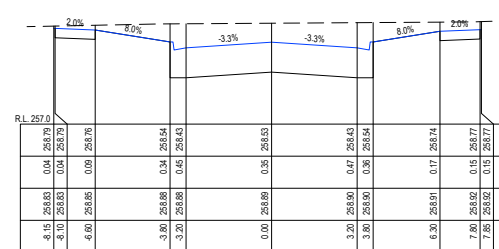
CH 143.85



CH 92.1



CH 112.35



CH 133.35

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
 B AMENDMENTS AS REQUESTED BY COUNCIL
 A AS SUBMITTED TO COUNCIL



APPROVED
 TRANSPORT & DEVELOPMENT
 APPROVED PLAN
 JM AR 29/09/20
 AR JM NB 29/06/20
 AR JM NB 26/06/20

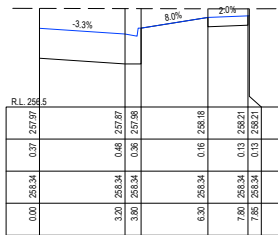
REVISION DES DWG CHK DATE

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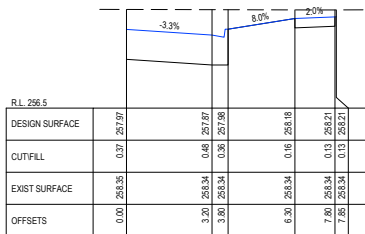
SCALE H 1:200 V 1:100
 LENGTHS ARE IN METRES - PAPER SIZE A3
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OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 LILYPILLY RD (RS21) CROSS SECTIONS (2/4)
 MITCHELL SHIRE COUNCIL #RFP
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD
 DWG STATUS: PROJECT & DWG No: REV:
FOR CONSTRUCTION S148803R20 / 34 C

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CH 245.58



CH 245.44



C	UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS	JM	AR	29/09/20	
B	AMENDMENTS AS REQUESTED BY COUNCIL	AR	JM	NB	29/06/20
A	AS SUBMITTED TO COUNCIL	AR	JM	NB	26/06/20
REV	REVISION	DES	DWG	CHK	DATE



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OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 LILLYPILLY RD (RS21) CROSS SECTIONS (4/4)

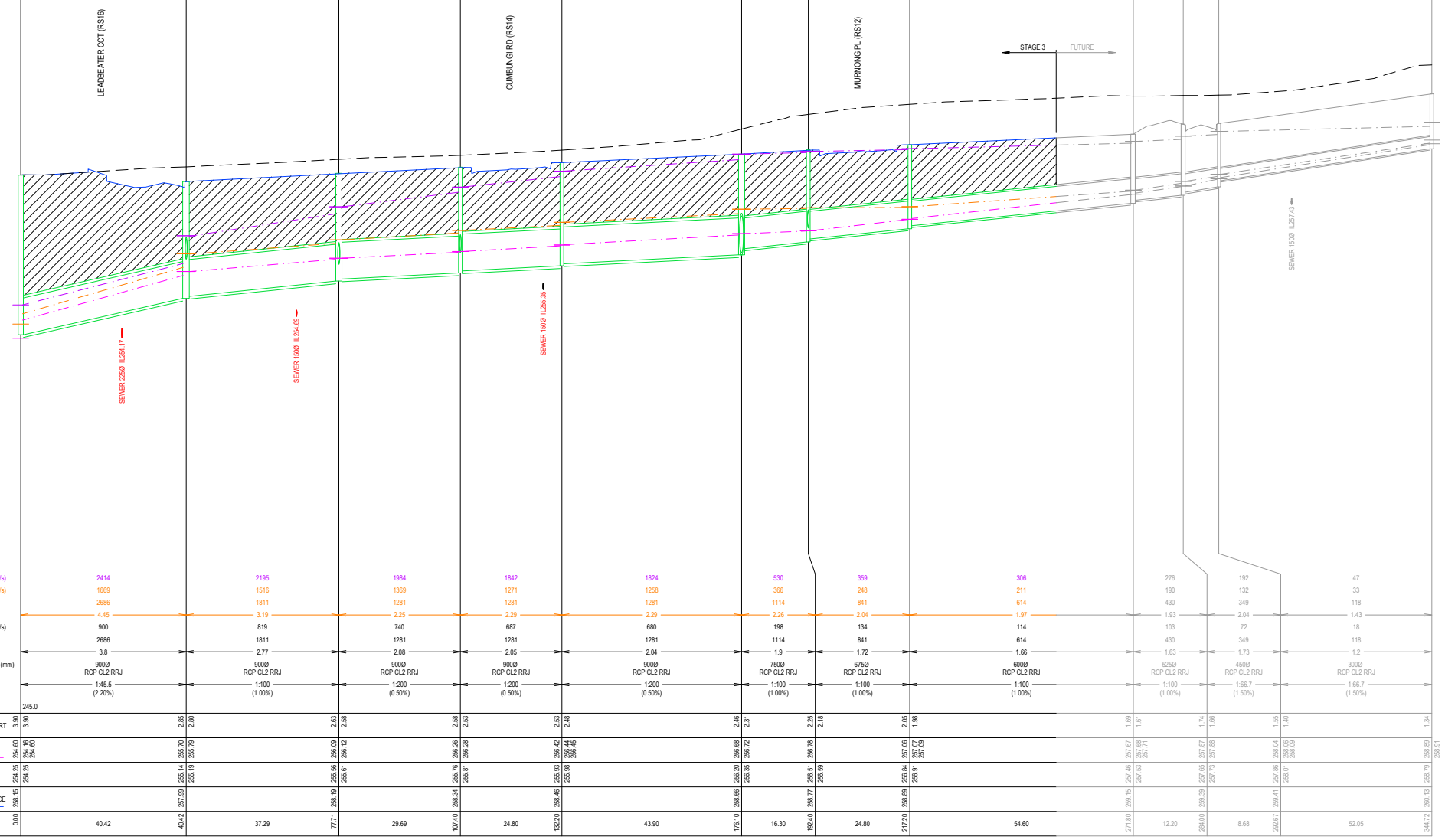
MITCHELL SHIRE COUNCIL #REF
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01D 90A 90B 90C 90D 90E 90F 90G 90H 90I 90J 90K

