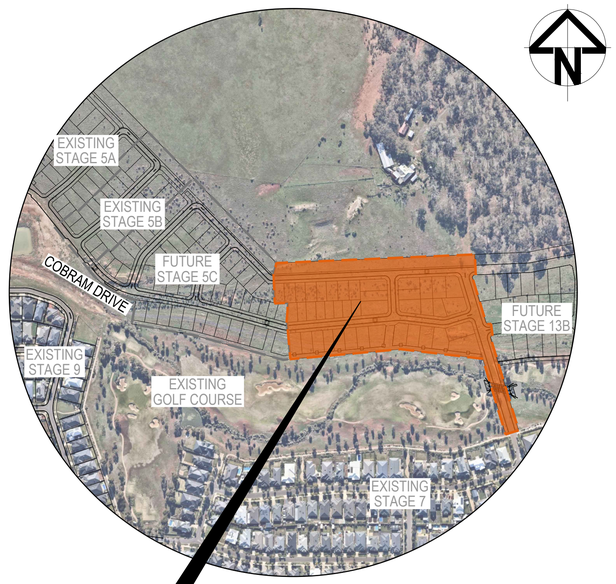
ARCADIS Design & Consultancy for natural and built assets

EYNESBURY TOWNSHIP

STAGE 13A CIVIL WORKS
MELTON CITY COUNCIL

DRAWING SCHEDULE	
DRAWING No.	DRAWING DESCRIPTION
C-13A-001	COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE
C-13A-002	GENERAL NOTES
C-13A-100	EARTHWORKS LAYOUT PLAN
C-13A-200	SETOUT PLAN
C-13A-220	ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 1 OF 2
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C-13A-240	BUNDALONG DRIVE LONGITUDINAL SECTION
C-13A-241	BUNDALONG DRIVE CROSS SECTIONS SHEET 1 OF 2
C-13A-242	BUNDALONG DRIVE CROSS SECTIONS SHEET 2 OF 2
C-13A-243	WYUNA STREET LONGITUDINAL AND CROSS SECTIONS
C-13A-244	BENDIGO DRIVE LONGITUDINAL SECTION
C-13A-245	BENDIGO DRIVE CROSS SECTIONS SHEET 1 OF 2
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C-13A-248	COBRAM DRIVE LONGITUDINAL SECTION
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C-13A-300	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 6
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C-13A-360	STORMWATER DRAINAGE CALCULATION TABLES SHEET 1 OF 2
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C-13A-700	PASSIVE IRRIGATION LAYOUT
C-13A-701	PASSIVE IRRIGATION DETAILS

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



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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Project: EYNESBURY TOWNSHIP STAGE 13A

Title: COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE

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Drawing No.	Project No.	Issue
C-13A-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.

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	WB	ZS	JM	02.08.21

100mm on Original

Scale

Planner: RobertsDay planning·design·place

Filename C-13A-002-10029435-Notes.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500 — Original Issue Signatures

Original Size: A1

Height Datum: AHD

Grid: MGA

Drawn: W.BUMAGAT

Designed: K.ANGELES

Project Manager: J.MUNRO

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Project: EYNESBURY TOWNSHIP
STAGE 13A

Title: GENERAL NOTES

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Drawing No. C-13A-002 — Project No. 10029435 — Issue 01

LEGEND

- PROPOSED STAGE BOUNDARY
- 5.0 EXISTING SURFACE CONTOURS
- 5.0 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-13A-002.

DIAL BEFORE YOU DIG www.1100.com.au

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	

Reserve No. 86

BUNDALONG DRIVE

BARMAH WAY

BENDIGO DRIVE

COBRAM DRIVE

WYUNA STREET

STAGE 13A

FUTURE STAGE 13B

FUTURE STAGE 5C

EXISTING GOLF COURSE

Reserve No. 87

EXISTING STAGE 7

GOLF TEE

INSET - A

REFER TO INSET-A FOR CONTINUATION

CITY OF MELTON

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

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

Scale: 1 : 500

Planner: RobertsDay planning·design·place

Filename C-13A-100-10029435-EarthworksPlan.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures
Drawn W.BUMAGAT
Designed K.ANGELES
Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP
STAGE 13A

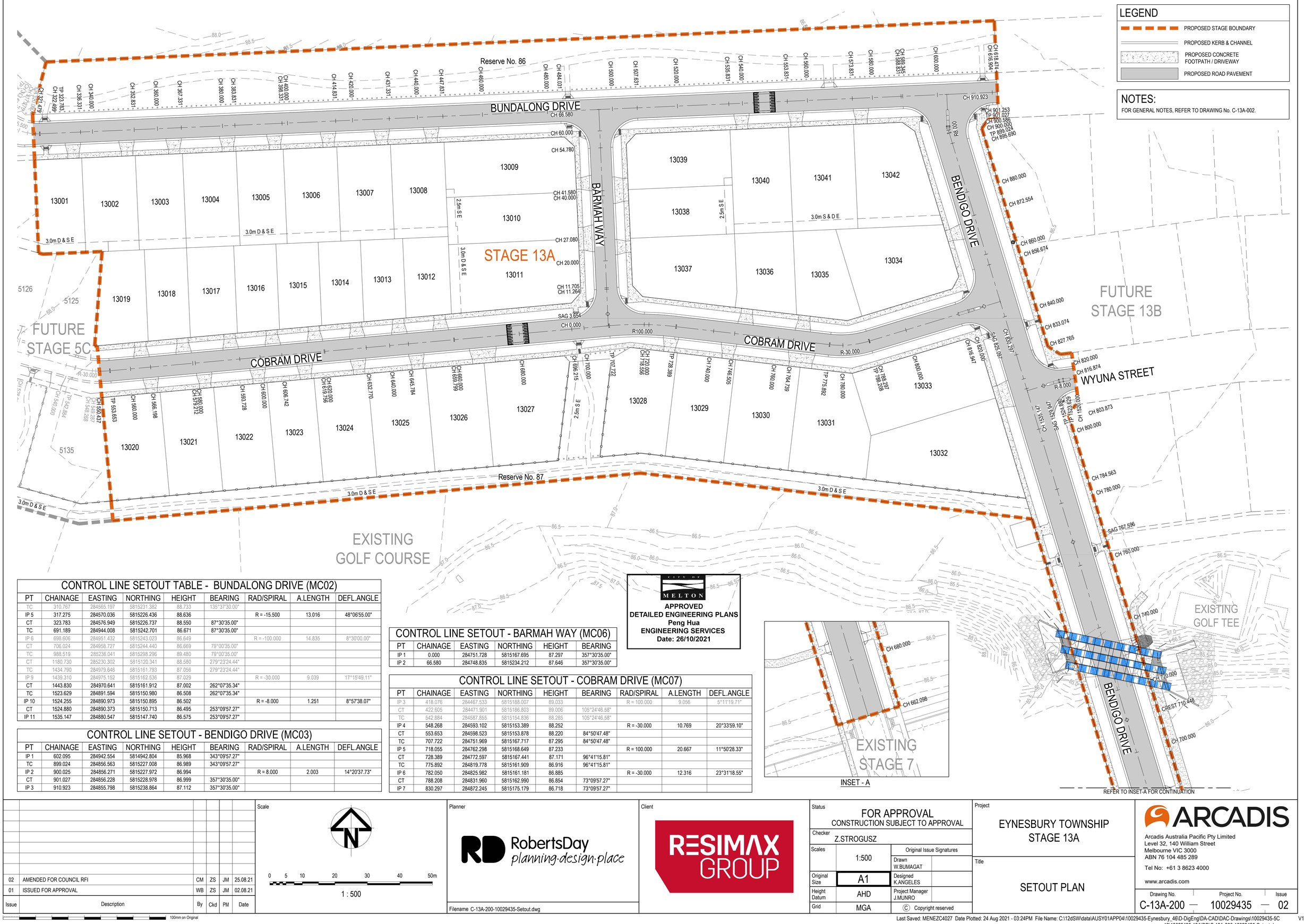
Title: EARTHWORKS LAYOUT PLAN

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Drawing No. C-13A-100 — Project No. 10029435 — Issue 02

100mm on Original

Last Saved: MENEZC4027 Date Plotted: 24 Aug 2021 - 01:41PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C 13\10029435-13A\DD\C-13A-100-10029435-EarthworksPlan.dwg V1



CONTROL LINE SETOUT TABLE - BUNDALONG DRIVE (MC02)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
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"			
TC	988.519	285236.041	5815298.296	89.480	79°00'35.00"			
CT	1180.730	285230.302	5815120.341	88.580	279°23'24.44"			
TC	1434.790	284979.646	5815161.793	87.056	279°23'24.44"			
IP 9	1439.310	284975.152	5815162.536	87.029		R = -30.000	9.039	17°15'49.11"
CT	1443.830	284970.641	5815161.912	87.002	262°07'35.34"			
TC	1523.629	284891.594	5815150.980	86.508	262°07'35.34"			
IP 10	1524.255	284890.973	5815150.895	86.502		R = -8.000	1.251	8°57'38.07"
CT	1524.880	284890.373	5815150.713	86.495	253°09'57.27"			
IP 11	1535.147	284880.547	5815147.740	86.575	253°09'57.27"			

CONTROL LINE SETOUT - BENDIGO DRIVE (MC03)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	602.095	284942.554	5814942.804	85.968	343°09'57.27"			
TC	899.024	284856.563	5815227.008	86.989	343°09'57.27"			
IP 2	900.025	284856.271	5815227.972	86.994		R = 8.000	2.003	14°20'37.73"
CT	901.027	284856.228	5815228.978	86.999	357°30'35.00"			
IP 3	910.923	284855.798	5815238.864	87.112	357°30'35.00"			

CONTROL LINE SETOUT - BARMAH WAY (MC06)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	284751.728	5815167.695	87.297	357°30'35.00"
IP 2	66.580	284748.835	5815234.212	87.646	357°30'35.00"

CONTROL LINE SETOUT - COBRAM DRIVE (MC07)

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
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"			
TC	775.892	284819.778	5815161.909	86.916	96°41'15.81"			
IP 6	782.050	284825.982	5815161.181	86.885		R = -30.000	12.316	23°31'18.55"
CT	788.208	284831.960	5815162.990	86.854	73°09'57.27"			
IP 7	830.297	284872.245	5815175.179	86.718	73°09'57.27"			

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

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

Scale: 1 : 500

Planner: RobertsDay planning·design·place

Filename C-13A-200-10029435-Setout.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures
Drawn W.BUMAGAT
Designed K.ANGELES
Project Manager J.MUNRO

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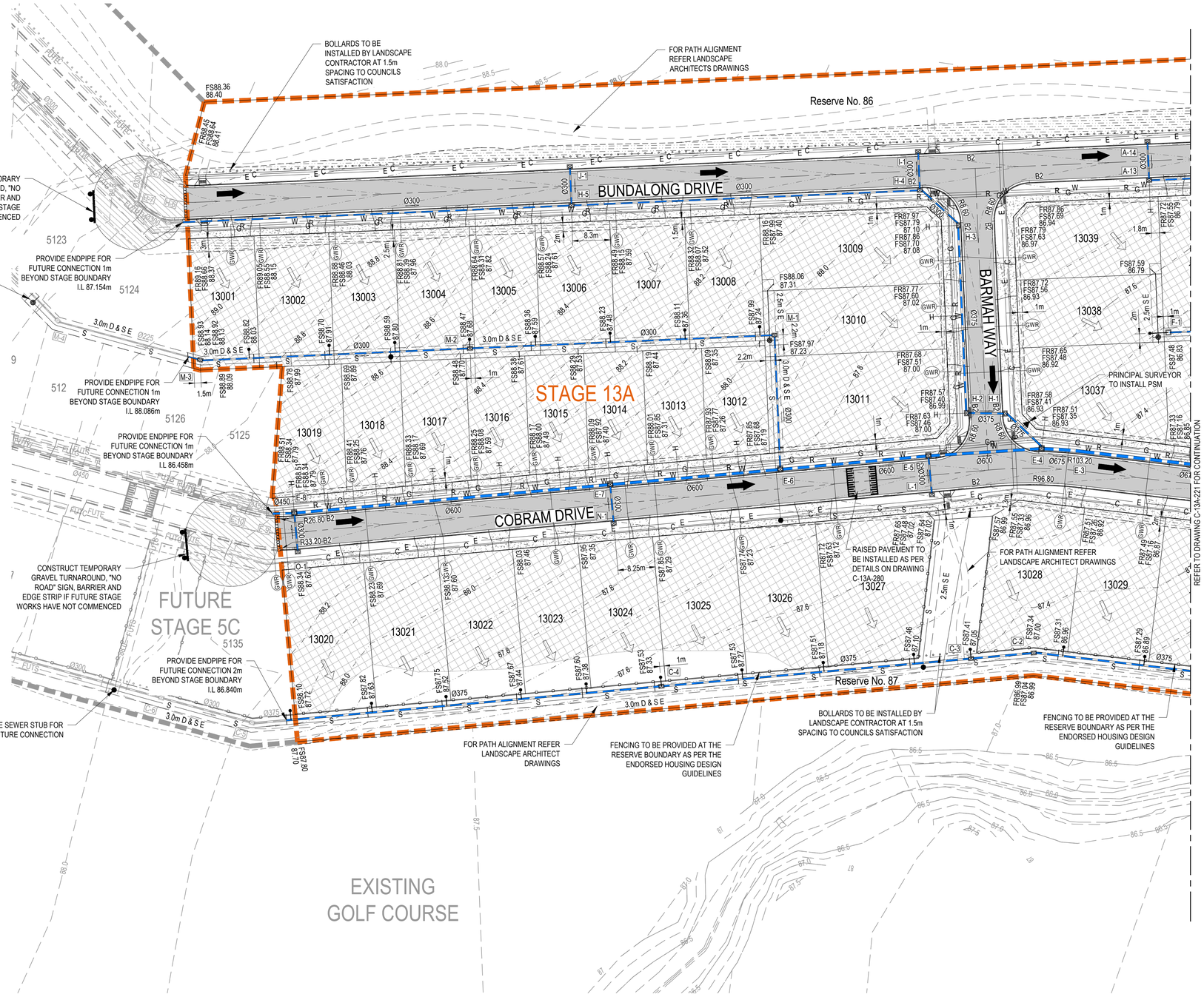
Project: EYNESBURY TOWNSHIP
STAGE 13A

Title: SETOUT PLAN

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Drawing No. C-13A-200 — Project No. 10029435 — Issue 02

100mm on Original



LEGEND

- PROPOSED STAGE BOUNDARY
- PROPOSED DESIGN CONTOURS
- PROPOSED KERB & CHANNEL
- FALL OF ALLOTMENT
- DIRECTION OF OVERLAND FLOW
- PROPOSED STORMWATER DRAINAGE
- PROPOSED PIT LABEL
- PROPOSED SEWERAGE RETICULATION
- PROPOSED WATER RETICULATION
- PROPOSED RECYCLED WATER RETICULATION
- PROPOSED ELECTRICITY UNDER GROUND
- PROPOSED COMMUNICATIONS
- PROPOSED GAS RETICULATION
- PROPOSED DRAINAGE INLET
- PROPOSED CONCRETE FOOTPATH/DRIVEWAY
- PROPOSED ROAD PAVEMENT
- PROPOSED GAS / CLASS A / POTABLE WATER HOUSE CONNECTION
- BOLLARD
- FINISHED RIDGE LEVEL
- FINISHED SURFACE LEVEL
- EXISTING SURFACE LEVEL
- PROPOSED RIDGE LINE
- CUT (> 0.3m)
- FILL (> 0.3m)
- EXISTING STAGE BOUNDARY
- EXISTING SURFACE CONTOURS
- EXISTING STORMWATER DRAINAGE
- EXISTING SEWER RETICULATION
- EXISTING WATER RETICULATION
- EXISTING RECYCLED WATER RETICULATION
- EXISTING ELECTRICITY UNDER GROUND
- EXISTING COMMUNICATIONS
- EXISTING GAS RETICULATION
- EXISTING SWALE
- FUTURE STORMWATER DRAINAGE
- FUTURE SEWER RETICULATION
- FUTURE WATER RETICULATION
- FUTURE RECYCLED WATER RETICULATION
- FUTURE COMMUNICATIONS
- FUTURE ELECTRICAL UNDER GROUND
- FUTURE GAS RETICULATION
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED
- PROPOSED FENCE

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

NOTES:

1. FUTURE STAGE 5C TO BE CONSTRUCTED CONCURRENTLY.

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	AS2	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
BUNDALONG DRIVE	AS1	14.00	6.40	7.30	7.60	B2	B2	4.35	2.35
BARMAH WAY	AP	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
BENDIGO DRIVE	AS2	20.00	9.50	10.40	10.70	B2	B2	4.80	4.80

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	NORTH	1.80	NORTH	2.80	NORTH	2.30	SOUTH	2.60	SOUTH	1.80
BUNDALONG DRIVE	SOUTH	1.80	SOUTH	2.80	SOUTH	2.30	NORTH	0.90	NORTH	0.40
BARMAH WAY	WEST	1.80	WEST	2.80	WEST	2.30	EAST	2.60	EAST	1.80
BENDIGO DRIVE	EAST	1.80	EAST	2.80	EAST	2.30	WEST	2.60	WEST	1.80

Issue	Description	By	Ckd	PM	Date
03	FENCE NOTE CHANGED	CM	ZS	JM	07.10.21
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

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

Planner: RobertsDay planning·design·place

Filename C-13A-220-10029435-Roadworks&DrainagePlan.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500 (A1)

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures
Drawn: W.BUMAGAT
Designed: K.ANGELES
Project Manager: J.MUNRO

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Project: EYNESBURY TOWNSHIP
STAGE 13A

Title: ROADWORKS AND DRAINAGE LAYOUT PLAN
SHEET 1 OF 2

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Drawing No. C-13A-220 — Project No. 10029435 — Issue 03

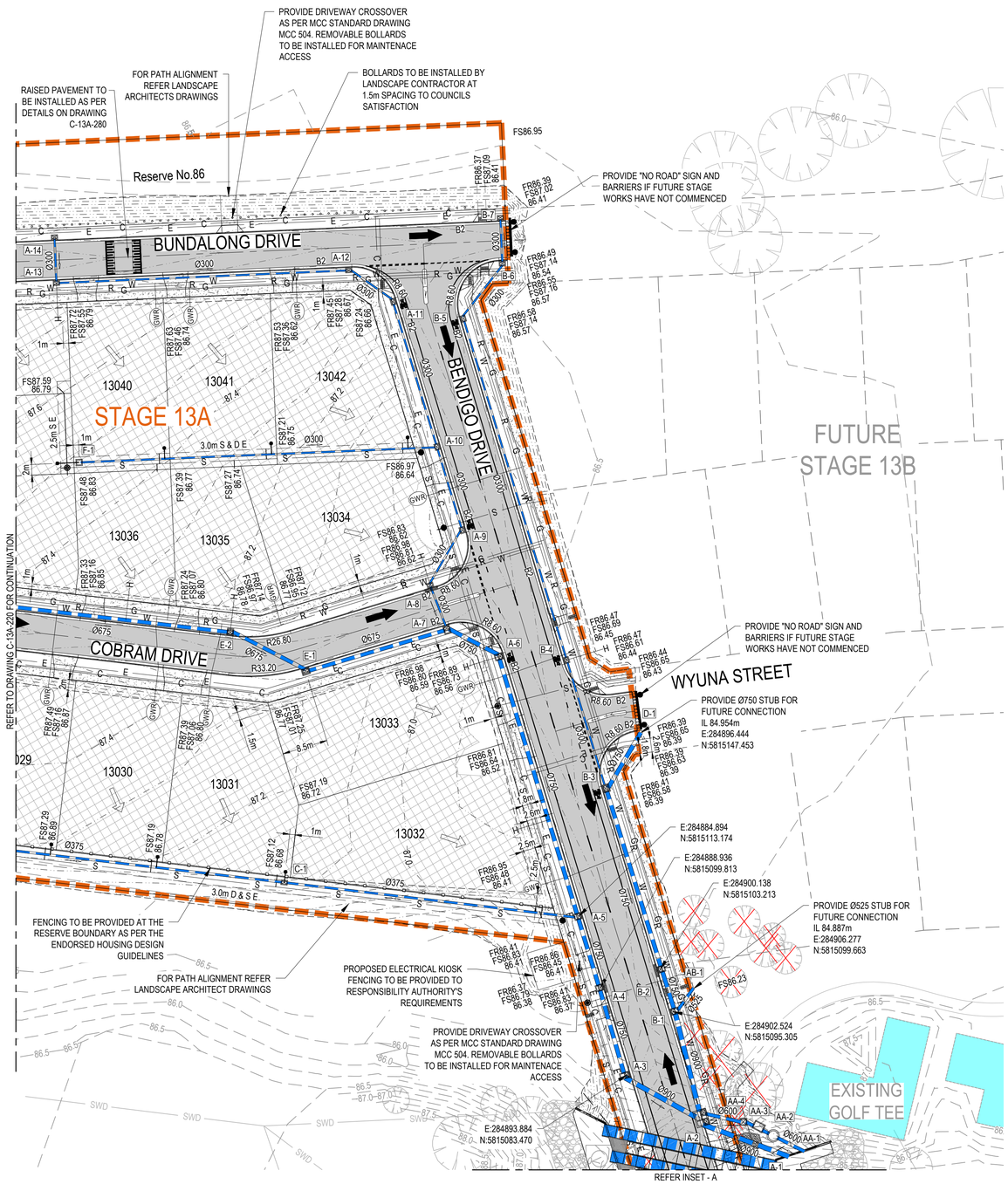
100mm on Original

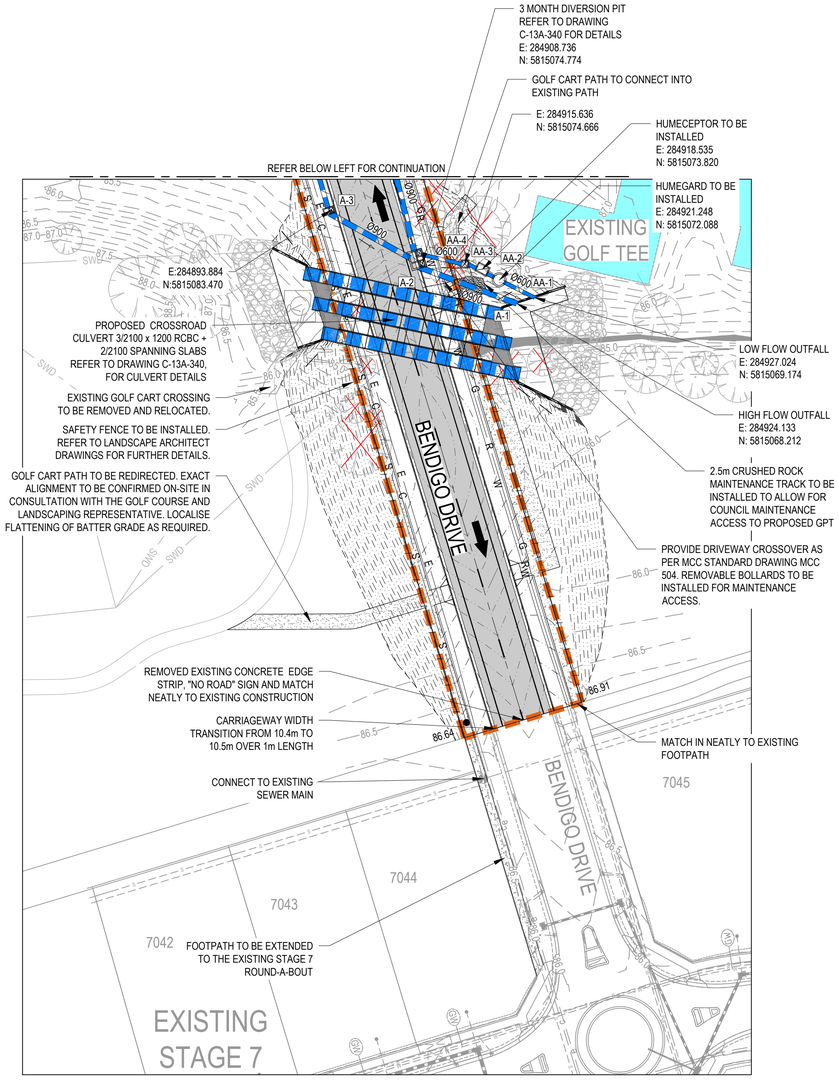
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V1

CITY OF MELTON

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Date: 26/10/2021





INSET - A

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. FUTURE STAGE 5C TO BE CONSTRUCTED CONCURRENTLY.

