

GENERAL

- 1. DO NOT SCALE FROM THESE DRAWINGS, USE WRITTEN DIMENSIONS ONLY.
2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:
a. SITE DERIVED INFORMATION.
b. ANY ADDITIONAL INSTRUCTIONS/INFORMATION SUPPLIED DURING THE COURSE OF CONSTRUCTION.
c. RELEVANT GEOTECHNICAL REPORT.
3. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.). T.B.M'S ARE SHOWN ON THE PLANS, ALL LEVELS SHALL BE RELATED TO THESE.
4. THE CONTRACTOR IS TO ENSURE THAT ALL FOOTPATHS, KERBS, ROAD PAVEMENT, NATURE STRIPS, STREET FURNITURE AND SERVICES DAMAGED DURING CONSTRUCTION ACTIVITIES ARE MADE GOOD TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.
5. THE CONTRACTOR IS TO COMPLY WITH THE EPA AND COUNCIL REQUIREMENTS FOR NOISE AND AIRBORNE POLLUTION.
6. PRIOR TO THE COMMENCEMENT OF WORKS THE CONTRACTOR IS TO ENSURE THAT ALL REQUIRED PERMITS ARE ISSUED BY THE RELEVANT AUTHORITIES.
7. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS, AND IN COMPLIANCE WITH THE BUILDING CODE OF AUSTRALIA, COUNCIL STANDARDS AND LOCAL LAWS.
8. THE CONTRACTOR IS TO ENSURE THAT A LICENSED SURVEYOR IS ENGAGED TO POSITION WORKS AND PROVIDE AS CONSTRUCTED PLANS.
9. NO CONTAMINATED FILL IS TO BE IMPORTED ONTO THIS SITE.
10. THE CONTRACTOR IS TO ENSURE THAT POLLUTION CONTROL MEASURES ARE IN PLACE DURING CONSTRUCTION AND THAT THEY COMPLY WITH EPA BEST PRACTICE GUIDELINES.
11. STRUCTURAL FILL MUST BE PLACED IN ACCORDANCE WITH NOTES AND AS3798:2007.
12. THE CONTRACTOR IS TO NOTIFY THE COORDINATOR OF ENGINEERING AT COUNCIL OF HAULAGE ROUTES AND SEEK APPROVALS AS REQUIRED.
13. THE CONTRACTOR IS TO ENSURE THAT ALL MAINTENANCE DEPOSITS AND BONDS ARE PAID TO THE RELEVANT AUTHORITIES AS REQUIRED.
14. ALL CONSTRUCTION WORK IS TO BE LIMITED TO AUTHORITY APPROVED WORKING HOURS.
15. ANY ROAD/PART ROAD CLOSURES ARE TO BE APPROVED BY COUNCIL PRIOR TO WORKS COMMENCING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY COUNCIL WITH ANY DOCUMENTATION, SUCH AS TRAFFIC MANAGEMENT PLANS, AS REQUIRED.
16. ALL TESTING TO BE AS DIRECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER AND COSTS TO BE INCLUDED IN TENDER. INCLUDING THE SERVICE OF AN APPROVED GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER WILL BE REQUIRED TO ISSUE A COMPLIANCE CERTIFICATE CONFIRMING THAT THE WORKS HAVE BEEN COMPLETED TO THE STANDARD SPECIFIED.
ALLOW FOR THE FOLLOWING COMPACTION TESTS IN TENDER (AS A MINIMUM).
i. SUBGRADE (CUT OR FILL) - 1 TEST PER 600 SQ M PER LAYER.
ii. CRUSHED ROCK COURSES - 1 TEST PER 400 SQ M PER LAYER.
iii. ASPHALT - AS PER VIC ROAD STANDARD REQUIREMENTS.
iv. TRENCH BEDDING AND BACKFILL - 1 TEST PER 30 M PER LAYER.
17. PROVIDE CLAY 'PLUG' TO ALL SERVICE TRENCHES WHERE ANY PIPE, DUCT OR CABLE ENTERS THE BUILDING TO PREVENT INGRESS OF WATER UNDER BUILDING.

