ARCADIS Design & Consultancy for natural and built assets

EYNESBURY TOWNSHIP

STAGE 5C CIVIL WORKS

MELTON CITY COUNCIL

DRAWING SCHEDULE

DRAWING No.	DRAWING DESCRIPTION
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C-5C-246	COBRAM DRIVE LONGITUDINAL SECTION
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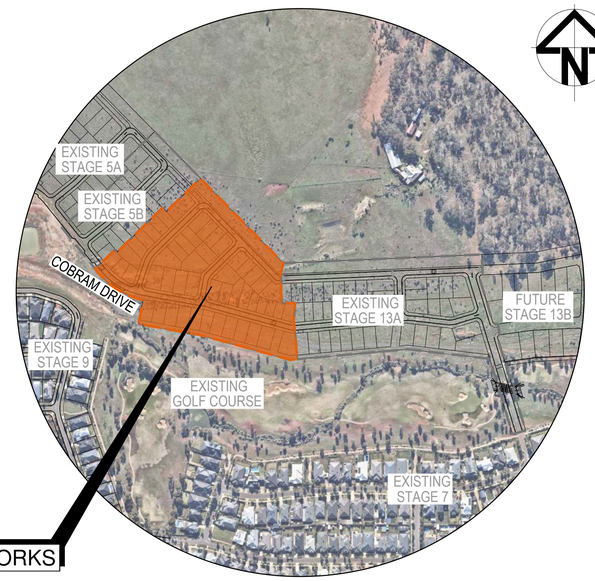
C-5C-700	PASSIVE IRRIGATION LAYOUT
C-5C-701	PASSIVE IRRIGATION DETAILS

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021



LOCALITY PLAN
N.T.S
MELWAY REF 220 12F

LEVEL DATUM	
PSM	31
RL	88.74

REAL PROPERTY DESCRIPTION
LOT S131 ON PS543210K PARISH OF MOORADORANOOK LOCAL AUTHORITY - MELTON CITY COUNCIL

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Issue	Description	By	Ckd	PM	Date
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Scale

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No.	Project No.	Issue
C-5C-001	10029435	01

100mm on Original

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GENERAL NOTES

1. ALL DIMENSIONS ON THE DRAWINGS ARE IN METRES UNLESS SHOWN OTHERWISE.
2. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE GENERAL CONDITIONS OF CONTRACT, AS AMENDED.
3. THE CONTRACTOR SHALL PROVIDE A MINIMUM SEVEN (7) BUSINESS DAYS NOTIFICATION PERIOD TO COUNCIL AND ALL SERVICES PRIOR TO COMMENCEMENT OF WORKS, UNLESS NOTED OTHERWISE.
4. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT AUTHORITY SPECIFICATIONS AND STANDARD DRAWINGS AS APPROVED BY THE RELEVANT AUTHORITY. IN THE CASE OF DISPUTE THE SPECIFICATIONS TAKE PRECEDENCE.
5. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AUTHORITY APPROVED ARCADIS PROJECT DRAWINGS AND CONTRACT SPECIFICATIONS.
6. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO OCCUPATIONAL HEALTH AND SAFETY, HAVE BEEN ADDRESSED. ALL REQUIRED NOTIFICATIONS TO BE SUBMITTED AND COMPLY WITH THE VICTORIAN WORKCOVER AUTHORITY. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH & SAFETY PROCEDURES TO BE LODGED WITH THE SITE ENGINEER PRIOR TO COMMENCEMENT OF WORKS.
7. ALL WORKS SHALL COMPLY WITH THE REQUIREMENTS OF THE MINES ACT 1958, THE MINES (TRENCHES) REGULATIONS 1982, THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, THE OCCUPATIONAL HEALTH AND SAFETY (MINES) REGULATIONS 2002, WORKSAFE AND ANY OTHER LEGISLATION APPLICABLE AT THE TIME OF COMMENCEMENT OF WORKS.
8. THE CONTRACTOR SHALL UNDERTAKE SERVICE PROVING OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS AND ADVISE THE CONSTRUCTION SUPERINTENDENT OF ANY DISCREPANCY WITH THE INFORMATION PROVIDED ON THE CONTRACT DRAWINGS.
9. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS PLANS, SPECIFICATIONS & OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED BY THE SUPERINTENDENT DURING THE COURSE OF THE CONTRACT.
10. NO BLASTING WORKS SHALL BE UNDERTAKEN WITHIN 4.5m OF EXISTING UTILITIES OR 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT PRIOR CONSENT FROM THE SITE ENGINEER/CONSTRUCTION SUPERINTENDENT. THE CONTRACTOR SHALL OBTAIN ALL RELEVANT AUTHORITY PERMITS PRIOR TO COMMENCEMENT OF ANY BLASTING WORKS.
11. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ANY DAMAGE INCURRED TO EXISTING UTILITY SERVICES AS A RESULT OF THE EXECUTION OF WORK UNDER THE CONTRACT.
12. NO WORK SHALL BE CARRIED OUT WITHIN 3 METRES OF ANY EXISTING SERVICES WITHOUT PRIOR RECORDED CONSULTATION WITH THE RELEVANT AUTHORITY.
13. ALL EXISTING SERVICES & STRUCTURES ARE TO BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE CONTRACT & WHERE RELOCATION IS REQUIRED, REFER SPECIFICATION.
14. COUNCIL AND SUPERINTENDENT TO BE NOTIFIED SEVEN (7) BUSINESS DAYS PRIOR TO COMMENCEMENT OF WORKS.
15. CONTRACTOR SHALL MEET THE REQUIREMENTS OF THE CULTURAL MANAGEMENT PLAN FOR THIS STAGE.
16. ALL AREAS DISTURBED AS RESULT OF CONNECTION TO EXISTING UTILITY SERVICES, ROADWAYS AND ADJOINING PROPERTIES SHALL BE REINSTATED AS PART OF THE WORKS.
17. ALL NEW WORKS SHALL MATCH NEATLY TO EXISTING AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.

SURVEY NOTES

1. THE EXISTING SITE CONDITIONS AND UTILITY SERVICES INFORMATION SHOWN HAS BEEN COMPILED FROM SURVEY INFORMATION SUPPLIED BY OTHERS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. ARCADIS DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
2. THE INFORMATION IS NOT INTENDED TO PROVIDE THE CONTRACTOR WITH COMPLETE OR ACCURATE INFORMATION CONCERNING THE LOCATION & EXTENT OF UTILITY SERVICES.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH & EXTENT OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN.
5. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION SUPERINTENDENT.
6. ALL HIGH STABILITY PSM'S ARE TO BE TO MGA COORDINATES & LEVELLED BY A LICENSED SURVEYOR WITH RESULTS FORWARDED TO COUNCIL.
7. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55 UNLESS NOTED OTHERWISE.
8. TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION.
9. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DEVELOPER'S CONSULTANT TO ARRANGE RE-INSTATEMENT AT THE CONTRACTORS EXPENSE.
10. THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS.

WORKING IN CLOSE PROXIMITY TO OVERHEAD ELECTRICAL POWERLINES NOTES

1. THE CONTRACTOR SHALL TAKE CARE WHEN UNDERTAKING WORKS WITHIN CLOSE PROXIMITY TO OVERHEAD POWERLINES AND SHALL CONDUCT WORKS IN ACCORDANCE WITH AUTHORITY REQUIREMENTS.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM TEN (10) BUSINESS DAYS NOTIFICATION PERIOD TO THE AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCEMENT OF WORKS WITH ANY ADDITIONAL SAFETY PRECAUTIONS INCLUDED WITHIN THE CONTRACTORS SAFE WORK METHOD STATEMENT FOR THE WORKS AND COMMUNICATED TO THE CONSTRUCTION SUPERINTENDENT.
4. ALL WORKS WITHIN CLOSE PROXIMITY TO EXISTING POWERLINES SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE AUTHORITIES NO GO ZONE REQUIREMENTS AND THAT THE CONTRACTOR AND SUB-CONTRACTORS HAVE MET THIS REQUIREMENTS INCLUDING PROVISION OF A SPOTTER IF REQUIRED.
5. ANY VEHICLES OR EQUIPMENT EXCEEDING 3.0m MAXIMUM OPERATING HEIGHT ARE NOT PERMITTED TO UNDERTAKE WORKS UNDER POWERLINES UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE AUTHORITY FOR A GREATER OPERATING HEIGHT LIMIT. AN INCREASE TO THE OPERATING HEIGHT LIMIT IS SUBJECT TO ACHIEVING ADEQUATE CLEARANCE TO CONDUCTORS.
6. THE FOLLOWING ARE NOT PERMITTED UNDER EXISTING POWERLINES:
   - MAINTENANCE OR REFUELING OF VEHICLES AND EQUIPMENT
   - STORAGE AND HANDLING OF FLAMMABLE LIQUIDS OR GASES
   - STOCKPILING OF EXCAVATED MATERIAL IS NOT PERMITTED UNDER POWERLINES
   - CONTRACTOR SITE COMPOUND, STORAGE AREAS AND VEHICLE CAR PARKING POWERLINES.
7. ALL STORMWATER PITS, REINFORCED CONCRETE PIPES, REINFORCED CONCRETE BOX CULVERTS AND ANY OTHER EXPOSED STEEL SHALL BE COMPLETELY SECTIONALISED AND ISOLATED AS DIRECTED BY THE CONSTRUCTION SUPERINTENDENT FOR WORKS WITHIN 30m OF AN EXISTING OR PROPOSED ELECTRICAL TOWER
8. REINFORCED CONCRETED PIPES AND BOX CULVERTS THAT HAVE BEEN CUT AND HAVE EXPOSED STEEL ARE ONLY PERMISSIBLE WITHIN STORMWATER PITS WITH ALL EXPOSED STEEL TO BE COMPLETELY SECTIONALISED AND ISOLATED

WORKING IN CLOSE PROXIMITY TO GAS TRANSMISSION PIPELINES NOTES

1. THE CONTRACTOR SHALL TAKE CARE WHEN UNDERTAKING WORKS WITHIN CLOSE PROXIMITY TO GAS TRANSMISSION PIPELINES AND SHALL CONDUCT WORKS IN ACCORDANCE WITH AUTHORITY REQUIREMENTS.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM FORTY-EIGHT (48) HOURS NOTIFICATION PERIOD TO THE AUTHORITY PRIOR TO COMMENCEMENT OF PROVING AND / OR CONSTRUCTION TO ALLOW ARRANGEMENTS FOR A CORPORATION INSPECTOR TO ATTEND SITE DURING THE WORKS.
3. PROVING SHALL BE UNDERTAKEN BY HAND AND UNDER THE SUPERVISION OF A CORPORATION INSPECTOR.
4. UPON COMPLETION OF SERVICE PROVING THE CONTRACTOR SHALL SUPPLY PROVING INFORMATION TO THE CONSTRUCTION SUPERINTENDENT FOR REVIEW AND CONFIRMATION IN ACHIEVING THE FOLLOWING MINIMUM CLEARANCES;
   - 300mm TOP OF PIPELINE TO UNDERSIDE OF ROAD PAVEMENT BOXING
   - 1.2m TOP OF PIPELINE TO FINISHED SURFACE LEVELS
   - 300mm BETWEEN PIPELINE AND INSTALLATION OF EQUIPMENT $\leq$ 1.5m WIDE CROSSING PERPENDICULAR TO THE PIPELINE
   - 500mm BETWEEN PIPELINE AND INSTALLATION OF EQUIPMENT > 1.5m WIDE CROSSING PERPENDICULAR TO THE PIPELINE
   - 500mm BETWEEN PIPELINE AND INSTALLATION OF EQUIPMENT PARALLEL TO THE PIPELINE
4. THE CONTRACTOR SHALL ENSURE THAT THE MINIMUM CLEARANCES ARE ACHIEVED ONSITE.
5. NO MECHANICAL EQUIPMENT SHALL BE USED WITHIN 1.0m OF THE PIPELINE AT ALL TIMES EXCEPT FOR BORING OPERATIONS.
6. WHEN UNDERTAKING BORING OPERATIONS, HAND EXCAVATION ADJACENT TO THE PIPELINE IS REQUIRED 1.0m FROM THE SIDE FROM THE PIPELINE FROM WHICH THE BORE WILL APPROACH. THE AUGER IS TO BE CHECKED WHEN IT REACHES THIS EXCAVATION TO ENSURE THAT THE REQUIRED MINIMUM CLEARANCE IS MAINTAINED BETWEEN THE BORE AND THE PIPELINE.
7. EXTREME CAUTION IS REQUIRED FOR ANY BLASTING BEING CARRIED OUT WITHIN CLOSE PROXIMITY TO THE PIPELINE AND SHALL BE UNDERTAKEN UNDER SUPERVISION OF A CORPORATION INSPECTOR. BLASTING RESTRICTIONS MUST BE IN ACCORDANCE WITH SAA EXPLOSIVES CODE 2187, AND ONLY MODIFIED AFTER EXPLICIT AGREEMENT WITH A CORPORATION ENGINEER.

SITE DEMOLITION & CLEARING NOTES

1. CONTRACTOR SHALL CONFIRM WITH THE CONSTRUCTION SUPERINTENDENT OF ANY REQUIREMENTS FOR AN AUTHORISED SPOTTER-CATCHER OR ARBORIST TO BE ON SITE PRIOR TO THE COMMENCEMENT OF & DURING THE CLEARING WORK.
2. ANY CLEARING REQUIRED TO BE UNDERTAKEN BY THE CONTRACTOR IS TO BE STRICTLY IN ACCORDANCE WITH THE APPROVED ENVIRONMENTAL MANAGEMENT PLAN.
3. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS AS OUTLINED WITHIN THE ENVIRONMENTAL PROTECTION AUTHORITY VICTORIA PUBLICATION 'CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL' DURING ALL PHASES OF CONSTRUCTION.
4. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO COMMENCEMENT OF CLEARING & GRUBBING WORKS.
5. CONTRACTOR TO PROVIDE ADEQUATE PROTECTION AGAINST SILT RUNOFF FROM THE SITE AS PART OF THEIR ENVIRONMENTAL MANAGEMENT PLAN (EMP).
6. A TEMPORARY 1.5M HIGH POST & WIRE FENCE SHALL BE ERECTED AND MAINTAINED AROUND EXISTING TREES, NOMINATED TO BE RETAINED AS PER A TREE PROTECTION ZONE (TPZ) CONDITION, AT ALL TIMES DURING CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL SITE SHEDS, VEHICLES, MACHINERY AND EQUIPMENT BE STORED OR PLACED WITHIN FENCED ZONE OF THESE TREES. FENCE TO BE INSTALLED PRIOR TO THE PRE START MEETING WITH COUNCIL.
7. NO NATIVE VEGETATION SHALL BE DESTROYED, FELLED, LOPPED RING BARKED OR UPROOTED WITHOUT THE CONSENT OF THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
8. THE AREA WITHIN THE LIMITS OF CLEARING SHALL BE CLEARED OF ALL VEGETATION, ALL MINOR MAN-MADE STRUCTURES (SUCH AS FENCES, BUILDING MATERIAL & EXISTING DRIVEWAYS), ALL RUBBISH & OTHER MATERIALS WHICH, IN THE OPINION OF THE SUPERINTENDENT, ARE UNSUITABLE FOR USE IN THE WORKS WITH THE EXCEPTION OF CERTAIN TREES MARKED FOR PRESERVATION.
9. PRIOR TO REMOVAL, TREES ARE TO BE MARKED BY CONTRACTOR AND APPROVED BY THE CONSTRUCTION SUPERINTENDENT AND COUNCIL REPRESENTATIVE.
10. TREES ARE TO BE MULCHED & STOCKPILED ON SITE FOR USE IN LANDSCAPING.
11. WHERE PARTS OF TREES CANNOT BE MULCHED, THEY ARE TO BE DISPOSED OF OFF-SITE AT AN APPROVED FACILITY.
12. ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL BUILDING WASTE, RUBBISH AND SPOIL FROM THE SITE. NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS IS TO BE BURNT ON SITE.

EARTHWORKS NOTES

1. ALL WORK SHOULD BE UNDERTAKEN IN ACCORDANCE WITH AS 3798-2007 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS AND UNDER LEVEL 1 SUPERVISION.
2. THE CONTRACTOR IS TO FENCE LIMIT PRIOR TO PRE START MEETING WITH COUNCIL.
3. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE MAINTAINED DURING EARTHWORKS.
4. TOPSOIL SHOULD BE STRIPPED AND STOCKPILED FROM ALL AREAS WHERE EARTHWORKS ARE TO BE CONDUCTED. BEFORE COMPLETING THE SITE WORKS, TOPSOIL SHOULD BE PLACED AND REHABILITATED TO REPLICATE THE PREDEVELOPMENT DEPTHS AS APPROPRIATE.
5. DESIGN LEVELS GIVEN ARE FINISHED SURFACE LEVELS INCLUSIVE OF TOPSOIL.
6. REFER TO ROAD CROSS SECTIONS FOR BATTER GRADES. BATTER GRADES OF MAXIMUM 1 IN 6 SHALL BE ADOPTED WHERE GRADES ARE NOT SPECIFIED.
7. NOTWITHSTANDING THE LIMITS OF CUTTING & FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE CONSTRUCTION SUPERINTENDENT DURING CONSTRUCTION. FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE ENGINEER DURING CONSTRUCTION.
8. WHERE FILL EXCEEDS 300mm THE FILL SHALL BE COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 204.131 COMPACTION REQUIREMENTS SCALE C OF VICROADS SPECIFICATION AND TRIMMED AND SHAPED TO MATCH EXISTING SITE LEVELS, EXCEPT IN AREAS NOMINATED FOR SOFT LANDSCAPING. GEOTECHNICAL TEST RESULTS AND LEVEL 1 SUPERVISION CERTIFICATION TO BE SUBMITTED TO COUNCIL'S ENGINEERING DEPARTMENT FOR APPROVAL.
9. ALL FILL PLACED ON THE SITE IS TO COMPRISE OF ONLY NATURAL EARTH & ROCK & IS TO BE FREE OF ALL CONTAMINANTS (REFER TO THE ENVIRONMENTAL PROTECTION ACT 1994 SECTION 11). NO DEMOLITION MATERIAL SHALL BE USED UNLESS NOTED ON THE DRAWINGS AND PROJECT SPECIFICATION OR APPROVED BY THE CONSTRUCTION SUPERINTENDENT AND COUNCIL.
10. ALL RETAINING WALL SUBSURFACE DRAINAGE SHALL ACHIEVE LEGAL POINT OF DISCHARGE TO STORMWATER DRAINAGE INFRASTRUCTURE.
11. THE CONTRACTOR SHALL OBTAIN COUNCIL APPROVAL FOR THE REMOVAL AND DISPOSAL OF ANY EXCAVATED MATERIAL OR TOPSOIL NOT BEING RETAINED ONSITE.
12. ALL ALLOTMENTS AND RESERVES SHALL BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE AND BE FREE DRAINING.
13. ALL AREAS DISTURBED AS PART OF THE WORKS SHALL BE RESURFACED WITH A MINIMUM 100mm THICK LAYER OF TOPSOIL UNLESS NOTED OTHERWISE AND ADEQUATELY STABILISED IN ACCORDANCE WITH THE LANDSCAPE DRAWINGS. IN THE ABSENCE OF A NOMINATED METHOD, TURF SHALL BE ADOPTED.

ROADWORKS NOTES

1. CHAINAGES TO ROADWAYS AND DRAINAGE CHANNELS ARE MEASURED ALONG THE CONTROL LINE / CENTRELINE UNLESS NOTED OTHERWISE.
2. CHAINAGES AND RADII TO CUL-DE-SAC HEADS AND KERB RETURNS ARE TO LIP OF KERB UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR SHALL OBTAIN ANY ROAD OPENING PERMIT PRIOR TO UNDERTAKING ANY WORKS WITHIN AN EXISTING ROADWAY INCLUSIVE OF ANY REQUIRED TRAFFIC MANAGEMENT PLANS.
4. THE CONTRACTOR SHALL ERECT TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE APPROVED TRAFFIC MANAGEMENT PLAN.
5. THE ROAD PAVEMENT ADOPTED WILL BE DETERMINED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY COUNCIL. THIS PAVEMENT SHALL BE BASED ON SOIL TEST TAKEN AT SUBGRADE LEVEL. ANY VARIATIONS TO THE NOMINAL PAVEMENT THICKNESS WILL BE PAID AT THE RATES SHOWN IN THE TENDER SCHEDULE.
6. SUBGRADE SHALL BE COMPACTED 97% DRY DENSITY OF THE MAXIMUM FOUND IN STANDARD COMPACTION TEST IN AREAS OF CUT TO A DEPTH OF 150mm AND IN AREAS OF FILL TO A DEPTH OF 450mm.
7. RELATIVE COMPACTION OF CRUSHED ROCK WITHIN PAVEMENTS SHALL BE UNDERTAKEN AT THE OPTIMUM MOISTURE CONTENT TO A DRY DENSITY (BASED ON THE PERCENTAGE OF THE MAXIMUM DRY DENSITY OBTAINED IN THE MODIFIED COMPACTION TEST) AS FOLLOWS;
   - 0-100mm BELOW TOP OF BASE, RELATIVE COMPACTION OF 100%
   - 100-300mm BELOW TOP OF BASE, RELATIVE COMPACTION OF 98%
   - >300mm BELOW TOP OF BASE, RELATIVE COMPACTION OF 97%.
8. THE NATURE STRIPS AND CUT OR FILLED AREAS ARE TO BE TOPSOILED WITH 100mm OF APPROVED MATERIAL.
9. THE CONTRACTOR SHALL COORDINATE WITH ALL SUBCONTRACTORS AND AUTHORITIES ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO INSTALLATION OF THE FINAL PAVEMENT COURSE.
10. SUBSOIL DRAINS SHALL BE PROVIDED UNDER ALL KERBS IN ACCORDANCE WITH AUTHORITY STANDARDS.
11. SUBSOIL DRAIN LOCATION & EXTENTS SHALL BE DETERMINED ON SITE BY THE SITE ENGINEER / SUPERINTENDENT.
12. ROAD CROSSING CONDUITS LOCATIONS ARE SUBJECT TO CHANGE. THE CONTRACTOR SHALL SEEK WRITTEN CLARIFICATION FROM THE CONSTRUCTION SUPERINTENDENT REGARDING ANY CHANGES TO THE ROAD CROSSING CONDUITS PRIOR TO INSTALLATION.
13. ALL ROAD CROSSING CONDUITS SHALL BE INSTALLED TO THE RELEVANT AUTHORITY STANDARDS.
14. KERB MARKERS ARE TO BE INSTALLED TO THE KERB FACE ABOVE UTILITY CONDUIT LOCATIONS AND UNDERGROUND STORMWATER CONNECTIONS IN ACCORDANCE WITH AUTHORITY REQUIREMENTS.
15. BACKFILL TO ALL UTILITY SERVICING TRENCHES WITHIN ROAD RESERVE SHALL BE 20mm CLASS 3 CRUSHED ROCK COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING;
   - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE CROSS PAVEMENT
   - ADJACENT TO THE KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OR REPOSE FROM NEAR THE LOWER EDGE.
19. ALL FOOTPATHS SHALL BE MINIMUM 1.50m WIDE UNLESS NOTED OTHERWISE AND CONSTRUCTED IN ACCORDANCE WITH AUTHORITY STANDARDS INCLUDING A MINIMUM OF 50mm MECHANICALLY COMPACTED 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE . FOR AREAS IN FILL, CRUSHED ROCK SHALL EXTEND DOWN TO THE EXISTING NATURAL SURFACE IN ACCORDANCE WITH AUTHORITY STANDARDS.
20. ALL DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH AUTHORITY STANDARDS AND SHALL BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT UNLESS NOTED OTHERWISE.
21. ALL DRIVEWAYS AND PRAM RAMPS SHALL BE LOCATED A MINIMUM 1.0m FROM STORMWATER PITS.
22. ALL PRAM RAMPS SHALL BE LOCATED A MINIMUM OF 2.0m FROM DRIVEWAYS.

STORMWATER DRAINAGE NOTES

1. ALL REINFORCED CONCRETE DRAINAGE PIPES SHALL BE CLASS 2 UNLESS NOTED OTHERWISE. PIPE CLASSIFICATION TO INCREASE WHERE LESS THAN 600mm COVER IS ACHIEVED TO PAVEMENT SUBGRADE LEVEL. CONTRACTOR TO CONFIRM PIPE CLASS DURING TENDER.
2. ALL DRAINAGE PIPES SHALL BE RUBBER RING BELLED SOCKET JOINTS (RRJ) UNLESS NOTED OTHERWISE.
3. ALL DRAINAGE TRENCHES TO BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH AUTHORITY STANDARDS.
4. EXPOSURE CLASSIFICATION FOR ALL REINFORCED CONCRETE BOX CULVERTS SHALL MEET THE EXPECTED ENVIRONMENTAL CONDITIONS AS OUTLINED WITHIN AS3600 TABLE 4.3. CONTRACTOR TO CONFIRM EXPOSURE CLASSIFICATION DURING TENDER.
5. CAST INSITU BASE SLABS SHALL BE USED FOR ALL REINFORCED CONCRETE BOX CULVERTS UNLESS NOTED OTHERWISE. CONTRACTOR TO CONFIRM ALLOWANCE FOR CAST INSITU BASE SLABS DURING TENDER.
6. STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN ASSESSED IN ACCORDANCE WITH AS.3725-2007, LOADS ON BURIED PIPES.
7. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPLACED AT THE CONTRACTOR'S COST.
8. DRAINAGE PITS SHALL BE CAST MONOLITHICALLY WITH CEMENT RENDER ONLY USED FOR DEFECT REPAIRS.
9. WHERE THE DROP THROUGH A STORMWATER PIT IS LESS THAN 50mm THE CONTRACTOR SHALL PROVIDE HALF HEIGHT CONCRETE BENCHING IN ACCORDANCE WITH AUTHORITY STANDARDS.
10. CONTRACTOR IS TO VERIFY ALL FINISHED SURFACE LEVELS OF PROPOSED STORMWATER PITS BEFORE CONSTRUCTING TO FINISHED LEVELS.
11. ALL STORMWATER PIT COVERS AND GRATES SHALL BE IN ACCORDANCE WITH AUTHORITY STANDARDS.
12. ALL PROPERTY INLET CONNECTIONS TO DRAINAGE INFRASTRUCTURE WITHIN COUNCIL ROAD RESERVE SHALL BE CONSTRUCTED IN ACCORDANCE WITH AUTHORITY STANDARDS
13. ALL PROPERTY INLET CONNECTIONS WITHIN PRIVATE PROPERTY SHALL BE LOCATED 1.0m FROM THE LOW SIDE BOUNDARY UNLESS NOTED OTHERWISE AND INSTALLED AT A MINIMUM DEPTH OF 400mm OR AS SPECIFIED WITHIN AUTHORITY STANDARDS.