Issue	Description	By	Ckd	PM	Date
03	FENCE NOTE CHANGED	CM	ZS	JM	07.10.21
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

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

Planner: RobertsDay planning·design·place

Filename C-13A-221-10029435-Roadworks&DrainagePlan.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500 — Original Size: A1 — Height Datum: AHD — Grid: MGA

Original Issue Signatures: Drawn W.BUMAGAT; Designed K.ANGELES; Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP
STAGE 13A

Title: ROADWORKS AND DRAINAGE LAYOUT PLAN
SHEET 2 OF 2

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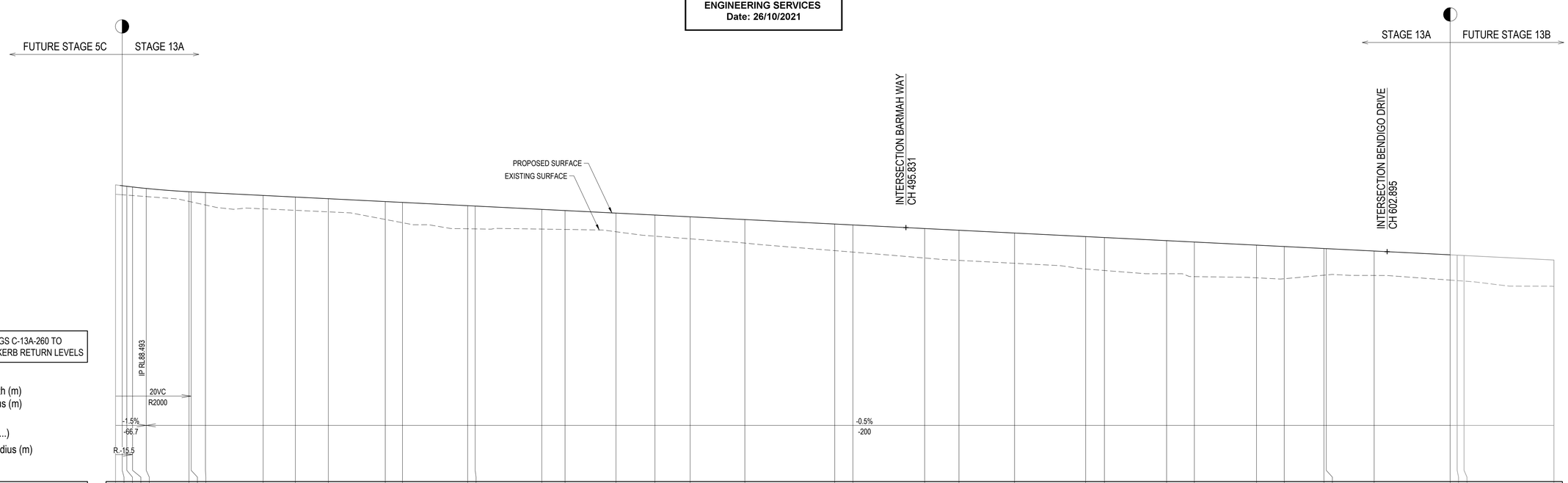
Drawing No.	Project No.	Issue
C-13A-221	10029435	03

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NOTE:
FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.

CITY OF MELTON
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ENGINEERING SERVICES
Date: 26/10/2021



REFER DRAWINGS C-13A-260 TO C-13A-262 FOR KERB RETURN LEVELS

DATUM RL.82.000

| | | |

CITY OF MELTON

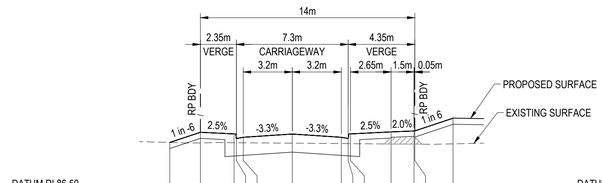
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

LEGEND

STRUCTURAL FILL

NOTE:

1. FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.
2. STRUCTURAL FILL IS REQUIRED WHERE FOOTPATH OR PAVEMENT IS CONSTRUCTED ABOVE EXISTING SURFACE.



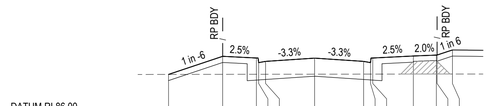
DATUM RL86.50											
PROPOSED LEVEL	88.088	88.421	88.366	88.216	88.256	88.363	88.256	88.216	88.366	88.432	88.462	88.463	88.880
EXISTING LEVEL	88.09	88.07	88.08	88.08	88.08	88.06	88.05	88.05	88.05	88.04	88.03	88.03	88.04
OFFSET	-6.000	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	10.500

CH 352.831



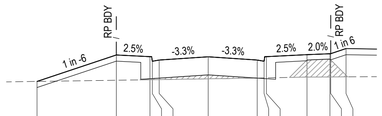
DATUM RL86.25											
PROPOSED LEVEL	87.639	88.111	88.056	87.906	87.946	88.053	87.946	87.906	88.056	88.122	88.152	88.153	88.487
EXISTING LEVEL	87.64	87.63	87.62	87.62	87.62	87.61	87.61	87.60	87.60	87.59	87.59	87.59	87.58
OFFSET	-8.832	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	10.000

CH 414.831



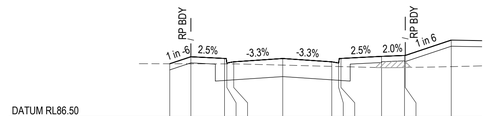
DATUM RL86.00											
PROPOSED LEVEL	87.295	87.885	87.830	87.680	87.720	87.827	87.720	87.680	87.830	87.896	87.926	87.928	88.094
EXISTING LEVEL	87.30	87.30	87.30	87.30	87.30	87.30	87.31	87.31	87.31	87.31	87.31	87.31	87.31
OFFSET	-9.538	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.000

CH 460.000



DATUM RL85.25											
PROPOSED LEVEL	86.643	87.506	87.451	87.301	87.341	87.448	87.341	87.301	87.451	87.517	87.547	87.548	87.715
EXISTING LEVEL	86.64	86.68	86.70	86.70	86.70	86.73	86.75	86.76	86.76	86.78	86.79	86.79	86.79
OFFSET	-11.177	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.000

CH 535.831



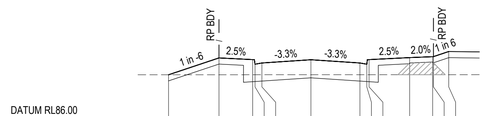
DATUM RL86.50											
PROPOSED LEVEL	88.274	88.503	88.448	88.298	88.338	88.445	88.338	88.298	88.448	88.515	88.545	88.546	89.046
EXISTING LEVEL	88.27	88.27	88.27	88.27	88.27	88.23	88.19	88.18	88.18	88.15	88.15	88.15	88.18
OFFSET	-7.377	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	11.000

CH 336.331



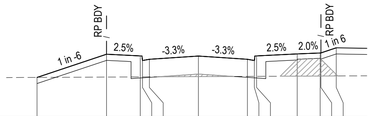
DATUM RL86.25											
PROPOSED LEVEL	87.674	88.193	88.138	87.988	88.028	88.135	88.028	87.988	88.138	88.205	88.235	88.236	88.569
EXISTING LEVEL	87.67	87.66	87.65	87.65	87.64	87.62	87.62	87.62	87.62	87.61	87.61	87.61	87.61
OFFSET	-9.115	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	10.000

CH 398.331



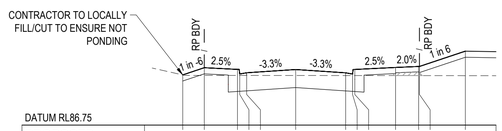
DATUM RL86.00											
PROPOSED LEVEL	87.396	87.946	87.891	87.741	87.781	87.888	87.781	87.741	87.891	87.957	87.987	87.988	88.155
EXISTING LEVEL	87.40	87.40	87.40	87.40	87.40	87.40	87.40	87.40	87.40	87.40	87.40	87.40	87.40
OFFSET	-9.297	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.000

CH 447.831



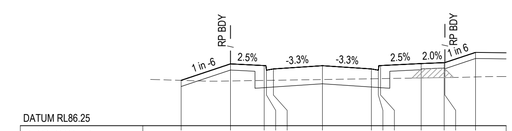
DATUM RL85.50											
PROPOSED LEVEL	86.828	87.585	87.530	87.380	87.420	87.527	87.420	87.380	87.530	87.596	87.626	87.627	87.794
EXISTING LEVEL	86.83	86.84	86.84	86.85	86.85	86.85	86.86	86.86	86.86	86.87	86.87	86.87	86.88
OFFSET	-10.540	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.000

CH 520.000



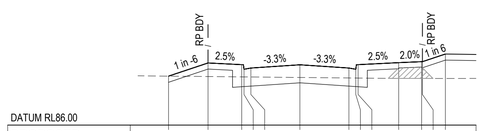
DATUM RL86.75											
PROPOSED LEVEL	88.389	88.623	88.569	88.419	88.469	88.566	88.457	88.417	88.567	88.633	88.663	88.665	89.165
EXISTING LEVEL	88.39	88.37	88.37	88.37	88.37	88.37	88.37	88.37	88.37	88.37	88.37	88.37	88.36
OFFSET	-7.371	-5.967	-3.800	-3.650	-3.200	0.000	3.264	3.714	3.864	6.526	8.031	8.081	11.081

CH 322.499



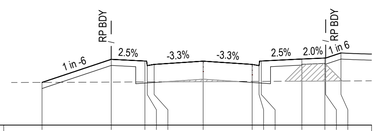
DATUM RL86.25											
PROPOSED LEVEL	87.729	88.266	88.211	88.061	88.101	88.208	88.101	88.061	88.211	88.277	88.307	88.308	88.642
EXISTING LEVEL	87.73	87.71	87.73	87.73	87.73	87.76	87.78	87.78	87.79	87.81	87.82	87.82	87.84
OFFSET	-9.224	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	10.000

CH 383.831



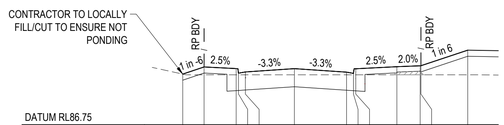
DATUM RL86.00											
PROPOSED LEVEL	87.599	88.028	87.973	87.823	87.863	87.970	87.863	87.823	87.973	88.040	88.070	88.071	88.321
EXISTING LEVEL	87.60	87.59	87.57	87.57	87.57	87.56	87.54	87.54	87.54	87.52	87.52	87.52	87.52
OFFSET	-8.579	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.500

CH 431.331



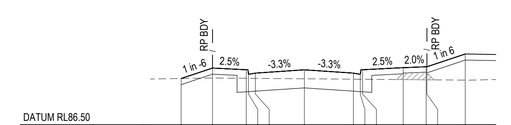
DATUM RL85.50											
PROPOSED LEVEL	86.883	87.647	87.592	87.442	87.482	87.589	87.482	87.442	87.592	87.658	87.688	87.689	87.856
EXISTING LEVEL	86.89	86.90	86.91	86.91	86.91	86.92	86.93	86.93	86.93	86.93	86.94	86.94	86.94
OFFSET	-10.520	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.000

CH 507.631



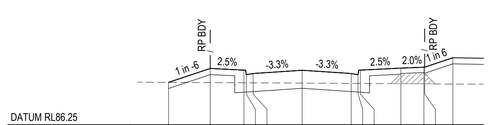
DATUM RL86.75											
PROPOSED LEVEL	88.402	88.634	88.582	88.432	88.472	88.578	88.465	88.425	88.575	88.642	88.672	88.675	89.183
EXISTING LEVEL	88.40	88.38	88.38	88.38	88.38	88.38	88.38	88.38	88.38	88.38	88.38	88.38	88.38
OFFSET	-7.287	-5.894	-3.800	-3.650	-3.200	0.000	3.409	3.859	4.009	6.695	8.212	8.262	11.319

CH 321.479



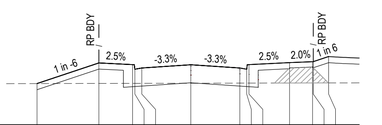
DATUM RL86.50											
PROPOSED LEVEL	88.007	88.348	88.293	88.143	88.183	88.290	88.183	88.143	88.293	88.360	88.390	88.391	88.808
EXISTING LEVEL	88.01	88.02	88.01	88.01	88.01	88.00	87.98	87.98	87.98	87.97	87.97	87.96	87.95
OFFSET	-8.050	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	10.500

CH 367.331



DATUM RL86.25											
PROPOSED LEVEL	87.631	88.085	88.030	87.880	87.920	88.027	87.920	87.880	88.030	88.096	88.126	88.128	88.435
EXISTING LEVEL	87.63	87.62	87.62	87.62	87.62	87.61	87.60	87.60	87.60	87.59	87.58	87.58	87.58
OFFSET	-8.726	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.843

CH 420.000



DATUM RL85.75											
PROPOSED LEVEL	87.091	87.765	87.710	87.560	87.600	87.707	87.600	87.560	87.710	87.776	87.806	87.807	87.974
EXISTING LEVEL	87.09	87.10	87.10	87.10	87.10	87.10	87.11	87.11	87.11	87.11	87.11	87.11	87.11
OFFSET	-10.042	-6.000	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.450	7.950	8.000	9.000

CH 484.031

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	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

Scale

0 5 10 15 20m
1 : 200

0 1 2 4 6 8 10m
1 : 100

Planner: RobertsDay planning·design·place

Filename C-13A-241-10029435-RoadXS.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:200 (H) 1:100 (V)

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures: Drawn W.BUMAGAT; Designed K.ANGELES; Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP
STAGE 13A

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

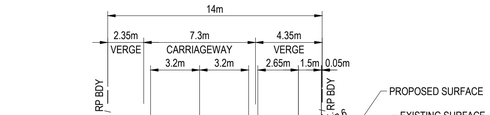
Drawing No. C-13A-241 — Project No. 10029435 — Issue 02

100mm on Original

NOTE:
1. FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.
2. STRUCTURAL FILL IS REQUIRED WHERE FOOTPATH OR PAVEMENT IS CONSTRUCTED ABOVE EXISTING SURFACE.

LEGEND

STRUCTURAL FILL



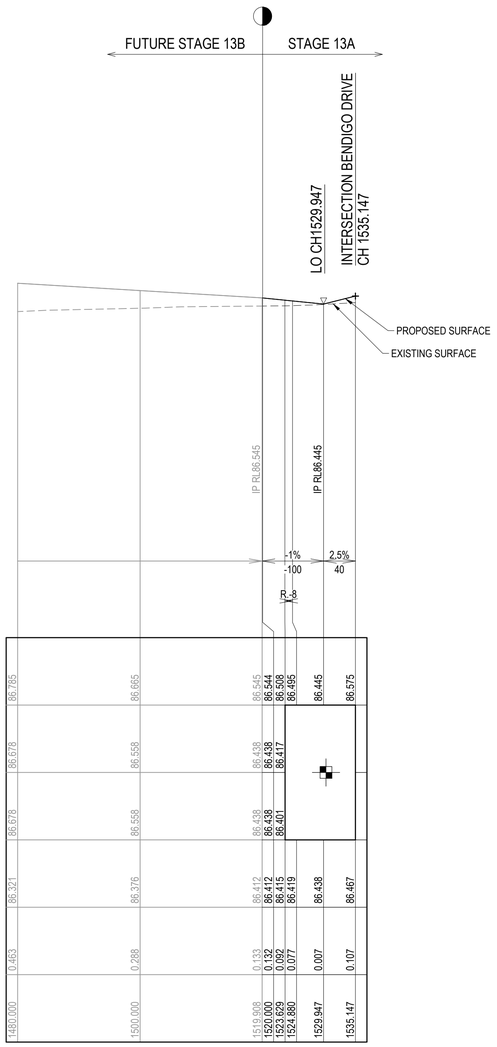
DATUM RL85.25

| | | |

NOTE:
FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.

LEGEND
STRUCTURAL FILL

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

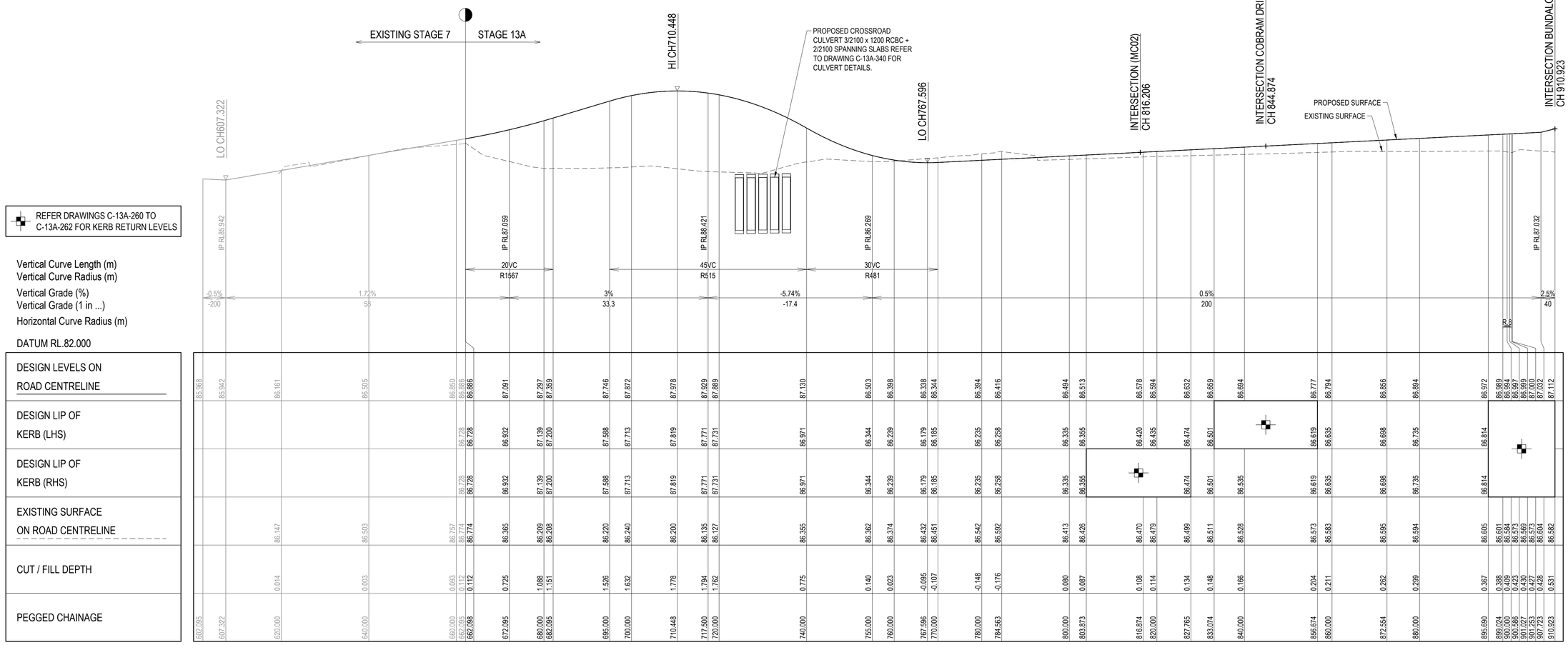


REFER DRAWINGS C-13A-260 TO C-13A-262 FOR KERB RETURN LEVELS

| | | |

NOTE:
FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.

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



REFER DRAWINGS C-13A-260 TO C-13A-262 FOR KERB RETURN LEVELS

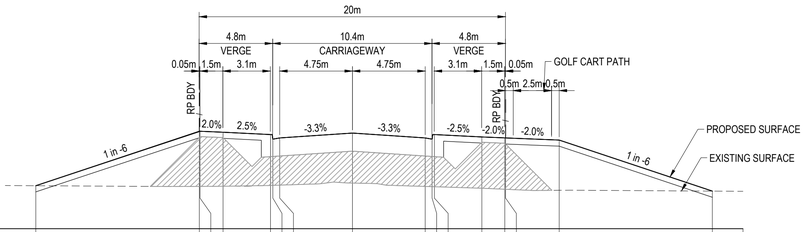
DATUM RL.82.000

| | | |

NOTE:
1. FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.
2. STRUCTURAL FILL IS REQUIRED WHERE FOOTPATH OR PAVEMENT IS CONSTRUCTED ABOVE EXISTING SURFACE.

LEGEND
STRUCTURAL FILL

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



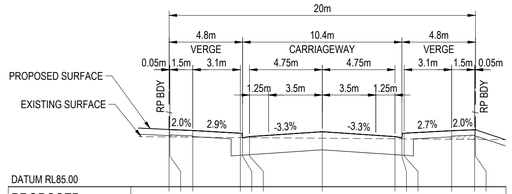
DATUM RL84.75

| | | |

NOTE:
1. FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.
2. STRUCTURAL FILL IS REQUIRED WHERE FOOTPATH OR PAVEMENT IS CONSTRUCTED ABOVE EXISTING SURFACE.