NOTE:

 DENOTES FULL DEPTH 20mm CLASS 3 BACKFILL



CHG	DESIGN FLOW (l/s)	CAPACITY (l/s)	VELOCITY (m/s)	DESIGN FLOW (l/s)	CAPACITY (l/s)	VELOCITY (m/s)	PIPE DIAMETER (mm)	PIPE GRADE	DATUM RL	DEPTH TO INVERT	H.G.L.	INVERT LEVEL	DESIGN SURFACE	CHANGAGE
0.00	2414	2686	4.45	900	2686	3.6	RCP CL2 RRI	1:45.5 (2.20%)	246.0	3.00	254.00	254.00	238.15	40.42
40.42	2195	1811	3.19	819	1811	2.77	RCP CL2 RRI	1:100 (1.00%)	246.0	2.86	255.14	255.14	251.19	40.42
37.29	1984	1281	2.25	740	1281	2.08	RCP CL2 RRI	1:200 (0.50%)	246.0	2.63	256.09	256.09	253.19	37.29
77.71	1842	1281	2.29	687	1281	2.05	RCP CL2 RRI	1:200 (0.50%)	246.0	2.53	256.28	256.28	253.46	77.71
29.69	1824	1281	2.29	680	1281	2.04	RCP CL2 RRI	1:200 (0.50%)	246.0	2.48	256.42	256.42	253.46	29.69
107.40	1824	1281	2.29	680	1281	2.04	RCP CL2 RRI	1:200 (0.50%)	246.0	2.31	256.72	256.72	253.46	107.40
24.80	530	1114	2.26	198	1114	1.5	RCP CL2 RRI	1:100 (1.00%)	246.0	2.46	256.88	256.88	253.46	24.80
132.20	359	841	2.04	134	841	1.72	RCP CL2 RRI	1:100 (1.00%)	246.0	2.25	256.78	256.78	253.46	132.20
43.90	306	614	1.97	114	614	1.65	RCP CL2 RRI	1:100 (1.00%)	246.0	2.18	256.59	256.59	253.46	43.90
176.10	276	430	1.93	103	430	1.63	RCP CL2 RRI	1:100 (1.00%)	246.0	2.06	256.85	256.85	253.46	176.10
16.30	192	349	2.04	72	349	1.73	RCP CL2 RRI	1:100 (1.00%)	246.0	2.46	257.01	257.01	253.46	16.30
182.40	47	118	1.43	15	118	1.2	RCP CL2 RRI	1:100 (1.00%)	246.0	2.31	256.91	256.91	253.46	182.40
24.80	276	430	1.93	103	430	1.63	RCP CL2 RRI	1:100 (1.00%)	246.0	2.06	256.85	256.85	253.46	24.80
217.20	192	349	2.04	72	349	1.73	RCP CL2 RRI	1:100 (1.00%)	246.0	2.18	256.59	256.59	253.46	217.20
54.60	47	118	1.43	15	118	1.2	RCP CL2 RRI	1:100 (1.00%)	246.0	2.06	256.85	256.85	253.46	54.60
271.80	276	430	1.93	103	430	1.63	RCP CL2 RRI	1:100 (1.00%)	246.0	2.06	256.85	256.85	253.46	271.80
294.00	192	349	2.04	72	349	1.73	RCP CL2 RRI	1:100 (1.00%)	246.0	2.18	256.59	256.59	253.46	294.00
341.72	47	118	1.43	15	118	1.2	RCP CL2 RRI	1:100 (1.00%)	246.0	2.06	256.85	256.85	253.46	341.72