SIGNAGE & LINEMARKING NOTES

1. THE CONTRACTOR SHALL CONFIRM THE ROAD NAMES WITH THE CONSTRUCTION SUPERINTENDENT PRIOR TO ORDERING OF STREET NAME SIGNAGE.
2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ANY NECESSARY TEMPORARY SIGNAGE AND LINE MARKING IN ACCORDANCE WITH THE APPROVED TRAFFIC MANAGEMENT INCLUDING REINSTATEMENT AT THE COMPLETION OF THE WORKS.
3. ALL SIGNAGE, LINEMARKING & REFLECTORISED PAVEMENT MARKERS ARE TO BE IN ACCORDANCE WITH AS1742 PARTS 1-15 AND THE VICROADS TRAFFIC ENGINEERING MANUAL VOLUMES 1 AND 2.
4. ALL TRAFFIC SIGNS TO BE SIZE 'B' UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL SUPPLY AND ERECT ALL STREET SIGNAGE IN ACCORDANCE WITH THE AUTHORITY STANDARDS.
6. ALL SIGNAGE TO BE MADE REDUNDANT ARE TO BE REMOVED FROM SITE OR RELOCATED AS SHOWN ON THE DRAWINGS.
7. FINAL SIGN LOCATIONS TO BE DETERMINED ON SITE BY THE SUPERINTENDENT AND COUNCIL REPRESENTATIVE.
8. EXISTING LINEMARKING MADE REDUNDANT BY NEW LINEMARKING IS TO BE REMOVED BY HIGH PRESSURE WATER BLASTING OR OTHER METHOD APPROVED BY THE AUTHORITY.
9. ALL LINEMARKING TO BE LONG LIFE THERMOPLASTIC REFLECTORISED WHITE PAINT UNLESS NOTED OTHERWISE.
10. GUIDEPOSTS TO BE INSTALL IN ACCORDANCE WITH AUTHORITY STANDARDS.
11. ALL TACTILE GROUND SURFACE INDICATORS SHALL BE INSTALLED IN ACCORDANT WITH AS1428.4.1.

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APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale

Planner: RobertsDay planning·design·place

Filename C-5C-002-10029435-Notes.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales

Original Issue Signatures: Drawn C.MENEZ; Designed K.ANGELES; Project Manager J.MUNRO

Original Size: A1

Height Datum: AHD

Grid: MGA

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: GENERAL NOTES

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Drawing No. C-5C-002 — Project No. 10029435 — Issue 01

100mm on Original

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ENGINEERING SERVICES
Date: 26/10/2021

LEGEND

- PROPOSED STAGE BOUNDARY
- EXISTING SURFACE CONTOURS
- PROPOSED DESIGN CONTOURS
- PROPOSED KERB & CHANNEL
- PROPOSED RIDGE LINE
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED

NOTES:

1. FOR GENERAL NOTES, REFER TO DRAWING No. C-5C-002.

CUT FILL DEPTH RANGE

Lower_value		Upper_value		Colour
-1.4	to	-1.3	m	
-1.3	to	-1.2	m	
-1.2	to	-1.1	m	
-1.1	to	-1	m	
-1	to	-.9	m	
-.9	to	-.8	m	
-.8	to	-.7	m	
-.7	to	-.6	m	
-.6	to	-.5	m	
-.5	to	-.4	m	
-.4	to	-.3	m	
-.3	to	-.2	m	
-.2	to	-.1	m	
-.1	to	0.0	m	
0.0	to	.1	m	
.1	to	.2	m	
.2	to	.3	m	
.3	to	.4	m	
.4	to	.5	m	
.5	to	.6	m	
.6	to	.7	m	
.7	to	.8	m	
.8	to	.9	m	
.9	to	1	m	
1	to	1.1	m	
1.1	to	1.2	m	
1.2	to	1.3	m	
1.3	to	1.4	m	

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Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

100mm on Original

Scale: 1 : 500 (0 5 10 20 30 40 50m)

Planner: RobertsDay planning·design·place

Filename C-5C-100-10029435-EarthworksPlan.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures: Drawn C.MENEZ; Designed K.ANGELES; Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: EARTHWORKS LAYOUT PLAN

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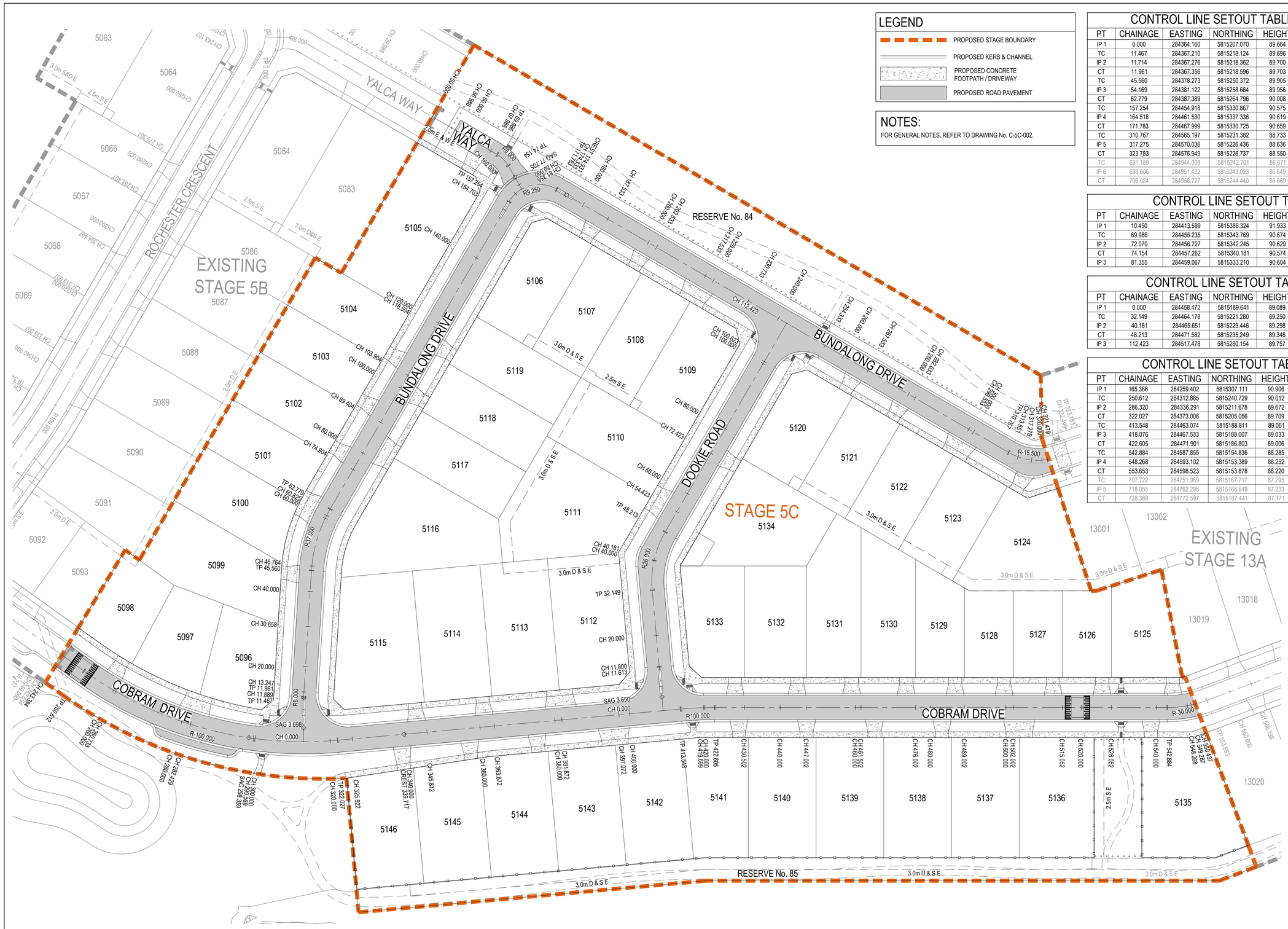
Drawing No. C-5C-100 — Project No. 10029435 — Issue 02

Last Saved: WBMN1953 Date Plotted: 10 Aug 2021 - 03:58PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46ID-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-5C\DD\C-5C-100-10029435-EarthworksPlan.dwg V1



LEGEND

- PROPOSED STAGE BOUNDARY
- PROPOSED KERB & CHANNEL
- PROPOSED CONCRETE FOOTPATH / DRIVEWAY
- PROPOSED ROAD PAVEMENT

NOTES:

FOR GENERAL NOTES, REFER TO DRAWING No. C-5C-002.

CONTROL LINE SETOUT TABLE - BUNDALONG DRIVE (MC02)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284364.160	5815207.070	89.664	15°25'25.09"			
TC	11.467	284367.210	5815218.124	89.696	15°25'25.09"			
IP 2	11.714	284367.276	5815218.362	89.700		R = 8.000	0.494	3°32'15.39"
CT	11.961	284367.356	5815218.596	89.703	18°57'40.48"			
TC	45.560	284378.273	5815250.372	89.905	18°57'40.48"			
IP 3	54.169	284381.122	5815258.664	89.956		R = 37.000	17.219	26°39'49.52"
CT	62.779	284387.389	5815264.796	90.008	45°37'30.00"			
TC	157.254	284454.918	5815330.867	90.575	45°37'30.00"			
IP 4	164.518	284461.530	5815337.336	90.619		R = 9.250	14.530	90°00'00.00"
CT	171.783	284467.999	5815330.725	90.659	135°37'30.00"			
TC	310.767	284565.197	5815231.382	88.733	135°37'30.00"			
IP 5	317.275	284570.036	5815226.436	88.636		R = -15.500	13.016	48°06'55.00"
CT	323.783	284576.949	5815226.737	88.550	87°30'35.00"			
TC	691.189	284944.008	5815242.701	86.671	87°30'35.00"			
IP 6	698.606	284951.432	5815243.023	86.649		R = -100.000	14.835	8°30'00.00"
CT	706.024	284958.727	5815244.440	86.669	79°00'35.00"			

CONTROL LINE SETOUT TABLE - YALCA WAY (MC04)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	10.450	284413.599	5815386.324	91.933	135°37'30.00"			
TC	69.986	284455.235	5815343.769	90.674	135°37'30.00"			
IP 2	72.070	284456.727	5815342.245	90.629		R = 8.000	4.168	29°51'07.18"
CT	74.154	284457.262	5815340.181	90.574	165°28'37.18"			
IP 3	81.355	284459.067	5815333.210	90.604	165°28'37.18"			

CONTROL LINE SETOUT TABLE - DOOKIE ROAD (MC05)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284458.472	5815189.641	89.089	10°13'26.87"			
TC	32.149	284464.178	5815221.280	89.250	10°13'26.87"			
IP 2	40.181	284465.651	5815229.446	89.298		R = 26.000	16.064	35°24'03.13"
CT	48.213	284471.582	5815235.249	89.346	45°37'30.00"			
IP 3	112.423	284517.478	5815280.154	89.757	45°37'30.00"			

CONTROL LINE SETOUT TABLE - COBRAM DRIVE (MC07)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	165.366	284259.402	5815307.111	90.906	141°08'30.62"			
TC	250.612	284312.885	5815240.729	90.012	141°08'30.62"			
IP 2	286.320	284336.291	5815211.678	89.672		R = -100.000	71.415	40°55'03.75"
CT	322.027	284373.006	5815205.056	89.709	100°13'26.87"			
TC	413.548	284463.074	5815188.811	89.061	100°13'26.87"			
IP 3	418.076	284467.533	5815188.007	89.033		R = 100.000	9.056	5°11'19.71"
CT	422.605	284471.901	5815186.803	89.006	105°24'46.58"			
TC	542.884	284587.855	5815154.836	88.285	105°24'46.58"			
IP 4	548.268	284593.102	5815153.389	88.252		R = -30.000	10.769	20°33'59.10"
CT	553.653	284598.523	5815153.878	88.220	84°50'47.48"			
TC	707.722	284751.969	5815167.717	87.295	84°50'47.48"			
IP 5	718.055	284762.298	5815168.649	87.233		R = 100.000	20.667	11°50'28.33"
CT	728.389	284772.597	5815167.441	87.171	96°41'15.81"			

CITY OF MELTON

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DETAILED ENGINEERING PLANS
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ENGINEERING SERVICES
Date: 26/10/2021

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

100mm on Original

Scale: 1 : 500 (0 5 10 20 30 40 50m)

Planner: RobertsDay planning·design·place

Filename C-5C-200-10029435-Setout.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures: Drawn C.MENEZ; Designed K.ANGELES; Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: SETOUT PLAN

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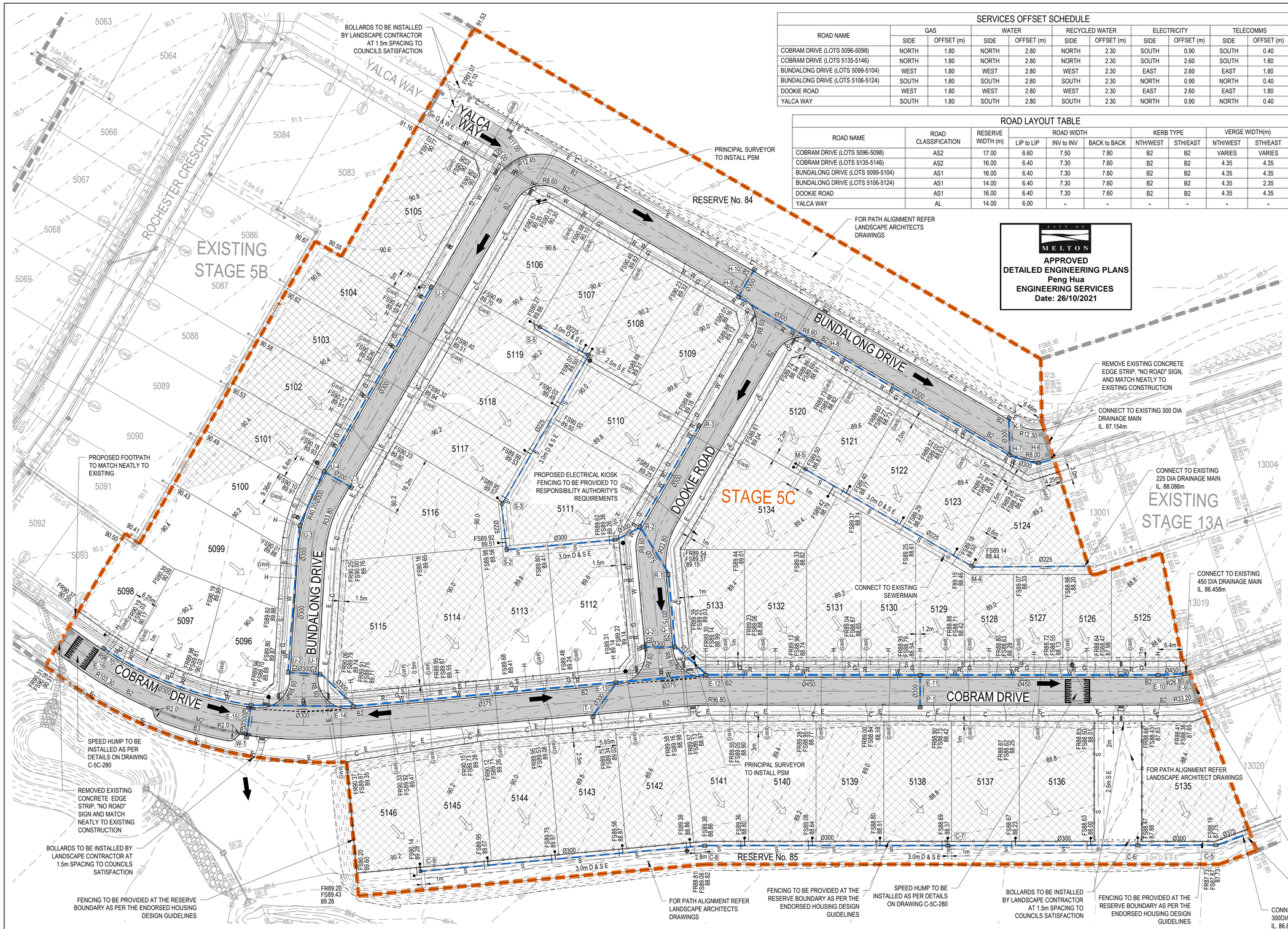
Drawing No. C-5C-200 — Project No. 10029435 — Issue 02



SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		WATER		RECYCLED WATER		ELECTRICITY		TELECOMMS	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
COBRAM DRIVE (LOTS 5096-5098)	NORTH	1.80	NORTH	2.80	NORTH	2.30	SOUTH	0.90	SOUTH	0.40
COBRAM DRIVE (LOTS 5135-5146)	NORTH	1.80	NORTH	2.80	NORTH	2.30	SOUTH	2.60	SOUTH	1.80
BUNDALONG DRIVE (LOTS 5099-5104)	WEST	1.80	WEST	2.80	WEST	2.30	EAST	2.60	EAST	1.80
BUNDALONG DRIVE (LOTS 5106-5124)	SOUTH	1.80	SOUTH	2.80	SOUTH	2.30	NORTH	0.90	NORTH	0.40
DOOKIE ROAD	WEST	1.80	WEST	2.80	WEST	2.30	EAST	2.60	EAST	1.80
YALCA WAY	SOUTH	1.80	SOUTH	2.80	SOUTH	2.30	NORTH	0.90	NORTH	0.40

ROAD LAYOUT TABLE

ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH			KERB TYPE		VERGE WIDTH(m)	
			LIP to LIP	INV to INV	BACK to BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
COBRAM DRIVE (LOTS 5096-5098)	AS2	17.00	6.60	7.50	7.80	B2	B2	VARIES	VARIES
COBRAM DRIVE (LOTS 5135-5146)	AS2	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
BUNDALONG DRIVE (LOTS 5099-5104)	AS1	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
BUNDALONG DRIVE (LOTS 5106-5124)	AS1	14.00	6.40	7.30	7.60	B2	B2	4.35	2.35
DOOKIE ROAD	AS1	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
YALCA WAY	AL	14.00	6.00	-	-	-	-	-	-

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

LEGEND

- PROPOSED STAGE BOUNDARY
- 5.0 PROPOSED DESIGN CONTOURS
- PROPOSED KERB & CHANNEL
- FALL OF ALLOTMENT
- DIRECTION OF OVERLAND FLOW
- PROPOSED STORMWATER DRAINAGE
- A-1 PROPOSED PIT LABEL
- S PROPOSED SEWERAGE RETICULATION
- W PROPOSED WATER RETICULATION
- R PROPOSED RECYCLED WATER RETICULATION
- E PROPOSED ELECTRICITY UNDER GROUND
- C PROPOSED COMMUNICATIONS
- G PROPOSED GAS RETICULATION
- PROPOSED DRAINAGE INLET
- PROPOSED CONCRETE FOOTPATH/DRIVEWAY
- PROPOSED ROAD PAVEMENT
- GWR PROPOSED GAS / CLASS A / POTABLE WATER HOUSE CONNECTION
- BOLLARD
- FR98.86 FINISHED RIDGE LEVEL
- FS97.14 FINISHED SURFACE LEVEL
- 93.750 EXISTING SURFACE LEVEL
- PROPOSED RIDGE LINE
- CUT (> 0.3m)
- FILL (> 0.3m)
- EXISTING STAGE BOUNDARY
- 5.0 EXISTING SURFACE CONTOURS
- EXISTING STORMWATER DRAINAGE
- S EXISTING SEWER RETICULATION
- W EXISTING WATER RETICULATION
- R EXISTING RECYCLED WATER RETICULATION
- e EXISTING ELECTRICITY UNDER GROUND
- c EXISTING COMMUNICATIONS
- g EXISTING GAS RETICULATION
- EXISTING SWALE
- FUTURE STORMWATER DRAINAGE
- FUTS FUTURE SEWER RETICULATION
- FUTW FUTURE WATER RETICULATION
- FUTR FUTURE RECYCLED WATER RETICULATION
- FUTC FUTURE COMMUNICATIONS
- FUTE FUTURE ELECTRICAL UNDER GROUND
- FUTG FUTURE GAS RETICULATION
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED
- PROPOSED FENCE

NOTES:

1. DOWNSTREAM STAGE 13A TO BE CONSTRUCTED CONCURRENTLY TO PROVIDE DRAINAGE AND SEWER OUTFALLS.

Issue	Description	By	Ckd	PM	Date
04	FENCE NOTE CHANGED	CM	ZS	JM	07.10.21
03	FENCE NOTE ADDED TO LOT 5146	CM	ZS	JM	14.09.21
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale: 1 : 500 (0 5 10 20 30 40 50m)

Planner: RobertsDay planning·design·place

Filename C-5C-220-10029435-Roadworks&DrainagePlan.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures: Drawn C.MENEZ; Designed K.ANGELES; Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: ROADWORKS AND DRAINAGE LAYOUT PLAN

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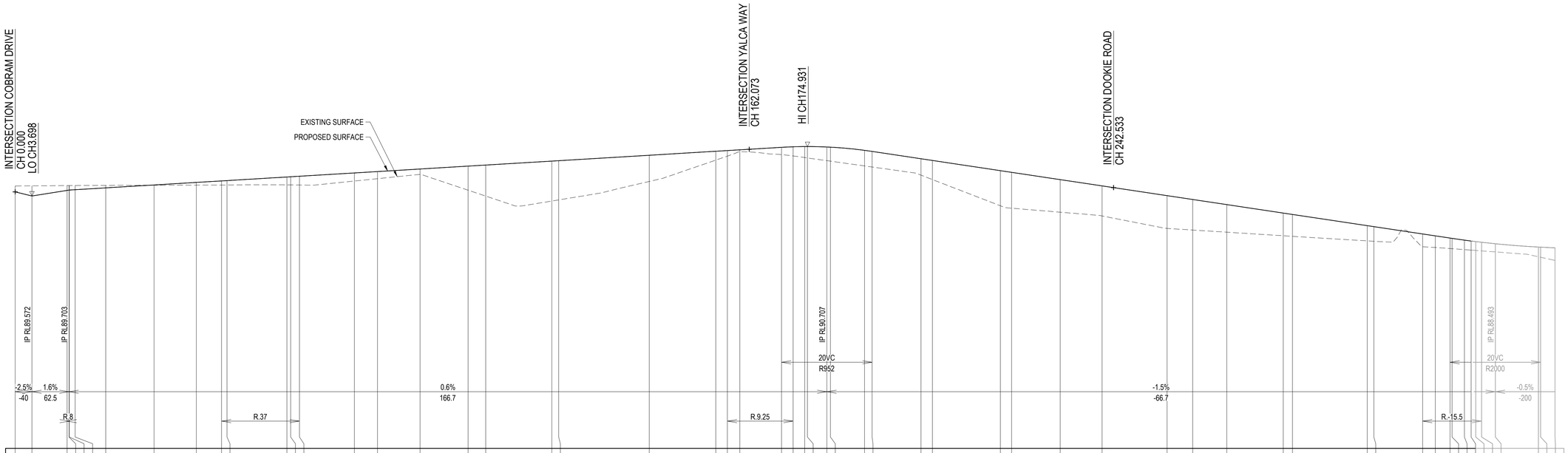
Drawing No.	Project No.	Issue
C-5C-220	10029435	04

100mm on Original

NOTE:
FOR GENERAL NOTES, REFER TO DRAWING No. C-5C-002.



REFER DRAWINGS C-5C-260 TO C-5C-262 FOR KERB RETURN LEVELS

DATUM RL.84.000

Vertical Curve Length (m)	
Vertical Curve Radius (m)	
Vertical Grade (%)	
Vertical Grade (1 in ...)	
Horizontal Curve Radius (m)	
DESIGN LEVELS ON ROAD CONTROL LINE	89.664, 89.572, 89.696, 89.703, 89.703, 89.711, 89.751, 89.815, 89.871, 89.905, 89.912, 89.991, 89.996, 90.008, 90.081, 90.111, 90.168, 90.231, 90.255, 90.342, 90.351, 90.471, 90.560, 90.575, 90.591, 90.647, 90.659, 90.664, 90.664, 90.654, 90.650, 90.580, 90.557, 90.395, 90.357, 90.132, 90.095, 89.934, 89.795, 89.580, 89.495, 89.382, 89.195, 89.164, 88.917, 88.895, 88.733, 88.692, 88.643, 88.606, 88.597, 88.578, 88.566, 88.550, 88.518, 88.445, 88.443, 88.427
DESIGN LIP OF KERB (LHS)	89.597, 89.604, 89.645, 89.709, 89.765, 89.798, 89.805, 89.885, 89.890, 89.901, 89.974, 90.005, 90.061, 90.125, 90.148, 90.236, 90.245, 90.365, 90.453, 90.468, 90.485, 90.540, 90.552, 90.557, 90.557, 90.548, 90.544, 90.474, 90.450, 90.288, 90.250, 90.025, 89.988, 89.827, 89.688, 89.473, 89.388, 89.275, 89.088, 89.058, 88.810, 88.788, 88.627, 88.575, 88.502, 88.495, 88.477, 88.449, 88.472, 88.465, 88.457, 88.444, 88.411, 88.338, 88.336, 88.320
DESIGN LIP OF KERB (RHS)	89.604, 89.645, 89.709, 89.765, 89.798, 89.805, 89.885, 89.890, 89.901, 89.974, 90.005, 90.061, 90.125, 90.148, 90.236, 90.245, 90.365, 90.453, 90.557, 90.557, 90.548, 90.544, 90.474, 90.450, 90.288, 90.250, 90.025, 89.988, 89.827, 89.473, 89.388, 89.275, 89.088, 89.058, 88.810, 88.788, 88.627, 88.575, 88.502, 88.495, 88.477, 88.449, 88.472, 88.465, 88.457, 88.444, 88.411, 88.338, 88.336, 88.320
EXISTING SURFACE ON ROAD CENTERLINE	89.793, 89.796, 89.803, 89.803, 89.803, 89.804, 89.806, 89.809, 89.812, 89.814, 89.815, 89.818, 89.817, 89.815, 89.902, 89.954, 90.049, 89.700, 89.570, 89.461, 89.486, 89.893, 90.365, 90.452, 90.550, 90.486, 90.457, 90.421, 90.413, 90.353, 90.342, 90.236, 90.213, 90.033, 89.935, 89.356, 89.303, 89.215, 89.131, 88.856, 88.820, 88.773, 88.694, 88.661, 88.452, 88.435, 88.412, 88.409, 88.397, 88.377, 88.370, 88.360, 88.337, 88.230, 88.219, 88.150
CUT / FILL DEPTH	-0.129, -0.225, -0.107, -0.100, -0.100, -0.093, -0.054, 0.006, 0.059, 0.091, 0.097, 0.173, 0.179, 0.193, 0.179, 0.157, 0.119, 0.531, 0.685, 0.881, 0.866, 0.578, 0.195, 0.123, 0.042, 0.161, 0.202, 0.243, 0.251, 0.302, 0.309, 0.344, 0.344, 0.362, 0.422, 0.776, 0.792, 0.719, 0.664, 0.724, 0.675, 0.609, 0.601, 0.483, 0.336, 0.323, 0.281, 0.257, 0.230, 0.227, 0.224, 0.201, 0.196, 0.190, 0.180, 0.215, 0.223, 0.277
PEGGED CHAINAGE	0.000, 3.698, 11.467, 11.889, 11.961, 13.247, 20.000, 30.658, 40.000, 45.560, 46.764, 60.000, 60.825, 62.779, 74.904, 80.000, 89.404, 100.000, 103.904, 118.504, 120.000, 140.000, 154.703, 157.254, 160.000, 169.216, 171.783, 174.333, 174.931, 179.216, 180.000, 187.533, 189.216, 200.000, 202.533, 217.533, 220.000, 230.733, 240.000, 254.333, 260.000, 267.533, 280.000, 282.033, 298.533, 300.000, 310.767, 313.551, 316.823, 317.215, 320.047, 321.479, 322.499, 323.763, 326.823, 336.331, 336.823, 340.000

BUNDALONG DRIVE (MC02) - LONGITUDINAL SECTION

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:50

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

100mm on Original

Scale
0 5 10 20 30 40 50m
1 : 500
0 0.5 1 2 3 4 5m
1 : 50

Planner
RobertsDay planning·design·place
Filename C-5C-240-10029435-RoadLS.dwg

Client
RESIMAX GROUP

Status	FOR APPROVAL		
Checker	Z.STROGUSZ		
Scales	1:500 (H) 1:50 (V)	Original Issue Signatures	
		Drawn C.MENEZ	
Original Size	A1	Designed K.ANGELES	
Height Datum	AHD	Project Manager J.MUNRO	
Grid	MGA	© Copyright reserved	