LEGEND

STRUCTURAL FILL



DATUM RL85.00

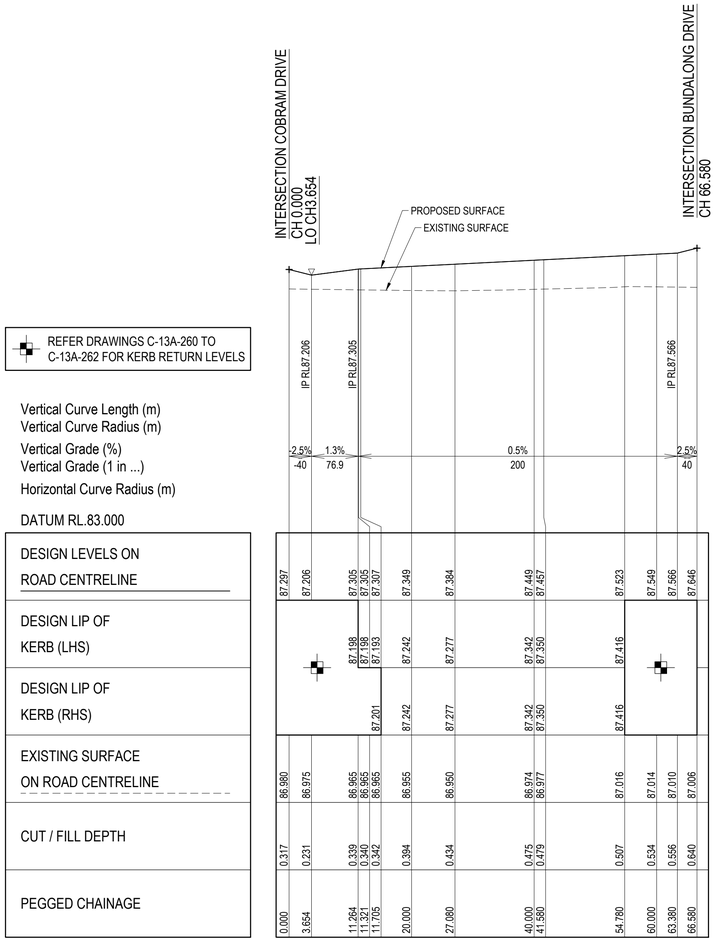
| | | |

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

NOTE:
FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.

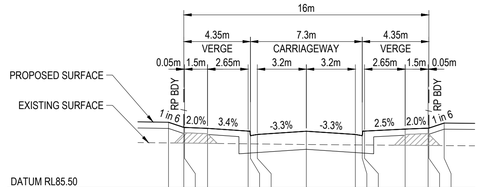
LEGEND
STRUCTURAL FILL

REFER DRAWINGS C-13A-260 TO C-13A-262 FOR KERB RETURN LEVELS

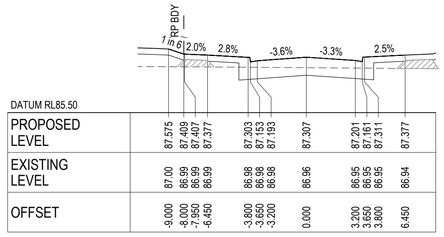


BARMAH WAY (MC06) - LONGITUDINAL SECTION

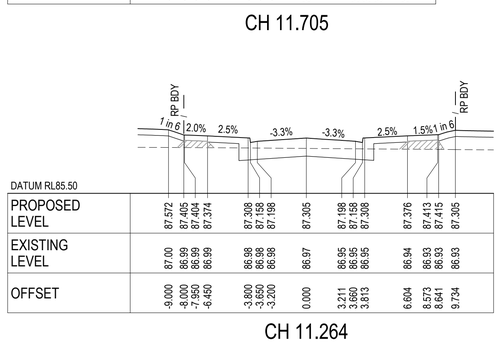
SCALE: HORIZONTAL - 1:500
VERTICAL - 1:50



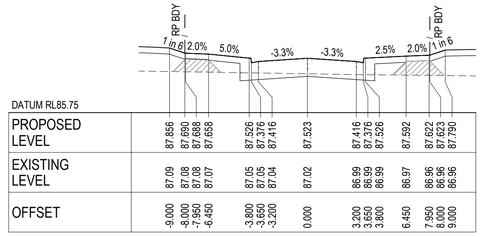
CH 27.080



CH 11.705

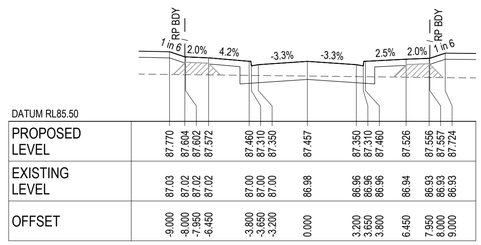


CH 11.264



CH 54.780

CH 11.264



CH 41.580

BARMAH WAY (MC06) CROSS SECTIONS

SCALE 1:200 HORI.
1:100 VERT.

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

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-13A-247-10029435-RoadLS-XS.dwg

Client
RESIMAX GROUP

Status
FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL
Checker Z.STROGUSZ
Scales AS SHOWN
Original Size A1
Height Datum AHD
Grid MGA
Original Issue Signatures
Drawn W.BUMAGAT
Designed K.ANGELES
Project Manager J.MUNRO
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Project
EYNESBURY TOWNSHIP
STAGE 13A

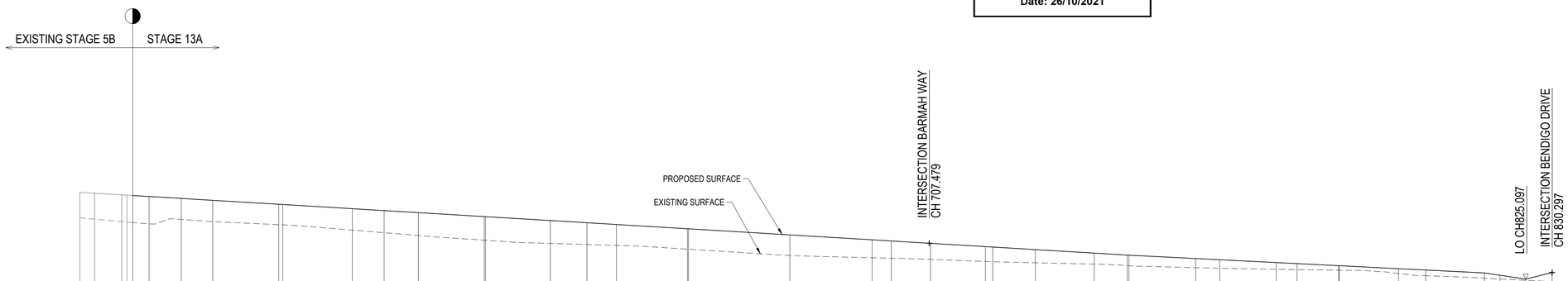
Title
BARMAH WAY
LONGITUDINAL SECTION
AND CROSS SECTIONS

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-13A-247 — Project No. 10029435 — Issue 02

NOTE:
FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.

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



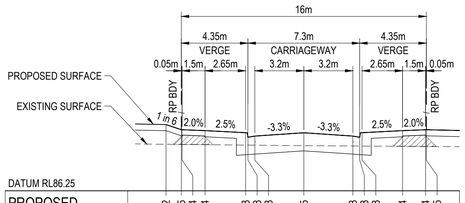
REFER DRAWINGS C-13A-260 TO C-13A-262 FOR KERB RETURN LEVELS

| | | |

NOTE:
1. FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.
2. STRUCTURAL FILL IS REQUIRED WHERE FOOTPATH OR PAVEMENT IS CONSTRUCTED ABOVE EXISTING SURFACE.

LEGEND
STRUCTURAL FILL

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



DATUM RL86.25

| | | |

CITY OF MELTON

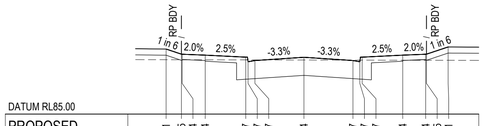
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021

NOTE:

1. FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.
2. STRUCTURAL FILL IS REQUIRED WHERE FOOTPATH OR PAVEMENT IS CONSTRUCTED ABOVE EXISTING SURFACE.

LEGEND

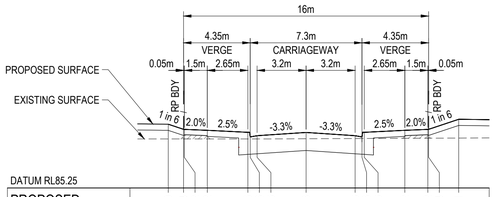
STRUCTURAL FILL



DATUM RL85.00

PROPOSED LEVEL	87.121	86.955	86.954	86.924		86.857	86.707	86.747		86.854			86.747	86.707	86.857		86.924		86.954	86.955	87.191		
EXISTING LEVEL	86.77	86.77	86.77	86.77		86.77	86.77	86.77		86.76			86.76	86.76	86.76		86.76		86.76	86.76	86.76		
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	9.415		

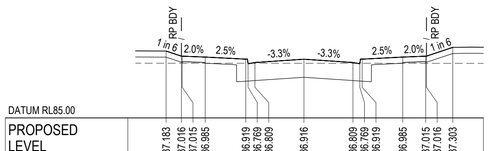
CH 788.208



DATUM RL85.25

PROPOSED LEVEL	87.330	87.164	87.012	87.122		87.066	86.916	86.956		87.063			86.956	86.916	87.066		87.132		87.162	87.164	87.491		
EXISTING LEVEL	86.85	86.85	86.85	86.85		86.85	86.85	86.85		86.86			86.86	86.86	86.86		86.87		86.87	86.87	86.88		
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	9.967		

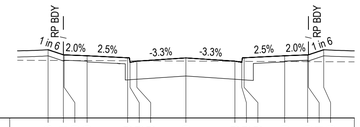
CH 746.505



DATUM RL85.00

PROPOSED LEVEL	87.163	87.016	87.015	86.985		86.919	86.769	86.809		86.916			86.809	86.769	86.919		86.985		87.015	87.016	87.303		
EXISTING LEVEL	86.79	86.79	86.79	86.79		86.78	86.78	86.78		86.78			86.78	86.78	86.78		86.78		86.78	86.78	86.78		
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	9.720		

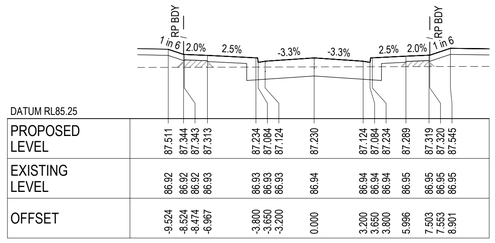
CH 775.892



DATUM RL84.75

PROPOSED LEVEL	86.978	86.811	86.810	86.780		86.714	86.564	86.604		86.710			86.604	86.564	86.714		86.780		86.810	86.811	86.978		
EXISTING LEVEL	86.63	86.63	86.63	86.62		86.62	86.62	86.61		86.61			86.60	86.60	86.60		86.59		86.59	86.59	86.59		
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		

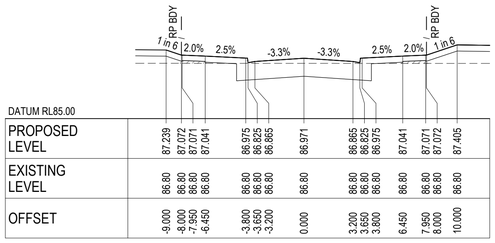
CH 816.947



DATUM RL85.25

PROPOSED LEVEL	87.511	87.344	87.243	87.313		87.234	87.084	87.124		87.230			87.124	87.084	87.234		87.289		87.319	87.320	87.545		
EXISTING LEVEL	86.92	86.92	86.92	86.93		86.93	86.93	86.93		86.94			86.94	86.94	86.94		86.95		86.95	86.95	86.95		
OFFSET	-9.524	-8.524	-8.474	-6.967		-3.800	-3.650	-3.200		0.000			3.200	3.650	3.800		5.996		7.503	7.553	8.901		

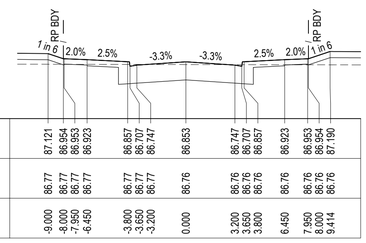
CH 718.556



DATUM RL85.00

PROPOSED LEVEL	87.239	87.072	87.051	87.041		86.975	86.825	86.865		86.971			86.865	86.825	86.975		87.041		87.071	87.072	87.405		
EXISTING LEVEL	86.80	86.80	86.80	86.80		86.80	86.80	86.80		86.80			86.80	86.80	86.80		86.80		86.80	86.80	86.80		
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	10.000		

CH 764.739



DATUM RL85.00

PROPOSED LEVEL	87.121	86.954	86.953	86.923		86.857	86.707	86.747		86.853			86.747	86.707	86.857		86.923		86.953	86.954	87.190		
EXISTING LEVEL	86.77	86.77	86.77	86.77		86.77	86.77	86.77		86.76			86.76	86.76	86.76		86.76		86.76	86.76	86.76		
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	9.414		

CH 788.297

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	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

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-13A-250-10029435-RoadXS.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker	Z.STROGUSZ		
Scales	1:200 (H) 1:100 (V)	Original Issue Signatures	
		Drawn W.BUMAGAT	
Original Size	A1	Designed K.ANGELES	
Height Datum	AHD	Project Manager J.MUNRO	
Grid	MGA	© Copyright reserved	

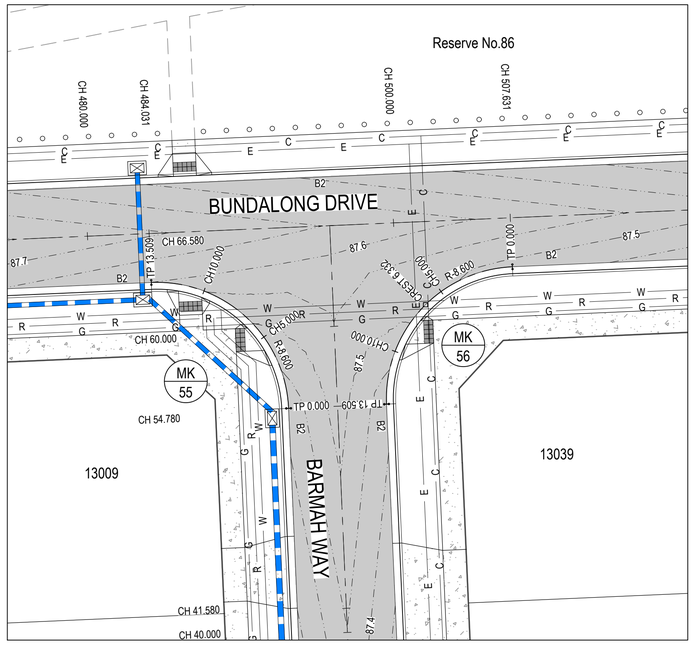
Project: EYNESBURY TOWNSHIP
STAGE 13A

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

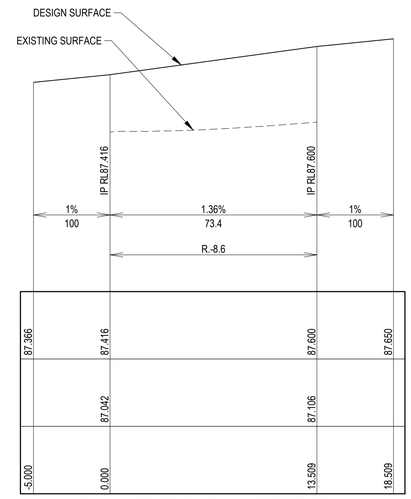
Drawing No.	Project No.	Issue
C-13A-250 —	10029435 —	02

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BUNDALONG DRIVE - BARMAH WAY 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.86.000

DESIGN LEVELS ON KERB LIP LINE

EXISTING SURFACE ON ROAD CENTERLINE

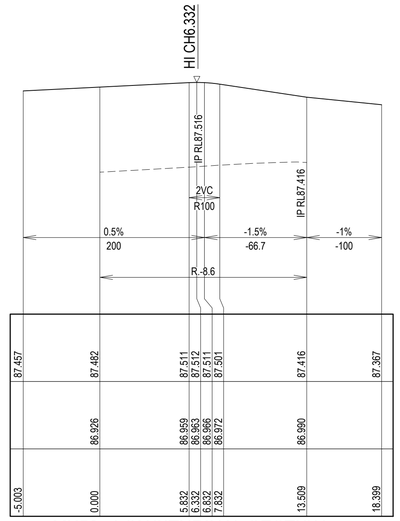
PEGGED CHAINAGE

MK55 - LONGITUDINAL SECTION

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

CITY OF MELTON

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



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

DATUM RL.86.000

DESIGN LEVELS ON KERB LIP LINE

EXISTING SURFACE ON ROAD CENTERLINE

PEGGED CHAINAGE

MK56 - LONGITUDINAL SECTION

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

LEGEND

- PROPOSED SURFACE CONTOURS (5.0)
- EXISTING SURFACE CONTOURS (5.0)
- 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:

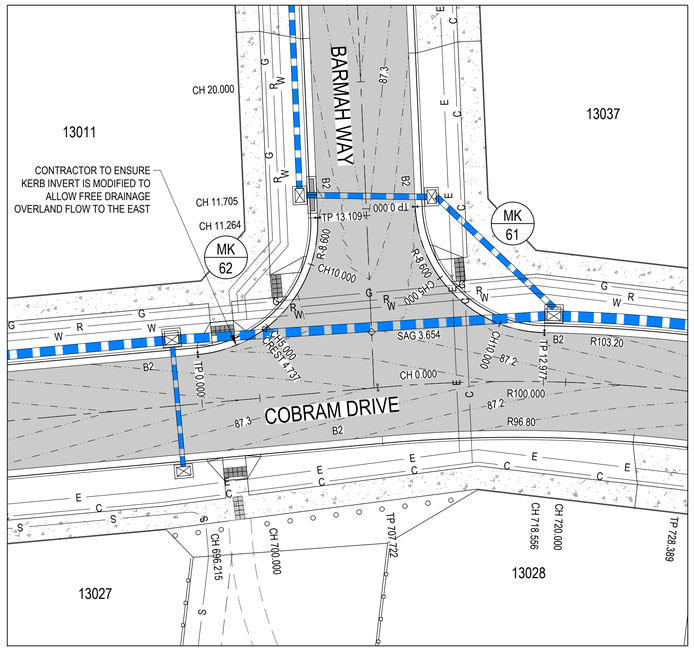
REFER TO SHEET C-13A-002 FOR GENERAL NOTES.

CONTROL LINE SETOUT TABLE - MK55

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284746.150	5815222.284	87.416	357°30'35.05"			
IP 2	0.000	284746.150	5815222.284	87.416				
IP 3	6.755	284745.777	5815230.876	87.508		R = -8.600	13.509	90°00'00.00"
IP 4	13.509	284737.185	5815230.503	87.600	267°30'35.00"			

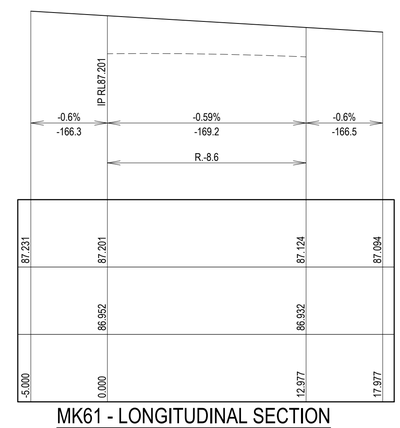
CONTROL LINE SETOUT TABLE - MK56

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284760.763	5815231.528	87.482	267°30'35.00"			
IP 2	6.754	284752.171	5815231.154	87.511		R = -8.600	13.509	90°00'00.00"
IP 3	13.509	284752.544	5815222.563	87.416				
IP 4	13.509	284752.544	5815222.562	87.416	177°30'35.05"			



COBRAM DRIVE - BARMAH WAY 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.86.000

DESIGN LEVELS ON KERB LIP LINE

EXISTING SURFACE ON ROAD CENTERLINE

PEGGED CHAINAGE

MK61 - LONGITUDINAL SECTION

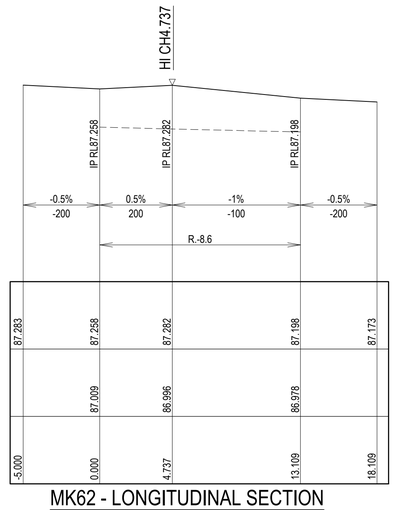
SCALE: HORIZONTAL - 1:200
VERTICAL - 1:20

CONTROL LINE SETOUT TABLE - MK61

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284754.416	5815179.529	87.201	177°30'35.00"			
IP 2	6.488	284754.767	5815171.453	87.162		R = -8.600	12.977	86°27'21.15"
IP 3	12.977	284762.850	5815171.304	87.124	91°03'13.85"			

CONTROL LINE SETOUT TABLE - MK62

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284740.222	5815169.871	87.258	84°50'47.48"			
IP 2	6.555	284748.398	5815170.608	87.263		R = -8.600	13.109	87°20'12.48"
IP 3	13.109	284748.041	5815178.810	87.198	357°30'35.00"			



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

DATUM RL.86.000

DESIGN LEVELS ON KERB LIP LINE

EXISTING SURFACE ON ROAD CENTERLINE

PEGGED CHAINAGE

MK62 - LONGITUDINAL SECTION

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

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

Scale

0 5 10 15 20m

1 : 200

0 0.5 1 1.5 2m

1 : 20

Planner

RobertsDay planning·design·place

Filename C-13A-260-10029435-Intersection.dwg

Client

RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:200 1:20

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures
Drawn W.BUMAGAT
Designed K.ANGELES
Project Manager J.MUNRO