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
 B AMENDMENTS AS REQUESTED BY COUNCIL
 A AS SUBMITTED TO COUNCIL

MITCHELL SHIRE COUNCIL
 TRANSPORT & DEVELOPMENT
 APPROVED PLAN

JM AR 28/09/20
 AR JM NB 29/06/20
 AR JM NB 28/06/20

DES DWG CHK DATE

Tomkinson Group

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OORANYA ESTATE

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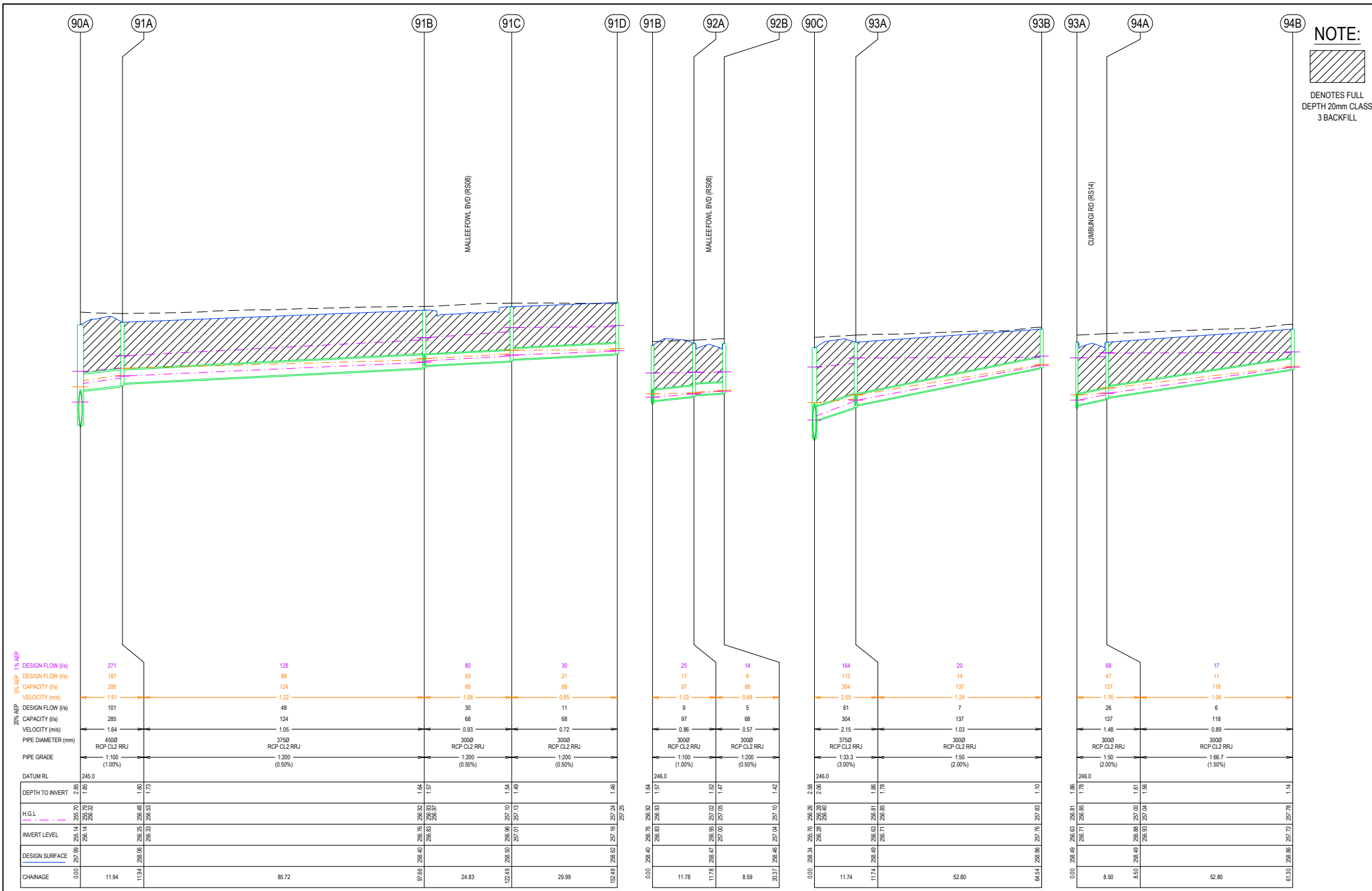
FS20488