Project
EYNESBURY TOWNSHIP
STAGE 5C

Title
BUNDALONG DRIVE
LONGITUDINAL SECTION

ARCADIS
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Melbourne VIC 3000
ABN 76 104 485 289
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Drawing No.	Project No.	Issue
C-5C-240	10029435	01

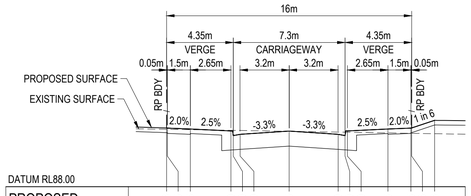
Last Saved: WBMN1953 Date Plotted: 10 Aug 2021 - 03:57PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-5C\DD\C-5C-240-10029435-RoadLS.dwg V1

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

LEGEND

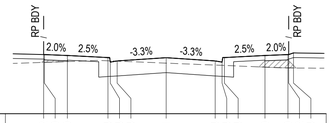
STRUCTURAL FILL



DATUM RL88.00

PROPOSED LEVEL	89.916	89.915	89.885	89.819	89.669	89.709	89.815	89.709	89.669	89.819	89.885	89.915	89.916	90.166
EXISTING LEVEL	89.88	89.87	89.86	89.84	89.84	89.84	89.81	89.78	89.78	89.78	89.76	89.74	89.74	89.73
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.500

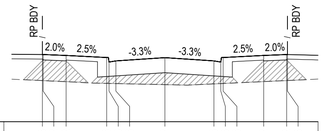
CH 30.658



DATUM RL88.25

PROPOSED LEVEL	90.182	90.180	90.150	90.084	89.934	89.974	90.081	89.974	89.934	90.084	90.150	90.180	90.182	90.234
EXISTING LEVEL	89.93	89.93	89.95	89.98	89.98	89.97	89.90	89.84	89.83	89.83	89.77	89.74	89.74	89.74
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	8.313

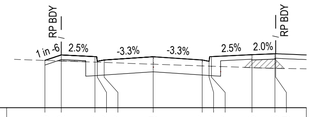
CH 74.904



DATUM RL88.25

PROPOSED LEVEL	90.443	90.442	90.412	90.346	90.196	90.236	90.342	90.236	90.196	90.346	90.412	90.442	90.443	
EXISTING LEVEL	89.59	89.59	89.55	89.50	89.50	89.50	89.46	89.49	89.50	89.50	89.56	89.59	89.59	
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	

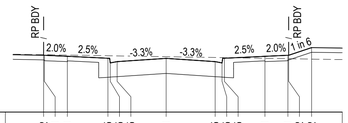
CH 118.504



DATUM RL89.00

PROPOSED LEVEL	90.545	90.722	90.667	90.517	90.557	90.684	90.557	90.517	90.667	90.733	90.763	90.764		
EXISTING LEVEL	90.54	90.53	90.49	90.48	90.48	90.42	90.37	90.36	90.35	90.31	90.29	90.28		
OFFSET	-7.064	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000		

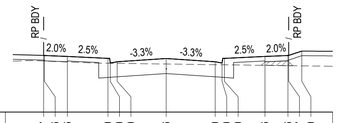
CH 174.333



DATUM RL88.00

PROPOSED LEVEL	89.852	89.851	89.821	89.755	89.605	89.645	89.751	89.645	89.605	89.755	89.821	89.851	89.852	90.102
EXISTING LEVEL	89.87	89.87	89.86	89.84	89.84	89.83	89.81	89.78	89.78	89.77	89.75	89.74	89.74	89.73
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.500

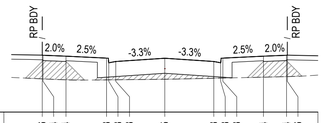
CH 20.000



DATUM RL88.25

PROPOSED LEVEL	90.097	90.096	90.066	90.000	89.850	89.890	89.996	89.890	89.850	90.000	90.066	90.096	90.097	90.240
EXISTING LEVEL	89.91	89.91	89.88	89.84	89.84	89.84	89.82	89.80	89.79	89.79	89.77	89.76	89.76	89.76
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	8.858

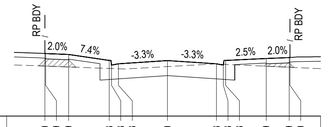
CH 60.825



DATUM RL88.50

PROPOSED LEVEL	90.356	90.354	90.324	90.258	90.108	90.148	90.255	90.148	90.108	90.258	90.324	90.354	90.356	
EXISTING LEVEL	89.58	89.58	89.55	89.55	89.55	89.55	89.57	89.60	89.61	89.61	89.64	89.66	89.66	
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	

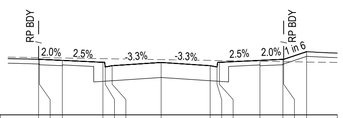
CH 103.904



DATUM RL88.75

PROPOSED LEVEL	90.790	90.789	90.759	90.563	90.413	90.453	90.560	90.453	90.413	90.563	90.629	90.659	90.660	
EXISTING LEVEL	90.38	90.38	90.35	90.30	90.30	90.29	90.36	90.45	90.44	90.44	90.38	90.34	90.34	
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	

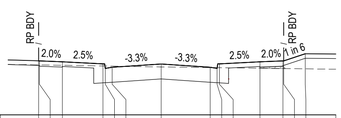
CH 154.703



DATUM RL88.00

PROPOSED LEVEL	89.812	89.810	89.780	89.714	89.564	89.604	89.711	89.604	89.564	89.714	89.780	89.810	89.812	90.062
EXISTING LEVEL	89.87	89.87	89.86	89.83	89.83	89.83	89.80	89.78	89.77	89.77	89.75	89.74	89.74	89.73
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.500

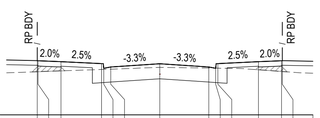
CH 13.247



DATUM RL88.25

PROPOSED LEVEL	90.013	90.012	89.982	89.915	89.765	89.805	89.912	89.805	89.765	89.915	89.982	90.012	90.013	90.246
EXISTING LEVEL	89.88	89.88	89.87	89.85	89.84	89.84	89.81	89.79	89.79	89.79	89.77	89.76	89.76	89.75
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.402

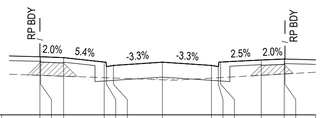
CH 46.764



DATUM RL88.50

PROPOSED LEVEL	90.269	90.267	90.237	90.171	90.021	90.061	90.168	90.061	90.021	90.171	90.237	90.267	90.269	
EXISTING LEVEL	89.91	89.91	89.94	89.98	89.98	89.99	90.05	90.03	90.02	90.02	89.97	89.92	89.92	
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	

CH 89.404



DATUM RL88.75

PROPOSED LEVEL	90.649	90.648	90.618	90.475	90.325	90.365	90.471	90.365	90.325	90.475	90.541	90.571	90.572	
EXISTING LEVEL	90.04	90.04	90.01	89.96	89.96	89.95	89.89	89.95	89.96	89.97	90.04	90.08	90.09	
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	

CH 140.000

BUNDALONG DRIVE (MC02) CROSS SECTIONS

SCALE 1:200 HORI.
1:100 VERT.

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale
0 5 10 15 20m
1 : 200
0 1 2 4 6 8 10m
1 : 100

Planner
RobertsDay planning·design·place
Filename C-5C-241-10029435-RoadXS.dwg

Client
RESIMAX GROUP

Status: FOR APPROVAL
Checker: Z.STROGUSZ
Scales: 1:200 (H) 1:100 (V)
Original Issue Signatures
Drawn C.MENEZ
Original Size: A1
Designed K.ANGELES
Height Datum: AHD
Project Manager J.MUNRO
Grid: MGA
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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: BUNDALONG DRIVE CROSS SECTIONS SHEET 1 OF 2

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No.	Project No.	Issue
C-5C-241	10029435	02

100mm on Original

Last Saved: MENEZC4027 Date Plotted: 16 Aug 2021 - 01:17PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-5C\DD\C-5C-241-10029435-RoadXS.dwg

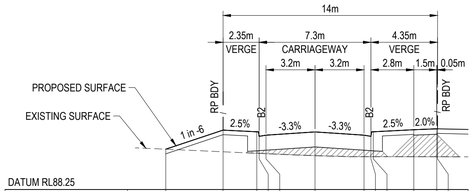
V1

LEGEND

STRUCTURAL FILL

CITY OF MELTON

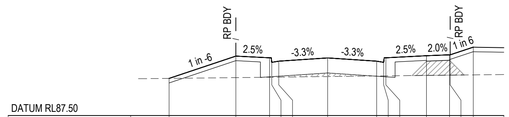
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021



DATUM RL88.25

PROPOSED LEVEL	89.567	90.190	90.135	89.985	90.025	90.132	90.025	89.985	90.135	90.202	90.232	90.233
EXISTING LEVEL	89.57	89.48	89.43	89.43	89.42	89.36	89.32	89.32	89.32	89.32	89.32	89.32
OFFSET	-9.739	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000

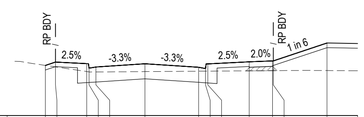
CH 217.533



DATUM RL87.50

PROPOSED LEVEL	88.713	89.440	89.385	89.235	89.275	89.382	89.275	89.235	89.385	89.452	89.482	89.483	89.733
EXISTING LEVEL	88.71	88.74	88.75	88.75	88.75	88.77	88.79	88.79	88.79	88.81	88.82	88.82	88.83
OFFSET	-10.361	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.500

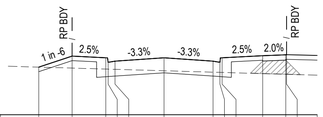
CH 267.533



DATUM RL87.00

PROPOSED LEVEL	88.637	88.746	88.695	88.545	88.585	88.692	88.575	88.535	88.685	88.752	88.783	88.784	89.367
EXISTING LEVEL	88.64	88.59	88.44	88.43	88.42	88.43	88.45	88.45	88.45	88.46	88.47	88.47	88.47
OFFSET	-5.502	-5.845	-3.800	-3.650	-3.200	0.000	3.506	3.956	4.106	6.809	8.333	9.384	11.884

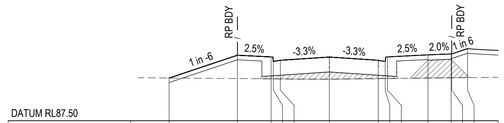
CH 313.551



DATUM RL88.50

PROPOSED LEVEL	90.053	90.415	90.360	90.210	90.250	90.357	90.250	90.210	90.360	90.427	90.457	90.458
EXISTING LEVEL	90.05	90.02	89.99	89.99	89.98	89.94	89.89	89.88	89.88	89.84	89.82	89.82
OFFSET	-8.172	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000

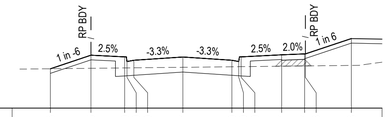
CH 202.533



DATUM RL87.50

PROPOSED LEVEL	88.894	89.638	89.583	89.433	89.473	89.580	89.473	89.433	89.583	89.650	89.680	89.681	89.852
EXISTING LEVEL	88.89	88.88	88.87	88.87	88.86	88.86	88.87	88.88	88.88	88.89	88.90	88.90	88.91
OFFSET	-10.463	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.029

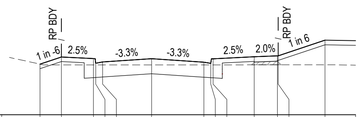
CH 254.333



DATUM RL87.25

PROPOSED LEVEL	88.533	88.975	88.920	88.770	88.810	88.917	88.810	88.770	88.920	88.987	89.017	89.018	89.518
EXISTING LEVEL	88.53	88.55	88.56	88.56	88.56	88.58	88.60	88.60	88.60	88.62	88.63	88.63	88.64
OFFSET	-8.653	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	11.000

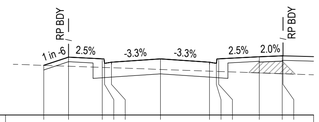
CH 298.533



DATUM RL86.75

PROPOSED LEVEL	88.402	88.634	88.582	88.432	88.472	88.578	88.465	88.425	88.575	88.642	88.672	88.673	89.183
EXISTING LEVEL	88.40	88.38	88.38	88.38	88.38	88.38	88.38	88.38	88.38	88.38	88.38	88.38	88.38
OFFSET	-7.287	-5.894	-3.800	-3.650	-3.200	0.000	3.409	3.859	4.009	6.695	8.212	8.262	11.319

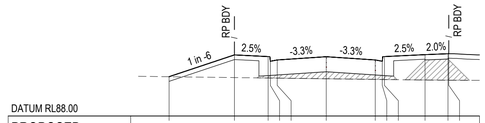
CH 321.479



DATUM RL88.75

PROPOSED LEVEL	90.369	90.639	90.584	90.434	90.474	90.580	90.474	90.434	90.584	90.650	90.680	90.681
EXISTING LEVEL	90.37	90.34	90.30	90.30	90.29	90.24	90.18	90.17	90.17	90.12	90.10	90.10
OFFSET	-7.616	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000

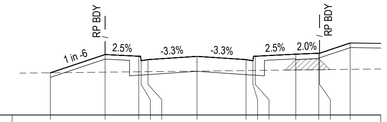
CH 187.533



DATUM RL88.00

PROPOSED LEVEL	89.281	89.992	89.937	89.787	89.827	89.934	89.827	89.787	89.937	90.004	90.034	90.035
EXISTING LEVEL	89.28	89.25	89.24	89.24	89.24	89.21	89.19	89.19	89.19	89.17	89.16	89.16
OFFSET	-10.267	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000

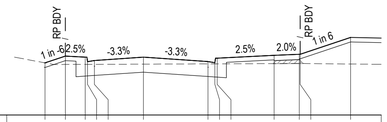
CH 230.733



DATUM RL87.25

PROPOSED LEVEL	88.627	89.223	89.168	89.018	89.058	89.164	89.058	89.018	89.168	89.234	89.264	89.265	89.599
EXISTING LEVEL	88.63	88.65	88.66	88.66	88.66	88.68	88.70	88.70	88.70	88.72	88.73	88.73	88.74
OFFSET	-9.575	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	10.000

CH 282.033



DATUM RL86.75

PROPOSED LEVEL	88.451	88.672	88.639	88.489	88.529	88.636	88.495	88.455	88.605	88.698	88.731	88.733	89.281
EXISTING LEVEL	88.45	88.40	88.40	88.40	88.40	88.41	88.42	88.42	88.42	88.43	88.43	88.43	88.41
OFFSET	-6.420	-5.096	-3.800	-3.650	-3.200	0.000	4.218	4.668	4.818	8.538	10.181	10.235	13.527

CH 317.275

BUNDALONG DRIVE (MC02) CROSS SECTIONS

SCALE 1:200 HORI.
1:100 VERT.

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale
0 5 10 15 20m
1 : 200
0 1 2 4 6 8 10m
1 : 100

Planner
RobertsDay planning·design·place
Filename C-5C-242-10029435-RoadXS.dwg

Client
RESIMAX GROUP

Status: FOR APPROVAL
Checker: Z.STROGUSZ
Scales: 1:200 (H) 1:100 (V)
Original Issue Signatures
Drawn C.MENEZ
Designed K.ANGELES
Project Manager J.MUNRO
Original Size: A1
Height Datum: AHD
Grid: MGA
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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: BUNDALONG DRIVE CROSS SECTIONS SHEET 2 OF 2

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No. C-5C-242 — Project No. 10029435 — Issue 02

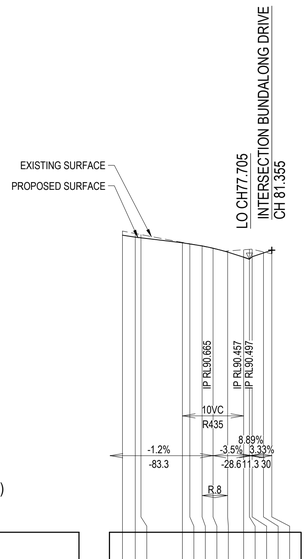
100mm on Original

Last Saved: MENEZC4027 Date Plotted: 16 Aug 2021 - 01:17PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-5C\DD\C-5C-242-10029435-RoadXS.dwg V1

NOTE:
FOR GENERAL NOTES, REFER TO DRAWING No. C-5C-002.

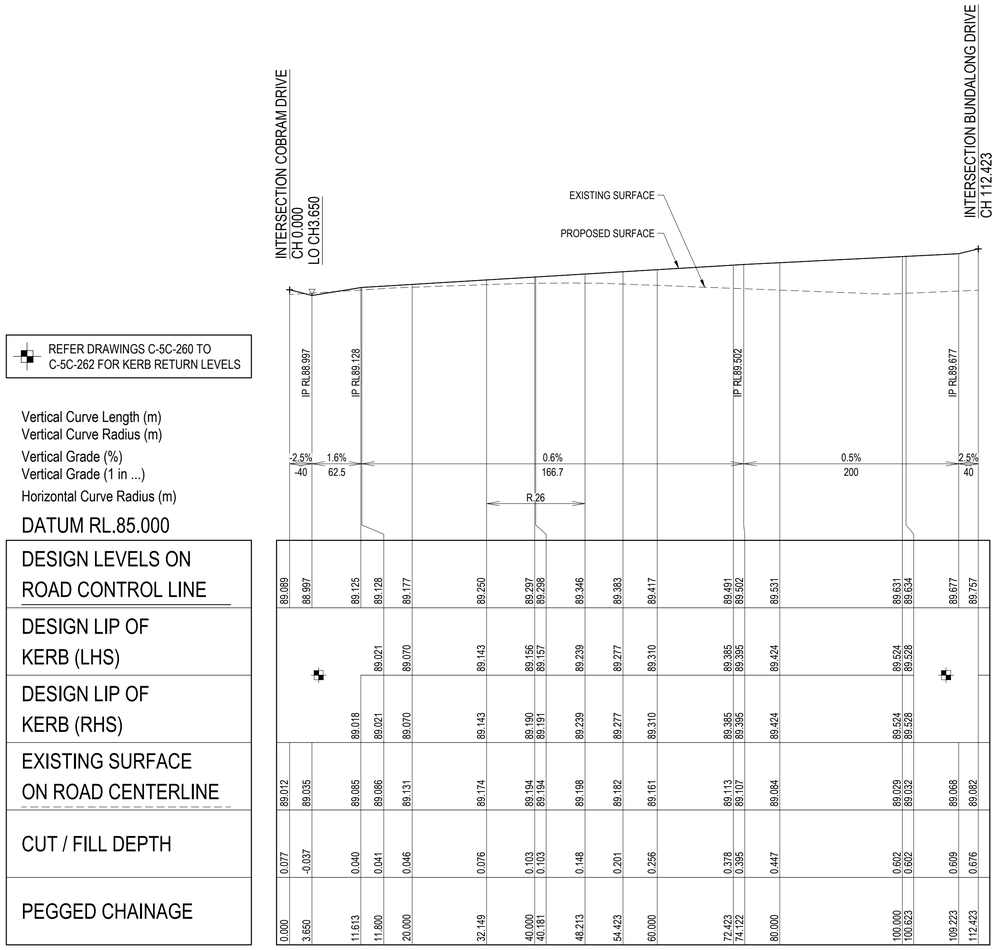
LEGEND

STRUCTURAL FILL



| | | |

NOTE:
FOR GENERAL NOTES, REFER TO DRAWING No. C-5C-002.



DOOKIE ROAD (MC05) - LONGITUDINAL SECTION

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:50

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale
0 5 10 20 30 40 50m
1 : 500
0 0.5 1 2 3 4 5m
1 : 50

Planner
RobertsDay planning·design·place
Filename C-5C-244-10029435-RoadLS.dwg

Client
RESIMAX GROUP

Status: FOR APPROVAL
Checker: Z.STROGUSZ
Scales: 1:500 (H) 1:50 (V)
Original Size: A1
Height Datum: AHD
Grid: MGA
Original Issue Signatures
Drawn C.MENEZ
Designed K.ANGELES
Project Manager J.MUNRO
© Copyright reserved

Project: EYNESBURY TOWNSHIP STAGE 5C
Title: DOOKIE ROAD LONGITUDINAL SECTION

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No. C-5C-244 — Project No. 10029435 — Issue 01

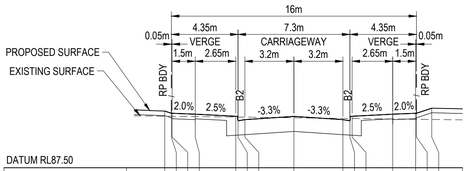
100mm on Original

Last Saved: WBMN1953 Date Plotted: 10 Aug 2021 - 03:56PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C 13\10029435-5C\DD\C-5C-244-10029435-RoadLS.dwg V1

LEGEND

STRUCTURAL FILL

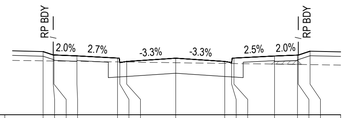
CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021



DATUM RL87.50

PROPOSED LEVEL	89.350	89.278	89.216	89.246	89.180	89.030	89.070	89.177	89.070	89.030	89.100	89.246	89.276	89.278	89.444
EXISTING LEVEL	89.18	89.18	89.18	89.17	89.15	89.15	89.15	89.13	89.11	89.11	89.11	89.09	89.08	89.08	89.08
OFFSET	-8.433	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.000

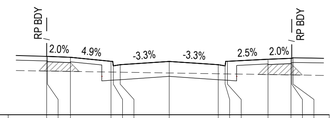
CH 20.000



DATUM RL87.50

PROPOSED LEVEL	89.561	89.452	89.450	89.420	89.349	89.199	89.199	89.239	89.346	89.239	89.199	89.349	89.416	89.446	89.447	89.576
EXISTING LEVEL	89.26	89.25	89.25	89.24	89.22	89.22	89.22	89.22	89.20	89.18	89.17	89.17	89.15	89.14	89.14	89.14
OFFSET	-8.654	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	8.772

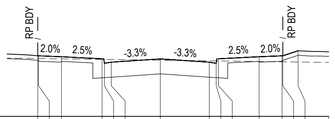
CH 48.213



DATUM RL87.75

PROPOSED LEVEL	89.656	89.655	89.625	89.495	89.345	89.385	89.491	89.385	89.345	89.495	89.561	89.591	89.592	89.606
EXISTING LEVEL	89.18	89.18	89.16	89.14	89.14	89.14	89.11	89.09	89.08	89.08	89.06	89.05	89.05	89.05
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	8.085

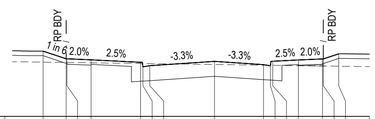
CH 72.423



DATUM RL87.25

PROPOSED LEVEL	89.228	89.227	89.197	89.131	89.081	89.021	89.128	89.021	88.981	89.131	89.197	89.227	89.228	89.395
EXISTING LEVEL	89.14	89.14	89.13	89.11	89.11	89.11	89.09	89.06	89.06	89.06	89.04	89.03	89.03	89.03
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.000

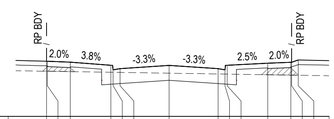
CH 11.800



DATUM RL87.50

PROPOSED LEVEL	89.631	89.381	89.380	89.348	89.267	89.117	89.157	89.298	89.191	89.151	89.301	89.343	89.375	89.376	89.543
EXISTING LEVEL	89.27	89.26	89.26	89.25	89.23	89.23	89.22	89.19	89.17	89.17	89.17	89.16	89.15	89.15	89.14
OFFSET	-11.190	-9.690	-9.637	-8.063	-4.824	-4.674	-4.224	0.000	3.200	3.650	3.800	5.479	7.053	7.106	8.106

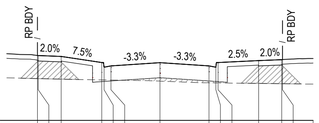
CH 40.181



DATUM RL87.75

PROPOSED LEVEL	89.551	89.550	89.520	89.420	89.270	89.310	89.417	89.310	89.270	89.420	89.486	89.516	89.518	89.591
EXISTING LEVEL	89.22	89.22	89.21	89.19	89.19	89.19	89.16	89.14	89.13	89.13	89.11	89.10	89.10	89.09
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	8.438

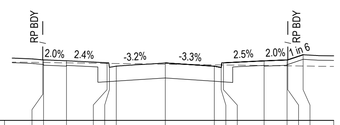
CH 60.000



DATUM RL87.75

PROPOSED LEVEL	89.867	89.866	89.836	89.637	89.487	89.527	89.634	89.527	89.487	89.637	89.704	89.734	89.735
EXISTING LEVEL	89.12	89.11	89.10	89.07	89.07	89.07	89.03	88.98	88.98	88.97	88.96	88.95	88.95
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000

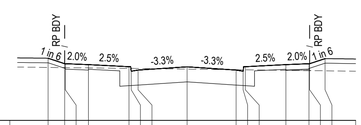
CH 100.623



DATUM RL87.25

PROPOSED LEVEL	89.228	89.226	89.196	89.132	89.082	89.022	89.125	89.018	88.978	89.128	89.194	89.224	89.226	89.382
EXISTING LEVEL	89.14	89.14	89.13	89.11	89.11	89.11	89.09	89.06	89.06	89.06	89.04	89.03	89.03	89.02
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.000

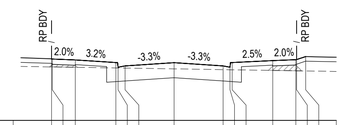
CH 11.613



DATUM RL87.50

PROPOSED LEVEL	89.530	89.351	89.349	89.319	89.253	89.103	89.143	89.250	89.143	89.103	89.253	89.319	89.349	89.351	89.517
EXISTING LEVEL	89.23	89.22	89.22	89.21	89.20	89.20	89.19	89.17	89.15	89.15	89.15	89.13	89.13	89.12	89.12
OFFSET	-9.076	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.000

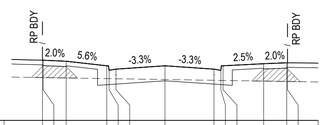
CH 32.149



DATUM RL87.50

PROPOSED LEVEL	89.504	89.503	89.473	89.387	89.237	89.277	89.383	89.277	89.237	89.387	89.453	89.483	89.484	89.584
EXISTING LEVEL	89.25	89.25	89.23	89.21	89.21	89.21	89.18	89.16	89.15	89.15	89.13	89.12	89.12	89.11
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	8.596

CH 54.423



DATUM RL87.75

PROPOSED LEVEL	89.714	89.713	89.683	89.534	89.384	89.424	89.531	89.424	89.384	89.534	89.601	89.631	89.632
EXISTING LEVEL	89.15	89.15	89.14	89.11	89.11	89.11	89.08	89.06	89.05	89.05	89.03	89.02	89.02
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000

CH 80.000

DOOKIE ROAD (MC05) CROSS SECTIONS

SCALE 1:200 HORI.
1:100 VERT.