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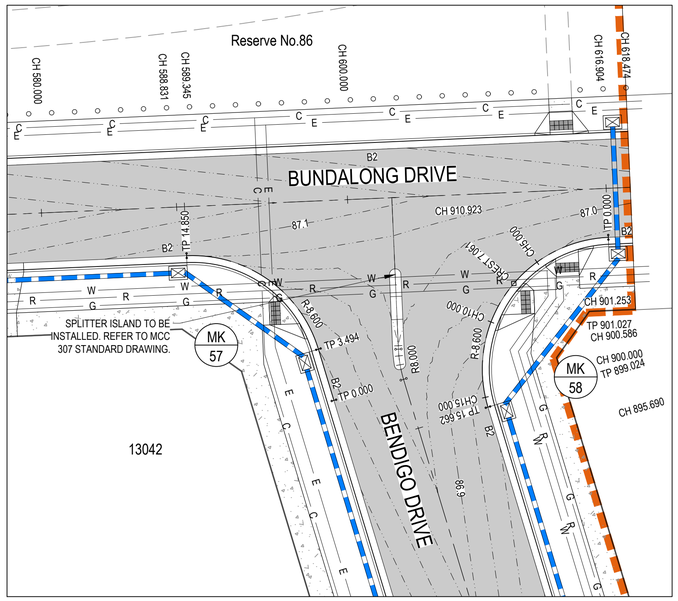
Project: EYNESBURY TOWNSHIP STAGE 13A

Title: INTERSECTION DETAILS SHEET 1 OF 3

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Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
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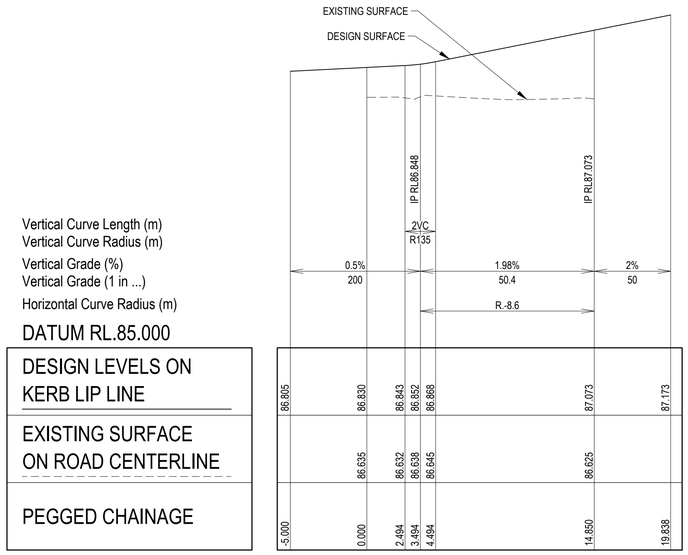
Drawing No. C-13A-260 — Project No. 10029435 — Issue 02

100mm on Original



BUNDALONG DRIVE - BENDIGO DRIVE INTERSECTION DETAIL

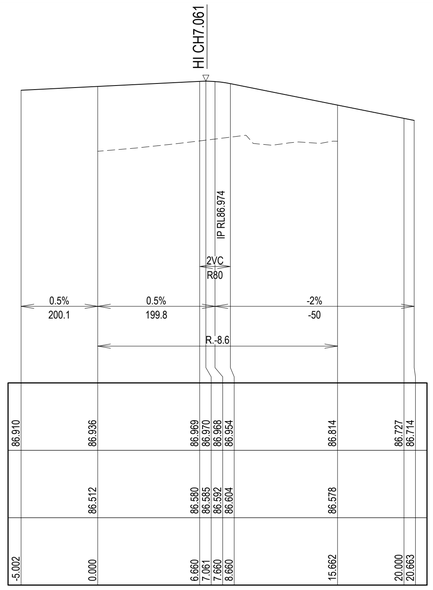
SCALE 1:200



Vertical Curve Length (m)	
Vertical Curve Radius (m)	
Vertical Grade (%)	
Vertical Grade (1 in ...)	
Horizontal Curve Radius (m)	
DATUM RL.85.000	
DESIGN LEVELS ON KERB LIP LINE	
EXISTING SURFACE ON ROAD CENTERLINE	
PEGGED CHAINAGE	

MK57 - 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.85.000	
DESIGN LEVELS ON KERB LIP LINE	
EXISTING SURFACE ON ROAD CENTERLINE	
PEGGED CHAINAGE	

MK58 - LONGITUDINAL SECTION

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

LEGEND

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

NOTES:

REFER TO SHEET C-13A-002 FOR GENERAL NOTES.

CONTROL LINE SETOUT TABLE - MK57

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284852.016	5815225.633	86.830	343°09'57.27"			
TC	3.494	284851.004	5815228.977	86.852	343°09'57.27"			
IP 2	9.172	284849.071	5815235.369	86.961		R = -8.600	11.356	75°39'22.27"
IP 3	14.850	284842.399	5815235.079	87.073	267°30'35.00"			

CONTROL LINE SETOUT TABLE - MK58

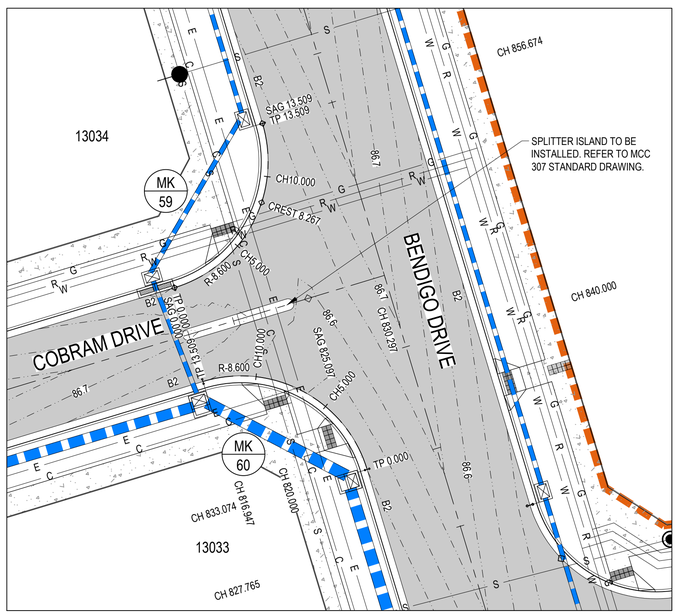
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284869.932	5815236.276	86.936	267°30'35.00"			
IP 2	7.831	284858.867	5815235.795	86.966		R = -8.600	15.662	104°20'37.73"
IP 3	15.662	284862.075	5815225.194	86.814	163°09'57.27"			

CONTROL LINE SETOUT TABLE - MK59

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284858.540	5815174.376	86.604	73°09'57.27"			
IP 2	6.754	284866.771	5815176.866	86.637		R = -8.600	13.509	90°00'00.00"
IP 3	13.509	284864.281	5815185.098	86.619	343°09'57.27"			

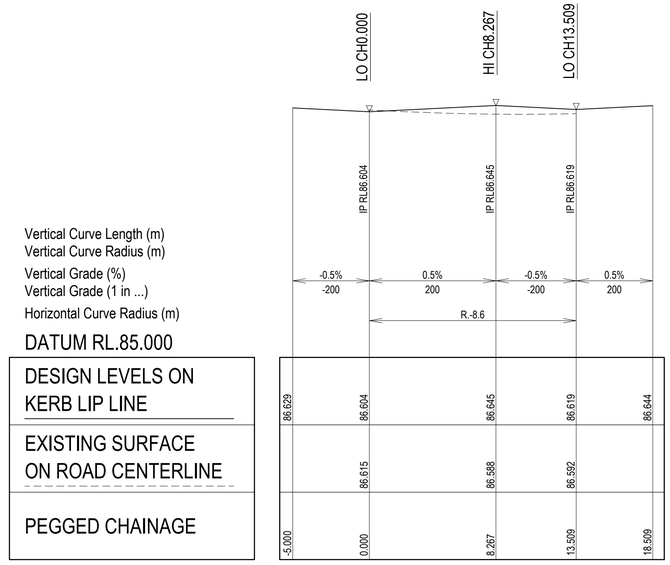
CONTROL LINE SETOUT TABLE - MK60

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	284871.115	5815162.509	86.501	343°09'57.27"			
IP 2	6.754	284868.625	5815170.741	86.552		R = -8.600	13.509	90°00'00.00"
IP 3	13.509	284860.393	5815168.250	86.604	253°09'57.27"			



COBRAM DRIVE - BENDIGO DRIVE INTERSECTION DETAIL

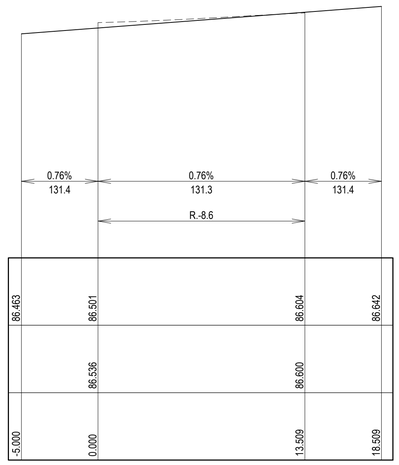
SCALE 1:200



Vertical Curve Length (m)	
Vertical Curve Radius (m)	
Vertical Grade (%)	
Vertical Grade (1 in ...)	
Horizontal Curve Radius (m)	
DATUM RL.85.000	
DESIGN LEVELS ON KERB LIP LINE	
EXISTING SURFACE ON ROAD CENTERLINE	
PEGGED CHAINAGE	

MK59 - 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.85.000	
DESIGN LEVELS ON KERB LIP LINE	
EXISTING SURFACE ON ROAD CENTERLINE	
PEGGED CHAINAGE	

MK60 - 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	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

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-13A-261-10029435-Intersection.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:200 — Original Size: A1 — Height Datum: AHD — Grid: MGA

Original Issue Signatures: Drawn W.BUMAGAT; Designed K.ANGELES; Project Manager J.MUNRO

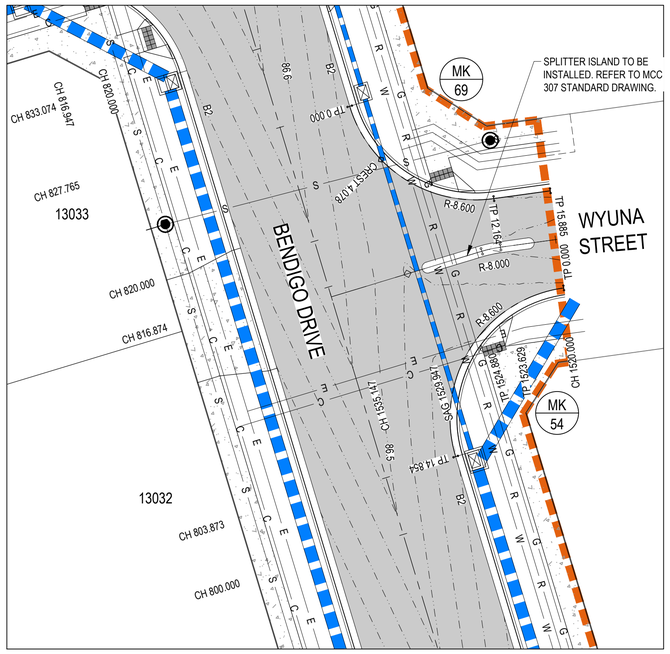
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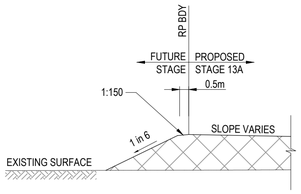
Project: EYNESBURY TOWNSHIP STAGE 13A

Title: INTERSECTION DETAILS SHEET 2 OF 3

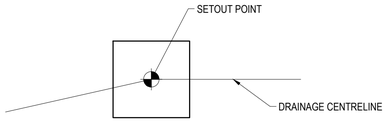
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Drawing No. C-13A-261 — Project No. 10029435 — Issue 02

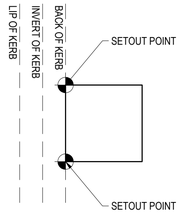

MK 69
SPLITTER ISLAND TO BE INSTALLED. REFER TO MCC 307 STANDARD DRAWING.
WYUNA STREET
BENDIGO DRIVE
MK 54
13033
13032
CH 833.074
CH 816.947
CH 827.765
CH 820.000
CH 816.874
CH 803.873
CH 800.000
TP 0.000
TP 12.164
TP 15.885
TP 14.854
TP 0.000
R-8.600
R-8.000
R-8.600
R-8.600
CH 0.000
CH 20.000
CH 15.154
CH 14.854
CH 4.078



TYPICAL SECTION
NOT TO SCALE

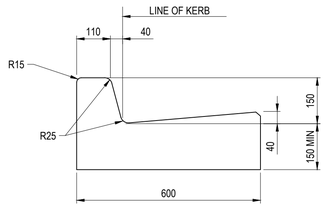


PIT SETOUT DETAIL
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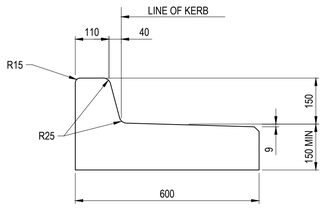


PIT SETOUT POINT DETAIL WITHIN FUTURE STAGE
NOT TO SCALE

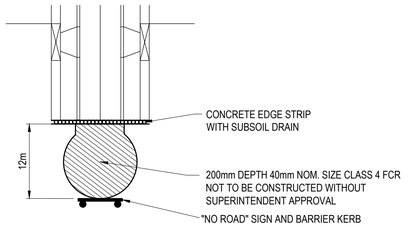
CITY OF MELTON
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Peng Hua
ENGINEERING SERVICES
Date: 26/10/2021



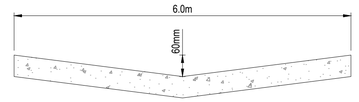
B2 (600mm) KERB DETAIL
1:10



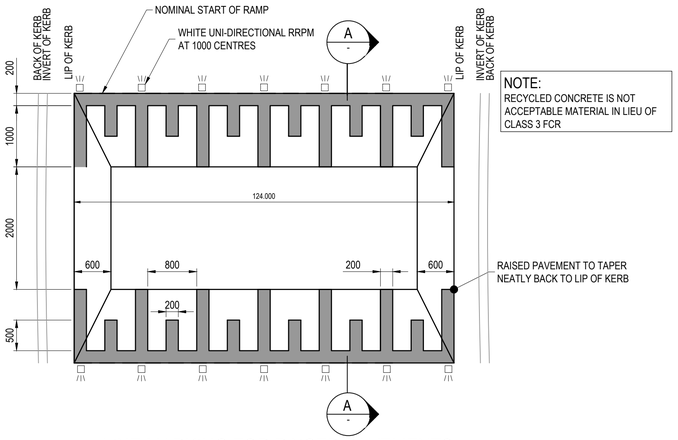
B3 (600mm) KERB DETAIL
1:10



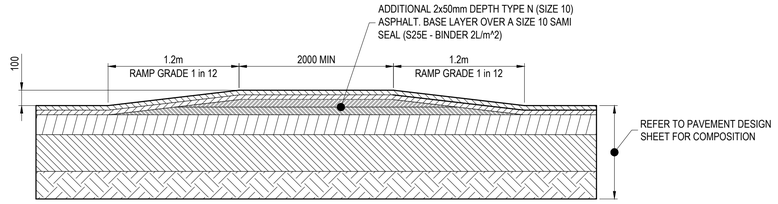
TYPICAL TEMPORARY TURN AREA DETAIL
NOT TO SCALE



TYPICAL SECTION - DRAIN DETAIL
NOT TO SCALE



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	WB	ZS	JM	02.08.21

100mm on Original

Scale
0 1 2 4 6 8 10m
1 : 100
0 100 200 400 600 800 1000mm
1 : 10

Planner
RobertsDay planning·design·place

Filename C-13A-280-10029435-TypicalDetailsSheet1.dwg

Client
RESIMAX GROUP

Status
FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker	Z.STROGUSZ		
Scales	AS SHOWN	Original Issue Signatures	
		Drawn W.BUMAGAT	
Original Size	A1	Designed K.ANGELES	
Height Datum	AHD	Project Manager J.MUNRO	
Grid	MGA	© Copyright reserved	

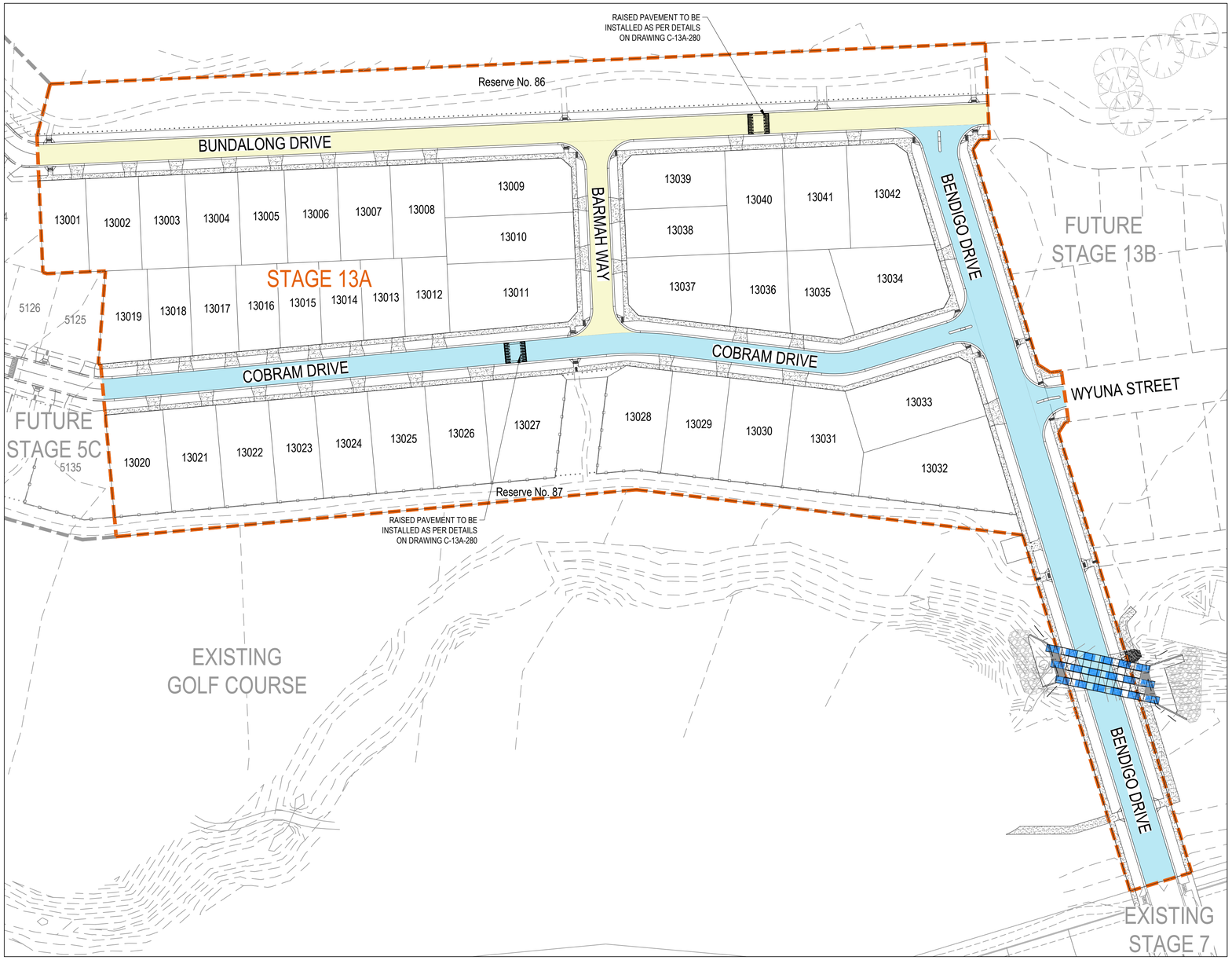
Project
EYNESBURY TOWNSHIP
STAGE 13A

Title
TYPICAL DETAILS
SHEET 1 OF 2

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Drawing No.	Project No.	Issue
C-13A-280 —	10029435 —	01

Last Saved: MENEZC4027 Date Plotted: 24 Aug 2021 - 01:44PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-13A\DD\C-13A-280-10029435-TypicalDetailsSheet1.dwg V1



PLAN
SCALE 1 : 750

PAVEMENT COMPOSITION TYPE 1
BUNDALONG DRIVE AND BARMAH WAY

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 IF NOT SUBJECTED TO TRAFFIC OTHERWISE PRIMER SEAL
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 CHARACTERISTIC 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 3
BENDIGO DRIVE AND 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 3
- PROPOSED CONCRETE FOOTPATH/DRIVEWAY

NOTES:

1. DOWEL BAR DIAMETER, LENGTH AND SPACING SHALL BE AS SPECIFIED IN THE SCHEDULE OF DETAILS.
   a) TRANSVERSE CONTRACTION JOINTS SPACED AT 8-12m (N28 450mm LONG DOWEL BARS SPACED AT 300mm CENTRES)
   b) LONGITUDINAL TIE BARS SPACED AT 800m 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-13A-002 FOR GENERAL NOTES.

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

Issue	Description	By	Ckd	PM	Date
03	PAVEMENT DESIGN CHANGED	WB	ZS	JM	01.10.21
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

100mm on Original

Scale: 1 : 750 (0, 15, 30, 45, 60, 75m)

Planner: RobertsDay planning·design·place

Filename C-13A-281-10029435-TypicalDetailsSheet2.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:750 | Original Size: A1 | Height Datum: AHD | Grid: MGA

Original Issue Signatures
Drawn W.BUMAGAT
Designed K.ANGELES
Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP
STAGE 13A

Title: TYPICAL DETAILS
SHEET 2 OF 2

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Drawing No. C-13A-281 — Project No. 10029435 — Issue 03

LEGEND

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

NOTE:
FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.