STORMWATER DRAINAGE

- 1. ALL DRAINAGE PIPES ARE TO BE R.C. CLASS 'A', F.R.C. OR U.P.V.C. S/N8 UNLESS NOTED OTHERWISE ON PLAN. ALL R.C. AND F.R.C. PIPES ARE TO BE RUBBER RING JOINTED (R.R.J.)
2. ALL PITS ARE TO BE CONSTRUCTED TO MAROONDAH CITY COUNCIL STANDARDS AND ALL COVERS ARE TO BE IN ACCORDANCE WITH AS3996-2006. PITS IN EXCESS OF 10m DEEP ARE TO BE FITTED WITH STEEL IRONS. CONCRETE FOR ALL PITS TO BE AT LEAST GRADE F'C - 25MPa UNO.
3. ALL LEVELS AND DIMENSIONS ARE TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES ARE TO BE REFERRED TO THE ENGINEER FOR A DECISION.
4. THE CONTRACTOR IS TO VERIFY THE LOCATION AND LEVEL OF SERVICES PRIOR TO ANY EXCAVATION WORKS IN THE VICINITY OF THESE SERVICES. ALL CLEARANCES BETWEEN SERVICES ARE TO BE MET IN ACCORDANCE WITH AS3500:3/2018 SECTION 7.2.7.
5. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL SERVICES PRIOR TO COMMENCEMENT OF WORKS. THE CONTRACTOR IS TO CONTACT ALL RELEVANT AUTHORITIES 48 HOURS PRIOR TO ANY EXCAVATION WORKS IN THE VICINITY OF THE IDENTIFIED SERVICES.
7. ANY EXCAVATED TRENCHES IN EXCESS OF 15M IN DEPTH ARE TO BE ADEQUATELY SHORED TO PREVENT COLLAPSE DURING WORKS.
8. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL APPROVED PLANS AND STANDARD DRAWINGS.
9. THE CONTRACTOR IS TO OBTAIN ALL NECESSARY INSPECTIONS AND APPROVALS FROM THE COUNCIL ENGINEER AND ALL OTHER RELEVANT AUTHORITIES.
10. UNO. TRENCH BACKFILL SHOULD BE COMPACTED TO NOT LESS THAN 95% OF THE DRY DENSITY RATIO FOR STANDARD COMPACTION (COHESIVE SOILS) OR 70% OF THE MINIMUM DENSITY INDEX FOR STANDARD COMPACTION (COHESIONLESS SOIL), IN ACCORDANCE WITH AS3798:2007. REFER TO SECTION DETAILS FOR DRAINAGE TRENCHES BACKFILL DETAILS.
11. WHEN USING PRECAST OR PREFABRICATED UNITS, THE CONTRACTOR IS TO SEEK THE ENGINEER'S APPROVAL BEFORE INSTALLATION.
12. WHEN REMOVING ANY REDUNDANT PIPES AND PITS, THE CONTRACTOR MUST BACKFILL IN ACCORDANCE WITH TRENCH BACKFILL NOTES ABOVE.
13. CONTRACTOR IS TO PROVIDE A SAMPLE OF GRATES TO BE PLACED ON OR ADJACENT TO PATHS FOR APPROVAL BY THE COUNCIL PRIOR TO INSTALLATION.
14. COUNCIL IS TO BE GIVEN 24 HOUR NOTICE PRIOR TO INSPECTIONS OF THE FOLLOWING ITEMS:
a. BREAK IN AND PIPE TO PIT CONNECTION, PRIOR TO BACKFILL.
b. COMPLETION OF WORKS.
15. ALL PLUMBING AND DRAINAGE WORKS IS TO BE COMPLETED IN ACCORDANCE WITH AS3500:2018 AND ANY OTHER RELEVANT CODES OF PRACTICE FOR SERVICES AND ASSOCIATED WORKS.
16. ALL STEEL MEMBERS INCLUDING GRATES AND LINTELS ARE TO BE HOT DIPPED GALVANISED.
17. ALL MINIMUM PIPE GRADES ARE TO BE IN ACCORDANCE WITH AS3500.
18. GRADED DRAINAGE PITS ARE TO BE LOCATED IN SAG POINTS (LOW POINTS). THE CONTRACTOR IS TO ENSURE EVEN FALLS ARE PROVIDED TO PITS AND LOCAL GRADES FORMED OR REQUIRED TO ELIMINATE DEAD DRAINAGE SPOTS.
19. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION AND LEVEL OF ALL EXISTING DISCHARGE POINTS PRIOR TO CONSTRUCTION.