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale
0 5 10 15 20m
1 : 200
0 1 2 4 6 8 10m
1 : 100

Planner
RobertsDay planning·design·place
Filename C-5C-245-10029435-RoadXS.dwg

Client
RESIMAX GROUP

Status: FOR APPROVAL
Checker: Z.STROGUSZ
Scales: 1:200 (H) 1:100 (V)
Original Issue Signatures
Drawn C.MENEZ
Designed K.ANGELES
Project Manager J.MUNRO
Original Size: A1
Height Datum: AHD
Grid: MGA
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Project: EYNESBURY TOWNSHIP STAGE 5C
Title: DOOKIE ROAD CROSS SECTIONS

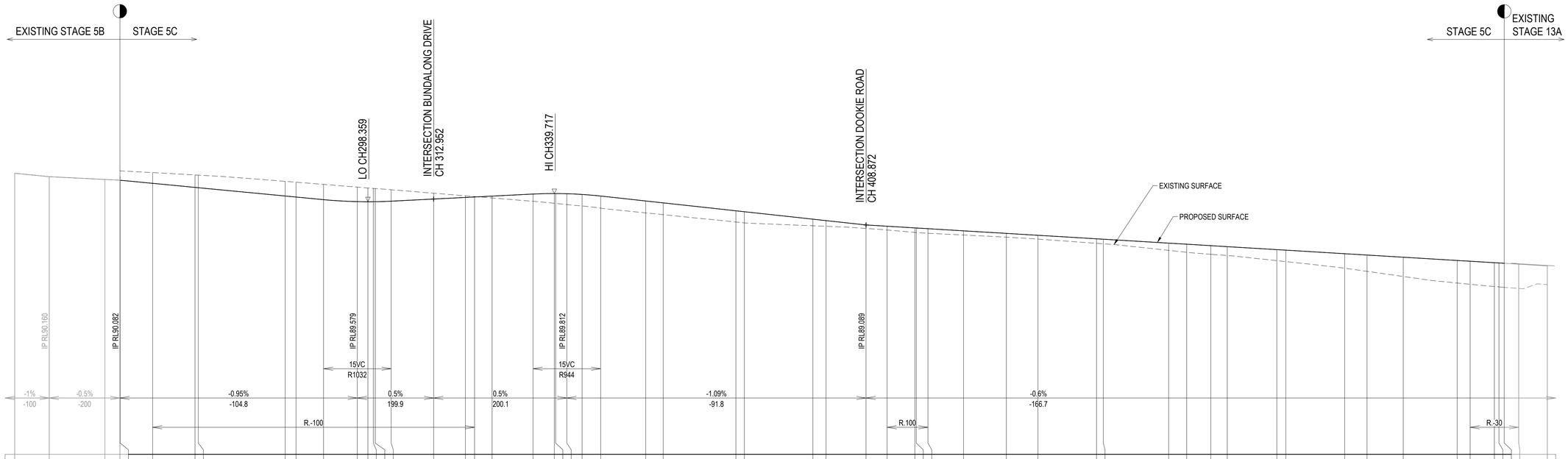
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No. C-5C-245 — Project No. 10029435 — Issue 02

100mm on Original

Last Saved: MENEZC4027 Date Plotted: 16 Aug 2021 - 01:17PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-5C\DD\C-5C-245-10029435-RoadXS.dwg V1

NOTE:
FOR GENERAL NOTES, REFER TO DRAWING No. C-5C-002.



REFER DRAWINGS C-5C-260 TO C-5C-262 FOR KERB RETURN LEVELS

Vertical Curve Length (m)
Vertical Curve Radius (m)
Vertical Grade (%)
Vertical Grade (1 in ...)
Horizontal Curve Radius (m)

DATUM RL.84.000

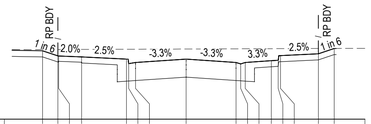
| | | |

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

LEGEND

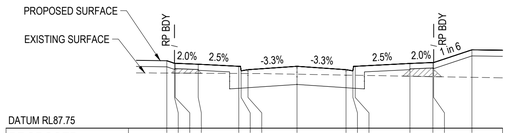
STRUCTURAL FILL



DATUM RL87.75

PROPOSED LEVEL	89.980	89.813	89.812	89.782	89.709	89.559	89.599	89.709	89.600	89.550	89.600	89.657	89.672	89.822	89.884	90.057
EXISTING LEVEL	90.02	90.02	90.02	90.02	90.03	90.03	90.03	90.04	90.04	90.04	90.05	90.05	90.05	90.05	90.05	90.06
OFFSET	-9.373	-8.373	-8.323	-6.823	-3.900	-3.750	-3.300	0.000	3.260	3.560	3.860	5.560	6.010	6.160	8.631	9.669

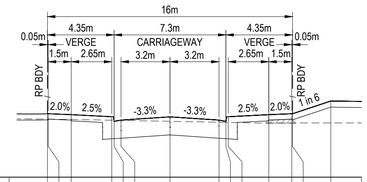
CH 282.429



DATUM RL87.75

PROPOSED LEVEL	89.950	89.867	89.866	89.836	89.769	89.619	89.659	89.766	89.659	89.619	89.769	89.859	89.889	89.890	90.307
EXISTING LEVEL	89.55	89.55	89.55	89.54	89.53	89.53	89.53	89.51	89.48	89.48	89.48	89.44	89.43	89.43	89.41
OFFSET	-8.500	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	7.372	8.875	8.925	11.425

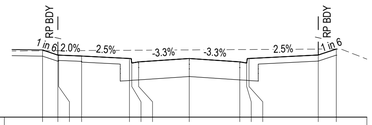
CH 345.872



DATUM RL87.25

PROPOSED LEVEL	89.318	89.317	89.287	89.221	89.071	89.111	89.217	89.111	89.071	89.221	89.287	89.317	89.318	89.735
EXISTING LEVEL	89.14	89.14	89.13	89.11	89.11	89.10	89.07	89.04	89.04	89.04	89.01	89.02	89.02	89.02
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	10.500

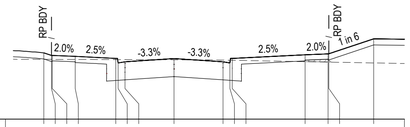
CH 397.072



DATUM RL88.00

PROPOSED LEVEL	90.192	90.025	90.024	89.994	89.916	89.766	89.806	89.916	89.806	89.956	89.916	90.029	90.225
EXISTING LEVEL	90.17	90.17	90.17	90.17	90.18	90.18	90.18	90.19	90.21	90.21	90.21	90.22	90.22
OFFSET	-9.574	-8.574	-8.524	-7.024	-3.900	-3.750	-3.300	0.000	3.300	3.750	3.900	8.426	9.600

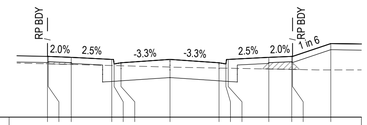
CH 260.733



DATUM RL87.75

PROPOSED LEVEL	89.913	89.830	89.829	89.799	89.732	89.582	89.622	89.729	89.622	89.582	89.732	89.851	89.881	89.883	90.371
EXISTING LEVEL	89.70	89.70	89.70	89.70	89.69	89.69	89.69	89.69	89.68	89.67	89.67	89.63	89.61	89.61	89.58
OFFSET	-8.500	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	8.561	10.063	10.113	13.044

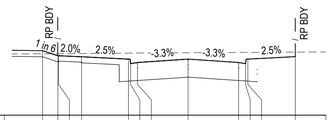
CH 325.922



DATUM RL87.50

PROPOSED LEVEL	89.484	89.482	89.452	89.386	89.236	89.276	89.383	89.276	89.236	89.386	89.452	89.482	89.484	89.900
EXISTING LEVEL	89.24	89.24	89.22	89.18	89.18	89.18	89.13	89.10	89.10	89.10	89.07	89.06	89.06	89.04
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	10.500

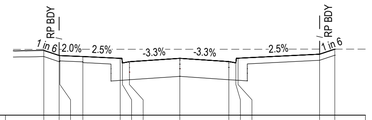
CH 381.872



DATUM RL88.25

PROPOSED LEVEL	90.356	90.189	90.188	90.158	90.081	89.931	89.971	90.081	89.971	89.931	90.081	90.159
EXISTING LEVEL	90.25	90.26	90.26	90.26	90.27	90.28	90.28	90.29	90.30	90.30	90.30	90.31
OFFSET	-9.500	-8.500	-8.450	-6.950	-3.900	-3.750	-3.300	0.000	3.300	3.750	3.900	7.000

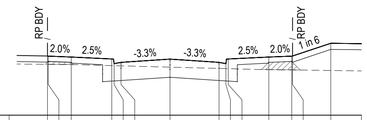
CH 243.384



DATUM RL87.75

PROPOSED LEVEL	89.864	89.697	89.696	89.666	89.605	89.455	89.495	89.605	89.498	89.458	89.608	89.741	89.906
EXISTING LEVEL	89.90	89.90	89.90	89.90	89.90	89.90	89.90	89.90	89.90	89.90	89.90	89.91	89.91
OFFSET	-8.887	-7.887	-7.837	-6.335	-3.900	-3.750	-3.300	0.000	3.200	3.650	3.800	9.125	10.111

CH 299.569



DATUM RL87.75

PROPOSED LEVEL	89.680	89.679	89.649	89.582	89.432	89.472	89.579	89.472	89.432	89.582	89.649	89.679	89.680	90.096
EXISTING LEVEL	89.41	89.41	89.40	89.37	89.37	89.36	89.32	89.28	89.27	89.27	89.24	89.23	89.23	89.21
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	10.500

CH 363.872

COBRAM DRIVE (MC07) CROSS SECTIONS

SCALE 1:200 HORI.
1:100 VERT.

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale
0 5 10 15 20m
1 : 200
0 1 2 4 6 8 10m
1 : 100

Planner: RobertsDay planning·design·place

Filename C-5C-247-10029435-RoadXS.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
Checker: Z.STROGUSZ
Scales: 1:500 (H) 1:100 (V)
Original Issue Signatures
Drawn C.MENEZ
Original Size: A1
Designed K.ANGELES
Height Datum: AHD
Project Manager J.MUNRO
Grid: MGA
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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: COBRAM DRIVE CROSS SECTIONS SHEET 1 OF 2

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
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Drawing No. C-5C-247 — Project No. 10029435 — Issue 02

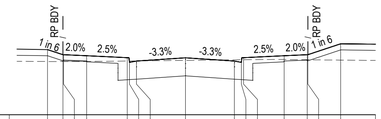
100mm on Original

Last Saved: MENEZC4027 Date Plotted: 17 Aug 2021 - 11:56AM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-5C\DD\C-5C-247-10029435-RoadXS.dwg V1

LEGEND

STRUCTURAL FILL

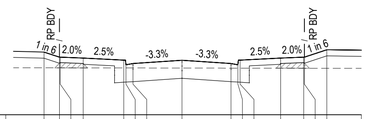
CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021



DATUM RL87.00

PROPOSED LEVEL	89.127	88.961	88.959	88.929	88.863	88.713	88.753	88.860	88.753	88.713	88.863	88.929	88.959	88.961	89.317
EXISTING LEVEL	88.74	88.74	88.74	88.74	88.75	88.76	88.76	88.78	88.79	88.80	88.80	88.80	88.80	88.80	88.78
OFFSET	-9.000	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	10.141

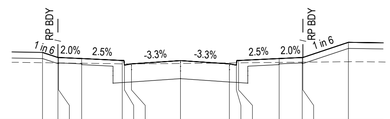
CH 447.002



DATUM RL86.75

PROPOSED LEVEL	88.797	88.631	88.629	88.599	88.533	88.383	88.423	88.530	88.423	88.383	88.533	88.599	88.629	88.631	88.874
EXISTING LEVEL	88.28	88.28	88.28	88.28	88.28	88.28	88.28	88.28	88.27	88.27	88.27	88.27	88.27	88.27	88.27
OFFSET	-9.000	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.457

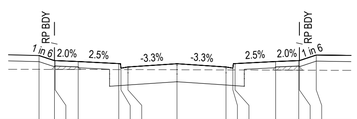
CH 502.002



DATUM RL87.00

PROPOSED LEVEL	89.226	89.060	89.058	89.028	88.962	88.812	88.852	88.959	88.852	88.812	88.962	89.028	89.058	89.060	89.555
EXISTING LEVEL	88.89	88.88	88.88	88.87	88.85	88.85	88.85	88.87	88.88	88.89	88.89	88.90	88.91	88.91	88.92
OFFSET	-9.000	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	10.971

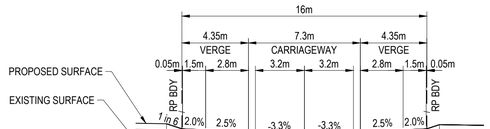
CH 430.502



DATUM RL86.75

PROPOSED LEVEL	88.875	88.709	88.707	88.677	88.611	88.461	88.501	88.608	88.501	88.461	88.611	88.677	88.707	88.709	88.891
EXISTING LEVEL	88.42	88.42	88.42	88.42	88.42	88.42	88.42	88.41	88.40	88.40	88.40	88.40	88.40	88.40	88.39
OFFSET	-9.000	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.096

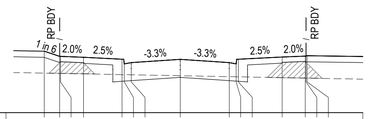
CH 489.002



DATUM RL86.50

PROPOSED LEVEL	88.552	88.385	88.384	88.354	88.288	88.138	88.178	88.285	88.178	88.138	88.288	88.354	88.384	88.385	88.522
EXISTING LEVEL	87.84	87.83	87.83	87.82	87.80	87.80	87.80	87.77	87.75	87.75	87.74	87.74	87.74	87.74	87.74
OFFSET	-9.000	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	8.819

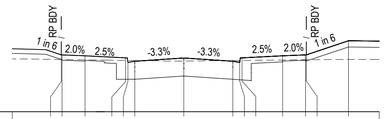
CH 542.884



DATUM RL86.50

PROPOSED LEVEL	88.503	88.337	88.336	88.305	88.243	88.093	88.133	88.239	88.133	88.093	88.243	88.314	88.344	88.345	88.357
EXISTING LEVEL	87.79	87.78	87.78	87.76	87.74	87.74	87.74	87.70	87.67	87.67	87.67	87.64	87.63	87.63	87.63
OFFSET	-8.873	-7.873	-7.823	-6.314	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.660	8.169	8.219	8.287

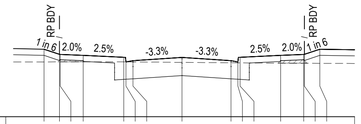
CH 550.437



DATUM RL87.25

PROPOSED LEVEL	89.107	89.106	89.076	89.009	88.860	88.900	89.006	88.900	88.860	88.892	89.010	89.076	89.106	89.107	89.566
EXISTING LEVEL	88.96	88.96	88.94	88.93	88.92	88.92	88.90	88.92	88.92	88.92	88.94	88.94	88.95	88.95	88.96
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000		10.754

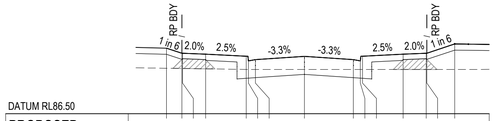
CH 422.604



DATUM RL86.75

PROPOSED LEVEL	88.953	88.787	88.785	88.755	88.689	88.539	88.579	88.686	88.579	88.539	88.689	88.755	88.785	88.787	88.953
EXISTING LEVEL	88.54	88.54	88.54	88.54	88.54	88.54	88.54	88.53	88.51	88.51	88.51	88.50	88.50	88.50	88.49
OFFSET	-9.000	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.000

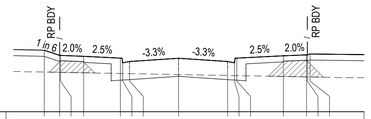
CH 476.002



DATUM RL86.50

PROPOSED LEVEL	88.641	88.474	88.473	88.443	88.377	88.227	88.267	88.374	88.267	88.227	88.377	88.443	88.473	88.474	88.778
EXISTING LEVEL	87.98	87.98	87.98	87.97	87.95	87.95	87.95	87.95	87.95	87.95	87.95	87.95	87.95	87.95	87.95
OFFSET	-9.000	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.819

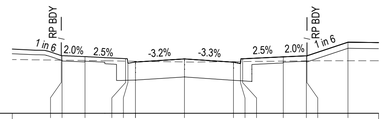
CH 528.052



DATUM RL86.50

PROPOSED LEVEL	88.508	88.341	88.340	88.309	88.249	88.099	88.139	88.246	88.139	88.099	88.249	88.305	88.356	88.357	88.387
EXISTING LEVEL	87.79	87.79	87.78	87.77	87.75	87.75	87.74	87.71	87.68	87.68	87.68	87.65	87.64	87.64	87.64
OFFSET	-8.765	-7.765	-7.714	-6.198	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.839	8.355	8.405	8.588

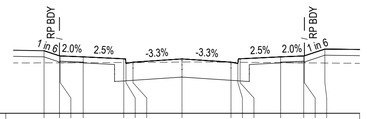
CH 549.287



DATUM RL87.25

PROPOSED LEVEL	89.132	89.131	89.100	89.032	88.882	88.923	89.024	88.917	88.877	88.894	89.027	89.093	89.123	89.124	89.570
EXISTING LEVEL	88.98	88.98	88.97	88.95	88.95	88.95	88.92	88.94	88.94	88.94	88.95	88.95	88.96	88.96	88.96
OFFSET	-8.046	-7.996	-6.495	-3.844	-3.694	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000		10.674

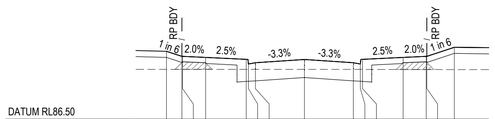
CH 419.699



DATUM RL87.00

PROPOSED LEVEL	89.040	88.874	88.872	88.842	88.776	88.626	88.666	88.773	88.666	88.626	88.776	88.842	88.872	88.874	89.096
EXISTING LEVEL	88.65	88.65	88.65	88.65	88.66	88.66	88.66	88.67	88.67	88.66	88.66	88.65	88.65	88.65	88.64
OFFSET	-9.000	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.335

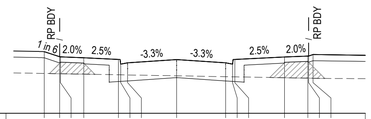
CH 461.502



DATUM RL86.50

PROPOSED LEVEL	88.719	88.552	88.551	88.521	88.455	88.305	88.345	88.452	88.345	88.305	88.455	88.521	88.551	88.552	88.850
EXISTING LEVEL	88.13	88.13	88.13	88.13	88.13	88.13	88.13	88.13	88.13	88.13	88.13	88.13	88.12	88.12	88.12
OFFSET	-9.000	-8.000	-7.950	-6.450	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.788

CH 515.052



DATUM RL86.50

PROPOSED LEVEL	88.511	88.344	88.343	88.312	88.256	88.106	88.146	88.252	88.146	88.106	88.256	88.337	88.367	88.368	88.416
EXISTING LEVEL	87.80	87.79	87.79	87.78	87.76	87.76	87.75	87.72	87.69	87.69	87.69	87.66	87.65	87.65	87.64
OFFSET	-8.641	-7.641	-7.590	-6.066	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	7.045	8.569	8.620	8.903

CH 548.268

COBRAM DRIVE (MC07) CROSS SECTIONS

SCALE 1:200 HORI.
1:100 VERT.

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

100mm on Original

Scale
0 5 10 15 20m
1 : 200
0 1 2 4 6 8 10m
1 : 100

Planner
RobertsDay planning·design·place
Filename C-5C-248-10029435-RoadXS.dwg

Client
RESIMAX GROUP

Status: FOR APPROVAL
Checker: Z.STROGUSZ
Scales: 1:200 (H) 1:100 (V)
Original Size: A1
Height Datum: AHD
Grid: MGA
Original Issue Signatures
Drawn: C.MENEZ
Designed: K.ANGELES
Project Manager: J.MUNRO
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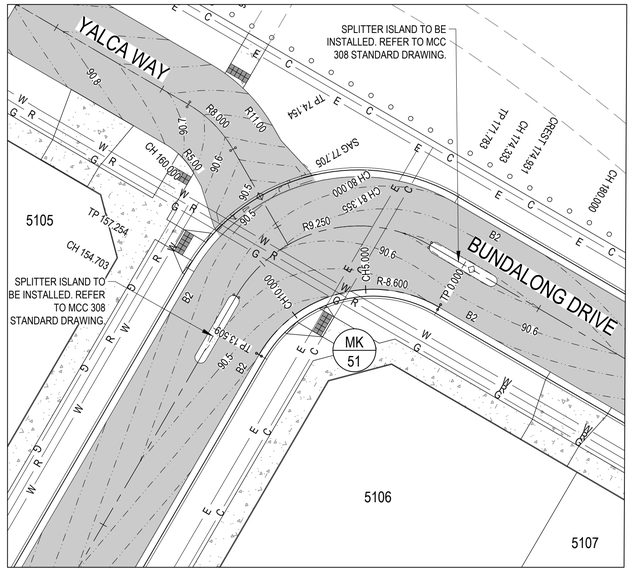
Project: EYNESBURY TOWNSHIP STAGE 5C

Title: COBRAM DRIVE CROSS SECTIONS SHEET 2 OF 2

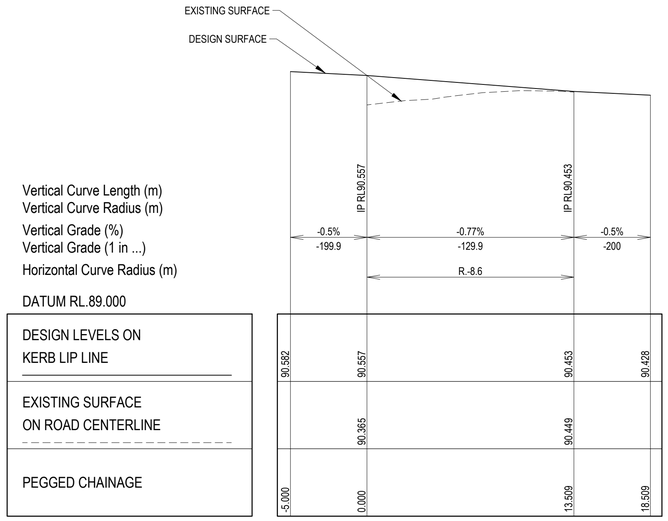
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No.	Project No.	Issue
C-5C-248	10029435	02



BUNDALONG DRIVE - LOT 5106 INTERSECTION DETAIL

SCALE 1:200



MK51 - LONGITUDINAL SECTION

SCALE: HORIZONTAL - 1:200
VERTICAL - 1:20

APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

LEGEND

5.0	PROPOSED SURFACE CONTOURS
5.0	EXISTING SURFACE CONTOURS
	PROPOSED KERB & CHANNEL
	PROPOSED STORMWATER DRAINAGE
	PROPOSED ROAD PAVEMENT
	PROPOSED CONCRETE FOOTPATH/DRIVEWAY
W	PROPOSED WATER RETICULATION
R	PROPOSED RECYCLED WATER RETICULATION
E	PROPOSED ELECTRICITY UNDER GROUND
C	PROPOSED COMMUNICATIONS
G	PROPOSED GAS RETICULATION
FUTS	FUTURE SEWER RETICULATION
FUTW	FUTURE WATER RETICULATION
FUTR	FUTURE RECYCLED WATER RETICULATION
FUTC	FUTURE COMMUNICATIONS
FUTE	FUTURE ELECTRICAL UNDER GROUND
FUTG	FUTURE GAS RETICULATION

NOTES:

REFER TO SHEET C-5C-002 FOR GENERAL NOTES.

CONTROL LINE SETOUT TABLE - MK51

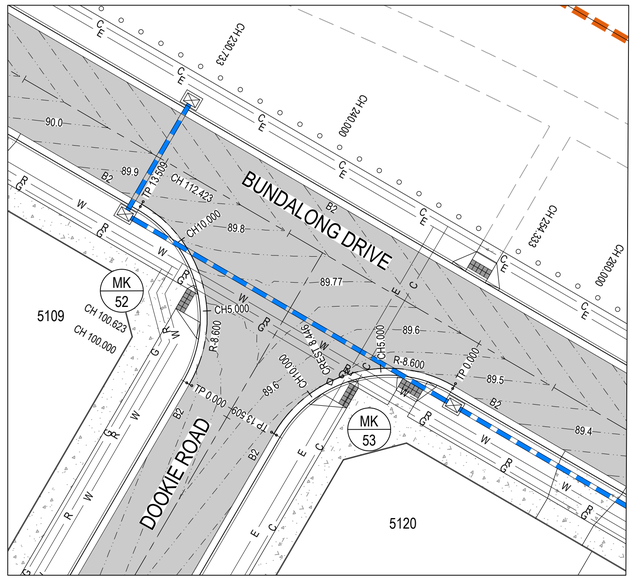
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284467.495	5815326.664	90.557	315°37'30.00"			
IP 2	6.754	284461.480	5815332.811	90.505		R = -8.600	13.509	90°00'00.00"
IP 3	13.509	284455.333	5815326.797	90.453	225°37'30.00"			

CONTROL LINE SETOUT TABLE - MK52

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284506.805	5815274.189	89.527	45°37'30.00"			
IP 2	6.754	284512.953	5815280.203	89.677		R = -8.600	13.509	90°00'00.00"
IP 3	13.509	284506.938	5815286.350	89.827	315°37'30.00"			

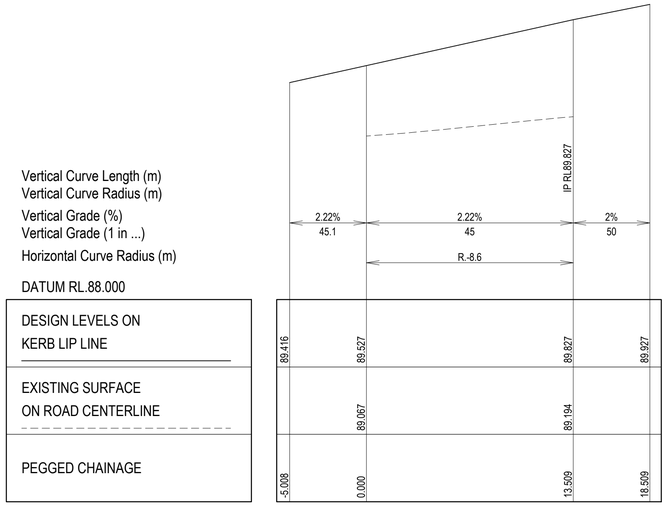
CONTROL LINE SETOUT TABLE - MK53

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284523.443	5815269.482	89.473	315°37'30.00"			
IP 2	6.754	284517.428	5815275.629	89.541		R = -8.600	13.509	90°00'00.00"
IP 3	13.509	284511.281	5815269.614	89.527	225°37'30.00"			



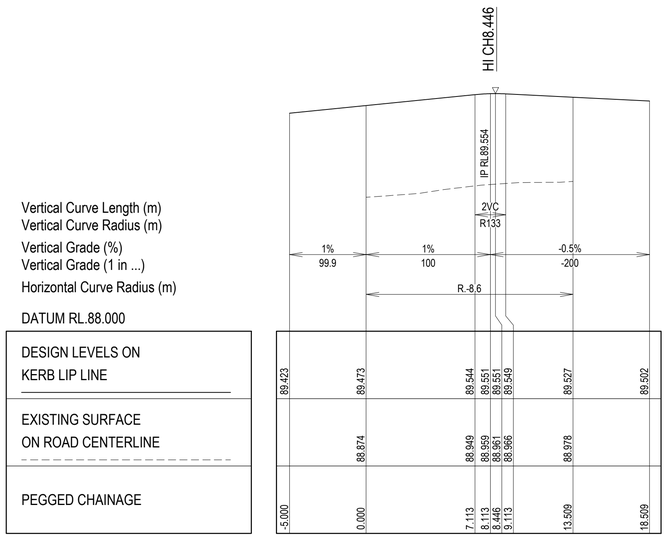
BUNDALONG DRIVE - DOOKIE ROAD INTERSECTION DETAIL