BUNDALONG DRIVE
COBRAM DRIVE
BARMAH WAY
BENDIGO DRIVE
WYUNA STREET
STAGE 13A
FUTURE STAGE 5C
FUTURE STAGE 13B
EXISTING GOLF COURSE
EXISTING GOLF TEE
EXISTING STAGE 7
Reserve No. 86
Reserve No. 87
REFER TO INSET-B FOR CONTINUATION
REFER TO INSET-A FOR CONTINUATION
RAISED PAVEMENT TO BE INSTALLED AS PER DETAILS ON DRAWING C-13A-280
PROVIDE, "NO ROAD" SIGN & BARRIER IF FUTURE STAGE WORKS HAVE NOT COMMENCED
CONSTRUCT TEMPORARY GRAVEL TURNAROUND, "NO ROAD" SIGN & BARRIER IF FUTURE STAGE WORKS HAVE NOT COMMENCED
W3-4 A
R1-2 A
D4-5 A
20 km/h
GIVE WAY

INSET - B

INSET - A

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	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

Scale: 1 : 500

Planner: RobertsDay planning·design·place

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500
Original Size: A1
Height Datum: AHD
Grid: MGA

Original Issue Signatures
Drawn W.BUMAGAT
Designed K.ANGELES
Project Manager J.MUNRO
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Project: EYNESBURY TOWNSHIP STAGE 13A

Title: LINEMARKING AND SIGNAGE PLAN

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Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No. C-13A-290 — Project No. 10029435 — Issue 02

Filename C-13A-290-10029435-Sign&LinemarkingPlan.dwg

100mm on Original

Last Saved: MENEZC4027 Date Plotted: 24 Aug 2021 - 03:26PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEngl\DA-CAD\DAC-Drawings\10029435-5C 13\10029435-13A\DD\C-13A-290-10029435-Sign&LinemarkingPlan.dwg V1

NOTES:

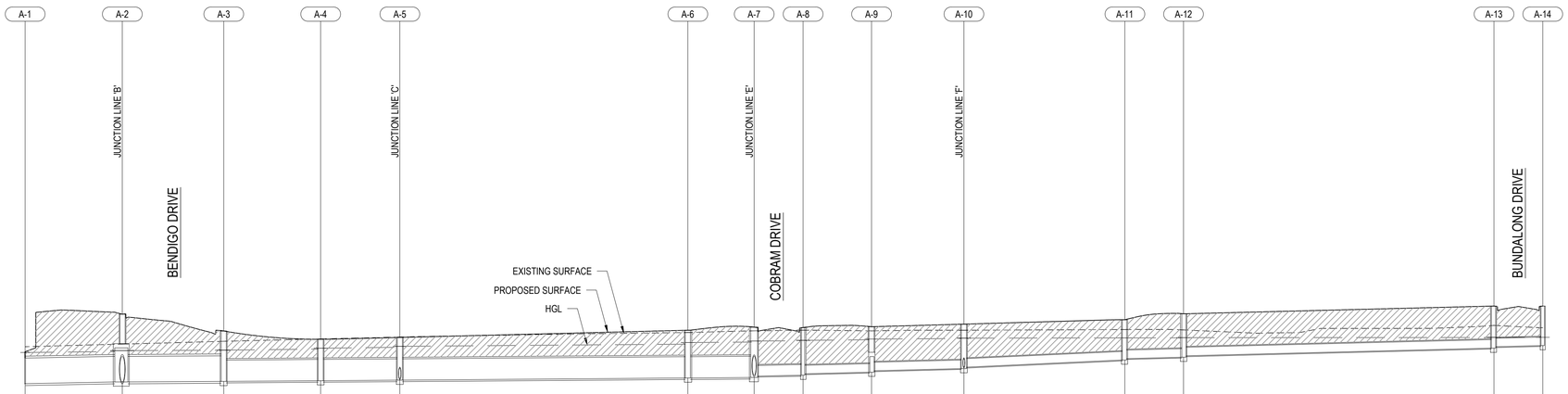
1. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENTSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
   - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OF CROSSOVER
   - 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-13A-002 FOR GENERAL NOTES.

LEGEND

CRUSHED ROCK BACKFILL

CITY OF MELTON

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



LINE A

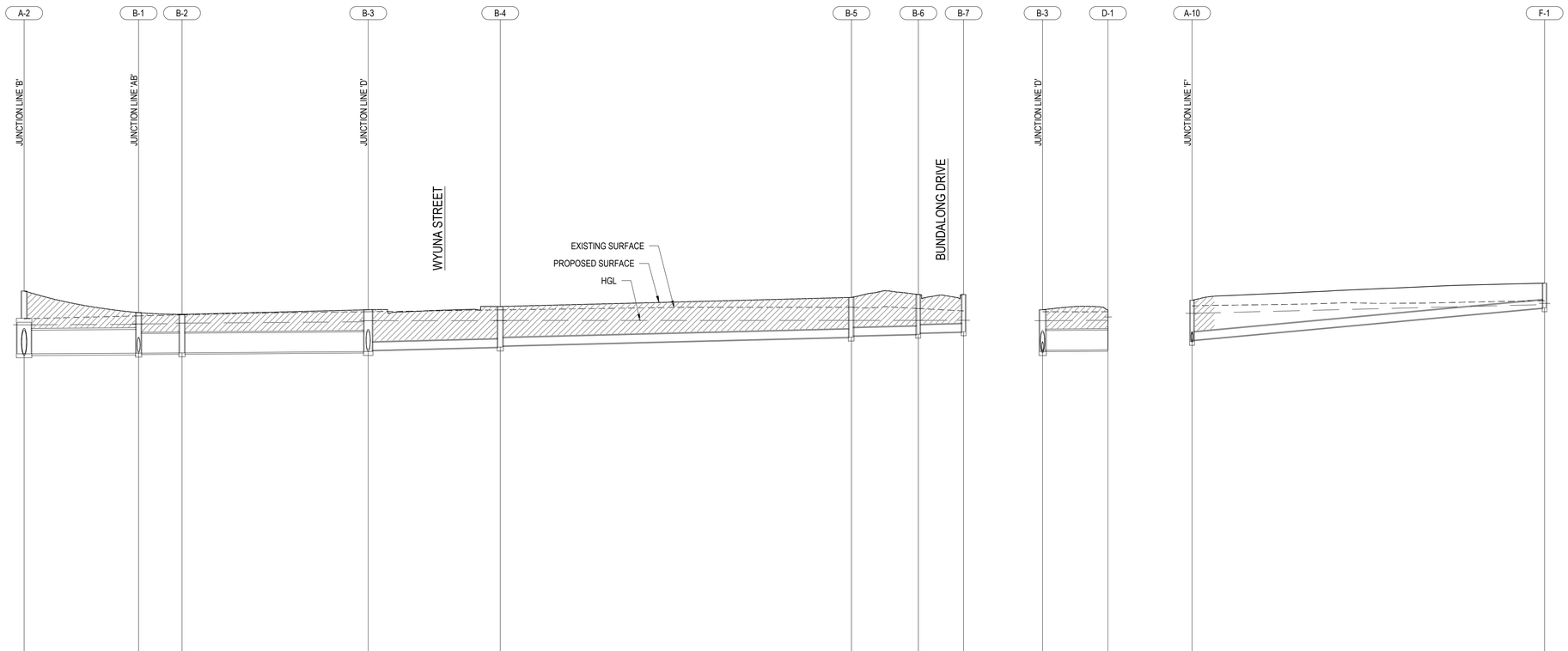
| | | |

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
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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-13A-002 FOR GENERAL NOTES.

LEGEND

CRUSHED ROCK BACKFILL



LINE B

| | | |

NOTES:

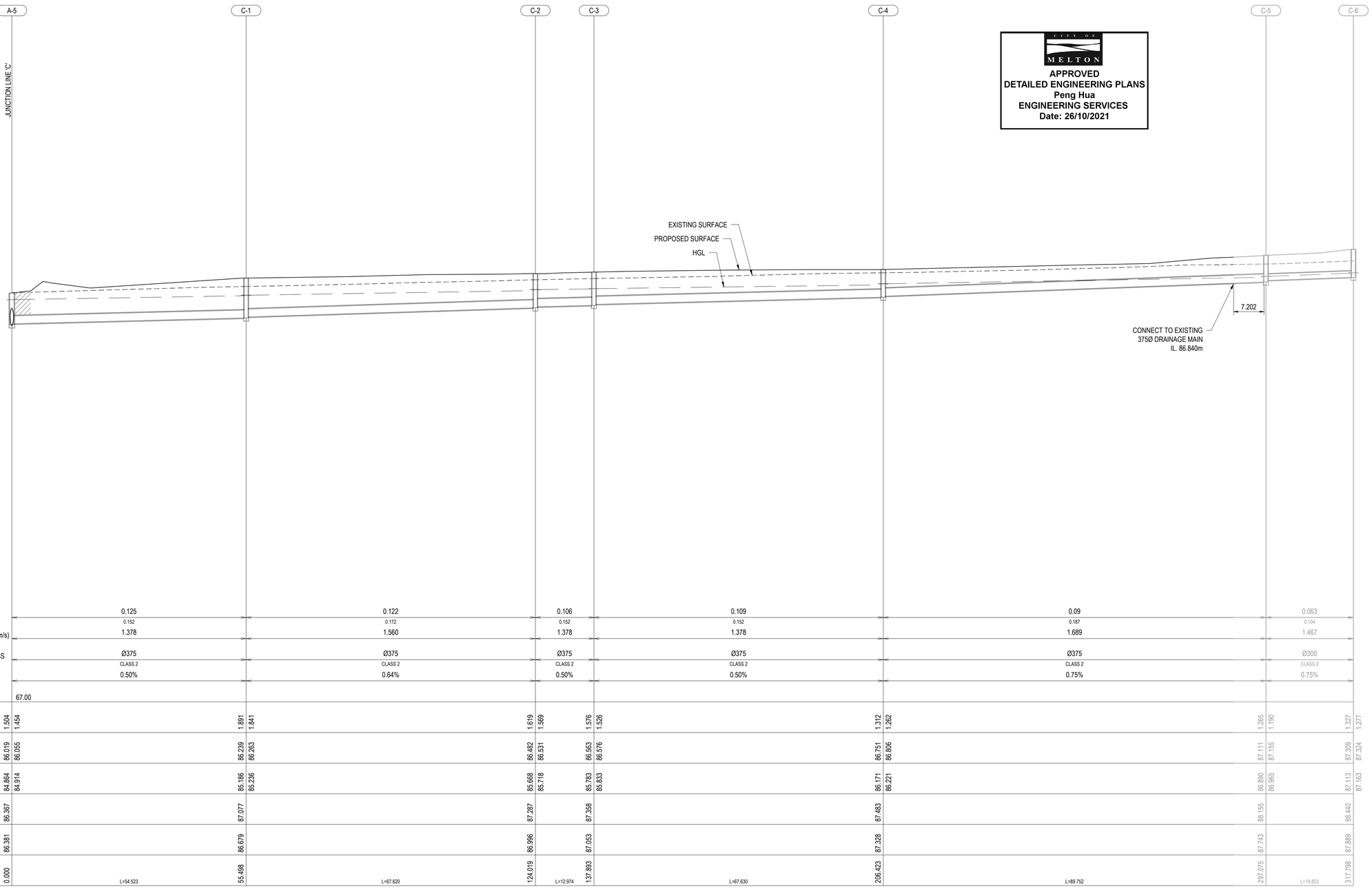
1. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENTSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
   - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OF CROSSOVER
   - 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-13A-002 FOR GENERAL NOTES.

LEGEND

CRUSHED ROCK BACKFILL

CITY OF MELTON

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



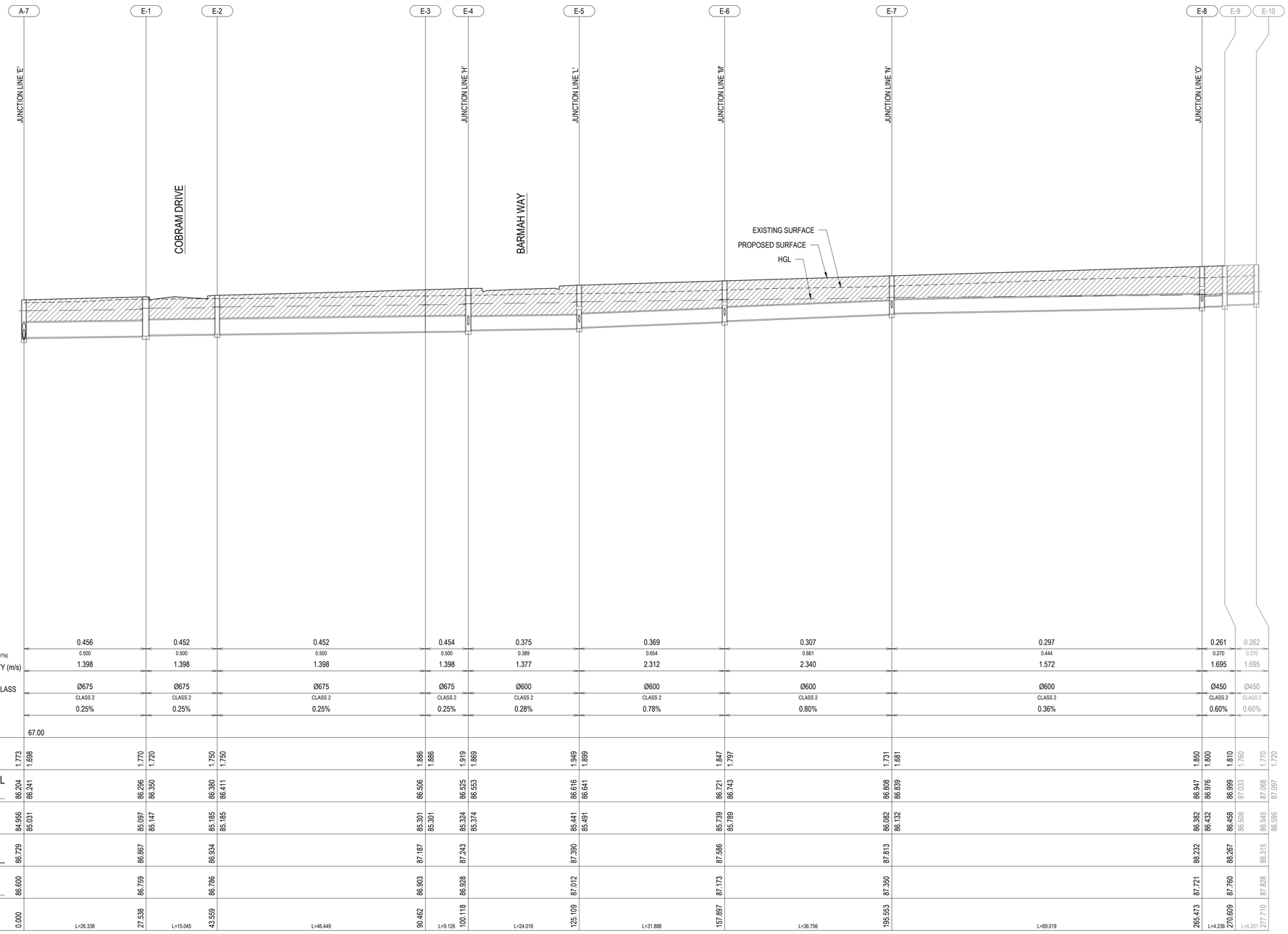
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NOTES:

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:
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LEGEND

CRUSHED ROCK BACKFILL



| | | |

NOTES:

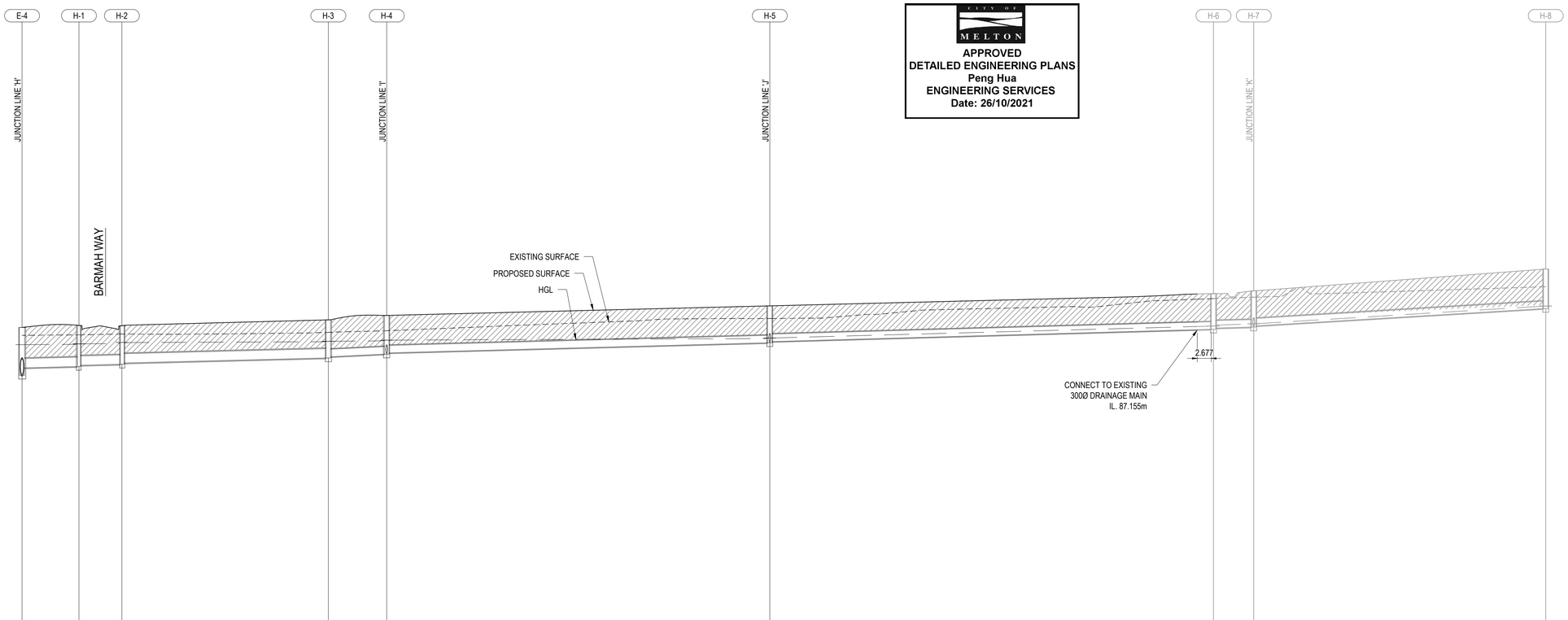
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LEGEND

CRUSHED ROCK BACKFILL

CITY OF MELTON

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



| | | |

NOTES:

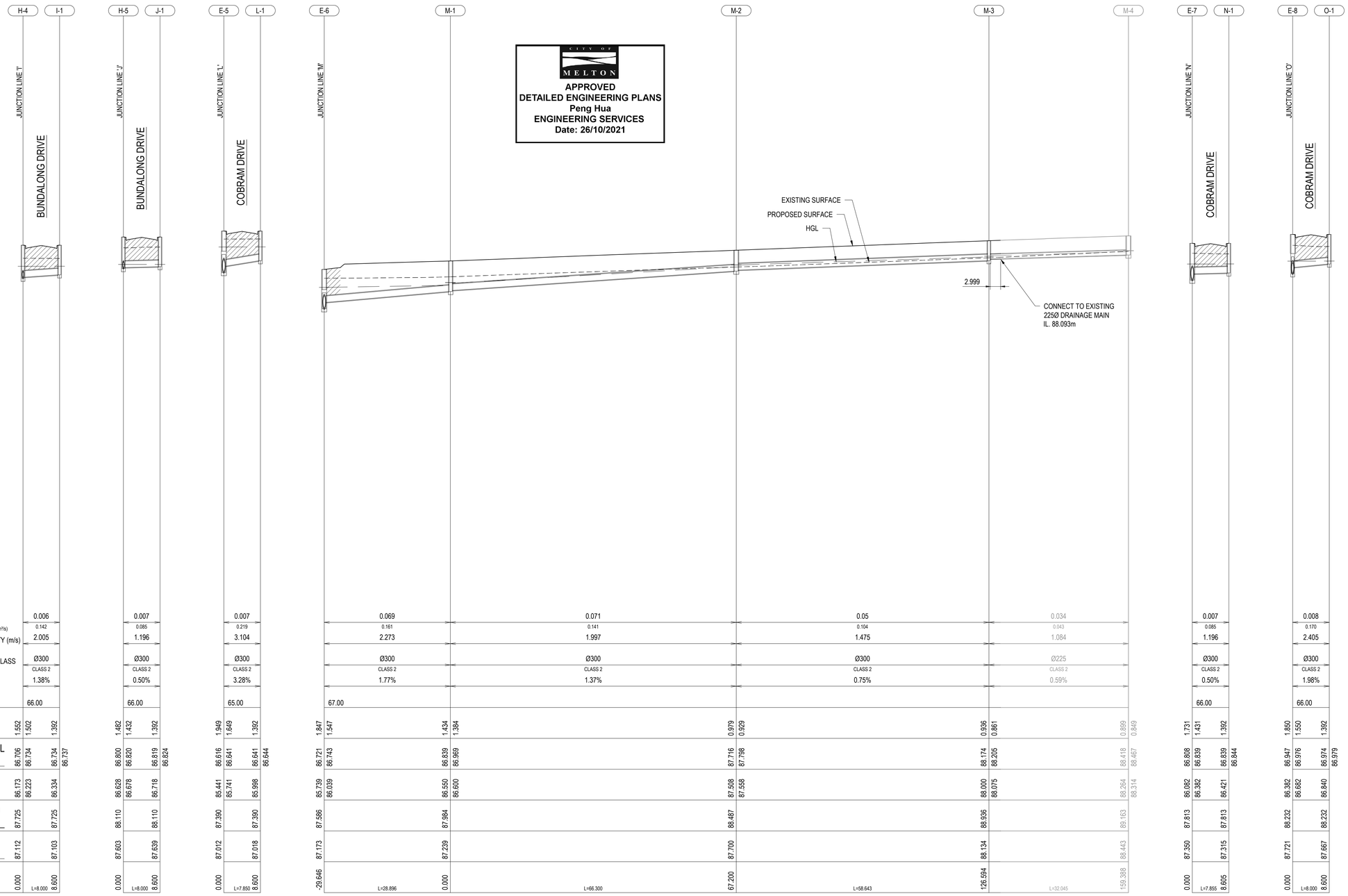
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   - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OF CROSSOVER
   - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE O/R REPOSE FROM NEAR THE LOWER EDGE
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LEGEND