AG DRAINS

- 1. AG DRAINS (SUBSOIL DRAINS) ARE TO BE INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-103 AND AS3500.
2. MIN GRADE OF AG-DRAINS IS TO BE 1:200.
3. AG-DRAINS ARE TO BE FITTED WITH 50mm INSPECTION OPENINGS (I.O.) AT THEIR TOPMOST ENDS, AT CHANGES OF FLOW DIRECTIONS AND AT A MAXIMUM HORIZONTAL DISTANCE OF 45m.
4. INSPECTION OPENINGS ARE TO EXTEND VERTICALLY TO THE TOP OF A PAVED AREA OR WITHIN 300mm FROM THE SURFACE IN UNPAVED AREAS AND TERMINATED WITH A SCREW CAP LEGIBLY MARKED 'S/W'. ADEQUATE CAST IRON PROTECTION COVERS ARE TO BE USED WHEN POSITIONED WITHIN TRAFFIC LANES OR PAVEMENT WITH VEHICLE ACCESS.
5. THE CONTRACTOR IS TO ALLOW FOR ALL AG-DRAINS AS REQUIRED AT THE REAR OF RETAINING WALLS AND EDGE OF FLEXIBLE PAVEMENTS.
6. ALL AG-DRAINS ARE TO BE WRAPPED IN GEOTEXTILE MATERIAL UNO. THE ENTIRE BEDDING MATERIAL IS TO BE WRAPPED WITH GEOTEXTILE FABRIC OVERLAPPING NOT LESS THAN 300mm.
7. UNLESS NOTED OTHERWISE, THE EMBEDMENT MATERIAL IS TO BE 20mm NOM. DIA. CLEAN SCREENINGS FOR THE FULL DEPTH OF THE EMBEDMENT TRENCH EXCEPT FOR GEOTECHNICAL REQUIREMENTS AS PER LANDSCAPING SPECIFICATIONS.

CONCRETE

- a. UNLESS NOTED OTHERWISE CONCRETE CRUSHING STRENGTH AT 28 DAYS SHALL BE AS NOTED IN MAROONDAH CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS

BITUMEN PAVEMENT

- 1. REFER TO PLAN HATCHING AND LEGEND FOR NOMINATION OF PAVEMENT TYPES.
2. LOT TESTING SHALL BE CARRIED OUT WITH A MINIMUM OF SIX SITES WITH CHARACTERISTIC RELATIVE COMPACTION ACHIEVING THE STANDARDS OUTLINED ON PLAN AND DETAILS.
3. WHERE THE LOT TO BE TESTED IS LESS THAN 500m² THEN THREE TESTS MAY BE USED BUT THE MEAN OF THE RESULTS MUST BE 2% HIGHER THAN THE REQUIRED STANDARDS.
4. EACH PAVEMENT LAYER SHALL BE INSPECTED AND APPROVED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCING THE NEXT.
5. COPIES OF ALL TEST RESULTS ARE TO BE PROVIDED TO THE SUPERVISING AUTHORITY FOR DOCUMENTATION PURPOSES.