SCALE 1:200



MK52 - LONGITUDINAL SECTION

SCALE: HORIZONTAL - 1:200
VERTICAL - 1:20



MK53 - LONGITUDINAL SECTION

SCALE: HORIZONTAL - 1:200
VERTICAL - 1:20

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

100mm on Original

Scale: 1 : 200 (0, 5, 10, 15, 20m); 1 : 20 (0, 0.5, 1, 1.5, 2m)

Planner: RobertsDay planning·design·place

Filename C-5C-260-10029435-Intersection.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures: Drawn C.MENEZ; Designed K.ANGELES; Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: INTERSECTION DETAILS SHEET 1 OF 3

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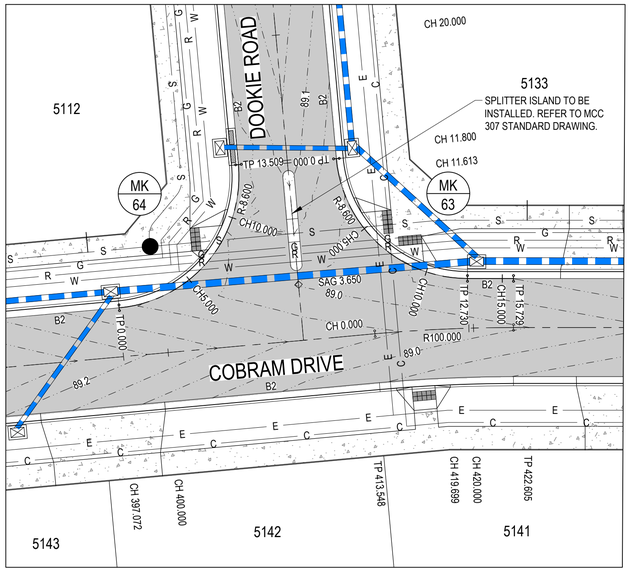
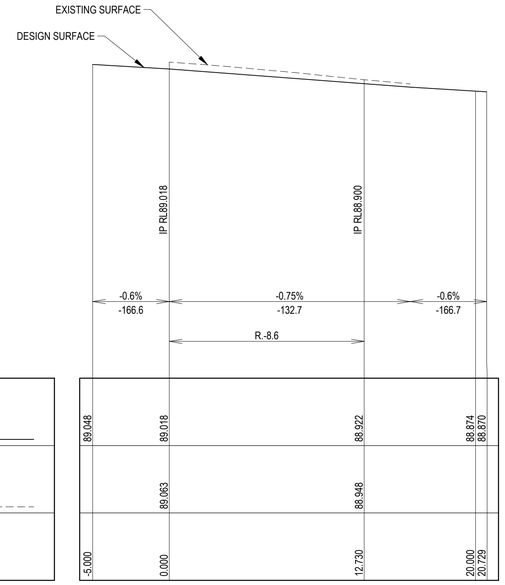
Drawing No. C-5C-260 — Project No. 10029435 — Issue 01



COBRAM DRIVE - DOOKIE ROAD INTERSECTION DETAIL

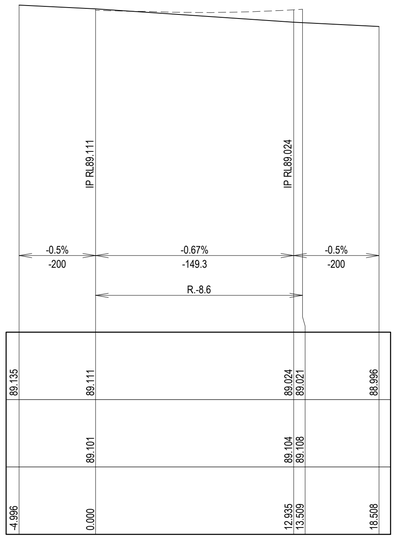
SCALE 1:200



Vertical Curve Length (m)
Vertical Curve Radius (m)
Vertical Grade (%)
Vertical Grade (1 in ...)
Horizontal Curve Radius (m)
DATUM RL.87.000
DESIGN LEVELS ON KERB LIP LINE
EXISTING SURFACE ON ROAD CENTERLINE
PEGGED CHAINAGE

MK63 - LONGITUDINAL SECTION

SCALE: HORIZONTAL - 1:200
VERTICAL - 1:20



Vertical Curve Length (m)
Vertical Curve Radius (m)
Vertical Grade (%)
Vertical Grade (1 in ...)
Horizontal Curve Radius (m)
DATUM RL.87.000
DESIGN LEVELS ON KERB LIP LINE
EXISTING SURFACE ON ROAD CENTERLINE
PEGGED CHAINAGE

MK64 - LONGITUDINAL SECTION

SCALE: HORIZONTAL - 1:200
VERTICAL - 1:20

LEGEND

- 5.0 — PROPOSED SURFACE CONTOURS
- 5.0 — EXISTING SURFACE CONTOURS
- PROPOSED KERB & CHANNEL
- PROPOSED STORMWATER DRAINAGE
- PROPOSED ROAD PAVEMENT
- PROPOSED CONCRETE FOOTPATH/DRIVEWAY
- W — PROPOSED WATER RETICULATION
- R — PROPOSED RECYCLED WATER RETICULATION
- E — PROPOSED ELECTRICITY UNDER GROUND
- C — PROPOSED COMMUNICATIONS
- G — PROPOSED GAS RETICULATION
- FUTS — FUTURE SEWER RETICULATION
- FUTW — FUTURE WATER RETICULATION
- FUTR — FUTURE RECYCLED WATER RETICULATION
- FUTC — FUTURE COMMUNICATIONS
- FUTE — FUTURE ELECTRICAL UNDER GROUND
- FUTG — FUTURE GAS RETICULATION

NOTES:

REFER TO SHEET C-5C-002 FOR GENERAL NOTES.

CONTROL LINE SETOUT TABLE - MK63

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284463.682	5815200.502	89.018	190°13'26.87"			
IP 2	6.365	284462.288	5815192.772	88.970		R = -8.600	12.730	84°48'40.29"
CT	12.730	284469.860	5815190.685	88.922	105°24'46.58"			
IP 3	15.729	284472.752	5815189.888	88.900	105°24'46.58"			

CONTROL LINE SETOUT TABLE - MK64

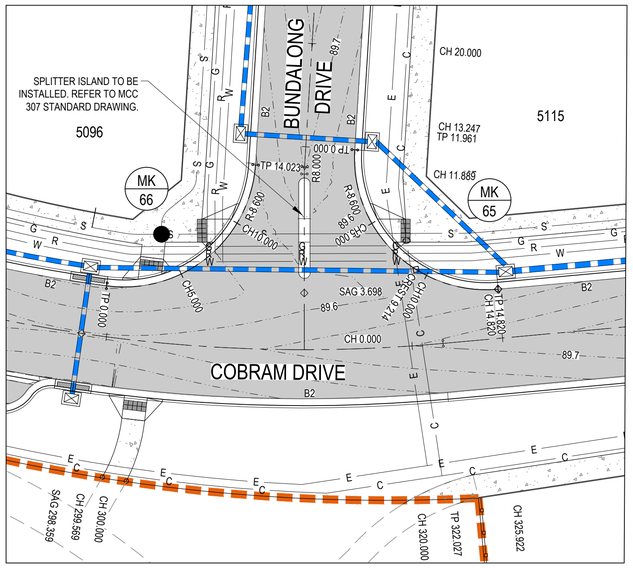
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284447.427	5815194.885	89.111	100°13'26.87"			
IP 2	6.754	284455.891	5815193.359	89.065		R = -8.600	13.509	90°00'00.00"
IP 3	13.509	284457.417	5815201.822	89.021	10°13'26.87"			

CONTROL LINE SETOUT TABLE - MK65

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284370.800	5815218.772	89.604	198°57'40.48"			
IP 2	7.410	284367.543	5815209.293	89.641		R = -8.600	14.820	98°44'13.61"
IP 3	14.820	284377.407	5815207.514	89.622	100°13'26.87"			

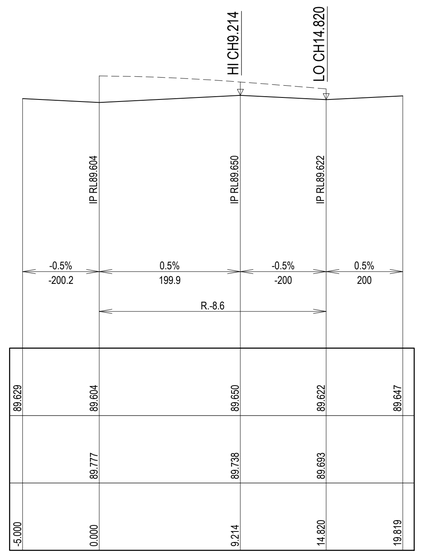
CONTROL LINE SETOUT TABLE - MK66

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284352.830	5815214.516	89.495	113°03'06.20"			
IP 2	7.011	284361.230	5815210.941	89.545		R = -8.600	14.023	93°25'23.72"
IP 3	14.023	284364.297	5815219.541	89.596	19°37'42.48"			



BUNDALONG DRIVE - COBRAM DRIVE INTERSECTION DETAIL

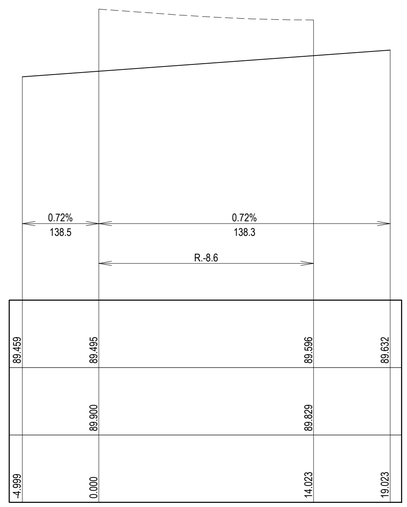
SCALE 1:200



Vertical Curve Length (m)
Vertical Curve Radius (m)
Vertical Grade (%)
Vertical Grade (1 in ...)
Horizontal Curve Radius (m)
DATUM RL.88.000
DESIGN LEVELS ON KERB LIP LINE
EXISTING SURFACE ON ROAD CENTERLINE
PEGGED CHAINAGE

MK65 - LONGITUDINAL SECTION

SCALE: HORIZONTAL - 1:200
VERTICAL - 1:20



Vertical Curve Length (m)
Vertical Curve Radius (m)
Vertical Grade (%)
Vertical Grade (1 in ...)
Horizontal Curve Radius (m)
DATUM RL.88.000
DESIGN LEVELS ON KERB LIP LINE
EXISTING SURFACE ON ROAD CENTERLINE
PEGGED CHAINAGE

MK66 - LONGITUDINAL SECTION

SCALE: HORIZONTAL - 1:200
VERTICAL - 1:20

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

100mm on Original

Scale
0 5 10 15 20m
1 : 200
0 0.5 1 1.5 2m
1 : 20

Planner: RobertsDay planning·design·place

Filename C-5C-261-10029435-Intersection.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
Checker: Z.STROGUSZ
Scales: 1:200 (H) 1:20 (V)
Original Issue Signatures: Drawn C.MENEZ; Designed K.ANGELES; Project Manager J.MUNRO
Original Size: A1
Height Datum: AHD
Grid: MGA
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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: INTERSECTION DETAILS SHEET 2 OF 3

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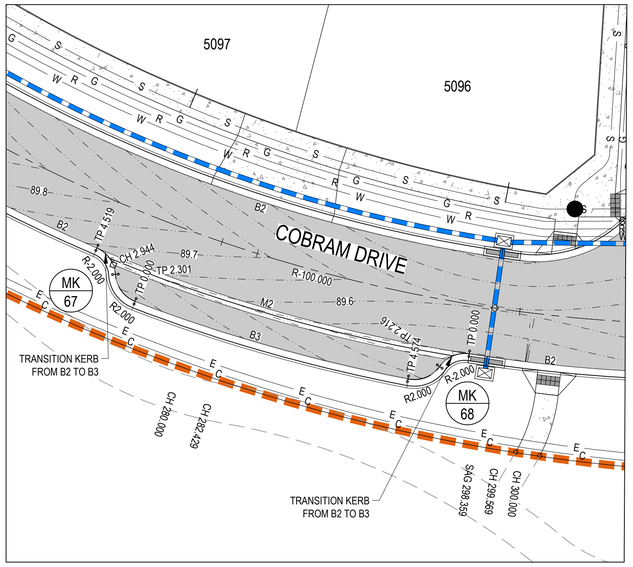
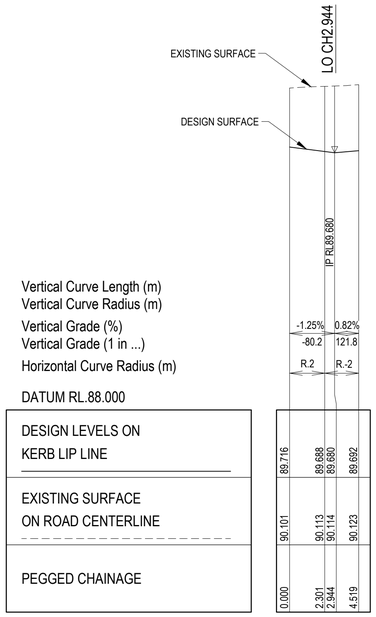
Drawing No.	Project No.	Issue
C-5C-261	10029435	02



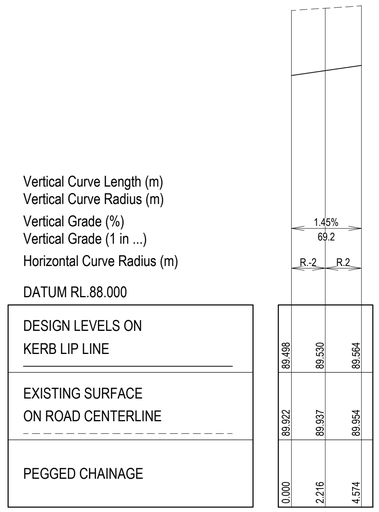
COBRAM DRIVE - LOT 5096 INTERSECTION DETAIL

SCALE 1:200



MK67 - LONGITUDINAL SECTION

SCALE: HORIZONTAL - 1:200
VERTICAL - 1:20



MK68 - LONGITUDINAL SECTION

SCALE: HORIZONTAL - 1:200
VERTICAL - 1:20

LEGEND

- 5.0 — PROPOSED SURFACE CONTOURS
- 5.0 — EXISTING SURFACE CONTOURS
- PROPOSED KERB & CHANNEL
- PROPOSED STORMWATER DRAINAGE
- PROPOSED ROAD PAVEMENT
- PROPOSED CONCRETE FOOTPATH/DRIVEWAY
- W — PROPOSED WATER RETICULATION
- R — PROPOSED RECYCLED WATER RETICULATION
- E — PROPOSED ELECTRICITY UNDER GROUND
- C — PROPOSED COMMUNICATIONS
- G — PROPOSED GAS RETICULATION
- FUTS — FUTURE SEWER RETICULATION
- FUTW — FUTURE WATER RETICULATION
- FUTR — FUTURE RECYCLED WATER RETICULATION
- FUTC — FUTURE COMMUNICATIONS
- FUTE — FUTURE ELECTRICAL UNDER GROUND
- FUTG — FUTURE GAS RETICULATION

NOTES:

REFER TO SHEET C-5C-002 FOR GENERAL NOTES.

CONTROL LINE SETOUT TABLE - MK67

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284327.894	5815218.634	89.716	306°13'02.21"			
IP 2	1.151	284326.848	5815219.401	89.702		R = 2.000	2.301	65°55'45.58"
IP 3	2.301	284327.121	5815220.669	89.688				
IP 4	3.410	284327.382	5815221.879	89.683		R = -2.000	2.218	63°32'54.60"
IP 5	4.519	284326.415	5815222.653	89.692	308°38'31.92"			

CONTROL LINE SETOUT TABLE - MK68

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284348.015	5815209.535	89.498	293°49'59.83"			
IP 2	1.108	284346.883	5815210.035	89.514		R = -2.000	2.216	63°28'56.31"
IP 3	2.216	284345.930	5815209.246	89.530				
IP 4	3.395	284344.900	5815208.393	89.547		R = 2.000	2.358	67°32'50.56"
IP 5	4.574	284343.718	5815209.019	89.564	297°55'00.70"			

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale: 1 : 200 (0 5 10 15 20m); 1 : 20 (0 0.5 1 1.5 2m)

Planner: RobertsDay planning·design·place

Filename C-5C-262-10029435-Intersection.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
Checker: Z.STROGUSZ
Scales: 1:500
Original Issue Signatures: Drawn C.MENEZ; Designed K.ANGELES; Project Manager J.MUNRO
Original Size: A1
Height Datum: AHD
Grid: MGA

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: INTERSECTION DETAILS SHEET 3 OF 3

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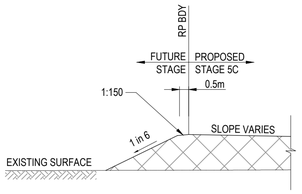
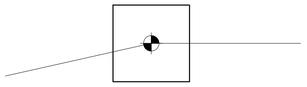
Drawing No. C-5C-262 — Project No. 10029435 — Issue 01

100mm on Original

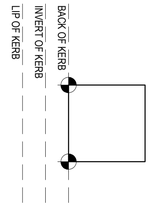
Last Saved: WBMN1953 Date Plotted: 10 Aug 2021 - 03:55PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-5C\DD\C-5C-262-10029435-Intersection.dwg V1



TYPICAL SECTION
NOT TO SCALE



PIT SETOUT DETAIL
NOT TO SCALE



PIT SETOUT POINT DETAIL WITHIN FUTURE STAGE
NOT TO SCALE

CITY OF MELTON
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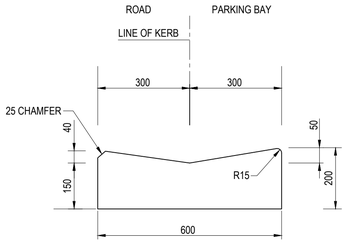
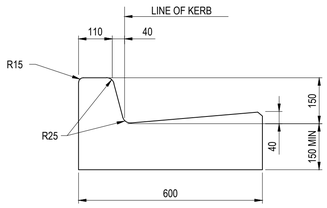
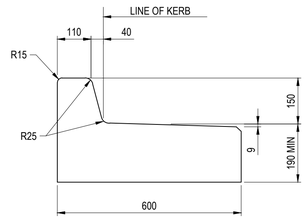
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021



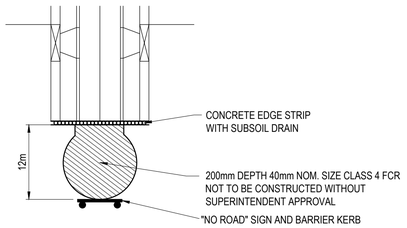
M2 KERB DETAIL
1:10



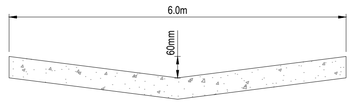
B2 (600mm) KERB DETAIL
1:10



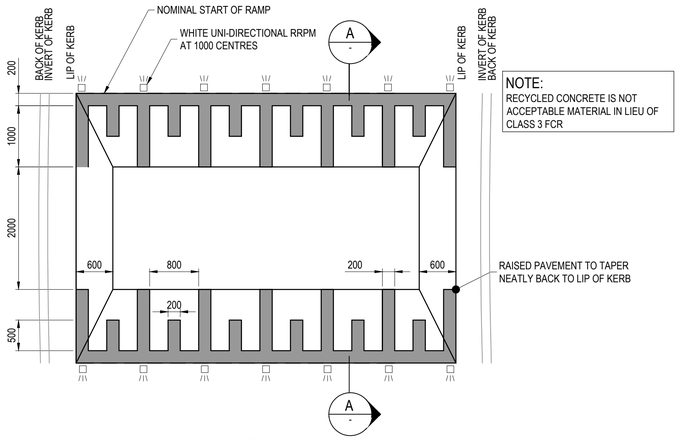
B3 (600mm) MODIFIED KERB DETAIL
1:10



TYPICAL TEMPORARY TURN AREA DETAIL
NOT TO SCALE

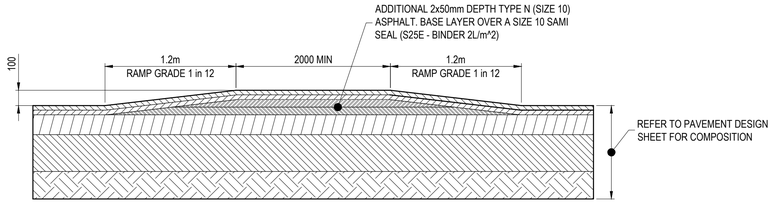


TYPICAL SECTION - DRAIN DETAIL
NOT TO SCALE



NOTE:
RECYCLED CONCRETE IS NOT ACCEPTABLE MATERIAL IN LIEU OF CLASS 3 FCR

LINE MARKING FOR RAISED PAVEMENTS
NOT TO SCALE



FLAT TOP RAISED PAVEMENT
SECTION A-A
1:10

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale: 0 100 200 400 600 800 1000mm — 1 : 10

Planner: RobertsDay planning·design·place

Filename C-5C-280-10029435-TypicalDetailsSheet1.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
Checker: Z.STROGUSZ
Scales: AS SHOWN
Original Issue Signatures: Drawn C.MENEZ; Designed K.ANGELES; Project Manager J.MUNRO
Original Size: A1
Height Datum: AHD
Grid: MGA
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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: TYPICAL DETAILS SHEET 1 OF 2

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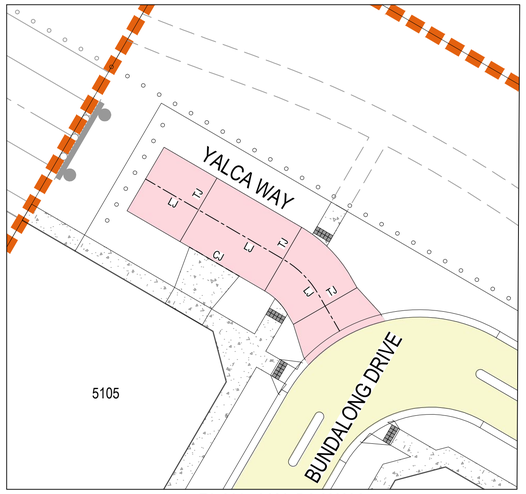
Drawing No. C-5C-280 — Project No. 10029435 — Issue 01

100mm on Original

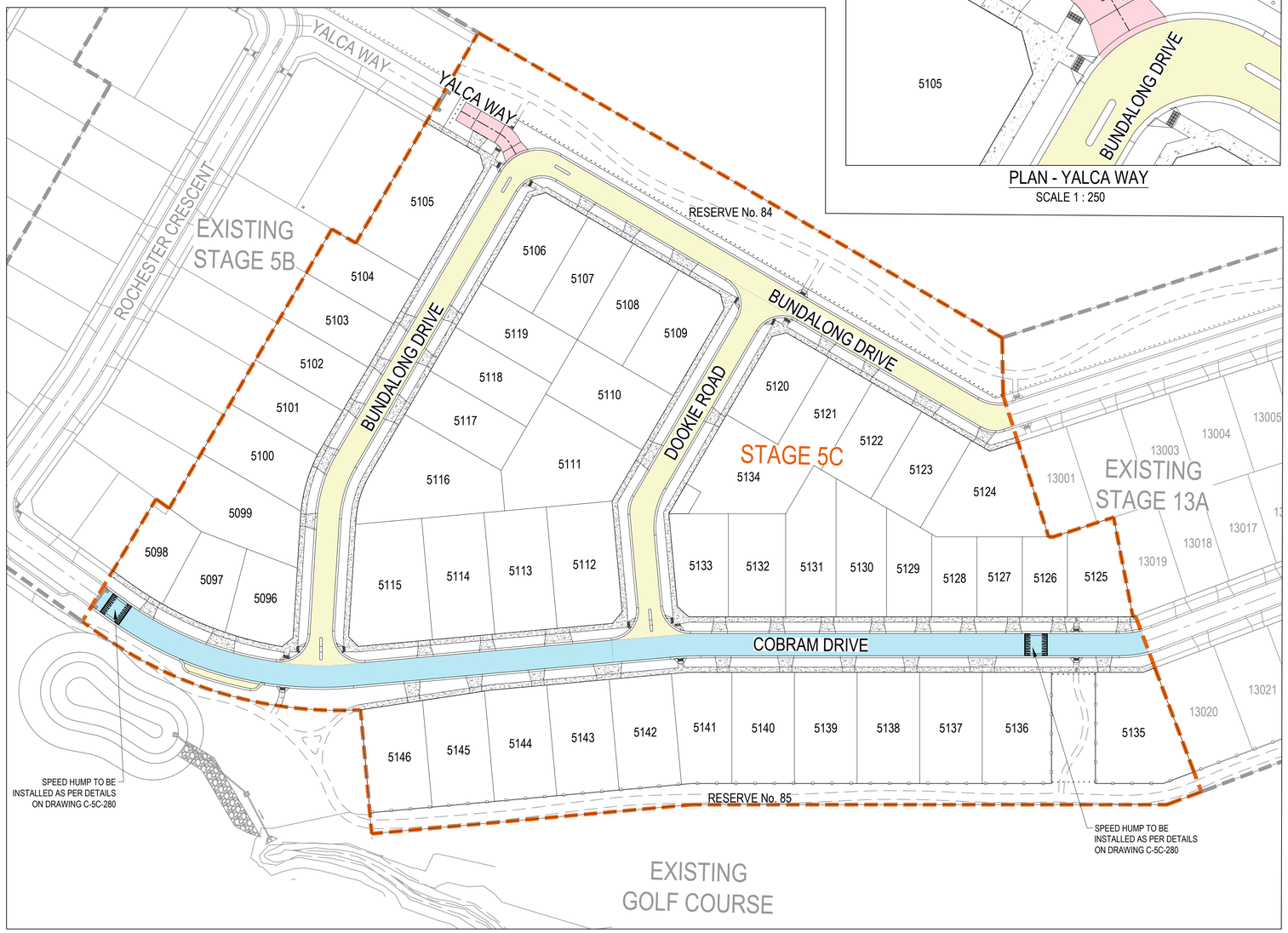
Last Saved: WBMN1953 Date Plotted: 10 Aug 2021 - 03:55PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C 13\10029435-5C\DD\C-5C-280-10029435-TypicalDetailsSheet1.dwg V1

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021



PLAN - YALCA WAY
SCALE 1 : 250



PLAN
SCALE 1 : 750

PAVEMENT COMPOSITION TYPE 1
BUNDALONG DRIVE AND DOOKIE ROAD

LAYER	THICKNESS (mm)	MATERIAL
WEARING COURSE	30	SIZE 10mm TYPE L ASPHALT (CLASS 320 BINDER)
BASE COURSE	30	SIZE 10mm TYPE N ASPHALT (CLASS 320 BINDER)
INTERLAYER	5	SIZE 10mm S45R SAMI THREATMENT
BONDING LAYER	-	PRIME COAT
BASE	130	SIZE 20mm CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 100% (MODIFIED) MAXIMUM DRY DENSITY AS1289, 5.2.1
SUBBASE	100	SIZE 20mm CLASS 3 CRUSHED ROCK COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 98% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1
CAPPING LAYER	150	TYPE A MATERIAL COMPLYING WITH THE FOLLOWING MATERIAL PROPERTIES: CBR ≥ 8%, SWELL ≤ 1.5% AND PERMEABILITY K ≤ 5 x 10^{-9} m/s. COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289, 5.1.1
CONSTRUCTION LAYER	150 (minimum)	TYPE A MATERIAL COMPLYING WITH THE FOLLOWING MATERIAL PROPERTIES : CBR ≥ 8%, SWELL ≤ 1.5% AND PERMEABILITY ≤ 5 x 10^{-9} m/s. COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289, 5.1.1
TOTAL	595 (min)	
SUBGRADE	-	CLAY TOP 200mm COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 98% STANDARD MAXIMUM DRY DENSITY AS1289, 5.1.1