CRUSHED ROCK BACKFILL

CITY OF MELTON

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



	LINE I			LINE J			LINE L			LINE M					LINE N			LINE O		
FLOW (m³/s)	0.006			0.007			0.007			0.069	0.071		0.05		0.034	0.007			0.008		
FLOW CAPACITY (m³/s)	0.142			0.085			0.219			0.161	0.141		0.104		0.043	0.085			0.170		
PIPE VELOCITY (m/s)	2.005			1.196			3.104			2.273	1.997		1.475		1.084	1.196			2.405		
PIPE SIZE & CLASS	Ø300 CLASS 2			Ø300 CLASS 2			Ø300 CLASS 2			Ø300 CLASS 2	Ø300 CLASS 2		Ø300 CLASS 2		Ø225 CLASS 2	Ø300 CLASS 2			Ø300 CLASS 2		
GRADE (%)	1.38%			0.50%			3.28%			1.77%	1.37%		0.75%		0.59%	0.50%			1.98%		
Datum R.L	66.00			66.00			65.00			67.00						66.00			66.00		
DEPTH TO INVERT	1.552	1.502	1.392	1.482	1.432	1.392	1.949	1.649	1.392	1.847	1.547	1.434	1.384	0.979	0.929	0.936	0.861	0.899	1.731	1.431	1.392	1.850	1.550	1.392
H.G.L. LEVEL 5 YEAR ARI	86.706	86.734	86.734	86.800	86.820	86.819	86.616	86.641	86.641	86.721	86.743	86.839	86.969	87.716	87.798	88.174	88.205	88.416	86.808	86.839	86.839	86.947	86.976	86.974
	86.737			86.824			86.644											88.467			86.844			86.979
INVERT LEVEL	86.173	86.223	86.334	86.628	86.678	86.718	85.441	85.741	85.998	85.739	86.039	86.550	86.600	87.508	87.558	88.000	88.075	88.264	86.082	86.382	86.421	86.382	86.682	86.840
																		88.314						
PROPOSED LEVEL	87.725		87.725	88.110		88.110	87.390		87.390	87.586		87.984		88.487		88.936		89.163	87.813		87.813	88.232		88.232
EXISTING LEVEL	87.112		87.103	87.603		87.639	87.012		87.018	87.173		87.239		87.700		88.134		88.443	87.350		87.315	87.721		87.667
CHAINAGE	0.000	L=8.000	8.600	0.000	L=8.000	8.600	0.000	L=7.850	8.600	-29.646	L=28.896	0.000	L=66.300	67.200	L=58.643	126.594	L=32.045	159.388	0.000	L=7.855	8.605	0.000	L=8.000	8.600

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

100mm on Original

Scale

0 5 10 20 30 40 50m
1 : 500

0 1 2 4 6 8 10m
1 : 100

Planner

RobertsDay planning·design·place

Filename C-13A-300-10029435-SwdLS.dwg

Client

RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker	Z.STROGUSZ		
Scales	1:500 (H) 1:100 (V)	Original Issue Signatures	
		Drawn W.BUMAGAT	
Original Size	A1	Designed M.BALISI	
Height Datum	AHD	Project Manager J.MUNRO	
Grid	MGA	© Copyright reserved	

Project: EYNESBURY TOWNSHIP
STAGE 13A

Title: STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 6 OF 6

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-13A-305	10029435	01

PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		STANDARD DRAWING	REMARKS
NAME	TYPE	WIDTH	LENGTH	DIAMTER	IL	DIAMTER	IL	SETOUT RL	DEPTH		
A-1	HEADWALL			900	84.740			85.640	0.900		
A-2	DIVERSION PIT	2.00	2.65	900	84.800	900	84.800	87.185	2.385		LOW FLOW DIVERSION PIT. REFER TO DRAWING C-13A-340 FOR DETAILS.
				900	84.800						
						600	84.800				
A-3	JUNCTION PIT	1.50	0.90	750	84.820	900	84.820	86.594	1.774	EDCM 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m CLASS B DUTY FIBRE GLASS COVER AS PER EDCM 607
A-4	DOUBLE SIDE ENTRY PIT GRATED	1.05	0.90	750	84.844	750	84.844	86.282	1.438		DIVERSION PIT A-2 REFER TO DRAWING C-13A-340 FOR DETAILS. PIT TO BE DOUBLE HAUNCHED TO 0.6m x 09m COVER
A-5	JUNCTION PIT	1.05	0.90	750	84.864	750	84.864	86.367	1.504	EDCM 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m CLASS B DUTY FIBRE GLASS COVER AS PER EDCM 607
				375	84.914						
A-6	SIDE ENTRY PIT GRATED	1.20	0.90	750	84.940	750	84.940	86.621	1.681	EDCM 601 & 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m COVER
A-7	SIDE ENTRY PIT GRATED	1.20	0.90	375	85.006	750	84.956	86.729	1.773	EDCM 601 & 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m COVER
				675	85.031						
A-8	DOUBLE SIDE ENTRY PIT GRATED	0.60	0.90	300	85.087	375	85.037	86.715	1.678	EDCM 602	
A-9	SIDE ENTRY PIT GRATED	0.60	0.90	300	85.195	300	85.145	86.744	1.600	EDCM 601	
A-10	JUNCTION PIT	0.60	0.90	300	85.321	300	85.271	86.836	1.564	EDCM 605	
				300	85.321						
A-11	JUNCTION PIT	0.60	0.90	300	85.623	300	85.573	86.988	1.415	EDCM 605	
A-12	SIDE ENTRY PIT GRATED	0.60	0.90	300	85.722	300	85.672	87.199	1.527	EDCM 601	
A-13	JUNCTION PIT	0.60	0.90	300	86.041	300	85.991	87.472	1.482	EDCM 605	
A-14	SIDE ENTRY PIT GRATED	0.60	0.90			300	86.081	87.472	1.392	EDCM 601	
AA-1	HEADWALL			600	84.740			85.340	0.600		
AA-2	HUMEGARD			600	84.778	600	84.753	87.129	2.376		HUMECEPTOR TO BE INSTALLED
AA-3	HUMECEPTOR			600	84.784	600	84.784	87.151	2.367		HUMEGARD TO BE INSTALLED
AA-4	JUNCTION PIT	0.90	0.90	600	84.790	600	84.790	87.134	2.343	EDCM 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m CLASS D DUTY CAST IRON COVER AS PER EDCM 607
AB-1	END PIPE FOR FUTURE CONNECTION					525	84.887	86.245	1.358		END PIPE FOR FUTURE CONNECTION
B-1	JUNCTION PIT	1.20	0.90	525	84.874			86.345	1.522	EDCM 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m CLASS B DUTY FIBRE GLASS COVER AS PER EDCM 607
				750	84.824	900	84.824				
B-2	DOUBLE SIDE ENTRY PIT GRATED	1.05	0.90	750	84.835	750	84.835	86.283	1.448	EDCM 601 & 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m COVER
B-3	SIDE ENTRY PIT GRATED	1.05	1.50	300	84.936	750	84.886	86.474	1.588	EDCM 601 & 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m COVER
				750	84.936						
B-4	SIDE ENTRY PIT GRATED	0.60	0.90	300	85.106	300	85.056	86.600	1.544	EDCM 601	
B-5	JUNCTION PIT	0.60	0.90	300	85.485	300	85.435	86.943	1.508	EDCM 601	
B-6	SIDE ENTRY PIT GRATED	0.60	0.90	300	85.595	300	85.545	87.055	1.510	EDCM 601	
B-7	SIDE ENTRY PIT GRATED	0.60	0.90			300	85.635	87.055	1.420	EDCM 601	
C-1	JUNCTION PIT	0.60	0.90	375	85.236	375	85.186	86.679	1.493	EDCM 605	
C-2	JUNCTION PIT	0.60	0.90	375	85.718	375	85.668	86.996	1.329	EDCM 605	
C-3	JUNCTION PIT	0.60	0.90	375	85.833	375	85.783	87.358	1.576	EDCM 605	
C-4	JUNCTION PIT	0.60	0.90	375	86.221	375	86.171	87.328	1.157	EDCM 605	
D-1	END PIPE FOR FUTURE CONNECTION					750	84.954	86.000	1.046		END PIPE FOR FUTURE CONNECTION
E-1	SIDE ENTRY PIT GRATED	1.05	1.50	675	85.147	675	85.097	86.867	1.770	EDCM 601 & 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m COVER
E-2	SIDE ENTRY PIT GRATED	1.20	0.90	675	85.185	675	85.185	86.934	1.750	EDCM 601 & 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m COVER
E-3	PIPE CONNECTION			675	85.301	675	85.301	87.187	1.886		
E-4	JUNCTION PIT	1.05	1.05	600	85.374	675	85.324	87.243	1.919	EDCM 601 & 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m COVER
				375	85.624						
E-5	SIDE ENTRY PIT GRATED	0.90	0.90	600	85.491	600	85.441	87.39	1.949	EDCM 601 & 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m COVER
				300	85.741						
E-6	JUNCTION PIT	0.90	0.90	600	85.789	600	85.739	87.586	1.847	EDCM 601 & 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m COVER
				300	86.039						
E-7	SIDE ENTRY PIT GRATED	0.90	0.90	600	86.132	600	86.082	87.813	1.731	EDCM 607	PIT TO BE HAUNCHED TO 0.6m x 0.9m CLASS B DUTY FIBRE GLASS COVER AS PER EDCM 607
				300	86.382						
E-8	SIDE ENTRY PIT GRATED	0.60	0.90	450	86.432	600	86.382	88.232	1.85	EDCM 601	
				300	86.682						
F-1	JUNCTION PIT	0.60	0.60			300	86.547	87.486	0.939	EDCM 605	
H-1	SIDE ENTRY PIT GRATED	0.60	0.90	375	85.727	375	85.677	87.326	1.649	EDCM 601	
H-2	DOUBLE SIDE ENTRY PIT GRATED	0.60	0.90	375	85.817	375	85.767	87.316	1.549	EDCM 602	
H-3	JUNCTION PIT	0.60	0.90	300	86.069	375	86.019	87.548	1.528	EDCM 605	
H-4	SIDE ENTRY PIT GRATED	0.60	0.90	300	86.223	300	86.173	87.725	1.552	EDCM 601	
				300	86.223						
H-5	SIDE ENTRY PIT GRATED	0.60	0.90	300	86.678	300	86.628	88.11	1.482	EDCM 601	
				300	86.678						
I-1	SIDE ENTRY PIT GRATED	0.60	0.90			300	86.334	87.725	1.392	EDCM 601	
J-1	SIDE ENTRY PIT GRATED	0.60	0.90			300	86.718	88.110	1.392	EDCM 601	
L-1	SIDE ENTRY PIT GRATED	0.60	0.90			300	85.998	87.390	1.392	EDCM 601	
M-1	JUNCTION PIT	0.60	0.90	300	86.600	300	86.550	87.984	1.434	EDCM 605	
M-2	JUNCTION PIT	0.60	0.90	300	87.558	300	87.508	88.487	0.979	EDCM 605	
M-3	JUNCTION PIT	0.60	0.60	225	88.075	300	88.000	88.936	0.936	EDCM 605	
N-1	SIDE ENTRY PIT GRATED	0.60	0.90			300	86.421	87.813	1.392	EDCM 601	
O-1	SIDE ENTRY PIT GRATED	0.60	0.90			300	86.840	88.232	1.392	EDCM 601	

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	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

100mm on Original

Scale

Planner

RobertsDay planning·design·place

Filename C-13A-320-10029435-SwdPitSchedule.dwg

Client

RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales | Original Size: A1 | Height Datum: AHD | Grid: MGA

Original Issue Signatures
Drawn W.BUMAGAT
Designed M.BALISI
Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 13A

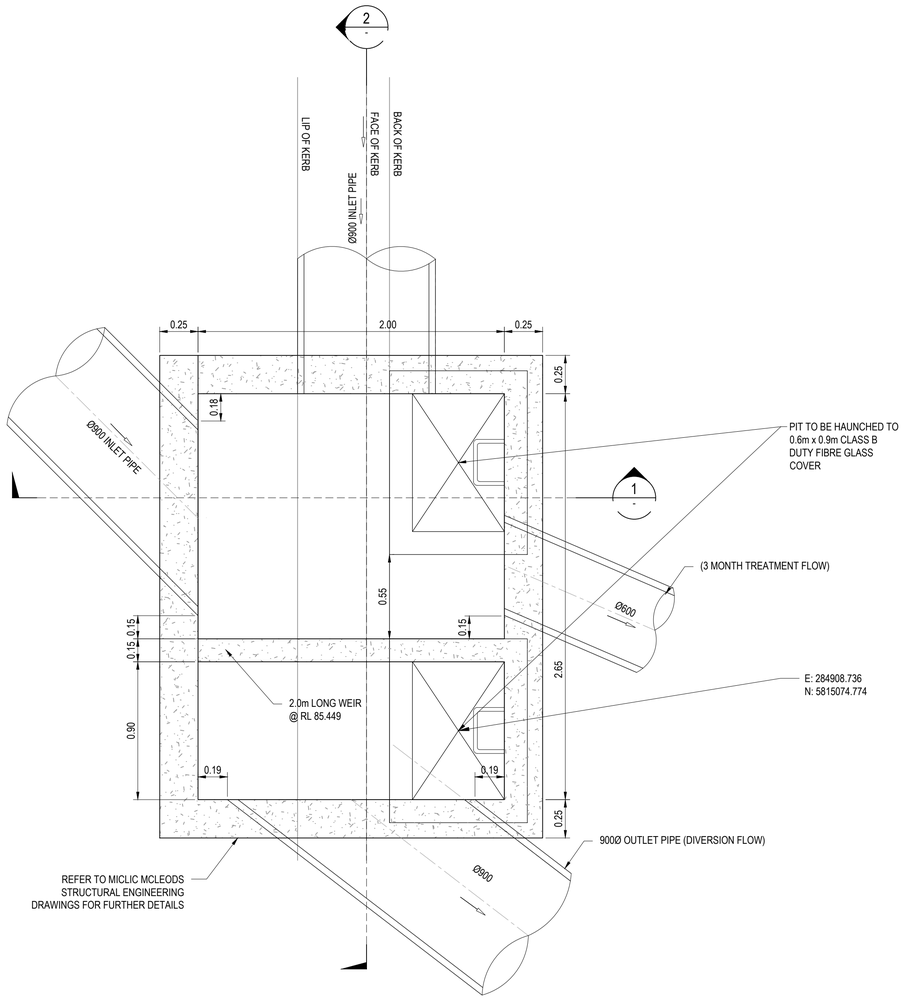
Title: STORMWATER DRAINAGE PIT SCHEDULE

ARCADIS
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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

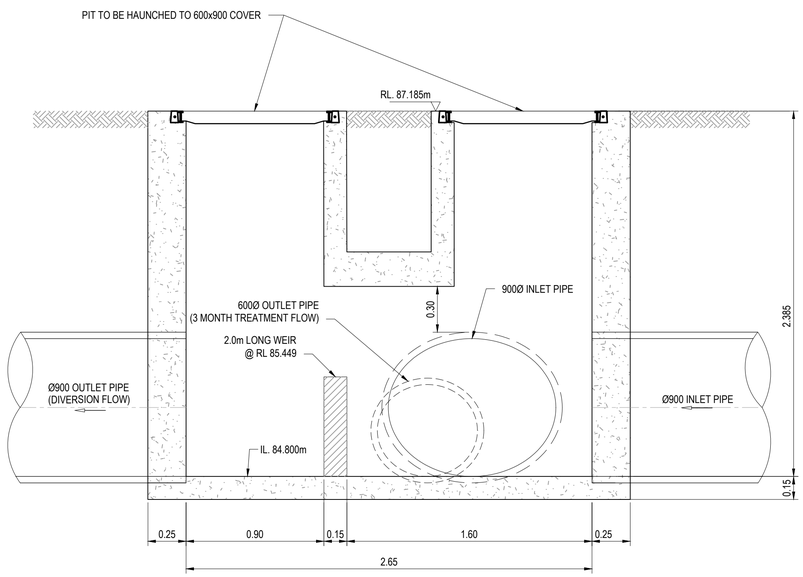
Drawing No. C-13A-320 — Project No. 10029435 — Issue 02

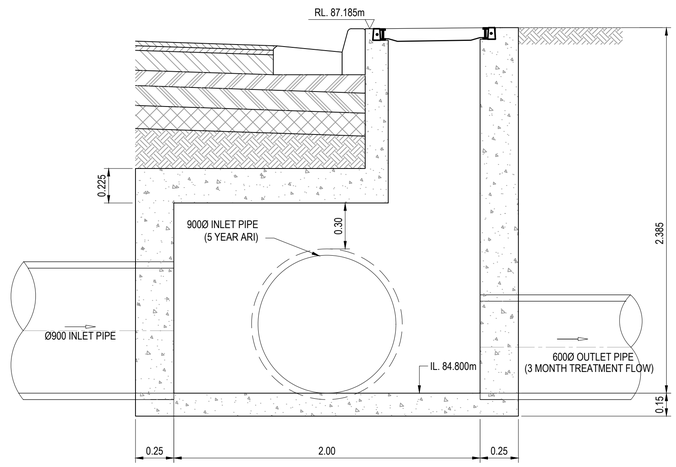
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NOTE:
FOR GENERAL NOTES, REFER TO DRAWING No. C-13A-002.



DIVERSION PIT A-2 PLAN
SCALE : 1:20





DIVERSION PIT A-2 DETAILS
SCALE : 1:20

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

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

100mm on Original

Scale
0 0.5 1 1.5 2m
1 : 20

Planner
RobertsDay planning·design·place
Filename C-13A-340-10029435-SwdDetails.dwg

Client
RESIMAX GROUP

Status
FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker	Z.STROGUSZ	
Scales	1:20	Original Issue Signatures
		Drawn W.BUMAGAT
Original Size	A1	Designed M.BALISI
Height Datum	AHD	Project Manager J.MUNRO
Grid	MGA	© Copyright reserved

Project
EYNESBURY TOWNSHIP
STAGE 13A

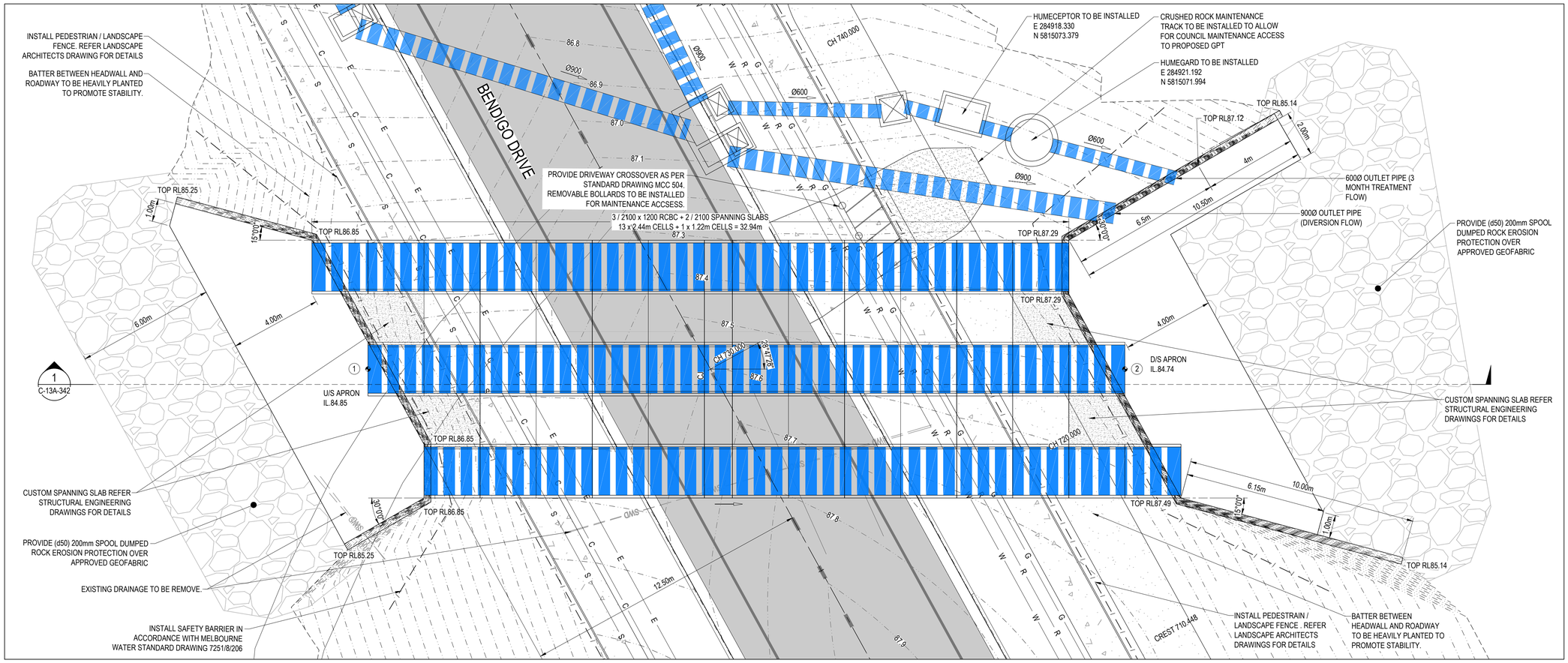
Title
STORMWATER DRAINAGE
DETAILS

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

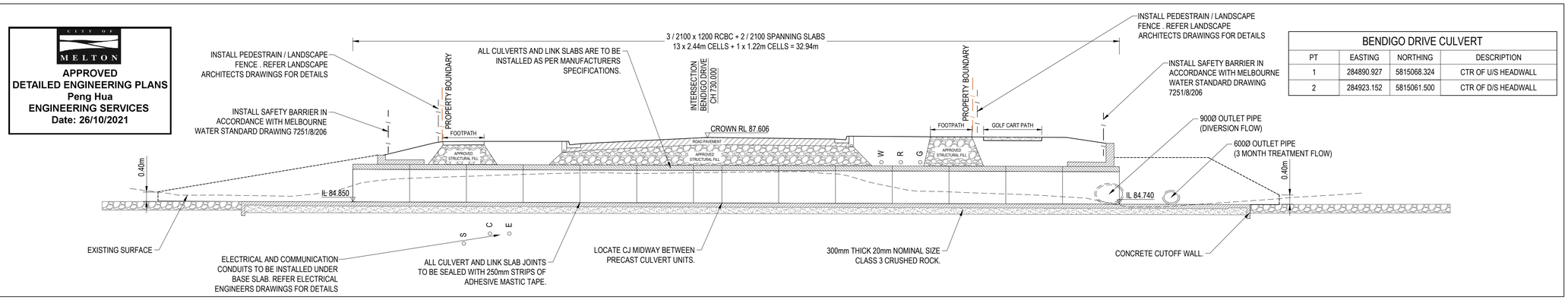
Drawing No.	Project No.	Issue
C-13A-340	10029435	01

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NOTE:
REFER TO DRAWING No. C-13A-342 FOR GENERAL NOTES.



BENDIGO DRIVE CULVERT LAYOUT PLAN
1:100



BENDIGO DRIVE CULVERT			
PT	EASTING	NORTHING	DESCRIPTION
1	284890.927	5815068.324	CTR OF U/S HEADWALL
2	284923.152	5815061.500	CTR OF D/S HEADWALL

SECTION 1
1:100

Issue	Description	By	Ckd	PM	Date
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

Scale: 0 1 2 4 6 8 10m — 1 : 100

Planner: RobertsDay planning·design·place

Filename C-13A-341-10029435-SwdCulvertDetails.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:100 | Original Size: A1 | Height Datum: AHD | Grid: MGA

Original Issue Signatures: Drawn W.BUMAGAT; Designed M.BALISI; Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP
STAGE 13A

Title: STORMWATER CULVERT DETAILS

ARCADIS
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www.arcadis.com

Drawing No. C-13A-341 — Project No. 10029435 — Issue 01

100mm on Original

Last Saved: MENEZC4027 Date Plotted: 24 Aug 2021 - 01:45PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-13A\DD\C-13A-341-10029435-SwdCulvertDetails.dwg V1

LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED SURFACE CONTOURS
- PROPOSED STORMWATER DRAINAGE
- PROPOSED PIT LABEL
- EXISTING STORMWATER DRAINAGE
- 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-13A-002.