AUXILIARY WORKS

- 1. THE CONTRACTOR IS TO SEEK COUNCIL REQUIREMENTS FOR 'NOTICES OF WORKS' WITHIN A PUBLIC ROAD RESERVE.
2. NO ROADWORKS ARE TO COMMENCE UNTIL ALL TEMPORARY SIGNS AND ASSOCIATED ITEMS ARE IN PLACE AS APPROVED.
3. ALL DISTURBED AREAS ARE TO BE RENISTATED AND SHAPED AS DIRECTED. ALL GRASSED AREAS SHALL BE TOP DRESSED WITH A MINIMUM DEPTH OF 100mm OF APPROVED TOPSOIL, RAKED AND SEEDED.
4. ALL ROADSIDE AREAS SHALL BE MAINTAINED FOR A MINIMUM OF THREE MONTHS OR UNTIL THEY ARE RE-ESTABLISHED TO COUNCIL SATISFACTION.
5. MAINTENANCE WORKS SHALL INCLUDE BUT NOT BE LIMITED TO:
a. TOPPING UP WITH SOIL WHERE SUBSIDED.
b. RE-SEEDING AS REQUIRED.
c. MOWING AND GENERAL LANDSCAPE MAINTENANCE.
d. ALL LINE-MARKING TO BE IN ACCORDANCE WITH COUNCIL GUIDELINES.
6. REINSTATE ANY PATHS, KERBS, PAVEMENTS, BATTERS AND RETAINING WALLS DAMAGED DURING THE COURSE OF THE WORKS TO THE SATISFACTION OF THE CLIENT REPRESENTATIVE.

HEALTH AND SAFETY

- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL WORKS ARE CARRIED OUT IN A SAFE MANNER. THE WORKS SHALL COMPLY WITH APPLICABLE HEALTH AND SAFETY LEGISLATION INCLUDING CODES OF PRACTICE, AUSTRALIAN STANDARDS, GUIDANCE NOTES AND WORKSAFE REQUIREMENTS.
2. THE CONTRACTOR SHALL ENSURE A RISK ASSESSMENT HAS BEEN CARRIED OUT AND DOCUMENTED FOR ALL ACTIVITIES PERFORMED ON THE SITE. SAFE WORK PROCEDURES MUST BE DOCUMENTED AS REQUIRED BY LEGISLATION AND RELEVANT AUTHORITIES. THE BUILDER MAY NEED TO ENGAGE SUITABLY EXPERIENCED CONSULTANTS TO PREPARE A SAFE WORK PROCEDURE IF THE BUILDER IS INEXPERIENCED IN THIS FIELD OR IF THEY ARE NOT SATISFIED WITH THE METHOD PROPOSED BY THE CONTRACTOR.
3. THE WORKS SHALL BE CARRIED OUT IN A MANNER THAT ENSURES THE SAFETY OF THE PUBLIC AT ALL TIMES. SITE SAFETY REQUIREMENTS AND ARRANGEMENTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED BY COUNCIL.

THE CONTRACTOR IS TO ENGAGE THE GEOTECHNICAL ENGINEER TO APPROVE ALL FILL MATERIALS PRIOR TO PLACEMENT, SUBGRADE PRIOR TO PLACEMENT OF FILL, COMPACTION OF FILL.

SUBGRADE PREPARATION AND EARTHWORKS - PAVEMENTS

- 1. REFER SOIL REPORT BY: OTHERS
2. UNDER ALL PAVEMENT AREAS, STRIP ALL TOPSOIL AND PREPARE FOR PAVEMENT AS PER DETAIL.
3. CUT AND FILL AS REQUIRED TO PRODUCE FINISHED SURFACE LEVEL AS SPECIFIED LESS PAVEMENT THICKNESS AS SHOWN ON DRAWINGS.
4. COMPACT CUT SURFACE TO 98% STANDARD MAXIMUM DRY DENSITY (SMDD).
5. THE MOISTURE CONTENT OF THE SUBGRADE OR FILL SHOULD BE WITHIN 85%-115% OF THE STANDARD OPTIMUM MOISTURE CONTENT AT THE TIME OF COMPACTION.
6. PRIOR TO PLACEMENT OF FILL OR PAVEMENT REMOVE AND REPLACE SOFT OR UNSTABLE SUBGRADE WITH CLEAN WELL GRADED APPROVED MATERIAL TO 98% SMDD. PROOF ROLL SUBGRADE SURFACE WITH A DUAL WHEELED PNEUMATIC TYRED VEHICLE (MIN. 9.4 TONNE LOADED AXEL) AND MAKE GOOD TO ANY SOFT SPOTS.
7. EXCAVATED AND PREPARED SURFACES UNDER ALL PAVEMENTS SHALL BE SPRAYED WITH AN APPROVED WEED KILLER. CARE MUST BE TAKEN TO AVOID CONTAMINATING GARDEN BEDS AND LAWN AREAS.
8. FILLING SHALL BE CLEAN WELL GRADED GRANULAR MATERIAL COMPACTED TO 95% MMD IN MAX. 200mm LOOSE THICKNESS LAYERS, OR APPROVED IMPORTED CLAY FILL COMPACTED TO 98% SMDD IN 150mm LAYERS.
9. CUT OR BACKFILL AREA BEHIND KERBING TO TOP OF KERB AND GRADE TO 1 IN 4 MAX SLOPE TO MATCH EXISTING SURFACE LEVELS.
10. CONTRACTOR IS TO SUPPLY A RATE TO DEAL WITH SOFT SPOTS, THE RATE IS TO INCLUDE EXCAVATION AND REMOVAL OF SPOIL OFF SITE. RATE IS TO BE CALCUATED PER CUBIC METRE OF BACKFILL.
11. 98%SMDD IS APPROXIMATELY EQUIVALENT TO 95%MMMD OR 75% MINIMUM DENSITY INDEX AS NOTED IN TABLE 5.1 OF AS3798-2007.