PAVEMENT COMPOSITION TYPE 2
YALCA WAY

LAYER	THICKNESS (mm)	MATERIAL
BASE	190	JOINTED REINFORCED CONCRETE PAVEMENT (f'c = 32 MPa, f'cf = 4.2MPa) WITH SL92 REINFORCING MESH WITH 50 mm COVER
DEBONDING LAYER	-	BITUMINOUS SPRAYED SEAL WITH 7 mm AGGREGATE
SUBBASE	100	SIZE 20mm CLASS 3 CRUSHED ROCK COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 98% MODIFIED MAXIMUM DRY DENSITY AS1289, 5.2.1
CAPPING LAYER	150	TYPE A MATERIAL COMPLYING WITH THE FOLLOWING MATERIAL PROPERTIES: CBR ≥ 8%, SWELL ≤ 1.5% AND PERMEABILITY K ≤ 5 x 10^{-9}m/s COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289, 5.1.1
CONSTRUCTION LAYER	150 (minimum)	TYPE A MATERIAL COMPLYING WITH THE FOLLOWING MATERIAL PROPERTIES: CBR ≥ 8%, SWELL ≤ 1.5% AND PERMEABILITY K ≤ 5 x 10^{-9}m/s COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289, 5.1.1
TOTAL	590 (min)	MINIMUM THICKNESS
SUBGRADE	-	CLAY TOP 200mm COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 98% STANDARD MAXIMUM DRY DENSITY AS1289, 5.1.1

PAVEMENT COMPOSITION TYPE 3
COBRAM DRIVE

LAYER	THICKNESS (mm)	MATERIAL
WEARING COURSE	40	SIZE 14 TYPE N ASPHALT (CLASS 320 BINDER)
BASE COURSE	40	SIZE 14 TYPE HP ASPHALT (CLASS A10E BINDER)
INTERLAYER	5	SIZE 10mm S45R SAMI THREATMENT
BONDING LAYER	-	PRIME COAT IF NOT SUBJECTED TO TRAFFIC OTHERWISE PRIMER SEAL
BASE	110	SIZE 20mm CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 100% (MODIFIED) MAXIMUM DRY DENSITY AS1289, 5.2.1
SUBBASE	130	SIZE 20mm CLASS 3 CRUSHED ROCK COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 98% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1
CAPPING LAYER	160	TYPE A MATERIAL COMPLYING WITH THE FOLLOWING MATERIAL PROPERTIES: CBR ≥ 8%, SWELL ≤ 1.5% AND PERMEABILITY K ≤ 5 x 10^{-9} m/s. COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289, 5.1.1
CONSTRUCTION LAYER	200 (minimum)	TYPE A MATERIAL COMPLYING WITH THE FOLLOWING MATERIAL PROPERTIES : CBR ≥ 8%, SWELL ≤ 1.5% AND PERMEABILITY ≤ 5 x 10^{-9} m/s. COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289, 5.1.1
TOTAL	685 (min)	
SUBGRADE	-	CLAY TOP 200mm COMPACTED TO A MINIMUM CHARACTERISTIC DENSITY RATIO OF 98% STANDARD MAXIMUM DRY DENSITY AS1289, 5.1.1

LEGEND

- STAGE BOUNDARY
- PROPOSED KERB & CHANNEL
- PROPOSED ROAD PAVEMENT TYPE 1
- PROPOSED ROAD PAVEMENT TYPE 2
- PROPOSED ROAD PAVEMENT TYPE 3
- PROPOSED CONCRETE FOOTPATH/DRIVEWAY
- LONGITUDINAL TIED JOINT (LJ)
- ISOLATION JOINT (IJ)
- TRANSVERSE JOINT (TJ)
- TIED CONSTRUCTION JOINT (CJ)

NOTES:

1. DOWEL BAR DIAMETER, LENGTH AND SPACING SHALL BE AS SPECIFIED IN THE SCHEDULE OF DETAILS.
   a) TRANSVERSE CONTRACTION JOINTS SPACED AT 7m (N28 450mm LONG DOWEL BARS SPACED AT 300mm CENTRES)
   b) LONGITUDINAL TIE BARS SPACED AT 800mm CTRS (N12 DEFORMED STEEL BARS 1m LONG)
   c) ISOLATION JOINTS AT PITS & INTERSECTING ROAD PAVEMENTS
2. JOINTS INTO VEHICLE CROSSOVERS TO BE TIED CONSTRUCTION JOINTS
3. DOWELS SHALL BE:
   - SECURELY POSITIONED PARALLEL TO PAVEMENT CENTERLINE AND FINISHED SURFACE
   - PART COATED AS SHOWN WITH APPROVED BOND BREAKING MATERIAL.
4. TIE BARS SHALL BE SECURELY POSITIONED PARALLEL TO PAVEMENT CENTERLINE AND FINISHED SURFACE.
5. STEEL FABRIC SHALL BE LOCATED IN THE TOP THIRD OF THE BASE AND SHALL HAVE A MINIMUM COVER OF 50mm. REFER TO SPECIFICATIONS FOR DETAILS OD STEEL FABRIC.
6. SUBBASE AND BASE TRANSVERSE JOINTS SHALL BE OFFSET BY A MINIMUM OF 500mm.
7. TIED CONSTRUCTION JOINTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SLAB LENGTH AND AT LEAST 1.5m FROM TRANSVERSE CONTRACTION JOINTS.
8. DOWEL CAP MAY BE OMITTED FOR SHORT SLAB (<5m) CONTRACTION JOINTS.
9. SFRC IS STEEL FIBRE REINFORCE CONCRETE.
10. TIE BAR SHALL NOT BE PLACE WITHIN 500mm OF A TRANSVERSE CONTRACTION JOINT.
11. REINFORCEMENT FOR JOINTED AND CONTINUOUSLY REINFORCED PAVEMENTS IS NOT SHOWN REFER TO SCHEDULE OF DETAILS.
12. SUBBASE AND BASE LONGITUDINAL JOINTS SHALL BE OFFSET BY NOT LESS THAN 250mm BUT NOT MORE THAN 300mm.
13. SAME DIMENSIONS FOR STEEL FIBRE REINFORCED CONCRETE.
14. KERN AND CHANNEL TIED JOINT:
    IF KERB AND CHANNEL AND BASE ARE CAST SIMULTANEOUSLY, TIE BARS ARE NOT REQUIRED BETWEEN THEM. THE PAVEMENT REINFORCEMENT SHALL BE EXTENDED INTO THE KERB AND CHANNEL AND THE BACK OF KERB IS THE EDGE OF PAVEMENT.
15. BACKING ROD SHALL BE MADE OF POLYETHELENE FOAM OR APPROVED EQUIVALENT. ALTERNATIVE MATERIAL AND SHAPE MAY BE APPROVED.
16. AN APPROVED NEOPRENE COMPRESSION SEAL CONFORMING TO ASTM D2628 MAY BE USED INSTEAD OF A FIELD MOULDED SEALANT AND BACKING ROD.
17. AN APPROVED SEALANT SHALL BE INSTALLED ALONG THE TOP AND DOWN THE VERTICAL EDGES OF THE EXPANSION JOINT.
18. REINFORCEMENT SHALL BE LOCATED IN THE TOP THIRD OF THE BASE AND SHALL HAVE A MINIMUM COVER OF 50mm.
19. RECTANGULAR MESH SHALL BE ALIGNED WITH THE CLOSER SPACED WIRES PARALLEL TO THE PAVEMENT CENTERLINE.
20. ALL PAVEMENT DESIGNS HAVE BEEN PROVIDED BY TONKIN AND TAYLOR. ARCADIS ARE NOT RESPONSIBLE FOR THE DESIGN OF THE PAVEMENTS WITHIN THIS STAGE OF WORKS. THE PAVEMENT COMPOSITIONS HAVE BEEN EXTRACTED FROM THE PAVEMENT REPORT FOR THIS STAGE OF WORKS. THE CONTRACTOR SHOULD REVIEW THIS DOCUMENT IN CONJUNCTION WITH THE GEOTECHNICAL AND PAVEMENT REPORTS PROVIDED BY TONKIN AND TAYLOR.
21. REFER TO SHEET C-5C-002 FOR GENERAL NOTES.

Issue	Description	By	Ckd	PM	Date
05	PAVEMENT DESIGN CHANGED	WB	ZS	JM	01.10.21
04	PAVEMENT DETAILS AMENDED	CM	ZS	JM	14.09.21
03	PAVEMENT TYPE 2 UPDATED	CM	ZS	JM	24.08.21
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale
0 15 30 45 60 75m
1 : 750
0 5 10 15 20 25m
1 : 250

Planner
RobertsDay planning·design·place
Filename C-5C-281-10029435-TypicalDetailsSheet2.dwg

Client
RESIMAX GROUP

Status: FOR APPROVAL
Checker: Z.STROGUSZ
Scales: 1:250 1:750
Original Size: A1
Height Datum: AHD
Grid: MGA
Original Issue Signatures
Drawn C.MENEZ
Designed K.ANGELES
Project Manager J.MUNRO
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Project: EYNESBURY TOWNSHIP STAGE 5C
Title: TYPICAL DETAILS SHEET 2 OF 2

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Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No. C-5C-281 — Project No. 10029435 — Issue 05

100mm on Original

Last Saved: WBMN1953 Date Plotted: 30 Sep 2021 - 03:00PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C 13\10029435-5C\DD\C-5C-281-10029435-TypicalDetailsSheet2.dwg V1

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

LEGEND

100	CONTINUOUS LANE LINE (LL)
1000 3000 / 200	CONTINUITY LINE (CL)
600 600 / 300	GIVE WAY LINE (GL)
	RAISED REFLECTIVE PAVEMENT MARKER
	SIGN POST
100 100 / 100 100 / 5000 / 1000	CHEVRON

NOTE:

FOR GENERAL NOTES, REFER TO DRAWING No. C-5C-002.

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

100mm on Original

Scale

0 5 10 20 30 40 50m

1 : 500

Planner

RobertsDay planning·design·place

Filename C-5C-290-10029435-Sign&LinemarkingPlan.dwg

Client

RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures

Drawn: C.MENEZ

Designed: K.ANGELES

Project Manager: J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: LINEMARKING AND SIGNAGE PLAN

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Drawing No. C-5C-290 — Project No. 10029435 — Issue 02

Last Saved: WBMN1953 Date Plotted: 10 Aug 2021 - 03:55PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46ID-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-5C\DD\C-5C-290-10029435-Sign&LinemarkingPlan.dwg

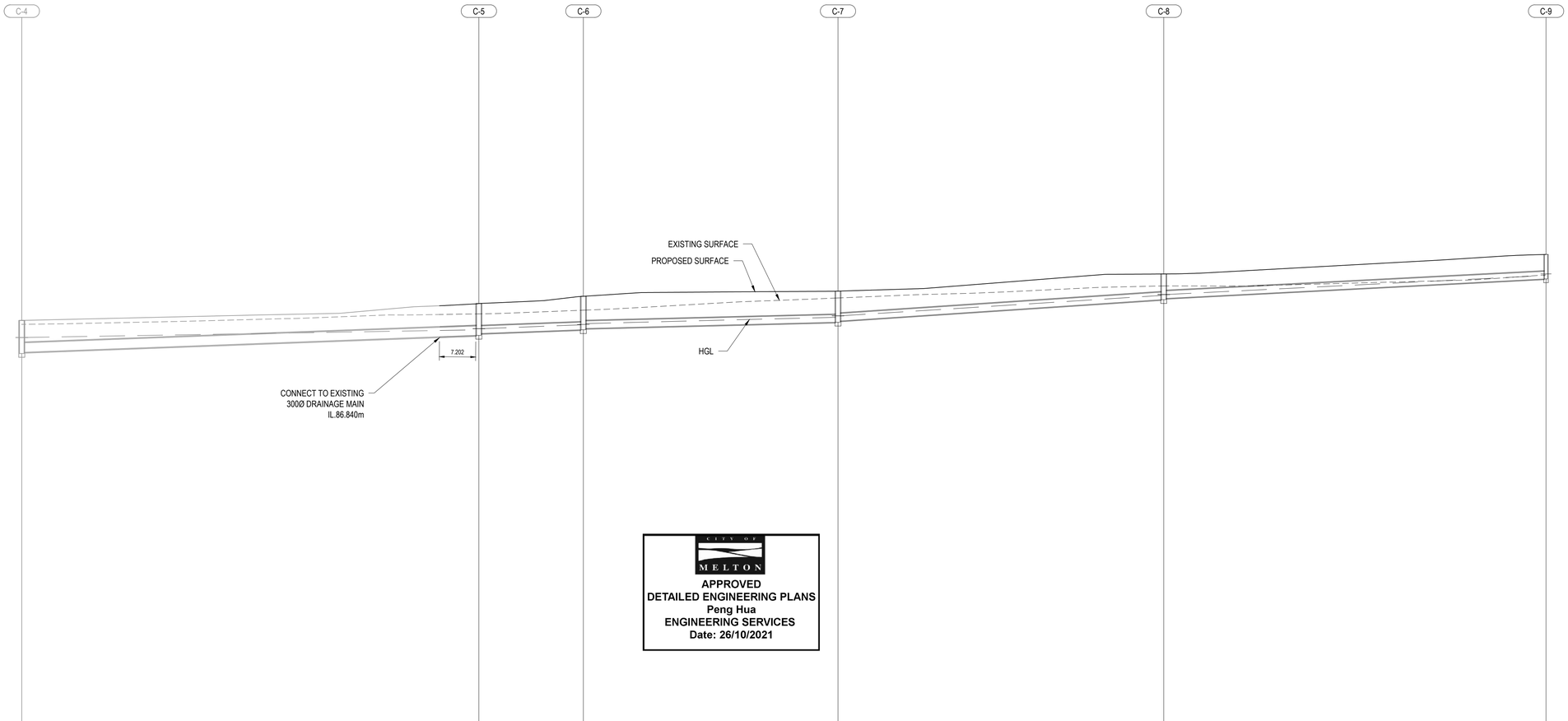
V1

NOTES:

1. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENTSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
   - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OF CROSSOVER
   - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OR REPOSE FROM NEAR THE LOWER EDGE
2. ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
3. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
4. WHERE PITS DROP LESS THAN 50mm THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.
5. REFER TO SHEET C-5C-002 FOR GENERAL NOTES.

LEGEND

CRUSHED ROCK BACKFILL



CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

FLOW (m³/s)		0.09								0.063				0.063						0.047						0.031			
FLOW CAPACITY (m³/s)		0.187								0.104				0.085						0.139						0.122			
PIPE VELOCITY (m/s)		1.689								1.467				1.196						1.965						1.727			
PIPE SIZE & CLASS		Ø375 CLASS 2								Ø300 CLASS 2				Ø300 CLASS 2						Ø300 CLASS 2						Ø300 CLASS 2			
GRADE (%)		0.7%								0.7%				0.5%						1.3%						1.0%			
Datum R.L	67.00																												
DEPTH TO INVERT	1.312	1.262							1.265	1.190			1.327	1.277					1.234	1.184					1.019	0.969			0.972	
H.G.L. LEVEL 5 YEAR ARI	86.751	86.805							87.111	87.155			87.309	87.324					87.607	87.665					88.473	88.511			89.262	89.329
INVERT LEVEL	86.171	86.221							86.890	86.965			87.113	87.163					87.411	87.461					88.306	88.356			89.129	
PROPOSED LEVEL	87.483								88.155				88.440						88.645						89.326				90.101	
EXISTING LEVEL	87.328								87.743				87.889						88.374						88.851				89.289	
CHAINAGE	206.423						L=89.752		297.075			L=19.823	317.798			L=49.600			368.298			L=63.706			432.904			L=75.065	508.718	

LINE C

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale
0 1 2 4 6 8 10m
1 : 100
0 5 10 20 30 40 50m
1 : 500

Planner
RobertsDay planning·design·place
Filename C-5C-300-10029435-SwdLS.dwg

Client
RESIMAX GROUP

Status: FOR APPROVAL
Checker: Z.STROGUSZ
Scales: 1:100 1:500
Original Issue Signatures
Drawn: C.MENEZ
Original Size: A1
Designed: K.ANGELES
Height Datum: AHD
Project Manager: J.MUNRO
Grid: MGA
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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 5

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Tel No: +61 3 8623 4000
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Drawing No. C-5C-300 — Project No. 10029435 — Issue 01

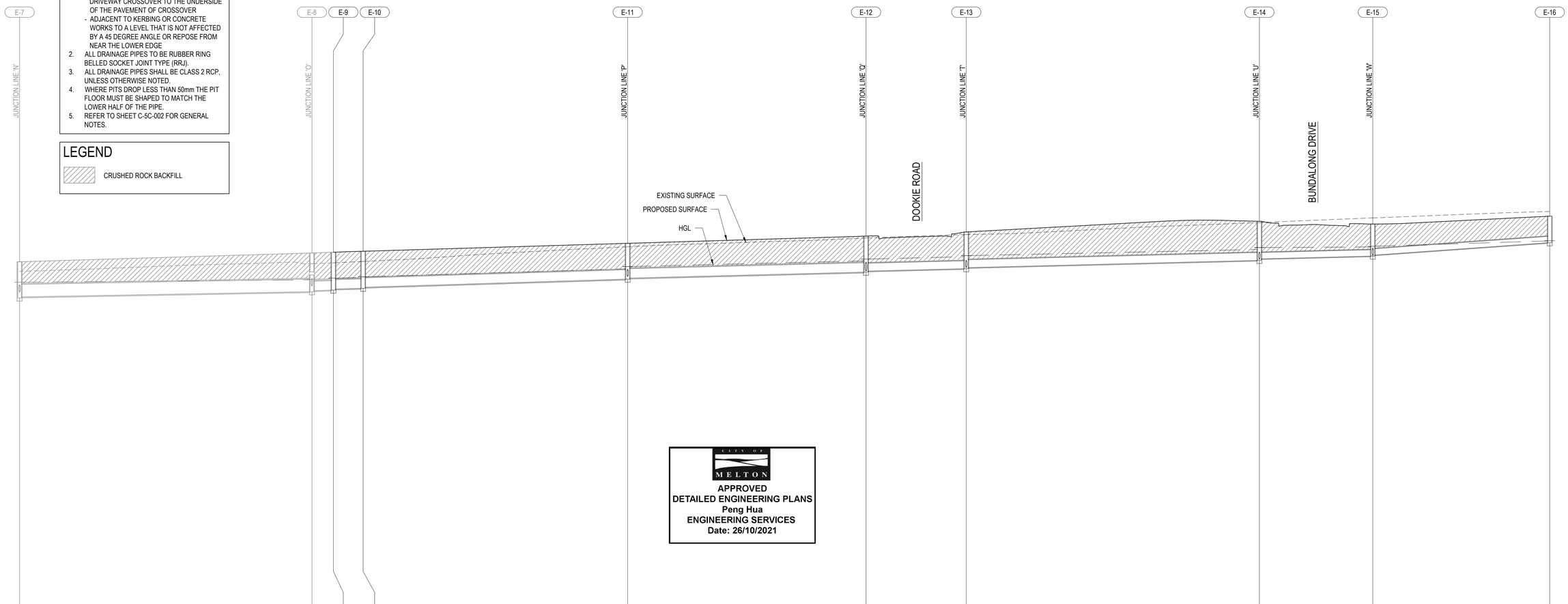
100mm on Original

NOTES:

1. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENTSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
   - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OF CROSSOVER
   - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OR REPOSE FROM NEAR THE LOWER EDGE
2. ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
3. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
4. WHERE PITS DROP LESS THAN 50mm THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.
5. REFER TO SHEET C-5C-002 FOR GENERAL NOTES.

LEGEND

CRUSHED ROCK BACKFILL



APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

FLOW (m³/s)		0.297					0.261	0.262		0.271				0.244			0.15		0.14				0.039		0.013					
FLOW CAPACITY (m³/s)		0.444					0.270	0.270		0.274				0.248			0.152		0.152				0.085		0.144					
PIPE VELOCITY (m/s)		1.572					1.695	1.695		1.723				1.560			1.378		1.378				1.196		2.036					
PIPE SIZE & CLASS		Ø600 CLASS 2					Ø450 CLASS 2	Ø450 CLASS 2		Ø450 CLASS 2				Ø450 CLASS 2			Ø375 CLASS 2		Ø375 CLASS 2				Ø300 CLASS 2		Ø300 CLASS 2					
GRADE (%)		0.4%					0.6%	0.6%		0.6%				0.5%			0.5%		0.5%				0.5%		1.4%					
Datum R.L	67.00																													
DEPTH TO INVERT	1.731	1.681				1.850	1.800	1.810	1.760	1.770	1.720			1.713	1.663		1.723	1.673	1.755	1.705			1.869	1.794	1.532	1.482			1.268	
H.G.L. LEVEL 5 YEAR ARI	86.806	86.837				86.944	86.973	86.997	87.030	87.066	87.095			87.474	87.584		87.861	87.943	88.055	88.107			88.400	88.491	88.520	88.553			88.809	88.821
INVERT LEVEL	86.082	86.132				86.382	86.432	86.458	86.508	86.545	86.595			86.981	87.031		87.318	87.368	87.483	87.533			87.879	87.954	88.085	88.135			88.724	
PROPOSED LEVEL	87.813					88.232		88.267		88.315				88.694			89.040		89.238				89.748		89.617				89.992	
EXISTING LEVEL	87.350					87.721		87.760		87.828				88.531			88.951		89.113				89.690		89.909				90.217	
CHAINAGE	195.553		L=69.019			265.473	L=4.237	270.609	L=6.201	277.710		L=62.358		340.968		L=56.099	397.967		L=23.070	421.937		L=69.200	492.037		L=26.210	519.147		L=41.422	561.469	

LINE E

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale
0 1 2 4 6 8 10m
1 : 100
0 5 10 20 30 40 50m
1 : 500

Planner
RobertsDay planning·design·place
Filename C-5C-300-10029435-SwdLS.dwg

Client
RESIMAX GROUP

Status: FOR APPROVAL
Checker: Z.STROGUSZ
Scales: 1:100 1:500
Original Issue Signatures
Drawn: C.MENEZ
Original Size: A1
Designed: K.ANGELES
Height Datum: AHD
Project Manager: J.MUNRO
Grid: MGA
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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 5

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Melbourne VIC 3000
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Tel No: +61 3 8623 4000
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Drawing No. C-5C-301 — Project No. 10029435 — Issue 01

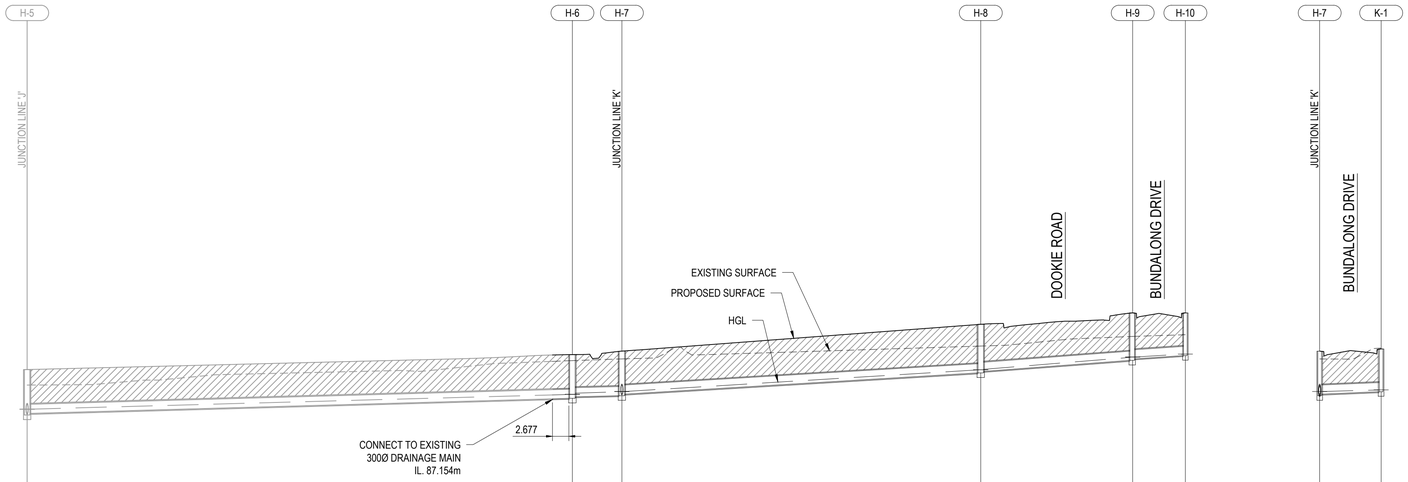
100mm on Original

NOTES:

1. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENTSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
   - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OF CROSSOVER
   - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OR REPOSE FROM NEAR THE LOWER EDGE
2. ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
3. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
4. WHERE PITS DROP LESS THAN 50mm THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.
5. REFER TO SHEET C-5C-002 FOR GENERAL NOTES.