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

Reserve No. 86

FUTURE TOTAL CATCHMENT FOR LINE H 0.1810ha

BUNDALONG DRIVE

BARMAH WAY

BENDIGO DRIVE

COBRAM DRIVE

WYUNA STREET

STAGE 13A

FUTURE STAGE 5C

FUTURE STAGE 13B

FUTURE TOTAL CATCHMENT FOR LINE M 0.3263ha

FUTURE TOTAL CATCHMENT FOR LINE D-1 5.5395ha

FUTURE TOTAL CATCHMENT FOR LINE AB-1 1.5608ha

FUTURE TOTAL CATCHMENT FOR LINE C 0.6696ha

FUTURE TOTAL CATCHMENT FOR LINE E 2.4631ha

EXISTING GOLF COURSE

EXISTING GOLF TEE

EXISTING STAGE 7

Reserve No. 87

REFER TO INSET-B FOR CONTINUATION

REFER TO INSET-A FOR CONTINUATION

INSET - B

INSET - A

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	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

100mm on Original

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

Planner: RobertsDay planning·design·place

Filename C-13A-350-10029435-Q5CatchmentPlan.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures: Drawn W.BUMAGAT; Designed M.BALISI; Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP
STAGE 13A

Title: STORMWATER DRAINAGE Q5 CATCHMENT PLAN

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Drawing No. C-13A-350 — Project No. 10029435 — Issue 02

Last Saved: MENEZC4027 Date Plotted: 24 Aug 2021 - 03:25PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-13A\DD\C-13A-350-10029435-Q5CatchmentPlan.dwg V1

CITY OF MELTON

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

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-13A-002.

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

ROAD RESERVE	0.720
LOTS	0.900
OPEN SPACE RESERVES	0.400

CATCHMENT 10
LOT: 0.8392ha
ROAD: 0.4307ha
MISC: 0.0459ha

CATCHMENT 14
LOT: 0.0000ha
ROAD: 0.3297ha
MISC: 0.0000ha

CATCHMENT 11
LOT: 1.551ha
ROAD: 0.9093ha
MISC: 0.0000ha

CATCHMENT 12
LOT: 0.2951ha
ROAD: 0.1624ha
MISC: 0.0000ha

CATCHMENT 13
LOT: 0.3327ha
ROAD: 0.3577ha
MISC: 0.0000ha

CATCHMENT 15
LOT: 1.9627ha
ROAD: 0.8928ha
MISC: 0.0000ha

CATCHMENT 16
LOT: 0.1020ha
ROAD: 0.1869ha
MISC: 0.0000ha

RESERVE No. 84
RESERVE No. 85
Reserve No. 86
Reserve No. 87
BUNDALONG DRIVE
DOOKIE ROAD
COBRAM DRIVE
BARMAH WAY
BENDIGO DRIVE
WYUNA STREET
STAGE 5C
STAGE 13A
FUTURE STAGE 5C
FUTURE STAGE 13B
EXISTING GOLF COURSE
WATER LEVEL +86.44

Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

100mm on Original

Scale: 1 : 750 (0 15 30 45 60 75m)

Planner: RobertsDay planning·design·place

Filename C-13A-351-10029435-Q100CatchmentPlan.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:750 | Original Size: A1 | Height Datum: AHD | Grid: MGA

Original Issue Signatures
Drawn W.BUMAGAT
Designed M.BALISI
Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 13A

Title: STORMWATER DRAINAGE Q100 CATCHMENT PLAN

ARCADIS
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Drawing No. C-13A-351 — Project No. 10029435 — Issue 02

Last Saved: MENEZC4027 Date Plotted: 25 Aug 2021 - 03:29PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C 13\10029435-13A\DD\C-13A-351-10029435-Q100CatchmentPlan.dwg V1

HYDROLOGICAL DESIGN SHEET

Node Name (-)	Node Type (-)	Setout RL (m)	Grate 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)
A-1	HEADWALL	85.640	85.860												
A-2	JUNCTION PITS	87.185	87.185												0.000
A-3	DOUBLE SIDE ENTRY GRATED	86.590	86.590												0.000
A-4	JUNCTION PIT	86.282	86.282	2P	6	75.930	0.570	0.123	0.069	0.069	14.600	0.069	0.069	14.600	14.600
A-5	JUNCTION PIT	86.370	86.370	1P	7	72.110	0.710	0.099	0.070	0.070	13.900	0.070	0.070	13.900	13.900
A-6	SIDE ENTRY GRATED	86.620	86.620	1P	7	72.110	0.540	0.080	0.043	0.055	11.000	0.037	0.049	10.300	11.000
				2P	6	75.930	0.570	0.022	0.012			0.012			
A-7	SIDE ENTRY GRATED	86.730	86.730	2P	6	75.930	0.570	0.022	0.013	0.013	2.600	0.013	0.013	2.600	2.600
A-8	SIDE ENTRY GRATED	86.710	86.710	1P	7	72.110	0.710	0.076	0.053	0.077	15.400	0.046	0.069	14.600	15.400
				2P	6	75.930	0.570	0.042	0.024			0.024			
A-9	SIDE ENTRY GRATED	86.740	86.740	2P	6	75.930	0.570	0.059	0.033	0.033	7.000	0.033	0.033	7.000	7.000
A-10	JUNCTION PIT	86.840	86.840												0.000
A-11	JUNCTION PIT	86.990	86.990												0.000
A-12	SIDE ENTRY GRATED	87.200	87.200	2P	6	75.930	0.570	0.075	0.042	0.042	8.900	0.042	0.042	8.900	8.900
A-13	JUNCTION PIT	87.470	87.470	1P	7	72.110	0.710	0.054	0.038	0.038	7.600	0.038	0.038	7.600	7.600
A-14	SIDE ENTRY GRATED	87.470	87.470	2P	6	75.930	0.570	0.030	0.017	0.017	3.600	0.017	0.017	3.600	3.600
AA-1	HEADWALL	85.340	85.340												
AA-2	HUMECEPTOR	87.129	87.129												0.000
AA-3	HUMEGARD	87.151	87.151												0.000
AA-4	JUNCTION PIT	87.134	87.134												
AB-1	END PIPE FOR FUTURE CONNECTION	86.240	86.240	1P	8	68.300	0.710	1.561	1.102	1.102	209.000	1.102	1.102	209.000	209.000
B-1	JUNCTION PIT	86.345	86.345												
B-2	DOUBLE SIDE ENTRY GRATED	86.283	86.283	2P	6	75.930	0.570	0.093	0.053	0.053	11.100	0.053	0.053	11.100	11.100
B-3	SIDE ENTRYPIT GRATED	86.470	86.470	2P	6	75.930	0.570	0.025	0.014	0.014	3.000	0.014	0.014	3.000	3.000
B-4	SIDE ENTRY GRATED	86.600	86.600	2P	6	75.930	0.570	0.079	0.045	0.045	9.400	0.045	0.045	9.400	9.400
B-5	JUNCTION PIT	86.940	86.940												0.000
B-6	SIDE ENTRY GRATED	87.060	87.060	2P	6	75.930	0.570	0.007	0.004	0.004	0.900	0.004	0.004	0.900	0.900
B-7	SIDE ENTRY GRATED	87.060	87.060	2P	6	75.930	0.570	0.051	0.029	0.029	6.100	0.029	0.029	6.100	6.100
C-1	JUNCTION PIT	86.680	87.080	1P	7	72.110	0.540	0.070	0.038	0.038	7.500	0.038	0.038	7.500	7.500
C-2	JUNCTION PIT	87.000	87.290	1P	7	72.110	0.540	0.186	0.100	0.100	20.000	0.100	0.100	20.000	20.000
C-3	JUNCTION PIT	87.360	87.360	3P	7	72.110	0.320	0.040	0.013	0.013	2.600	0.013	0.013	2.600	2.600
C-4	JUNCTION PIT	87.330	87.480	1P	7	72.110	0.540	0.243	0.130	0.130	26.100	0.130	0.130	26.100	26.100
D-1	END PIPE FOR FUTURE CONNECTION	86.000	86.460	1P	12	56.130	0.560	5.540	3.124	3.124	487.100	3.124	3.124	487.100	487.100
E-1	SIDE ENTRY GRATED	86.870	86.870	2P	6	75.930	0.570	0.077	0.044	0.044	9.200	0.044	0.044	9.200	9.200
E-2	SIDE ENTRY GRATED	86.930	86.930	1P	7	72.110	0.540	0.045	0.024	0.058	11.500	0.021	0.054	11.400	11.500
				2P	6	75.930	0.570	0.059	0.033			0.033			
E-3	PIPE CONNECTION	87.190	87.190												0.000
E-4	SIDE ENTRY GRATED	87.240	87.240	1P	7	72.110	0.540	0.108	0.058	0.058	11.600	0.058	0.058	11.600	11.600
E-5	SIDE ENTRY GRATED	87.390	87.390	2P	6	75.930	0.570	0.056	0.032	0.032	6.700	0.032	0.032	6.700	6.700
E-6	JUNCTION PIT	87.590	87.590												0.000
E-7	SIDE ENTRY GRATED	87.810	87.810	1P	5	79.740	0.710	0.100	0.070	0.102	21.500	0.070	0.097	21.400	21.500
				2P	6	75.930	0.570	0.056	0.032			0.026			
E-8	SIDE ENTRY GRATED	88.230	88.230	1P	5	79.740	0.710	0.186	0.131	0.165	34.900	0.131	0.160	35.400	35.400
				2P	6	75.930	0.570	0.060	0.034			0.028			
F-1	JUNCTION PIT	87.490	87.490	1P	7	72.110	0.540	0.240	0.129	0.129	25.800	0.129	0.129	25.800	25.800
H-1	SIDE ENTRY GRATED	87.330	87.330	2P	6	75.930	0.570	0.038	0.021	0.021	4.500	0.021	0.021	4.500	4.500
H-2	DOUBLE SIDE ENTRY GRATED	87.320	87.320	1P	7	72.110	0.540	0.081	0.044	0.079	15.700	0.037	0.072	15.300	15.700
				2P	6	75.930	0.570	0.062	0.035			0.035			
H-3	JUNCTION PIT	87.550	87.550	1P	7	72.110	0.540	0.126	0.068	0.068	13.500	0.068	0.068	13.500	13.500
H-4	SIDE ENTRY GRATED	87.730	87.730	2P	6	75.930	0.570	0.062	0.035	0.035	7.300	0.035	0.035	7.300	7.300
H-5	SIDE ENTRY GRATED	88.110	88.110	2P	6	75.930	0.570	0.078	0.044	0.044	9.300	0.044	0.044	9.300	9.300
I-1	SIDE ENTRY GRATED	87.730	87.730	2P	6	75.930	0.570	0.046	0.026	0.026	5.500	0.026	0.026	5.500	5.500
J-1	SIDE ENTRY GRATED	88.110	88.110	2P	6	75.930	0.570	0.058	0.033	0.033	6.900	0.033	0.033	6.900	6.900
L-1	SIDE ENTRY GRATED	87.390	87.390	2P	6	75.930	0.570	0.056	0.032	0.032	6.700	0.032	0.032	6.700	6.700
M-1	JUNCTION PIT	87.980	87.980												0.000
M-2	JUNCTION PIT	88.490	88.490	1P	7	72.110	0.540	0.233	0.126	0.126	25.100	0.126	0.126	25.100	25.100
M-3	JUNCTION PIT	88.940	88.940	1P	7	72.110	0.710	0.132	0.093	0.093	18.700	0.093	0.093	18.700	18.700
N-1	SIDE ENTRY GRATED	87.810	87.810	2P	6	75.930	0.570	0.056	0.032	0.032	6.700	0.032	0.032	6.700	6.700
O-1	SIDE ENTRY GRATED	88.230	88.230	2P	6	75.930	0.570	0.063	0.036	0.036	7.600	0.036	0.036	7.600	7.600

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	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

100mm on Original

Scale

Planner
RobertsDay planning·design·place

Filename C-13A-360-10029435-SwdCalcsTable.dwg

Client
RESIMAX GROUP

Status
FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker Z.STROGUSZ

Scales

Original Size A1

Height Datum AHD

Grid MGA

Original Issue Signatures
Drawn W.BUMAGAT
Designed M.BALISI
Project Manager J.MUNRO

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Project
EYNESBURY TOWNSHIP
STAGE 13A

Title
STORMWATER DRAINAGE CALCULATION TABLES
SHEET 1 OF 2

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ABN 76 104 485 289
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www.arcadis.com