SEDIMENT AND EROSION CONTROL

GENERAL NOTES

- 1. SOIL CONTROL MEASURES MUST BE ADOPTED AT ALL TIMES TO THE SATISFACTION OF COUNCIL'S DESIGN ENGINEER AND THE FACILITIES MANAGER DURING THE DURATION OF THE CONTRACT. SITE CONTROLS AND EROSION MINIMISATION TECHNIQUES ARE TO BE IN ACCORDANCE WITH THE INSTITUTE OF ENGINEERS AUSTRALIA PUBLICATION 'SOIL EROSION AND SEDIMENT CONTROL', EPA GUIDELINES AND OTHER CONTRACT DOCUMENTATION INCLUDING THIS PLAN.
2. SITE ESTABLISHMENT AND STRIPPING TOPSOIL
a. STOCKPILE SOIL IN ALLOCATED LOCATION AND PROVIDE SILT CONTROL BARRIERS IF STOCKPILE IS LEFT OVERNIGHT.
b. WASH DOWN ANY VEHICLES LEAVING SITE AFTER TREADING ON SOIL.
c. PLACE CRUSHED ROCK TO A DEPTH OF 150mm MINIMUM TO ALL VEHICLE ACCESS AREAS OVER AN APPROVED WOVEN GEOTEXTILE FABRIC (DUX WISS OR EQUIVALENT).
d. GRADE ALL SOIL AREAS AWAY FROM MAIN CONSTRUCTION AREA AND TOWARDS DRAINAGE POINTS.
e. PLACE FILTER MATERIAL SUCH AS HAY BALES OR SILT FENCES AROUND DRAINAGE POINTS.
f. INSTALL ON-SITE WASTE RECEPTORS (e.g. MINI-SKIPS, BINS, WIND PROOF LITTER RECEPTORS).
3. CONSTRUCTION OF DRAINAGE SYSTEMS
a. CARRY OUT WORKS IN DRY WEATHER.
b. DO NOT LEAVE TRENCHES OPEN FOR A LONG PERIOD OF TIME.
c. BUILD DRAINAGE SYSTEM COMMENCING FROM DOWN STREAM.
d. PLACE FILTER MATERIAL IN EXISTING PIT DOWN STREAM, UNTIL ALL DRAINAGE IS IN PLACE AND THEN INSTALL SILT CONTROL DEVICES AT EACH NEW PIT.
4. CONSTRUCTION OF MAIN WORKS
a. ENSURE THAT SOIL IS KEPT MOIST TO MINIMISE AIR POLLUTION.
b. DO NOT LEAVE SOIL EXPOSED FOR LONG PERIODS OF TIME.
c. ENSURE FALLS OF CUT OR FILL ARE AWAY FROM MAIN WORKING AREA.
d. INSTALL ROOF DOWNPIPES AS SOON AS PRACTICABLE - IF NECESSARY USE TEMPORARY CONNECTIONS TO ENSURE STORMWATER DOES NOT DISCHARGE OVER LOOSE SOIL.
5. LANDSCAPING
a. PLACE VEGETATION SUITABLE TO MINIMISE LOOSE SOIL CONDITIONS. REFER TO THE APPROVED LANDSCAPING PLAN FOR ADDITIONAL INFORMATION.