LEGEND

CRUSHED ROCK BACKFILL



FLOW (m³/s)		0.027						0.027						0.017						0.016		0.004				0.006	
FLOW CAPACITY (m³/s)		0.090						0.085						0.132						0.148		0.140				0.111	
PIPE VELOCITY (m/s)		1.267						1.196						1.870						2.091		1.977				1.565	
PIPE SIZE & CLASS		Ø300 CLASS 2						Ø300 CLASS 2						Ø300 CLASS 2						Ø300 CLASS 2		Ø300 CLASS 2				Ø300 CLASS 2	
GRADE (%)		0.6%						0.5%						1.2%						1.5%		1.3%				0.8%	
Datum R.L	67.00																								67.00		
DEPTH TO INVERT	1.482	1.432					1.428	1.378	1.454	1.404					1.586	1.536			1.549	1.499	1.392			1.454	1.404	1.396	
H.G.L. LEVEL 5 YEAR ARI	86.797	86.817					87.297	87.301	87.384	87.393					88.101	88.102			88.506	88.520	88.614	88.615		87.384	87.393	87.443	87.446
INVERT LEVEL	86.628	86.678					87.171	87.221	87.257	87.307					88.001	88.051			88.410	88.460	88.567			87.257	87.307	87.387	
PROPOSED LEVEL	88.110						88.599		88.711						89.587				89.959		89.959			88.711		88.783	
EXISTING LEVEL	87.603						88.402		88.457						88.877				89.192		89.247			88.457		88.813	
CHAINAGE	138.528				L=88.107		227.535		235.613		L=7.177			L=57.682	294.194			L=23.900	318.994		327.594		L=8.000	0.000		10.039	L=9.439

LINE H

LINE K

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale

0 1 2 4 6 8 10m

1 : 100

0 5 10 20 30 40 50m

1 : 500

Planner

RobertsDay planning·design·place

Filename C-5C-300-10029435-SwdLS.dwg

Client

RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:100 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures

Drawn C.MENEZ

Designed K.ANGELES

Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3 OF 5

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Melbourne VIC 3000
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Drawing No. C-5C-302 — Project No. 10029435 — Issue 01

100mm on Original

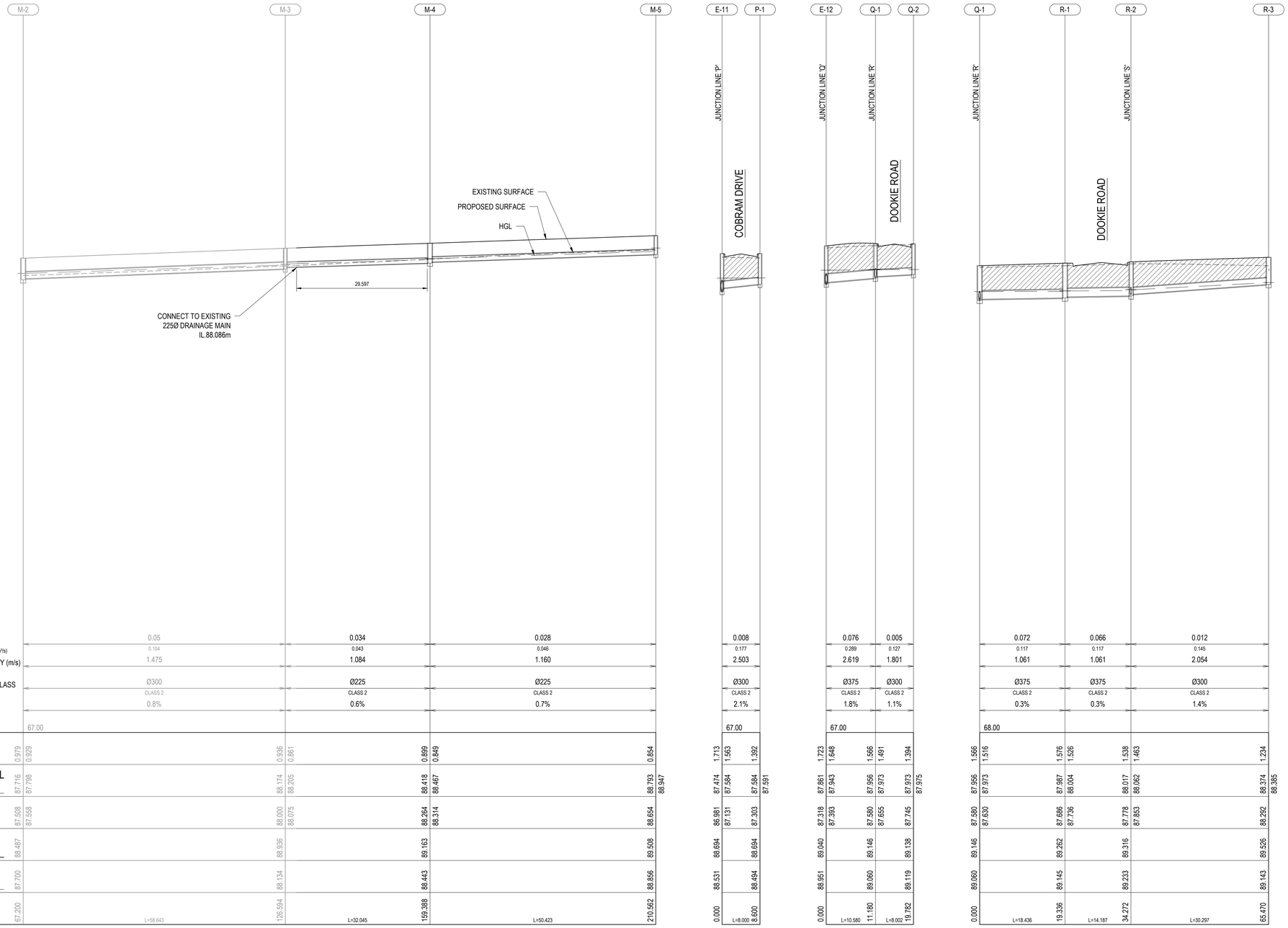
Last Saved: MENEZC4027 Date Plotted: 10 Aug 2021 - 02:01PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C 13\10029435-5C\DD\C-5C-300-10029435-SwdLS.dwg V1

NOTES:

1. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENTSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
   - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OF CROSSOVER
   - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OR REPOSE FROM NEAR THE LOWER EDGE
2. ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
3. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
4. WHERE PITS DROP LESS THAN 50mm THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.
5. REFER TO SHEET C-5C-002 FOR GENERAL NOTES.

LEGEND

CRUSHED ROCK BACKFILL



CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale

0 1 2 4 6 8 10m
1 : 100

0 5 10 20 30 40 50m
1 : 500

Planner

RobertsDay planning·design·place

Filename C-5C-300-10029435-SwdLS.dwg

Client

RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:100 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures
Drawn C.MENEZ
Designed K.ANGELES
Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 4 OF 5

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Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
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Drawing No. C-5C-303 — Project No. 10029435 — Issue 01

100mm on Original

Last Saved: MENEZC4027 Date Plotted: 10 Aug 2021 - 02:01PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C 13\10029435-5C\DD\C-5C-300-10029435-SwdLS.dwg V1

NOTES:

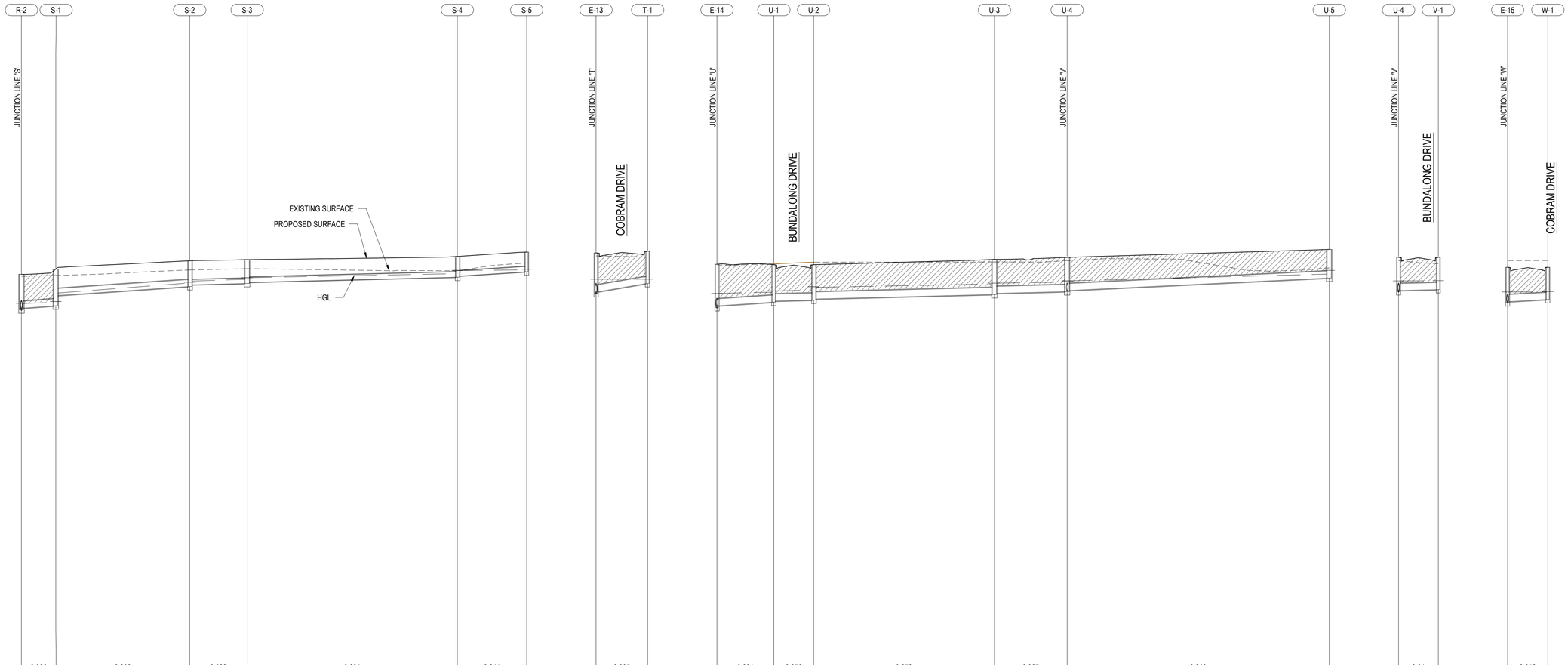
1. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENTSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
   - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OF CROSSOVER
   - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OR REPOSE FROM NEAR THE LOWER EDGE
2. ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
3. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
4. WHERE PITS DROP LESS THAN 50mm THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.
5. REFER TO SHEET C-5C-002 FOR GENERAL NOTES.

LEGEND

CRUSHED ROCK BACKFILL

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021



LINE S

| | | |

PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		STANDARD DRAWING	REMARKS
NAME	TYPE	WIDTH	LENGTH	DIAMETER	IL	DIAMETER	IL	SETOUT RL	DEPTH		
C-5	JUNCTION PIT	0.60	0.90	300	86.965	375	86.890	88.155	1.265	EDCM 605	
C-6	JUNCTION PIT	0.60	0.90	300	87.163	300	87.113	88.440	1.327	EDCM 605	
C-7	JUNCTION PIT	0.60	0.90	300	87.461	300	87.411	88.645	1.234	EDCM 605	
C-8	JUNCTION PIT	0.60	0.90	300	88.356	300	88.306	89.326	1.019	EDCM 605	
C-9	JUNCTION PIT	0.60	0.60			300	89.129	90.101	0.972	EDCM 605	
E-9	JUNCTION PIT	0.60	0.90	450	86.508	450	86.458	88.267	1.810	EDCM 605	CLASS D CAST IRON COVER AS PER EDCM 605
E-10	JUNCTION PIT	0.60	0.90	450	86.595	450	86.545	88.315	1.770	EDCM 605	
E-11	SIDE ENTRY PIT GRATED	0.60	0.90	450	87.031	450	86.981	88.694	1.713	EDCM 601 & EDCM 605	
				300	87.131						
E-12	JUNCTION PIT	0.60	0.90	375	87.368	450	87.318	89.04	1.723	EDCM 605	
				375							
E-13	SIDE ENTRY PIT GRATED	0.60	0.90	375	87.533	375	87.483	89.238	1.755	EDCM 601 & EDCM 605	
				300	87.558						
E-14	JUNCTION PIT	0.60	0.90	300	87.954	375	87.879	89.748	1.869	EDCM 605	
				300	87.954						
E-15	DOUBLE SIDE ENTRY PIT GRATED	0.60	0.90	300	88.135	300	88.085	89.617	1.532	EDCM 602 & EDCM 605	
				300	88.135						
E-16	SIDE ENTRY PIT GRATED	0.60	0.90			300	88.724	89.992	1.268	EDCM 601 & EDCM 605	
H-6	JUNCTION PIT	0.60	0.90	300	87.221	300	87.171	88.599	1.428	EDCM 605	
H-7	SIDE ENTRY PIT GRATED	0.60	0.90	300	87.307	300	87.257	88.711	1.454	EDCM 601 & EDCM 605	
				300	87.307						
H-8	SIDE ENTRY PIT GRATED	0.60	0.90	300	88.051	300	88.001	89.587	1.586	EDCM 601 & EDCM 605	
H-9	SIDE ENTRY PIT GRATED	0.60	0.90	300	88.460	300	88.410	89.959	1.549	EDCM 601 & EDCM 605	
H-10	SIDE ENTRY PIT GRATED	0.60	0.90			300	88.567	89.959	1.392	EDCM 601 & EDCM 605	
K-1	SIDE ENTRY PIT GRATED	0.60	0.90			300	87.387	88.783	1.396	EDCM 601 & EDCM 605	
M-4	JUNCTION PIT	0.60	0.90	225	88.314	225	88.264	89.163	0.899	EDCM 605	
M-5	JUNCTION PIT	0.60	0.60			225	88.654	89.508	0.854	EDCM 605	
P-1	SIDE ENTRY PIT GRATED	0.60	0.90			300	87.303	88.694	1.392	EDCM 601 & EDCM 605	
Q-1	SIDE ENTRY PIT GRATED	0.60	0.90	300	87.655	375	87.580	89.146	1.566	EDCM 601 & EDCM 605	
				375	87.630						
Q-2	DOUBLE SIDE ENTRY PIT GRATED	0.60	0.90			300	87.745	89.138	1.394	EDCM 602 & EDCM 605	
R-1	SIDE ENTRY PIT GRATED	0.60	0.90	375	87.736	375	87.686	89.262	1.576	EDCM 601 & EDCM 605	
R-2	SIDE ENTRY PIT GRATED	0.60	0.90	300	87.853	375	87.778	89.316	1.538	EDCM 601 & EDCM 605	
				300	87.853						
R-3	JUNCTION PIT	0.60	0.90			300	88.292	89.526	1.234	EDCM 605	
S-1	JUNCTION PIT	0.60	0.90	300	88.401	300	87.951	89.543	1.592	EDCM 605	
S-2	JUNCTION PIT	0.60	0.90	225	88.862	300	88.787	89.901	1.114	EDCM 605	
S-3	JUNCTION PIT	0.60	0.90	225	88.970	225	88.920	89.951	1.031	EDCM 605	
S-4	JUNCTION PIT	0.60	0.90	225	89.243	225	89.193	90.087	0.894	EDCM 605	
S-5	JUNCTION PIT	0.60	0.60			225	89.423	90.276	0.852	EDCM 605	
T-1	SIDE ENTRY PIT GRATED	0.60	0.90			300	87.917	89.313	1.396	EDCM 601 & EDCM 605	
U-1	SIDE ENTRY PIT GRATED	0.60	0.90	300	88.161	300	88.111	89.730	1.619	EDCM 601 & EDCM 605	
U-2	SIDE ENTRY PIT GRATED	0.60	0.90	300	88.251	300	88.201	89.730	1.529		
U-3	JUNCTION PIT	0.60	0.90	300	88.492	300	88.442	89.959	1.517	EDCM 605	
U-4	SIDE ENTRY PIT GRATED	0.60	0.90	300	88.616	300	88.566	90.048	1.482	EDCM 601 & EDCM 605	
				300	88.616					EDCM 601 & EDCM 605	
U-5	SIDE ENTRY PIT GRATED	0.60	0.90			300	89.155	90.392	1.237	EDCM 601 & EDCM 605	
V-1	SIDE ENTRY PIT GRATED	0.60	0.90			300	88.656	90.048	1.392	EDCM 601 & EDCM 605	
W-1	DOUBLE SIDE ENTRY PIT GRATED	0.60	0.90			300	88.228	89.619	1.391	EDCM 602 & EDCM 605	

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

100mm on Original

Scale

Planner: RobertsDay planning·design·place

Filename C-5C-320-10029435-SwdPitSchedule.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Issue Signatures

Drawn: C.MENEZ

Original Size: A1

Designed: K.ANGELES

Height Datum: AHD

Project Manager: J.MUNRO

Grid: MGA

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: STORMWATER DRAINAGE PIT SCHEDULE

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Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
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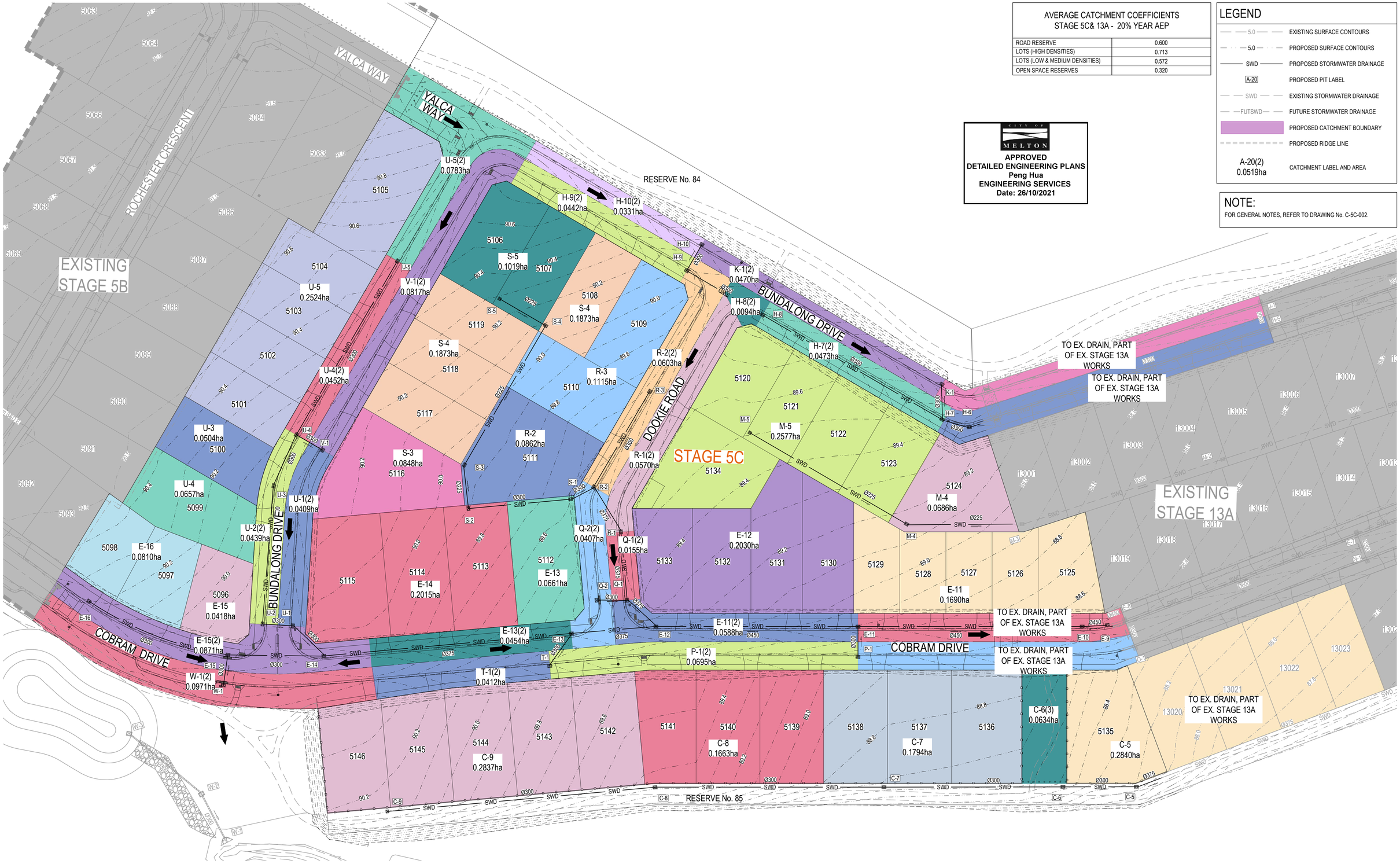
Drawing No. C-5C-320 — Project No. 10029435 — Issue 01



AVERAGE CATCHMENT COEFFICIENTS
STAGE 5C& 13A - 20% YEAR AEP

ROAD RESERVE	0.600
LOTS (HIGH DENSITIES)	0.713
LOTS (LOW & MEDIUM DENSITIES)	0.572
OPEN SPACE RESERVES	0.320

CITY OF MELTON

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DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

LEGEND

5.0	EXISTING SURFACE CONTOURS
5.0	PROPOSED SURFACE CONTOURS
SWD	PROPOSED STORMWATER DRAINAGE
A-20	PROPOSED PIT LABEL
SWD	EXISTING STORMWATER DRAINAGE
FUTSWD	FUTURE STORMWATER DRAINAGE
	PROPOSED CATCHMENT BOUNDARY
	PROPOSED RIDGE LINE
A-20(2) 0.0519ha	CATCHMENT LABEL AND AREA

NOTE:
FOR GENERAL NOTES, REFER TO DRAWING No. C-5C-002.

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale: 1 : 500 (0 5 10 20 30 40 50m)

Planner: RobertsDay planning·design·place

Filename C-5C-350-10029435-Q5CatchmentPlan.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures: Drawn C.MENEZ; Designed K.ANGELES; Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: STORMWATER DRAINAGE Q5 CATCHMENT PLAN

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Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
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Drawing No. C-5C-350 — Project No. 10029435 — Issue 01

100mm on Original

Last Saved: WBMN1953 Date Plotted: 10 Aug 2021 - 03:53PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-5C\DD\C-5C-350-10029435-Q5CatchmentPlan.dwg V1

LEGEND

	STAGE BOUNDARY
5.0	EXISTING SURFACE CONTOURS
5.0	PROPOSED SURFACE CONTOURS
SWD	PROPOSED STORMWATER DRAINAGE
A-20	PROPOSED PIT LABEL
SWD	EXISTING STORMWATER DRAINAGE
FUTSWD	FUTURE STORMWATER DRAINAGE
	PROPOSED CATCHMENT BOUNDARY
	PROPOSED RIDGE LINE
CATCHMENT 1 LOT: 1.0 ha RR: 1.0 ha MISC: 0.0000 ha	CATCHMENT LABEL AND AREA
10	STORMWATER NODES
	100 YEAR ARI MAX LEVEL

NOTE:

FOR GENERAL NOTES, REFER TO DRAWING No. C-5C-002.

AVERAGE CATCHMENT COEFFICIENTS OF RUNOFF
STAGE 5C & 13A - 1% AEP (Q100)

ROAD RESERVE	0.720
LOTS	0.900
OPEN SPACE RESERVES	0.400

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale: 1 : 500 (0 5 10 20 30 40 50m)

Planner: RobertsDay planning·design·place

Filename C-5C-351-10029435-Q100CatchmentPlan.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures: Drawn C.MENEZ; Designed K.ANGELES; Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: STORMWATER DRAINAGE Q100 CATCHMENT PLAN

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ABN 76 104 485 289
Tel No: +61 3 8623 4000
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Drawing No. C-5C-351 — Project No. 10029435 — Issue 02

100mm on Original

HYDROLOGICAL DESIGN SHEET

Pit Name (-)	Pit Type (-)	Setout 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=CIA (L/s)	Partial CA (ha)	Partial Sum CA (ha)	Partial Qc=CIA (L/s)	Approach Flow Qa (L/s)
C-5	JUNCTION PIT	88.150	1P	7	72.110	0.540	0.284	0.153	0.153	30.600	0.153	0.153	30.600	30.600
C-6	JUNCTION PIT	88.440	3P	7	72.110	0.320	0.040	0.013	0.013	2.600	0.013	0.013	2.600	2.600
C-7	JUNCTION PIT	88.650	1P	7	72.110	0.540	0.179	0.096	0.096	19.300	0.096	0.096	19.300	19.300
C-8	JUNCTION PIT	89.330	1P	7	72.110	0.540	0.166	0.089	0.089	17.900	0.089	0.089	17.900	17.900
C-9	JUNCTION PIT	90.100	1P	7	72.110	0.540	0.284	0.153	0.153	30.600	0.153	0.153	30.600	30.600
E-9	JUNCTION PIT	88.270												0.000
E-10	JUNCTION PIT	88.310												0.000
E-11	SIDE ENTRY GRATED	88.690	1P	5	79.740	0.710	0.169	0.119	0.153	32.200	0.119	0.147	32.600	32.600
			2P	6	75.930	0.570	0.059	0.033			0.028			
E-12	JUNCTION PIT	89.040	1P	7	72.110	0.540	0.203	0.109	0.109	21.900	0.109	0.109	21.900	21.900
E-13	SIDE ENTRY GRATED	89.240	1P	7	72.110	0.540	0.066	0.036	0.061	12.300	0.030	0.056	11.800	12.300
			2P	6	75.930	0.570	0.045	0.026			0.026			
E-14	JUNCTION PIT	89.750	1P	7	72.110	0.540	0.202	0.108	0.108	21.700	0.108	0.108	21.700	21.700
E-15	DOUBLE SIDE ENTRY GRATED	89.620	1P	7	72.110	0.710	0.042	0.030	0.079	15.800	0.025	0.075	15.700	15.800
			2P	6	75.930	0.570	0.087	0.049			0.049			
E-16	SIDE ENTRY GRATED	89.990	1P	5	79.740	0.710	0.081	0.057	0.057	12.700	0.057	0.057	12.700	12.700
H-6	JUNCTION PIT	88.600												0.000
H-7	SIDE ENTRY GRATED	88.710	2P	6	75.930	0.570	0.047	0.027	0.027	5.600	0.027	0.027	5.600	5.600
H-8	SIDE ENTRY GRATED	89.590	2P	6	75.930	0.570	0.009	0.005	0.005	1.100	0.005	0.005	1.100	1.100
H-9	SIDE ENTRY GRATED	89.960	1P	7	72.110	0.710	0.054	0.038	0.063	12.600	0.033	0.058	12.200	12.600
			2P	6	75.930	0.570	0.044	0.025			0.025			
H-10	SIDE ENTRY GRATED	89.960	2P	6	75.930	0.570	0.033	0.019	0.019	4.000	0.019	0.019	4.000	4.000
K-1	SIDE ENTRY GRATED	88.780	2P	6	75.930	0.570	0.047	0.027	0.027	5.600	0.027	0.027	5.600	5.600
M-4	JUNCTION PIT	89.160	1P	7	72.110	0.540	0.069	0.037	0.037	7.400	0.037	0.037	7.400	7.400
M-5	JUNCTION PIT	89.510	1P	7	72.110	0.540	0.258	0.139	0.139	27.700	0.139	0.139	27.700	27.700
P-1	SIDE ENTRY GRATED	88.690	2P	6	75.930	0.570	0.070	0.039	0.039	8.300	0.039	0.039	8.300	8.300
Q-1	SIDE ENTRY GRATED	89.150	2P	6	75.930	0.570	0.016	0.009	0.009	1.800	0.009	0.009	1.800	1.800
Q-2	DOUBLE SIDE ENTRY PIT GRATED	89.140	2P	6	75.930	0.570	0.041	0.023	0.023	4.900	0.023	0.023	4.900	4.900
R-1	SIDE ENTRY GRATED	89.260	2P	6	75.930	0.570	0.057	0.032	0.032	6.800	0.032	0.032	6.800	6.800
R-2	SIDE ENTRY GRATED	89.320	1P	7	72.110	0.710	0.086	0.061	0.095	19.000	0.052	0.086	18.200	19.000
			2P	6	75.930	0.570	0.060	0.034			0.034			
R-3	JUNCTION PIT	89.530	1P	7	72.110	0.540	0.112	0.060	0.060	12.000	0.060	0.060	12.000	12.000
S-1	JUNCTION PIT	89.540												0.000
S-2	JUNCTION PIT	89.900												0.000
S-3	JUNCTION PIT	89.950	1P	7	72.110	0.540	0.085	0.046	0.046	9.100	0.046	0.046	9.100	9.100
S-4	JUNCTION PIT	90.090	1P	7	72.110	0.540	0.187	0.101	0.101	20.200	0.101	0.101	20.200	20.200
S-5	JUNCTION PIT	90.280	1P	7	72.110	0.540	0.102	0.055	0.055	11.000	0.055	0.055	11.000	11.000
T-1	SIDE ENTRY GRATED	89.310	2P	6	75.930	0.570	0.041	0.023	0.023	4.900	0.023	0.023	4.900	4.900
U-1	SIDE ENTRY GRATED	89.730	2P	6	75.930	0.570	0.041	0.023	0.023	4.900	0.023	0.023	4.900	4.900
U-2	SIDE ENTRY GRATED	89.730	2P	6	75.930	0.570	0.044	0.025	0.025	5.200	0.025	0.025	5.200	5.200
U-3	JUNCTION PIT	89.960	1P	7	72.110	0.710	0.050	0.036	0.036	7.100	0.036	0.036	7.100	7.100
U-4	SIDE ENTRY GRATED	90.050	1P	7	72.110	0.540	0.066	0.035	0.061	12.200	0.030	0.056	11.800	12.200
			2P	6	75.930	0.570	0.045	0.026			0.026			
U-5	SIDE ENTRY GRATED	90.390	1P	5	79.740	0.710	0.252	0.178	0.222	46.900	0.178	0.215	47.600	47.600
			2P	6	75.930	0.570	0.078	0.044			0.037			
V-1	SIDE ENTRY GRATED	90.050	2P	6	75.930	0.570	0.082	0.046	0.046	9.700	0.046	0.046	9.700	9.700
W-1	DOUBLE SIDE ENTRY GRATED	89.620	2P	6	75.930	0.570	0.097	0.055	0.055	11.600	0.055	0.055	11.600	11.600