**OORANYA ESTATE - STAGE 3
 WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 DRAINAGE LONG SECTIONS (1/4)**

MITCHELL SHIRE COUNCIL #RF
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD

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MITCHELL SHIRE COUNCIL
 TRANSPORT & DEVELOPMENT
 APPROVED PLAN

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
 B AMENDMENTS AS REQUESTED BY COUNCIL
 A AS SUBMITTED TO COUNCIL

REVISION

DES DWG CHK DATE

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
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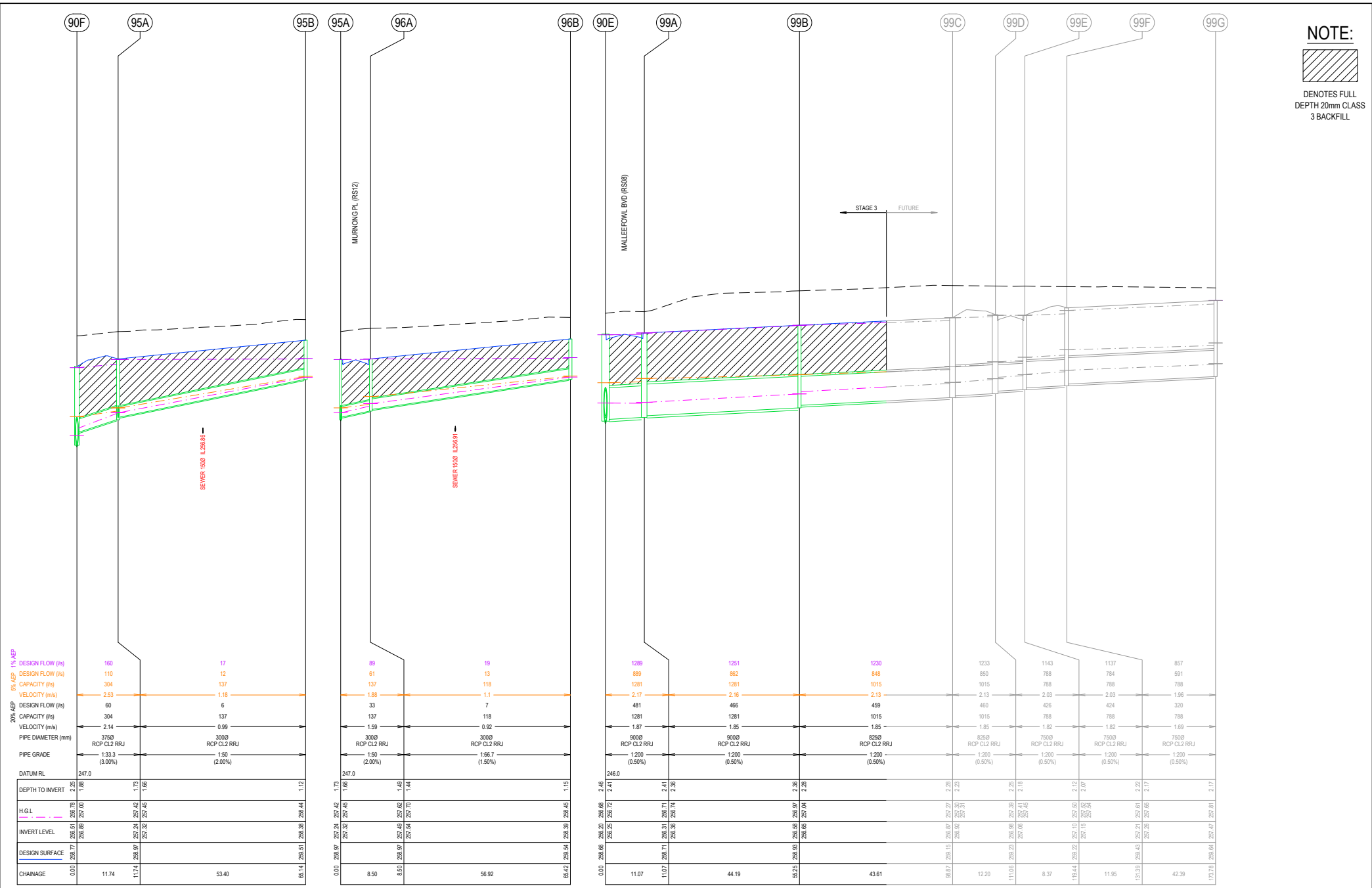
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WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 DRAINAGE LONG SECTIONS (2/4)

MITCHELL SHIRE COUNCIL #REF
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD

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NOTE:

 DENOTES FULL DEPTH 20mm CLASS 3 BACKFILL



MITCHELL SHIRE COUNCIL
 TRANSPORT & DEVELOPMENT
APPROVED PLAN

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
 B AMENDMENTS AS REQUESTED BY COUNCIL
 A AS SUBMITTED TO COUNCIL

REVISION

REV	DES	CHK	DATE
	JM	AR	28/09/20
	AR	JM	29/06/20
	AR	NB	28/06/20

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 V 1 0 20 40 60 V
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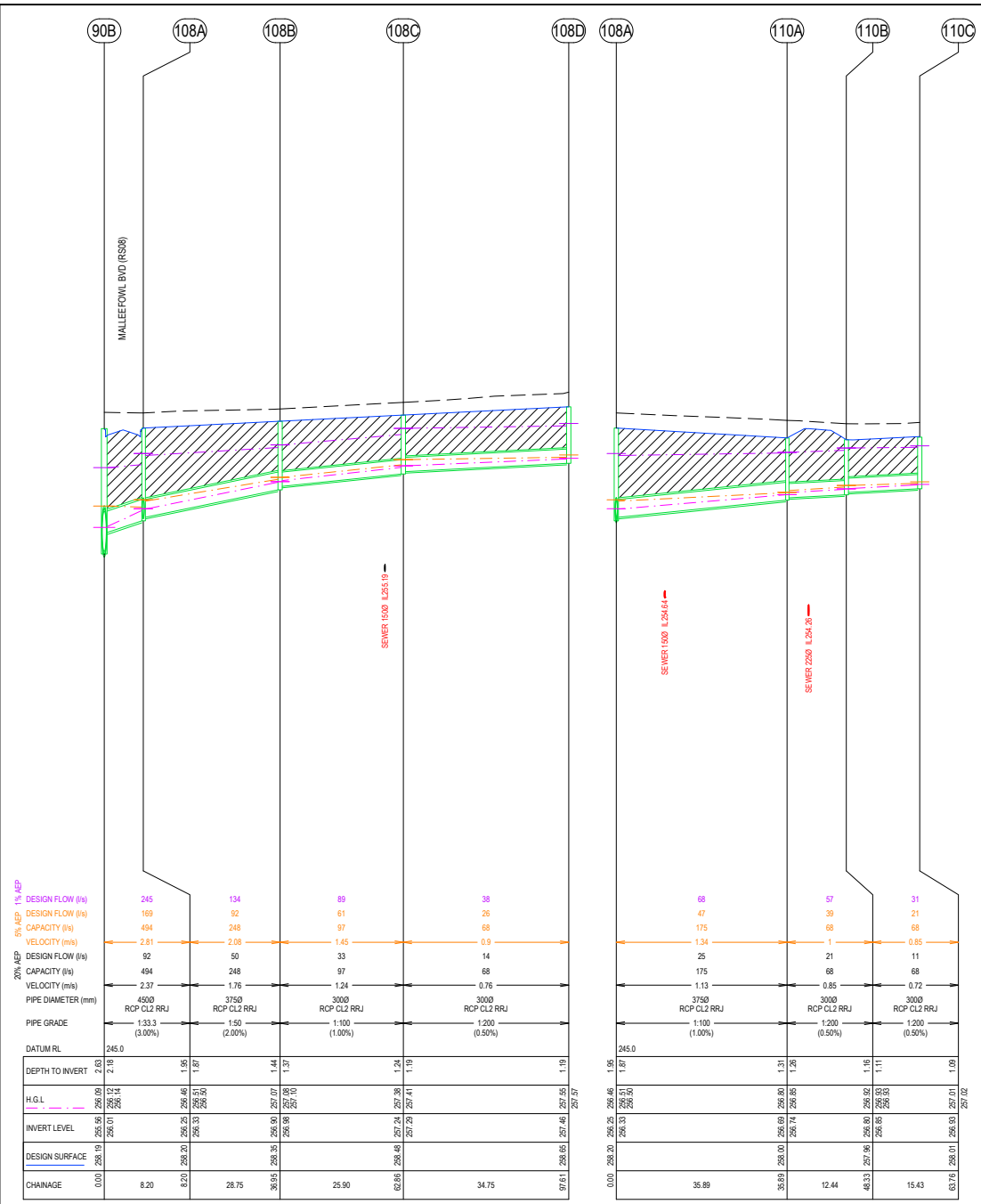
**OORANYA ESTATE - STAGE 3
 WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 DRAINAGE LONG SECTIONS (3/4)**

MITCHELL SHIRE COUNCIL #R/F
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD

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FOR CONSTRUCTION S148803R25 / 34 C

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NOTE:

 DENOTES FULL DEPTH 20mm CLASS 3 BACKFILL



ROW	108B	108C	108D	108A	110A	110B	110C
DESIGN FLOW (l/s)	245	134	89	38	68	57	31
DESIGN FLOW (l/s)	169	92	61	26	47	39	21
CAPACITY (l/s)	494	248	97	68	175	68	68
VELOCITY (m/s)	2.81	2.08	1.45	0.9	1.34	1	0.85
DESIGN FLOW (l/s)	92	50	33	14	25	21	11
CAPACITY (l/s)	494	248	97	68	175	68	68
VELOCITY (m/s)	2.37	1.76	1.24	0.76	1.13	0.85	0.72
PIPE DIAMETER (mm)	4500	3750	3000	3000	3000	3000	3000
PIPE GRADE	1:33.3 (3.00%)	1:50 (2.00%)	1:100 (1.00%)	1:200 (0.50%)	1:100 (1.00%)	1:200 (0.50%)	1:200 (0.50%)
DATUM RL	245.0						
DEPTH TO INVERT	2.03	2.18	1.95	1.87	1.95	1.87	1.09
H.G.L.	256.09	256.12	256.14	256.14	256.31	256.31	256.31
INVERT LEVEL	256.01	256.01	256.31	256.30	256.33	256.33	256.33
DESIGN SURFACE	256.19	256.20	256.33	256.33	256.33	256.33	256.33
CHAINAGE	0.00	8.20	8.20	28.75	36.85	35.89	12.44

MITCHELL SHIRE COUNCIL
 TRANSPORT & DEVELOPMENT
 APPROVED PLAN

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
 B AMENDMENTS AS REQUESTED BY COUNCIL
 A AS SUBMITTED TO COUNCIL

DES DWG CHK DATE

Tomkinson Group

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OORANYA ESTATE

SCALE H 1:1,000 V 1:100
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**OORANYA ESTATE - STAGE 3
 WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 DRAINAGE LONG SECTIONS (4/4)**

MITCHELL SHIRE COUNCIL #REF
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: PROJECT & DWG No: REV: 15/10/2020 FILE: C:\12\DATA\TOM\BEGO-1205\151488 - THE CORCORIS GROUP DEVELOPMENT PTY LTD, BEVERIDGE - 9\ENGINEERING\DESIGN\CAD\STAGE 3\48803.RD.CONSTRUCTION PLANS REV.CDWG

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PIT SCHEDULE												
PIT NAME	TYPE	EASTING	NORTHING	INTERNAL WID	INTERNAL LEN	INLET INV	LEV	OUTLET INV	PIT INV	DEPTH	REMARKS	
01D	SEP	319745.83	5849671.59	5200	3000	900	254.25		258.15	3.90	MV PIT	
90A	GSEP	319720.54	5849703.11	1200	1500	900	255.19	900	255.14	257.99	2.86	2400 EKI SAG
							450	256.14				
90B	GSEP	319724.51	5849740.19	1500	1200	900	255.61	900	255.56	258.19	2.63	
							450	256.01				EDCM601+607
90C	GSEP	319727.70	5849769.71	1200	900	900	255.81	900	255.76	258.34	2.58	EDCM601+607
							375	256.28				
90D	GSEP	319730.37	5849794.37	1200	900	900	255.98	900	255.93	258.46	2.53	EDCM601+607
90E	JP	319735.24	5849838.00	1500	1500	750	256.35	900	256.20	258.66	2.46	EDCM601+607
							900	256.25				
90F	GSEP	319736.84	5849854.22	1200	900	675	256.59	750	256.51	258.77	2.25	EDCM601+607
							375	256.89				
90G	GSEP	319739.36	5849878.89	900	900	600	256.91	675	256.84	258.89	2.05	EDCM601+607
90H	GJP	319745.43	5849933.15	900	900	525	257.53	600	257.46	259.15	1.69	2400 EKI SAG
91A	GSEP	319711.55	5849695.26	600	900	375	256.33	450	256.25	258.06	1.80	EDCM601
91B	GSEP	319625.96	5849699.99	600	900	300	256.83	375	256.76	258.40	1.64	EDCM601
							300	256.83				
91C	GSEP	319601.16	5849701.36	600	900	300	257.01	300	256.96	258.50	1.54	EDCM601
91D	GSEP	319571.22	5849703.02	600	900	300	257.16	300	257.16	258.62	1.46	EDCM601
92A	GSEP	319618.33	5849708.97	600	900	300	257.00	300	256.95	258.47	1.52	EDCM601
92B	GSEP	319609.75	5849708.65	600	900	300	257.04	300	257.04	258.46	1.42	EDCM601
93A	GSEP	319720.18	5849778.72	600	900	300	256.71	375	256.63	258.49	1.86	EDCM601
							300	256.71				
93B	JP	319667.68	5849784.40	600	900	300	257.77	300	257.77	258.86	1.10	EDCM605
94A	GSEP	319721.09	5849787.17	600	900	300	256.93	300	256.88	258.49	1.62	EDCM601
94B	JP	319668.60	5849792.85	600	900	300	257.72	300	257.72	258.86	1.14	EDCM605
95A	GSEP	319729.32	5849863.23	600	900	300	257.32	375	257.24	258.97	1.73	EDCM601
							300	257.32				
95B	JP	319676.23	5849868.97	600	900	300	257.54	300	258.38	259.51	1.12	EDCM605
96A	GSEP	319730.23	5849871.68	600	900	300	257.54	300	257.49	258.97	1.49	EDCM601
96B	JP	319673.64	5849877.80	600	900	300	258.39	300	258.39	259.54	1.15	EDCM605
99A	GSEP	319743.79	5849845.02	1200	1500	900	256.36	900	256.31	258.71	2.41	EDCM601+607
99B	GSEP	319748.54	5849888.95	1200	900	825	256.65	900	256.58	258.93	2.36	EDCM601+607
99C	GSEP	319753.19	5849932.31	1200	1500	825	256.92	825	256.87	259.15	2.28	2400 EKI SAG
108A	GSEP	319732.64	5849739.15	600	900	375	256.33	450	256.25	258.20	1.95	EDCM601
							375	256.33				
108B	GSEP	319735.73	5849767.73	600	900	300	256.98	375	256.90	258.35	1.44	EDCM601
108C	GSEP	319738.52	5849793.48	600	900	300	257.29	300	257.24	258.48	1.24	EDCM601
108D	JP	319742.26	5849828.04	600	900	300	257.46	300	257.46	258.65	1.19	EDCM605
110A	GSEP	319728.44	5849703.51	600	900	300	256.74	375	256.69	258.00	1.31	2400 EKI SAG