Drawing No. C-13A-360 — Project No. 10029435 — Issue 02

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 Node Grate RL	Pipe US IL	Pipe DS IL	DS Node Grate RL	Cover Limit	Cover Min	Pipe DS Bend	Pipe DS Drop	US Node Ku	US Node Kw	Pipe V'head	P'head Loss (Ku.V'head)	WSE Loss (Kw.V'head)	Pipe T'head Loss	US Node HGL	Pipe US HGL	Pipe DS HGL	DS Node 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)	(%)	(1 in)	(m)
A-2 to A-1	CLASS 2	15.83	900.00	0.64	0.380	263.80	14.58	50.27	8.61	1202.50	13.07	53.72	8.53	1272.50	954.50	1313.30	0.73	1.50	2.24	2.21	2.06	87.21	84.80	84.74	85.86	0.90	0.16	0.00		0.30		0.11	0.03		0.03	85.90	85.87	85.84	85.84	0.20	494.6	1.31
A-3 to A-2	CLASS 3	16.30	900.00	0.64	0.120	1000.00	14.33	50.86	4.24	599.30	12.74	54.45	4.15	627.40	627.40	666.60	0.94	0.99	1.18	1.90	1.05	86.59	84.82	84.80	87.21	0.90	0.69	14.00	0.00	0.03		0.05	0.00		0.01	85.92	85.92	85.90	85.90	0.09	1125.7	0.67
A-4 to A-3	CLASS 3	16.18	750.00	0.44	0.150	666.70	14.09	51.39	4.24	605.50	12.51	54.99	4.15	633.50	633.50	508.40	1.25	1.43	1.43	2.06	1.15	86.28	84.84	84.82	86.59	0.90	0.66	40.10	0.00	0.31		0.10	0.03		0.04	85.99	85.96	85.92	85.92	0.23	433.1	0.31
A-5 to A-4	CLASS 3	13.06	750.00	0.44	0.150	666.70	13.90	51.82	4.17	600.60	12.32	55.41	4.08	627.70	627.70	508.40	1.23	1.42	1.42	2.05	1.15	86.37	84.86	84.84	86.30	0.90	0.66	0.00	0.00	0.34		0.10	0.04		0.03	86.05	86.02	85.99	85.99	0.23	440.9	0.31
A-6 to A-5	CLASS 2	49.86	750.00	0.44	0.150	649.30	13.19	53.44	3.32	492.60	11.70	56.81	3.24	511.30	511.30	515.30	0.99	1.16	1.32	1.89	1.17	86.62	84.94	84.86	86.37	0.90	0.71	0.00	0.00	0.84	0.86	0.07	0.06	0.06	0.08	86.19	86.13	86.05	86.05	0.15	659.2	0.43
A-7 to A-6	CLASS 2	10.69	750.00	0.44	0.150	666.70	13.03	53.79	3.26	487.60	11.59	57.06	3.19	505.80	505.80	508.40	0.99	1.14	1.30	1.89	1.15	86.73	84.95	84.94	86.62	1.20	0.88	-49.30	0.00	0.56		0.07	0.04		0.02	86.24	86.20	86.19	86.19	0.15	673.5	0.49
A-8 to A-7	CLASS 2	7.80	375.00	0.11	0.400	250.00	8.54	66.24	0.34	61.90	7.85	68.87	0.33	63.60	63.60	135.80	0.47	0.58	1.21	1.18	1.23	86.71	85.03	85.00	86.73	0.90	1.11	44.90	0.05	0.98	1.04	0.02	0.02	0.02	0.01	86.27	86.25	86.24	86.24	0.09	1091.3	0.45
A-9 to A-8	CLASS 2	11.46	300.00	0.07	0.500	200.00	8.38	66.85	0.26	48.20	7.69	69.48	0.26	49.40	49.40	84.60	0.58	0.70	1.24	1.18	1.20	86.74	85.14	85.08	86.71	1.10	1.28	51.50	0.05	0.97		0.02	0.02		0.02	86.31	86.28	86.26	86.27	0.18	570.3	0.44
A-10 to A-9	CLASS 2	15.38	300.00	0.07	0.500	200.00	8.17	67.67	0.23	42.60	7.48	70.30	0.22	43.50	43.50	84.60	0.51	0.62	1.20	1.13	1.20	86.84	85.27	85.19	86.74	0.90	1.22	-47.10	0.05	0.58		0.02	0.01		0.02	86.34	86.33	86.31	86.31	0.14	729.4	0.49
A-11 to A-10	CLASS 2	27.47	300.00	0.07	0.920	107.90	7.89	68.74	0.10	18.60	7.00	72.13	0.09	18.60	18.60	115.80	0.16	0.26	1.21	0.86	1.64	86.99	85.57	85.32	86.84	0.90	1.09	-0.20	0.05	0.49		0.00	0.00		0.01	86.35	86.35	86.34	86.34	0.03	3682	0.64
A-12 to A-11	CLASS 2	9.73	300.00	0.07	0.500	200.00	7.75	69.25	0.10	18.80	6.86	72.64	0.09	18.70	18.80	84.60	0.22	0.27	0.97	0.86	1.20	87.20	85.67	85.62	86.99	0.90	1.05	-37.90	0.05	1.76		0.00	0.01		0.00	86.36	86.35	86.35	86.35	0.03	3630.4	0.84
A-13 to A-12	CLASS 2	53.82	300.00	0.07	0.500	200.00	7.00	72.11	0.06	11.10	6.11	75.50	0.05	10.60	11.10	84.60	0.13	0.16	0.84	0.74	1.20	87.47	85.99	85.72	87.20	0.90	1.15	-37.60	0.05	3.96	4.20	0.00	0.00	0.01	0.01	86.37	86.36	86.36	86.36	0.01	9712.8	1.1
A-14 to A-13	CLASS 2	8.00	300.00	0.07	0.500	200.00	6.00	75.93	0.02	3.60	6.00	75.93	0.02	3.60	3.60	84.60	0.04	0.05	0.60	0.55	1.20	87.47	86.08	86.04	87.47	0.90	0.90	90.00	0.05	9.70		0.00	0.00		0.00	86.37	86.37	86.37	86.37	0.00	-40526	1.1
AA-2 to AA-1	CLASS 2	6.48	600.00	0.28	0.200	500.00									318.00	329.10	0.97	1.12	1.31	1.75	1.16	87.24	84.75	84.74	85.34		0.64	0.00	0.05	0.30			0.06	0.02		0.01	85.37	85.35	85.34	85.34	0.17	574.1	1.87
AA-3 to AA-2	CLASS 2	3.18	600.00	0.28	0.200	500.00									318.00	327.90	0.97	1.12	1.31	1.75	1.16	87.26	84.78	84.78	87.24	0.90	1.82	0.00	0.03	0.30			0.06	0.02		0.01	85.40	85.38	85.37	85.37	0.17	581.5	1.87
AA-4 to AA-3	CLASS 2	2.99	600.00	0.28	0.200	500.00									318.00	327.90	0.97	1.12	1.31	1.75	1.16	87.29	84.79	84.78	87.26	0.90	1.83	-0.10	0.00	0.60			0.06	0.04		0.01	85.44	85.40	85.40	85.40	0.19	530.9	1.85
A-2(a) to AA-4	CLASS 2	4.77	600.00	0.28	0.200	500.00									318.00	327.90	0.97	1.12	1.31	1.75	1.16	87.21	84.80	84.79	87.29	0.90	1.80	-24.20	0.00	0.30			0.06	0.02		0.01	85.47	85.45	85.44	85.44	0.19	530.9	1.74
AB-1 to B-1	CLASS 3	5.25	525.00	0.22	0.250	400.00	8.00	68.30	1.10	209.00	8.00	68.30	1.10	209.00	209.00	258.80	0.81	0.97	1.32	1.58	1.20	86.24	84.89	84.87	86.37	0.90	0.79	54.10	0.05	2.00		0.05	0.10		0.01	86.04	85.95	85.94	85.94	0.16	607.3	0.2
B-1 to A-2	CLASS 3	20.15	900.00	0.64	0.120	833.30	12.77	54.38	4.37	660.00	8.13	67.80	3.16	595.30	660.00	731.70	0.90	1.04	1.29	1.93	1.15	86.35	84.82	84.80	87.21	0.90	0.58	54.10	0.00	0.25		0.05	0.01		0.02	85.94	85.92	85.90	85.90	0.10	1019.4	0.43
B-2 to B-1	CLASS 3	7.35	750.00	0.44	0.150	666.70	12.67	54.62	3.27	495.80	8.03	68.20	2.06	390.20	495.80	508.40	0.98	1.12	1.30	1.87	1.15	86.28	84.84	84.82	86.37	0.90	0.66	0.00	0.00	0.31		0.06	0.02		0.01	85.97	85.95	85.94	85.94	0.14	700.2	0.33
B-3 to B-2	CLASS 2	34.17	750.00	0.44	0.150	666.70	12.17	55.74	3.22	497.80	7.53	70.09	2.01	390.70	497.80	508.40	0.98	1.13	1.30	1.87	1.15	86.47	84.89	84.84	86.30	0.90	0.67	0.00	0.00	0.65		0.06	0.04		0.05	86.06	86.02	85.97	85.97	0.14	694.7	0.42
B-4 to B-3	CLASS 2	23.89	300.00	0.07	0.500	200.00	7.20	71.36	0.08	15.30	7.09	71.79	0.08	15.30	15.30	84.60	0.18	0.22	0.92	0.81	1.20	86.60	85.06	84.94	86.47	1.20	1.05	0.00	0.05	1.55		0.00	0.00		0.00	86.07	86.06	86.06	86.06	0.02	5298.7	0.53
B-5 to B-4	CLASS 2	65.83	300.00	0.07	0.500	200.00	6.28	74.86	0.03	6.80	6.17	75.29	0.03	6.80	6.80	84.60	0.08	0.10	0.73	0.65	1.20	86.94	85.44	85.11	86.60	0.90	1.17	0.00	0.05	0.82	0.84	0.00	0.00	0.00	0.00	86.07	86.07	86.07	86.07	0.00	23553	0.87
B-6 to B-5	CLASS 2	12.11	300.00	0.07	0.500	200.00	6.11	75.50	0.03	6.90	6.00	75.93	0.03	6.80	6.90	84.60	0.08	0.10	0.73	0.65	1.20	87.06	85.55	85.49	86.94	1.20	1.14	52.20	0.05	1.02		0.00	0.00		0.00	86.07	86.07	86.07	86.07	0.00	23189	0.98
B-7 to B-6	CLASS 2	8.00	300.00	0.07	0.500	200.00	6.00	75.93	0.03	6.10	6.00	75.93	0.03	6.10	6.10	84.60	0.07	0.09	0.70	0.63	1.20	87.06	85.64	85.60	87.06	0.90	0.93	-37.80	0.05	9.70		0.00	0.00		0.00	86.08	86.07	86.07	86.07	0.00	29367	0.98
C-1 to A-5	CLASS 2	54.52	375.00	0.11	0.500	200.00	11.76	56.68	0.78	123.50	11.04	58.32	0.77	124.50	124.50	152.20	0.82	1.13	1.53	1.52	1.38	87.08	85.18	84.91	86.37	0.90	1.06	-66.40	0.05	0.38		0.06	0.02		0.18	86.26	86.24	86.05	86.05	0.34	296.2	0.81
C-2 to C-1	CLASS 2	67.62	375.00	0.11	0.640	155.50	11.04	58.31	0.75	121.00	10.32	59.95	0.73	121.80	121.80	172.90	0.70	1.10	1.69	1.51	1.57	87.29	85.67	85.23	87.08	0.60	1.21	0.00	0.05	0.79		0.06	0.05		0.22	86.53	86.48	86.26	86.26	0.32	309.5	0.76
C-3 to C-2	CLASS 2	12.97	375.00	0.11	0.500	200.00	10.88	58.66	0.65	105.40	10.16	60.31	0.63	105.70	105.70	152.20	0.69	0.96	1.48	1.42	1.38	87.36	85.78	85.72	87.29	0.60	1.15	-11.80	0.05	0.29		0.05	0.01		0.03	86.58	86.56	86.53	86.53	0.25	407.7	0.78
C-4 to C-3	CLASS 2	67.63	375.00	0.11	0.500	200.00	10.07	60.52	0.63	106.60	8.80	65.24	0.60	108.70	108.70	152.20	0.71	0.98	1.49	1.44	1.38	87.48	86.17	85.83	87.36	0.90	0.90	0.00	0.05	1.11		0.05	0.05		0.18	86.81	86.75	86.58	86.58	0.26	386.4	0.68
C-5 to C-4	CLASS 2	89.75	375.00	0.11	0.750	134.00	9.18	63.79	0.50	89.30	8.46	66.56	0.49	90.20	90.20	186.50	0.48	0.82	1.67	1.34	1.69	88.15	86.89	86.22	87.48	0.60	0.67	-0.10	0.05	1.31		0.03	0.04		0.36	87.16	87.11	86.81	86.81	0.34	294.1	1
D-1 to B-3	CLASS 3	11.90	750.00	0.44	0.150	666.70	12.00	56.13	3.12	487.10	12.00	56.13	3.12	487.10	487.10	508.40	0.96	1.10	1.30	1.86	1.15	86.46	84.95	84.94	86.47	1.20	0.71	47.40	0.05	2.00		0.06	0.12		0.02	86.20	86.08	86.06	86.06	0.14	725.1	0.27
E-1 to A-7	CLASS 2	25.99	675.00	0.36	0.250	400.00	12.72	54.49	2.91	441.10	11.28	57.77	2.84	456.00	456.00	500.40	0.91	1.27	1.57	1.90	1.40	86.87	85.09	85.03	86.73	0.90	0.98	-40.70	0.08	0.64		0.08	0.05		0.05	86.35	86.29	86.24	86.24	0.21	480.1	0.52
E-2 to E-1	CLASS 2	15.05	675.00	0.36	0.250	400.00	12.55	54.90	2.87	437.80	11.10	58.17	2.80	452.20	452.20	500.40	0.90	1.26	1.57	1.90	1.40	86.93	85.18	85.14	86.87	0.80	0.84	43.10	0.05	0.37		0.08	0.03		0.03	86.41	86.38	86.35	86.35	0.20	488.1	0.53
E-3 to E-2	CLASS 2	46.45	675.00	0.36	0.250	400.00	11.99	56.15	2.81	438.80	10.55	59.43	2.74	452.40	452.40	500.40	0.90	1.26	1.57	1.90	1.40	87.19	85.30	85.18	86.93	0.80	1.03	-19.50	0.00			0.08			0.10	86.50	86.50	86.41	86.41	0.21	487.6	0.68
E-4 to E-3	CLASS 2	9.13	675.00	0.36	0.250	400.00	11.88	56.40	2.81	440.70	10.44	59.67	2.74	454.30	454.30	500.40	0.91	1.27	1.57	1.90	1.40	87.24	85.32	85.30	87.19	0.80	1.17	0.00	0.00	0.34		0.08	0.03		0.02	86.55	86.52	86.50	86.50	0.21	483.6	0.69
E-5 to E-4	CLASS 2	24.02	600.00	0.28	0.280	357.10	11.59	57.06	2.31	366.20	10.35	59.87	2.26	375.40	375.40	389.30	0.96	1.33	1.55	1.87	1.38	87.39	85.44	85.37	87.24	1.00	1.08	-5.30	0.05	0.28		0.09	0.03		0.06	86.64	86.61	86.55	86.55	0.26	383.5	0.75
E-6 to E-5	CLASS 2	31.89	600.00	0.28	0.780	126.40	11.36	57.58	2.25	359.30	9.85	61.23	2.17	368.60	368.60	659.40	0.56	1.30	2.39	1.85	2.33	87.59	85.74	85.49	87.39	1.20	1.20	-1.60	0.05	0.25		0.09	0.02		0.08	86.74	86.72	86.64	86.64	0.25	397.4	0.84
E-7 to E-6	CLASS 2	36.76	600.00	0.28	0.800	125.60	11.10	58.17	1.85	299.30	9.66	61.97	1.78	306.70	306.70	661.50	0.46	1.08	2.30	1.72	2.34	87.81	86.08	85.79	87.59	0.90	1.08	0.10	0.05	0.52		0.06	0.03		0.06	86.84	86.81	86.74	86.74	0.18	569.8	0.98
E-8 to E-7	CLASS 2	69.02	600.00	0.28	0.360	275.30	10.37	59.83	1.72	285.60	8.93	64.76	1.65	296.50	296.50	444.40	0.67	1.05	1.68	1.70	1.57	88.23	86.38	86.13	87.81	0.90	1.04	-0.10	0.05	0.52		0.06	0.03		0.11	86.97	86.94	86.84	86.84	0.16	643.7	1.26
E-9 to E-8	CLASS 2	4.24	450.00	0.16	0.600	166.70	10.33	59.92	1.52	252.60	9.09	64.15	1.46	261.00	261.00	269.60	0.97	1.64	1.91	1.92	1.69	88.27	86.46	86.43	88.23	0.90	1.31	4.20	0.05	0.24		0.14	0.03		0.02	87.03	87.00	86.97	86.97	0.56	177.6	1.24
F-1 to A-10	CLASS 2	66.38	300.00	0.07	1.850	54.00	7.00	72.11	0.13	25.80	7.00	72.11	0.13	25.80	25.80	164.40	0.16	0.37	1.71	0.95	2.33	87.49	86.55	85.32	86.84	0.60	0.61	-75.60	0.05	7.00		0.01	0.05		0.37	86.72	86.67	86.34	86.34	0.50	201.8	0.77
H-1 to E-4	CLASS 2	10.59	375.00	0.11	0.500	200.00	10.68	59.13	0.45	73.10	7.83	68.95	0.40	77.40	77.40	152.20	0.51	0.70	1.38	1.27	1.38	87.33	85.67	85.62	87.24	1.20	1.23	41.80	0.30	0.75		0.03	0.02		0.01	86.58	86.57	86.55	86.55	0.13	748.7	0.74
H-2 to H-1	CLASS 2	8.01	375.00	0.11	0.500	200.00	10.58	59.35	0.42	69.90	8.88	64.95	0.41	73.70	73.70	152.20	0.48	0.67	1.37	1.24	1.38	87.32	85.76	85.72	87.33	0.90	0.98	-42.60	0.05	1.79	2.08	0.02	0.04	0.05	0.01	86.64	86.59	86.58	86.58	0.12	822.3	0.67
H-3 to H-2	CLASS 2	40.52	375.00	0.11	0.500	200.00	10.09	60.46	0.35	58.00	8.39	66.82	0.33	61.20	61.20	152.20	0.40	0.55	1.31	1.17	1.38	87.55	86.02	85.81	87.32	0.90	1.10	86.70	0.05	1.06		0.02	0.02		0.03	86.69	86.67	86.63	86.64	0.09	1175.9	0.86
H-4 to H-3	CLASS 2	10.82	300.00	0.07	0.960	100.10	9.99	60.72	0.28	46.90	8.38	66.84	0.26	49.00	49.00	120.30	0.41	0.69	1.62	1.17	1.70	87.73	86.17	86.07	87.55	1.10	1.15	-45.00	0.05	1.12		0.02	0.03		0.02	86.73	86.70	86.69	86.69	0.17	578	0.99
H-5 to H-4	CLASS 2	75.95	300.00	0.07	0.530	187.70	8.96	64.62	0.22	39.00	7.96	68.44	0.21	40.20	40.20	87.30	0.46	0.57	1.21	1.10	1.24	88.11	86.63	86.22	87.73	0.90	1.15	-45.00	0.05	1.23		0.02	0.02		0.10	86.82	86.80	86.73	86.73	0.08	1178.2	1.29
H-6 to H-5	CLASS 2	88.11	300.00	0.07	0.560	178.60	7.80	69.05	0.14	26.90	6.87	72.60	0.14	27.30	27.30	89.60	0.30	0.39	1.12	0.97	1.27	88.60	87.17	86.68	88.11	0.90	1.06	0.00	0.05	0.43		0.01	0.00		0.49	87.30	87.30	86.82	86.82	0.55	183.4	1.3
I-1 to H-4	CLASS 2	8.00	300.00	0.07	1.380	72.40	6.00	75.93	0.03	5.50	6.00	75.93	0.03	5.50	5.50	141.70	0.04	0.08	0.99	0.61	2.01	87.73	86.33	86.22	87.73	0.90	0.90	45.00	0.05	9.70		0.00	0.00		0.00	86.74	86.73	86.73	86.73	0.00	34909	0.99
J-1 to H-5	CLASS 2	8.00	300.00	0.07	0.500	200.00	6.00	75.93	0.03	6.90	6.00	75.93	0.03	6.90	6.90	84.60	0.08	0.10	0.73	0.65	1.20	88.11	86.72	86.68	88.11	0.90	0.90	90.00	0.05	9.70		0.00	0.00		0.00	86.82	86.82	86.82	86.82	-0.01	-12013	1.29
L-1 to E-5	CLASS 2	7.78	300.00	0.07	3.280	29.70	6.00	75.93	0.03	6.70	6.00	75.93	0.03	6.70	6.70	222.30	0.03	0.10	1.44	0.65	3.15	87.39	86.00	85.74	87.39	0.90	0.91	-91.50	0.30	6.38		0.00	0.00		0.00	86.64	86.64	86.64	86.64	0.00	24188	0.75
M-1 to E-6	CLASS 2	28.90	300.00	0.07	1.770	56.50	9.43	62.83	0.39	68.80	8.71	65.60	0.38	69.20	69.20	160.70	0.43	0.98	2.19	1.34	2.27	87.98	86.55	86.04	87.59	1.10	1.10	92.80	0.30	2.09	2.66	0.05	0.10	0.13	0.10	86.97	86.84	86.74	86.74	0.33	301.8	1.02
M-2 to M-1	CLASS 2	66.30	300.00	0.07	1.370	73.00	8.88	64.94	0.39	71.10	8.16	67.71	0.38	71.40	71.40	141.20	0.51	1.01	2.00	1.36	2.00	88.49	87.51	86.60	87.98	0.60	0.65	-90.00	0.05	1.56		0.05	0.08		0.82	87.80	87.72	86.94	86.97	1.17	85.3	0.69
M-3 to M-2	CLASS 2	58.64	300.00	0.07	0.750	132.60	8.22	67.47	0.27	50.40	7.49	70.23	0.25	49.60	50.40	104.30	0.48	0.71	1.46	1.19	1.48	88.94	88.00	87.56	88.49	0.60	0.60	-0.10	0.05	1.19		0.03	0.03		0.41	88.20	88.17	87.80	87.80	0.64	155.8	0.73
M-4 to M-3	CLASS 2	32.04	225.00	0.04	0.590	169.40	7.72	69.35	0.18	33.80	7.00	72.11	0.16	32.30	33.80	43.10	0.78	0.85	1.20	1.17	1.08	89.16	88.26	88.08	88.94	0.60	0.61	17.60	0.08	1.33		0.04	0.05		0.19	88.47	88.42	88.23	88.20	0.60	166.4	0.7
N-1 to E-7	CLASS 2	7.85	300.00	0.07	0.500	200.00	6.00	75.93	0.03	6.70	6.00	75.93	0.03	6.70	6.70	84.60	0.08	0.09	0.72	0.65	1.20	87.81	86.42	86.38	87.81	0.90	0.90	-90.10	0.30	9.70		0.00	0.00		0.00	86.84	86.84	86.84	86.84	0.00	24586	0.97
O-1 to E-8	CLASS 2	8.00	300.00	0.07	1.980	50.60	6.00	75.93	0.04	7.60	6.00	75.93	0.04	7.60	7.60	170.00	0.04	0.11	1.23	0.67	2.40	88.23	86.84	86.68	88.23	0.90	0.91	-90.00	0.30	9.70		0.00	0.01		0.00	86.98	86.97	86.97	86.97	-0.02	-4146	1.25

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	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

Scale

Planner: RobertsDay planning·design·place

Filename C-13A-361-10029435-SwdCalcsTable.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales | Original Size: A1 | Height Datum: AHD | Grid: MGA

Original Issue Signatures
Drawn W.BUMAGAT
Designed M.BALISI
Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP
STAGE 13A

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. C-13A-361 — Project No. 10029435 — Issue 02

100mm on Original



Issue	Description	By	Ckd	PM	Date
02	AMENDED FOR COUNCIL RFI	CM	ZS	JM	25.08.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	02.08.21

100mm on Original

Scale

0 5 10 20 30 40 50m

1 : 500

Planner

RobertsDay planning·design·place

Filename C-13A-700-10029435-PassiveIrrigationPlan.dwg

Client

RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales	1:500	Original Issue Signatures	
Original Size	A1	Drawn W.BUMAGAT	
Height Datum	AHD	Designed K.ANGELES	
Grid	MGA	Project Manager J.MUNRO	

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Project: EYNESBURY TOWNSHIP STAGE 13A

Title: PASSIVE IRRIGATION LAYOUT

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Level 32, 140 William Street
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Tel No: +61 3 8623 4000
www.arcadis.com

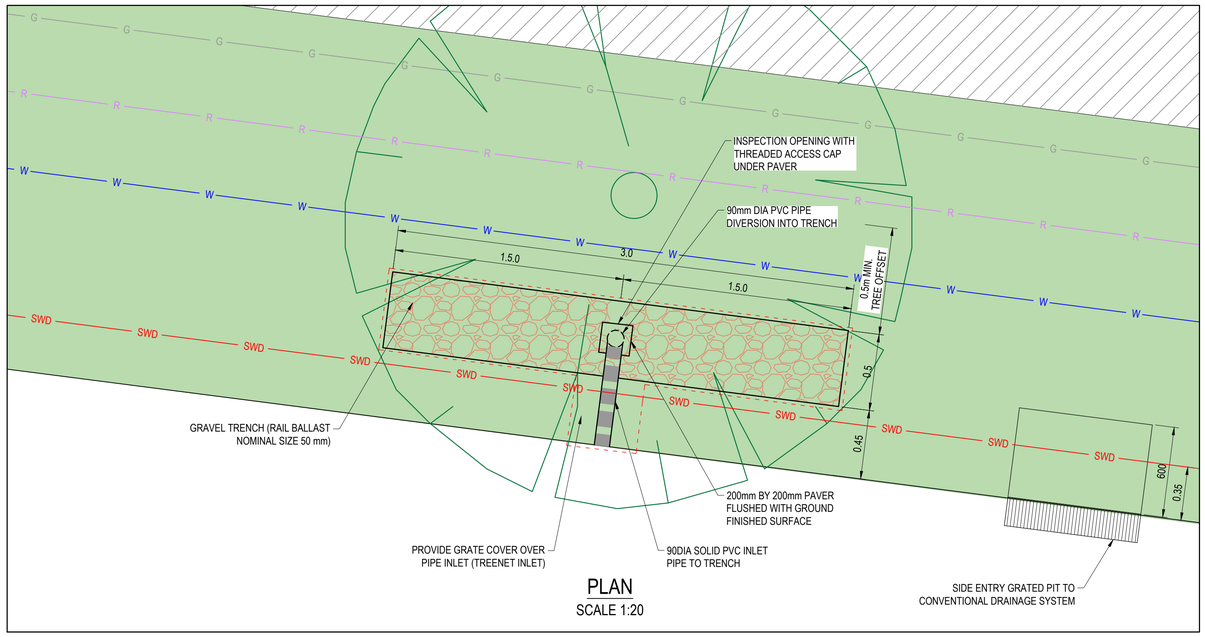
Drawing No.	Project No.	Issue
C-13A-700	10029435	02

Last Saved: MENEZC4027 Date Plotted: 24 Aug 2021 - 03:22PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-5C13\10029435-13A\DD\C-13A-700-10029435-PassiveIrrigationPlan.dwg V1

NOTE:

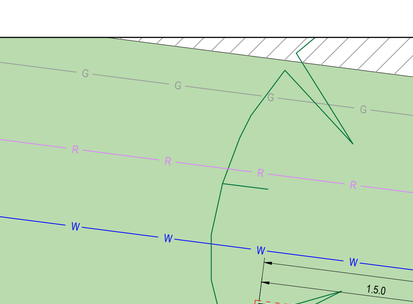
GRAVEL TRENCH - KERB INLET

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-13A-002.

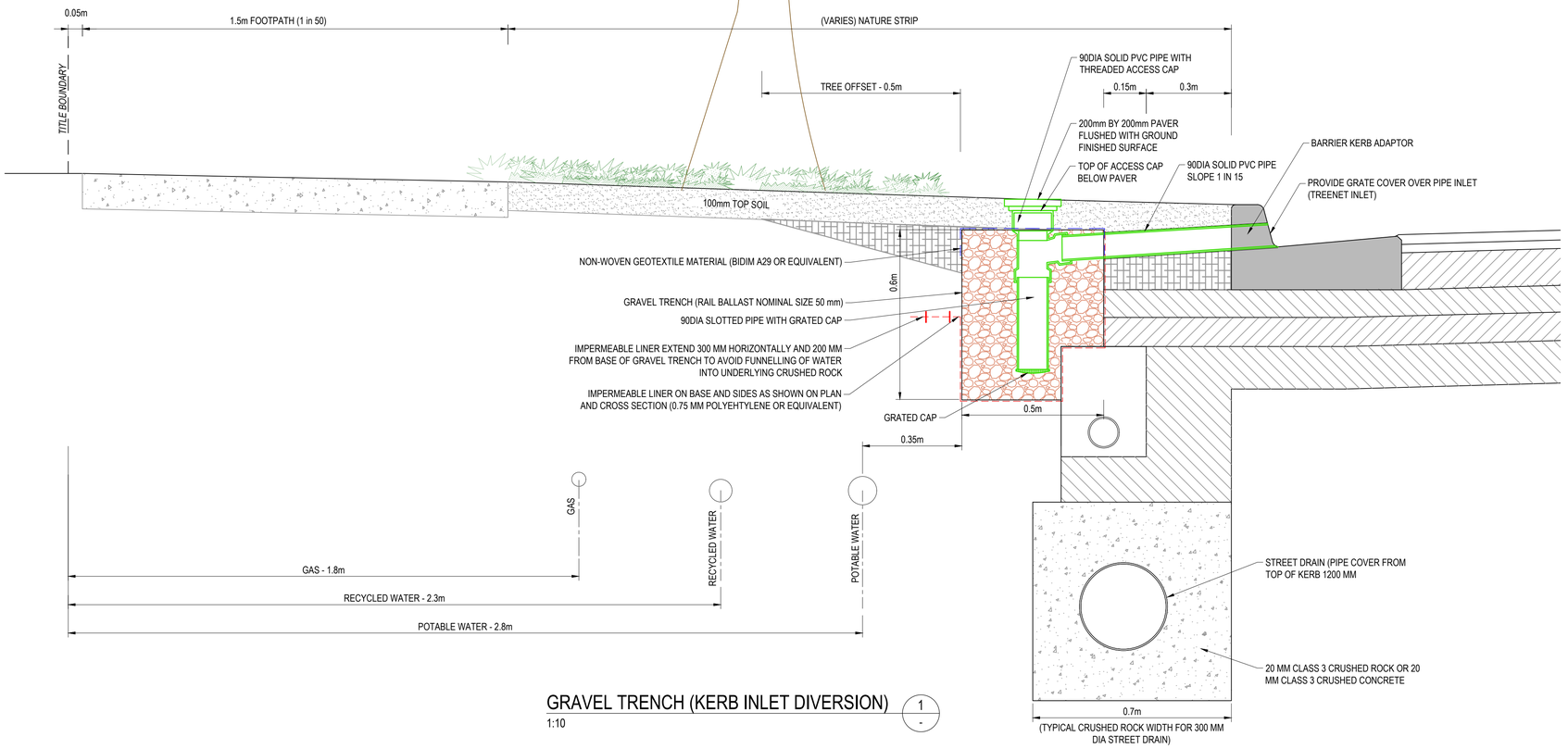


PLAN

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	WB	ZS	JM	02.08.21

Scale

0 100 200 400 600 800 1000mm

1 : 10

0 0.5 1 1.5 2m

1 : 20

100mm on Original

Planner: RobertsDay planning·design·place

Filename C-13A-701-10029435-PassiveIrrigationDetails.dwg

Client: RESIMAX GROUP

Status: FOR APPROVAL
CONSTRUCTION SUBJECT TO APPROVAL

Checker: Z.STROGUSZ

Scales: 1:500

Original Size: A1

Height Datum: AHD

Grid: MGA

Original Issue Signatures
Drawn W.BUMAGAT
Designed K.ANGELES
Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 13A

Title: PASSIVE IRRIGATION DETAILS

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Drawing No. C-13A-701 — Project No. 10029435 — Issue 01