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale

Planner: RobertsDay planning·design·place

Filename C-5C-360-10029435-SwdCalcsTable.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures: Drawn C.MENEZ; Designed K.ANGELES; Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: STORMWATER DRAINAGE CALCULATION TABLES SHEET 1 OF 2

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No. C-5C-360 — Project No. 10029435 — Issue 01

100mm on Original

Last Saved: WBMN1953 Date Plotted: 10 Aug 2021 - 04:06PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-5C\DD\C-5C-360-10029435-SwdCalcsTable.dwg V1

HYDRAULICS DESIGN SHEET

Pipe ID	Pipe Type	Pipe Length	Pipe Size	Full Pipe Area Af	Pipe Grade	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/Qcap Ratio	Full Pipe Vel Vf=Q/Af	Norm Depth Vel Vn=Q/An	Crit Depth Vel Vc=Q/Ac	Capacity Vel Vcap=Qcap/Af	US Pit Grate RL	Pipe US IL	Pipe DS IL	DS Pit Grate RL	Cover Limit	Cover Min	Pipe DS Bend	Pipe DS Drop	US Pit Ku	US Pit Kw	Pipe V'head	P'head Loss (Ku.V'head)	WSE Loss (Kw.V'head)	Pipe T'head Loss	US Pit HGL	Pipe US HGL	Pipe DS HGL	DS Pit HGL	HGL Grade	HGL Grade	F'board US
(-)	(-)	(m)	(mm)	(sq.m)	(%)	(1 in)	(min)	(mm/hr)	(ha)	(L/s)	(min)	(mm/hr)	(ha)	(L/s)	(L/s)	(L/s)	(-)	(m/s)	(m/s)	(m/s)	(m/s)	(m)	(m)	(m)	(m)	(m)	(m)	(deg)	(m)	(-)	(-)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(%)	(1 in)	(m)
C-6 to C-5	CLASS 2	19.820	300	0.071	0.750	134.000	8.960	64.650	0.351	63.100	8.230	67.420	0.335	62.800	63.100	103.700	0.610	0.890	1.540	1.290	1.470	88.440	87.110	86.970	88.150	0.600	0.860	20.500	0.075	0.390		0.040	0.020		0.150	87.320	87.310	87.160	87.160	0.770	129.200	1.120
C-7 to C-6	CLASS 2	49.600	300	0.071	0.500	200.000	8.260	67.290	0.338	63.200	7.540	70.050	0.323	62.800	63.200	84.600	0.750	0.890	1.310	1.290	1.200	88.650	87.410	87.160	88.440	0.900	0.900	0.000	0.050	1.430		0.040	0.060		0.250	87.670	87.610	87.360	87.320	0.500	198.700	0.980
C-8 to C-7	CLASS 2	63.710	300	0.071	1.330	75.400	7.720	69.350	0.242	46.600	7.000	72.110	0.226	45.300	46.600	138.900	0.340	0.660	1.780	1.150	1.960	89.330	88.310	87.460	88.650	0.600	0.690	0.100	0.050	1.710		0.020	0.040		0.830	88.510	88.470	87.670	87.670	1.270	78.900	0.810
C-9 to C-8	CLASS 2	75.060	300	0.071	1.030	97.200	7.000	72.110	0.153	30.600	7.000	72.110	0.153	30.600	30.600	122.100	0.250	0.430	1.450	1.000	1.730	90.100	89.130	88.360	89.330	0.600	0.600	-5.200	0.050	7.000		0.010	0.070		0.770	89.330	89.260	88.510	88.510	1.000	99.900	0.770
E-10 to E-9	CLASS 2	6.200	450	0.159	0.600	166.700	10.270	60.060	1.518	253.200	9.030	64.380	1.465	261.900	261.900	269.600	0.970	1.650	1.910	1.920	1.690	88.310	86.540	86.510	88.270	0.900	1.270	13.300	0.050	0.210		0.140	0.030		0.040	87.090	87.070	87.030	87.030	0.570	176.400	1.220
E-11 to E-10	CLASS 2	62.360	450	0.159	0.620	161.300	9.660	61.950	1.518	261.100	8.420	66.680	1.465	271.300	271.300	274.100	0.990	1.710	1.950	1.960	1.720	88.690	86.980	86.590	88.310	0.900	1.220	3.100	0.050	0.740		0.150	0.110		0.380	87.580	87.470	87.090	87.090	0.610	164.600	1.110
E-12 to E-11	CLASS 2	56.100	450	0.159	0.510	196.100	9.070	64.230	1.326	236.500	8.060	68.070	1.291	244.100	244.100	248.200	0.980	1.530	1.760	1.850	1.560	89.040	87.320	87.030	88.690	0.900	1.170	0.000	0.050	0.680		0.120	0.080		0.280	87.940	87.860	87.580	87.580	0.490	202.600	1.100
E-13 to E-12	CLASS 2	23.070	375	0.110	0.500	200.000	8.790	65.300	0.797	144.500	7.840	68.920	0.782	149.800	149.800	152.200	0.980	1.360	1.560	1.660	1.380	89.240	87.480	87.370	89.040	1.000	1.110	-4.700	0.050	0.550		0.090	0.050		0.110	88.110	88.050	87.940	87.940	0.480	206.300	1.130
E-14 to E-13	CLASS 2	69.200	375	0.110	0.500	200.000	7.950	68.490	0.712	135.500	7.000	72.110	0.698	139.800	139.800	152.200	0.920	1.270	1.550	1.610	1.380	89.750	87.880	87.530	89.240	0.900	1.300	-0.500	0.050	1.120		0.080	0.090		0.290	88.490	88.400	88.110	88.110	0.420	236.200	1.260
E-15 to E-14	CLASS 2	26.210	300	0.071	0.500	200.000	7.000	72.110	0.191	38.200	6.070	75.650	0.187	39.300	39.300	84.600	0.460	0.560	1.170	1.090	1.200	89.620	88.080	87.950	89.750	1.100	1.100	5.900	0.075	2.070		0.020	0.030		0.030	88.550	88.520	88.490	88.490	0.110	887.500	1.060
E-16 to E-15	CLASS 2	41.420	300	0.071	1.420	70.300	5.000	79.740	0.057	12.700	5.000	79.740	0.057	12.700	12.700	143.900	0.090	0.180	1.270	0.770	2.040	89.990	88.720	88.130	89.620	0.900	0.930	8.100	0.050	7.000		0.000	0.010		0.280	88.820	88.810	88.550	88.550	0.620	161.700	1.170
H-7 to H-6	CLASS 2	7.180	300	0.071	0.500	200.000	7.700	69.430	0.141	27.100	6.770	72.980	0.135	27.500	27.500	84.600	0.320	0.390	1.070	0.970	1.200	88.710	87.260	87.220	88.600	0.900	0.900	33.800	0.050	1.260		0.010	0.010		0.030	87.390	87.380	87.340	87.300	0.630	158.800	1.320
H-8 to H-7	CLASS 2	57.680	300	0.071	1.200	83.100	7.190	71.390	0.087	17.300	6.260	74.950	0.082	17.100	17.300	132.200	0.130	0.240	1.310	0.840	1.870	89.590	88.000	87.310	88.710	0.900	1.080	14.300	0.050	0.500		0.000	0.000		0.690	88.100	88.100	87.390	87.390	1.230	81.600	1.480
H-9 to H-8	CLASS 2	23.900	300	0.071	1.500	66.700	7.000	72.110	0.082	16.400	6.070	75.670	0.077	16.100	16.400	147.800	0.110	0.230	1.400	0.830	2.090	89.960	88.410	88.050	89.590	1.020	1.020	0.000	0.050	4.760	4.930	0.000	0.010	0.010	0.320	88.520	88.510	88.120	88.100	1.630	61.500	1.440
H-10 to H-9	CLASS 2	8.000	300	0.071	1.340	74.500	6.000	75.930	0.019	4.000	6.000	75.930	0.019	4.000	4.000	139.800	0.030	0.060	0.890	0.560	1.980	89.960	88.570	88.460	89.960	0.900	0.900	90.000	0.050	9.700		0.000	0.000		0.100	88.620	88.610	88.520	88.520	1.180	84.800	1.340
K-1 to H-7	CLASS 2	9.440	300	0.071	0.850	118.000	6.000	75.930	0.027	5.600	6.000	75.930	0.027	5.600	5.600	110.600	0.050	0.080	0.830	0.620	1.570	88.780	87.390	87.310	88.710	0.900	0.900	72.200	0.050	9.700		0.000	0.000		0.060	87.450	87.440	87.390	87.390	0.530	190.400	1.340
M-5 to M-4	CLASS 2	50.420	225	0.040	0.670	148.400	7.000	72.110	0.139	27.700	7.000	72.110	0.139	27.700	27.700	46.100	0.600	0.700	1.210	1.080	1.160	89.510	88.650	88.310	89.160	0.600	0.600	30.600	0.050	6.190		0.020	0.150		0.340	88.950	88.790	88.470	88.470	0.650	154.800	0.560
P-1 to E-11	CLASS 2	8.000	300	0.071	2.140	46.700	6.000	75.930	0.039	8.300	6.000	75.930	0.039	8.300	8.300	176.900	0.050	0.120	1.300	0.690	2.500	88.690	87.300	87.130	88.690	0.900	0.910	-90.000	0.150	9.700		0.000	0.010		0.000	87.590	87.580	87.580	87.580	0.000	56630.200	1.100
Q-1 to E-12	CLASS 2	10.580	375	0.110	1.770	56.300	8.890	64.900	0.420	75.700	7.990	68.330	0.402	76.300	76.300	289.300	0.260	0.690	2.230	1.260	2.620	89.150	87.580	87.390	89.040	1.100	1.160	42.500	0.075	0.670		0.020	0.020		0.010	87.970	87.960	87.940	87.940	0.130	768.500	1.170
Q-2 to Q-1	CLASS 2	8.000	300	0.071	1.120	89.500	6.000	75.930	0.023	4.900	6.000	75.930	0.023	4.900	4.900	127.300	0.040	0.070	0.880	0.590	1.800	89.140	87.740	87.660	89.150	0.900	0.900	-46.300	0.075	9.700		0.000	0.000		0.000	87.970	87.970	87.970	87.970	0.000	-32525.200	1.160
R-1 to Q-1	CLASS 2	18.440	375	0.110	0.300	333.300	8.600	66.010	0.388	71.200	8.450	66.570	0.387	71.600	71.600	117.200	0.610	0.650	1.110	1.230	1.060	89.260	87.690	87.630	89.150	0.900	1.110	42.300	0.050	0.780		0.020	0.020		0.020	88.000	87.990	87.970	87.970	0.080	1258.500	1.260
R-2 to R-1	CLASS 2	14.190	375	0.110	0.300	333.300	8.380	66.860	0.356	66.100	8.230	67.420	0.355	66.400	66.400	117.200	0.570	0.600	1.090	1.200	1.060	89.320	87.780	87.740	89.260	0.900	0.960	-26.400	0.050	2.070	2.460	0.020	0.040	0.050	0.020	88.060	88.020	88.000	88.000	0.090	1116.000	1.250
R-3 to R-2	CLASS 2	30.300	300	0.071	1.450	69.100	7.000	72.110	0.060	12.000	7.000	72.110	0.060	12.000	12.000	145.200	0.080	0.170	1.260	0.760	2.050	89.530	88.290	87.850	89.320	0.900	0.900	62.000	0.075	7.000		0.000	0.010		0.350	88.380	88.370	88.050	88.060	1.050	94.900	1.140
S-1 to R-2	CLASS 2	6.530	300	0.071	1.500	66.700	8.330	67.060	0.201	37.400	8.180	67.620	0.200	37.500	37.500	147.800	0.250	0.530	1.760	1.070	2.090	89.540	87.950	87.850	89.320	1.100	1.100	-86.000	0.075	2.090	2.660	0.010	0.030	0.040	0.080	88.140	88.100	88.050	88.060	0.690	144.100	1.400
S-2 to S-1	CLASS 2	28.220	300	0.071	1.370	73.100	8.090	67.950	0.201	37.900	7.940	68.520	0.200	38.000	38.000	141.000	0.270	0.540	1.700	1.080	2.000	89.900	88.790	88.400	89.540	0.600	0.780	22.300	0.450	2.020	2.710	0.010	0.030	0.040	0.340	88.980	88.940	88.510	88.140	1.520	65.600	0.920
S-3 to S-2	CLASS 2	11.530	225	0.040	0.500	200.000	7.900	68.690	0.201	38.400	7.750	69.260	0.200	38.400	38.400	39.600	0.970	0.970	1.130	1.240	1.000	89.950	88.920	88.860	89.900	0.600	0.780	88.800	0.075	1.470		0.050	0.070		0.060	89.170	89.100	89.030	88.980	0.630	158.200	0.780
S-4 to S-3	CLASS 2	44.720	225	0.040	0.500	200.000	7.150	71.550	0.155	30.900	7.000	72.110	0.154	30.900	30.900	39.600	0.780	0.780	1.100	1.120	1.000	90.090	89.190	88.970	89.950	0.600	0.630	36.600	0.050	4.230	4.510	0.030	0.130	0.140	0.200	89.480	89.340	89.170	89.170	0.390	257.100	0.610
S-5 to S-4	CLASS 2	14.250	225	0.040	1.260	79.100	7.000	72.110	0.055	11.000	7.000	72.110	0.055	11.000	11.000	63.500	0.170	0.280	1.210	0.790	1.600	90.280	89.420	89.240	90.090	0.600	0.600	-90.000	0.050	7.000		0.000	0.030		0.060	89.540	89.510	89.470	89.480	0.250	404.300	0.740
T-1 to E-13	CLASS 2	10.560	300	0.071	3.410	29.400	6.000	75.930	0.023	4.900	6.000	75.930	0.023	4.900	4.900	223.700	0.020	0.070	1.320	0.600	3.170	89.310	87.920	87.560	89.240	0.900	0.910	-49.800	0.075	9.700		0.000	0.000		0.000	88.110	88.110	88.110	88.110	0.000	-29584.000	1.200
U-1 to E-14	CLASS 2	11.710	300	0.071	1.340	74.500	7.850	68.870	0.413	79.000	6.960	72.260	0.402	80.700	80.700	139.700	0.580	1.140	2.040	1.440	1.980	89.730	88.110	87.950	89.750	1.200	1.300	49.400	0.075	0.800		0.070	0.050		0.050	88.600	88.540	88.490	88.490	0.460	219.400	1.130
U-2 to U-1	CLASS 2	8.000	300	0.071	0.500	200.000	7.740	69.290	0.390	75.100	6.850	72.680	0.379	76.500	76.500	84.600	0.900	1.080	1.350	1.410	1.200	89.730	88.200	88.160	89.730	0.900	1.040	-40.600	0.050	2.040	2.490	0.060	0.120	0.150	0.030	88.780	88.630	88.600	88.600	0.410	243.500	0.950
U-3 to U-2	CLASS 2	38.220	300	0.071	0.500	200.000	7.210	71.330	0.365	72.300	6.320	74.720	0.354	73.400	73.400	84.600	0.870	1.040	1.340	1.380	1.200	89.960	88.440	88.250	89.730	0.900	1.150	91.000	0.050	0.700		0.060	0.040		0.150	88.940	88.900	88.750	88.780	0.380	263.400	1.020
U-4 to U-3	CLASS 2	14.840	300	0.071	0.500	200.000	7.000	72.110	0.330	66.000	6.110	75.500	0.322	67.500	67.500	84.600	0.800	0.950	1.320	1.330	1.200	90.050	88.570	88.490	89.960	0.900	1.080	19.500	0.050	1.070		0.050	0.050		0.050	89.030	88.980	88.940	88.940	0.320	310.800	1.020
U-5 to U-4	CLASS 2	55.800	300	0.071	0.970	103.600	6.000	75.930	0.222	46.900	5.000	79.740	0.215	47.600	47.600	118.200	0.400	0.670	1.580	1.160	1.670	90.390	89.150	88.620	90.050	0.900	0.900	6.200	0.050	6.870		0.020	0.160		0.340	89.480	89.320	89.030	89.030	0.520	191.900	0.910
V-1 to U-4	CLASS 2	8.000	300	0.071	0.500	200.000	6.000	75.930	0.046	9.700	6.000	75.930	0.046	9.700	9.700	84.600	0.120	0.140	0.810	0.720	1.200	90.050	88.660	88.620	90.050	0.900	0.900	96.200	0.050	9.700		0.000	0.010		0.000	89.040	89.030	89.030	89.030	0.010	12295.000	1.010
W-1 to E-15	CLASS 2	8.100	300	0.071	1.150	87.000	6.000	75.930	0.055	11.600	6.000	75.930	0.055	11.600	11.600	129.200	0.090	0.160	1.150	0.750	1.830	89.620	88.230	88.130	89.620	0.900	0.900	-82.400	0.050	9.700		0.000	0.010		0.000	88.570	88.550	88.550	88.550	0.010	8936.900	1.050

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

100mm on Original

Scale

Planner

RobertsDay planning·design·place

Filename C-5C-361-10029435-SwdCalcsTable.dwg

Client

RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures

Drawn: C.MENEZ

Designed: K.ANGELES

Project Manager: J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: STORMWATER DRAINAGE CALCULATION TABLES SHEET 2 OF 2

ARCADIS

Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289

Tel No: +61 3 8623 4000

www.arcadis.com

Drawing No.	Project No.	Issue
C-5C-361	10029435	01

Last Saved: WBMN1953 Date Plotted: 10 Aug 2021 - 04:07PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-5C\DD\C-5C-361-10029435-SwdCalcsTable.dwg

V1

LEGEND

- PROPOSED KERB & CHANNEL
- PROPOSED ROAD PAVEMENT
- PROPOSED CONCRETE FOOTPATH/DRIVEWAY
- STREET TREE
- KERB INLET DIVERSION. REFER TO DRAWING C-18B-702 FOR DETAILS
- SWD — PROPOSED STORMWATER DRAINAGE
- S — PROPOSED SEWERAGE RETICULATION
- W — PROPOSED WATER RETICULATION
- R — PROPOSED RECYCLED WATER RETICULATION
- E — PROPOSED ELECTRICITY UNDER GROUND
- C — PROPOSED COMMUNICATIONS
- G — PROPOSED GAS RETICULATION
- STAGE BOUNDARY
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVE

NOTE:

1. FOR GENERAL NOTES, REFER TO DRAWING No. C-5C-002.
2. PASSIVE IRRIGATION LOCATIONS ARE SUBJECT TO FINAL LANDSCAPE AND ELECTRICAL DESIGN PLANS.
3. FOR FURTHER DETAILS REFER TO THE LANDSCAPE ARCHITECT DESIGN PLANS.

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	20.08.21
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

Scale: 1 : 500 (0 5 10 20 30 40 50m)

Planner: RobertsDay planning·design·place

Filename C-5C-700-10029435-PassiveIrrigationPlan.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Issue Signatures: Drawn C.MENEZ; Designed K.ANGELES; Project Manager J.MUNRO

Original Size: A1

Height Datum: AHD

Grid: MGA

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Project: EYNESBURY TOWNSHIP STAGE 5C

Title: PASSIVE IRRIGATION LAYOUT

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No. C-5C-700 — Project No. 10029435 — Issue 02

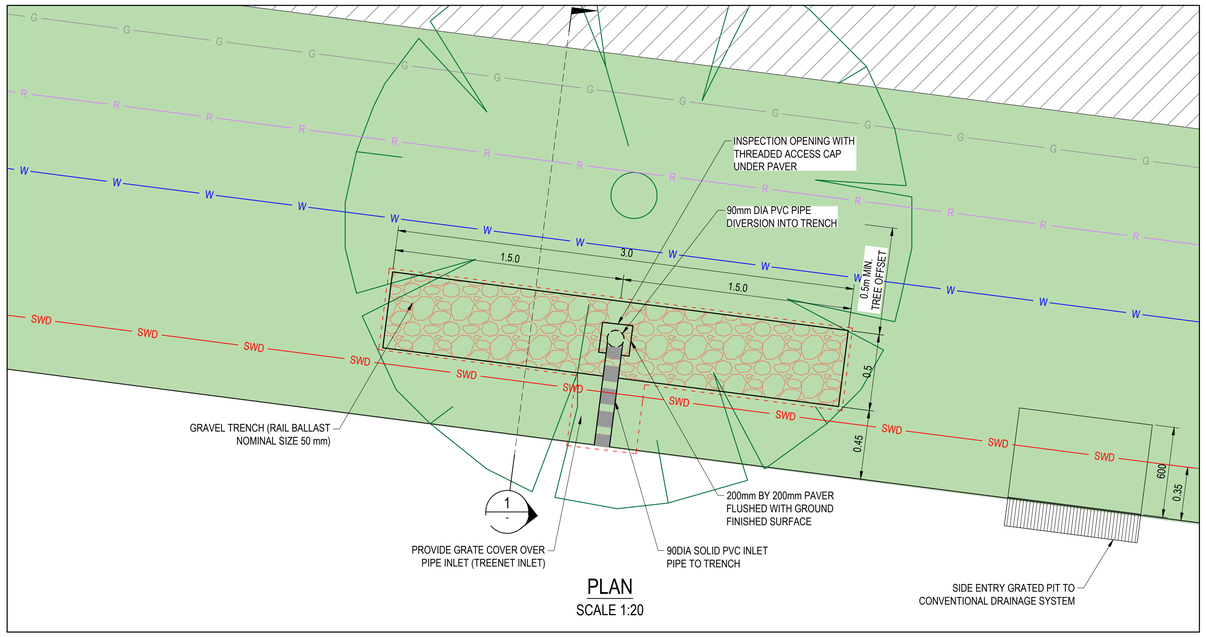
100mm on Original

Last Saved: MENEZC4027 Date Plotted: 16 Aug 2021 - 03:25PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-5C\DD\C-5C-700-10029435-PassiveIrrigationPlan.dwg V1

NOTE:

GRAVEL TRENCH - KERB INLET

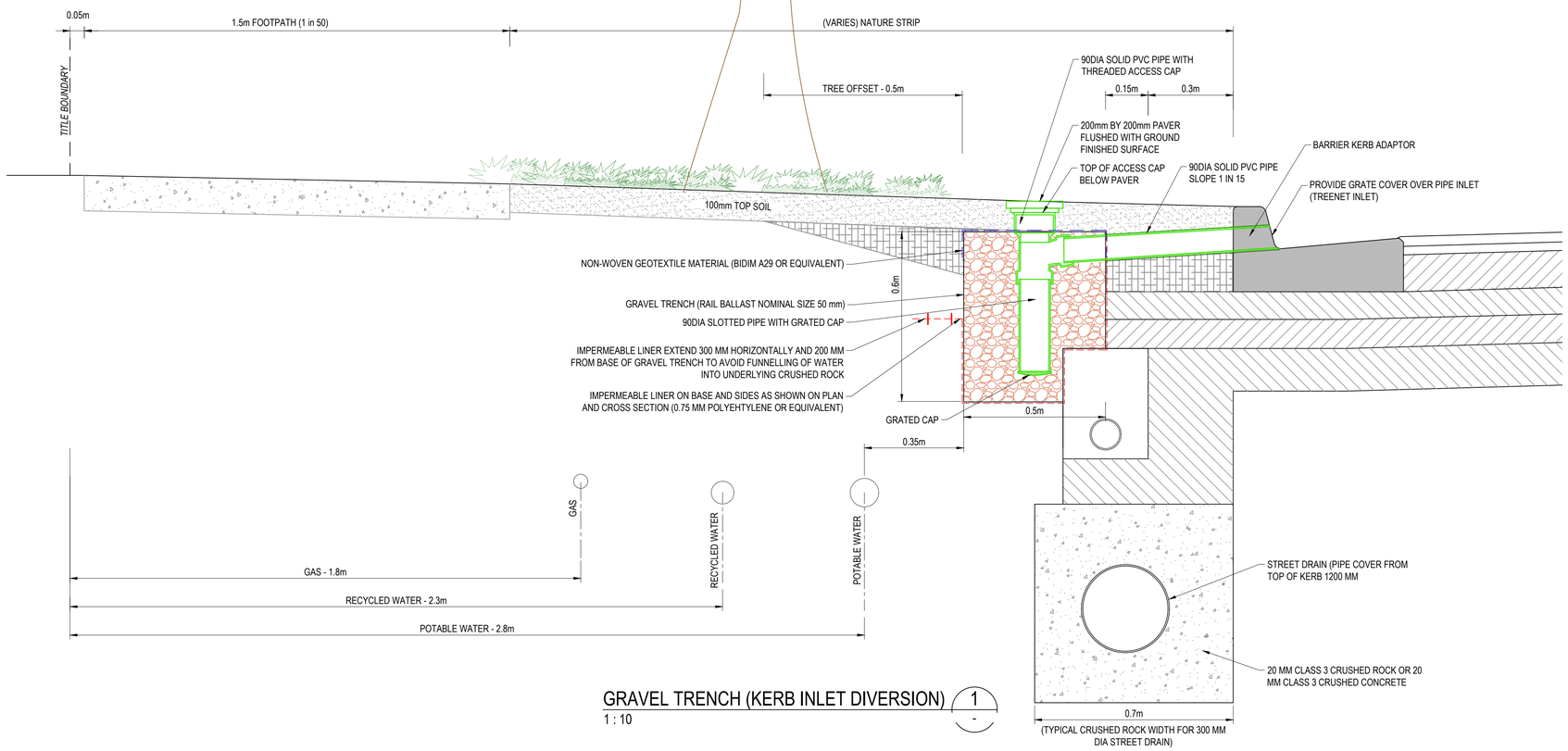
1. TOP OF GRAVEL TRENCH TO BE LINED WITH NON-WOVEN GEOTEXTILE MATERIAL AS SHOWN TO PREVENT FINE MIGRATION INTO TRENCH.
2. PASSIVE IRRIGATION PIPES AND FITTINGS TO BE 90mm DIAMETER PVC SEWER CLASS.
3. ALL PVC JOINTS TO BE SEALED WITH SOLVENT CEMENT.
4. ALL GRASSED AREAS TO BE TOP DRESSED WITH 100 MM TOPSOIL AND SEEDED AS SPECIFIED.
5. SERVICE DEPTHS AND LOCATIONS ARE INDICATIVE ONLY.
6. FOR GENERAL NOTES, REFER TO DRAWING No. C-5C-002.



PLAN

SCALE 1:20

TREENET INLET



GRAVEL TRENCH (KERB INLET DIVERSION) 1 -

1 : 10

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	CM	ZS	JM	09.07.21

100mm on Original

Scale

0 100 200 400 600 800 1000mm

1 : 10

0 0.5 1 1.5 2m

1 : 20

Planner

RobertsDay planning·design·place

Filename C-5C-701-10029435-PassiveIrrigationDetails.dwg

Client

RESIMAX GROUP

Status	FOR APPROVAL
Checker	Z.STROGUSZ
Scales	1:500
Original Size	A1
Height Datum	AHD
Grid	MGA

Original Issue Signatures

Drawn C.MENEZ	
Designed K.ANGELES	
Project Manager J.MUNRO	

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Project

EYNESBURY TOWNSHIP STAGE 5C

Title

PASSIVE IRRIGATION DETAILS

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No.	Project No.	Issue
C-5C-701	10029435	01