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS

B AMENDMENTS AS REQUESTED BY COUNCIL

A AS SUBMITTED TO COUNCIL

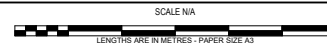


JM AR 28/09/20
AR JM NB 28/06/20
AR JM NB 28/06/20

REV _____ REVISION _____ DES DWG CHK DATE _____



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**OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
PIT SCHEDULE**

MITCHELL SHIRE COUNCIL #R#F
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: _____ PROJECT & DWG No: _____ REV: _____
FOR CONSTRUCTION S148803R27 / 34 C

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LEGEND

- PIT No
- CATCHMENT
- OVERLAND FLOWPATH

MITCHELL SHIRE COUNCIL
 TRANSPORT & DEVELOPMENT
APPROVED PLAN

C. UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS
 B. AMENDMENTS AS REQUESTED BY COUNCIL
 A. AS SUBMITTED TO COUNCIL

REV	REVISION	DES	DWG	CHK	DATE
		JM	AR	NB	29/09/20
		AR	JM	NB	29/06/20
		AR	JM	NB	26/06/20

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OORANYA ESTATE

12.5 0 12.5 25 37.5 50 62.5
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OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
 ROADS & DRAINAGE CONSTRUCTION PLANS
 DRAINAGE CATCHMENTS & 1% AEP FLOWPATHS

MITCHELL SHIRE COUNCIL, BREF
 THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: PROJECT & DWG No: REV:
FOR CONSTRUCTION S148803R28 / 34 C

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12D MODEL - HYDRAULIC DESIGN SHEET

Project: Design Drainage JM
Drainage Model: st3 minor 12d DRN
Rainfall File: Beveridge Intensities_12dhydra
Rainfall Method: IFD Table
Pipe Cover Limit: 0.75m
Manning n Roughness: 0.013
Freeboard Limit: 0.15m

Minor 20% AEP Storm Event

Table with columns: Pipe ID, Pipe Type, Pipe Length, Pipe Size, Full Pipe Area, Pipe Grade, Full-area Tct, Full-area I, Full-area Sum CA, Part-area Tct, Part-area I, Part-area Sum CA, Part-area Qc-CIA, Pipe Flow Q, Capacity Flow Qcap, Q/Ccap Ratio, Full Pipe Vel Vf=Q/Af, Norm Depth Vel Vn=Q/An, Crf Depth Vel Vc=Q/Ac, Capacity Vel Vcap=Qcap/Af, US Node Grate RL, Pipe US IL, DS Node Grate RL, Cover Min, Pipe DS Bend, Pipe DS Drop, US Node Ku, US Node Kw, Pipe V/head, P'head Loss (Ku.V/head), WSE Loss (Kw.V/head), Pipe T'head loss, US Node HGL, Pipe US HGL, DS Node HGL, HGL Grade, HGL US, F'head US.



C. UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TM & PSM LOCATIONS
B. AMENDMENTS AS REQUESTED BY COUNCIL
A. AS SUBMITTED TO COUNCIL

JM AR 28/02/20
AR JM NB 28/02/20
AR JM NB 28/02/20

DES DWG CHK DATE



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PROJECT & DWG NO.
REVISIONS



OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
20% AEP DRAINAGE HYDRAULIC DATA
MITCHELL SHIRE COUNCIL REF:
THE CORCORIS GROUP DEVELOPMENTS PTY LTD
DWG STATUS: PROJECT & DWG NO:
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12D MODEL - HYDRAULIC DESIGN SHEET

Project: Design Drainage JM
Drainage Model: stj35AEP12d DRN
Rainfall File: Beveridge Intensities_12dhydra
Rainfall Method: IFD Table
Pipe Cover Limit: 0.75m
Manning n Roughness: 0.013
Freeboard Limit: 0.15m

5% AEP Storm Event

Table with columns: Pipe ID, Pipe Type, Pipe Length, Pipe Size, Full Pipe Area, Pipe Grade, Full-area Tct, Full-area I, Full-area Sum CA, Full-area Qc-CIA, Part-area Tct, Part-area I, Part-area Sum CA, Part-area Qc-CIA, Pipe Flow Q, Capacity Flow Qcap, Q/Cap Ratio, Full Pipe Vel V/Q/Af, Norm Depth Vel Vn=Q/An, Crf Depth Vel Vc=Q/Ac, Capacity Vel Vcap=Qcap/Af, US Node Grate RL, Pipe US IL, Pipe DS IL, DS Node Grate RL, Cover Min, Pipe DS Bend, Pipe DS Drop, US Node Ku, US Node Kw, Pipe V/head, P'head Loss (Ku.V/head), WSE Loss (Kw.V/head), Pipe T/head loss, US Node HGL, Pipe US HGL, DS Node HGL, HGL Grade, HGL Grade (in), F'board US.

C UPDATED DRAINAGE, PAVEMENT DETAILS, STREET NAMES, TBM & PSM LOCATIONS

B AMENDMENTS AS REQUESTED BY COUNCIL

A AS SUBMITTED TO COUNCIL

REV

REVISION

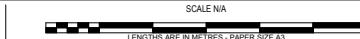
DESW DESW CHK DATE



JM AR 28/09/20
AR JM NB 28/06/20
AR JM NB 28/06/20



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OORANYA ESTATE - STAGE 3
WHITESIDE ST - BEVERIDGE
ROADS & DRAINAGE CONSTRUCTION PLANS
5% AEP DRAINAGE HYDRAULIC DATA
MITCHELL SHIRE COUNCIL, R/RF
THE CORCORIS GROUP DEVELOPMENTS PTY LTD

DWG STATUS: PROJECT & DWG NO:

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12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage JM
Drainage Model: stg3 major 12d DRN
Rainfall File: Beveridge Intensities.12dhydro
Tc Method: Direct
Rainfall Method: IFD Table
Runoff C Method: Direct

Major 1% AEP Storm Event

Table with 18 columns: Node Name, Node Type, Setout Easting, Setout Northing, Setout RL, Catch ID, Time Tc, Intensity I, Runoff C, Area A, Full CA, Full Sum CA, Full Qc=CA, Partial CA, Partial Sum CA, Partial Qc=CA, Approach Flow Qa. Rows include nodes 01D to 96A.

12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: Design Drainage JM
Drainage Model: stg3 major 12d DRN
Rainfall File: Beveridge Intensities.12dhydro
Tc Method: Direct
Rainfall Method: IFD Table
Runoff C Method: Direct

Major 1% AEP Storm Event

Table with 18 columns: Node Name, Node Type, Setout Easting, Setout Northing, Setout RL, Catch ID, Time Tc, Intensity I, Runoff C, Area A, Full CA, Full Sum CA, Full Qc=CA, Partial CA, Partial Sum CA, Partial Qc=CA, Approach Flow Qa. Rows include nodes 96B to 110C.

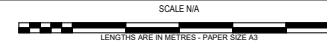
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A AS SUBMITTED TO COUNCIL



JM AR 28/09/20
AR JM NB 28/06/20
AR JM NB 28/06/20
DES DWG CHK DATE



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OORANYA ESTATE - STAGE 3 WHITESIDE ST - BEVERIDGE ROADS & DRAINAGE CONSTRUCTION PLANS 1% AEP DRAINAGE HYDROLOGY DATA

MITCHELL SHIRE COUNCIL, RRF5 THE CORCORIS GROUP DEVELOPMENTS PTY LTD
DWG STATUS: PROJECT & DWG No:
REV:
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