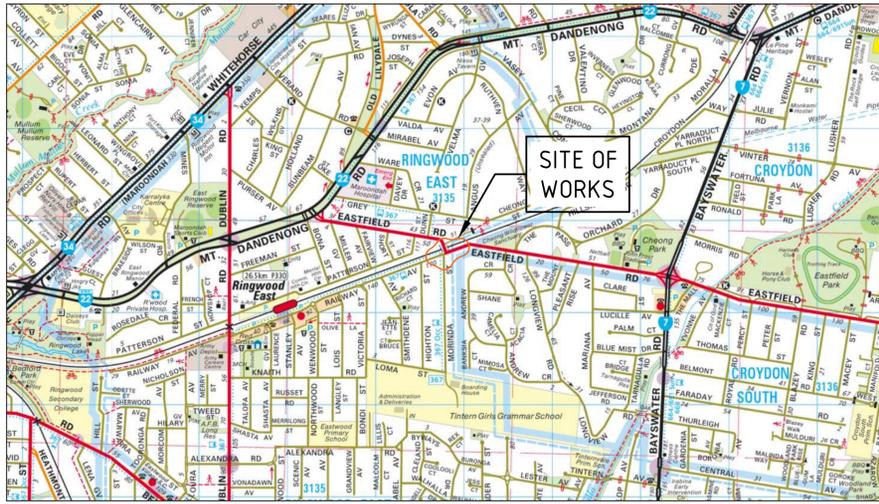
TREATMENT DEVICES

- 1. SEDIMENT FENCES, SEDIMENT FENCES ARE TO BE PLACED AS REQUIRED. THEY CONSIST OF GEOTEXTILE FILTER FABRIC STAPLED ONTO 400mm SQUARE HARDWOOD STAKES OR WIRE TIED TO STEEL POSTS. THE FILTER FABRIC MUST BE BURIED 100mm MIN INTO THE GROUND AND STAND UP TO A HEIGHT OF 700mm. POSTS ARE TO BE SPACED AT 2.0m CENTRES AND DRIVEN 600mm INTO THE GROUND. WHEN STOCKPILING GRANULAR MATERIALS INCLUDING TOP SOILS, A SEDIMENT FENCE SHOULD BE ERCTED AT THE PERIMETER OF THE STOCKPILE IF LEFT OVERNIGHT.
2. PROTECTION OF DRAINAGE POINTS; ALL DRAINAGE POINTS, WHETHER TEMPORARY OR PERMANENT, SHALL BE PROTECTED FROM POLLUTED WATERS. THE PRINCIPAL CONTRACTOR MAY USE STRAW BALES HELD IN PLACE BY AT LEAST TWO DRIVEN PICKETS OR SEDIMENT FENCES TO FULLY SUBROUND THE DRAINAGE POINT.
3. GENERAL BUILDING OPERATIONS; BUILDING OPERATIONS SUCH AS WASHING OF TOOLS AND PAINTING EQUIPMENT, CUTTING MASONRY OR THE USE OF ANY OTHER WATER COOLED CUTTING EQUIPMENT SHOULD BE CARRIED OUT IN A CONTROLLED AREA, WHERE POSSIBLE ON A NATURAL FILTERED AREA SUCH AS A GRASSED TRENCH, OR IN THE VICINITY OF A SEDIMENT SETTLING TANK.
4. ALL VEHICLE ENTRY/EXIT POINTS ARE TO BE TREATED WITH CRUSHED ROCK OVER AN APPROVED WOVEN GEOTEXTILE FABRIC (DUX WISS OR EQUIVALENT), WELL COMPACTED AND ADJACENT TO THE EXIT DRIVE. THE PRINCIPAL CONTRACTOR IS TO PROVIDE SUITABLE WASHING FACILITIES FOR CLEANING OF ALL VEHICLES PRIOR TO THEM EXITING THE SITE SO AS TO PREVENT ANY GREASE, OIL, MUD, CLAY OR OTHER SUBSTANCES FALLING OR RUNNING OFF A VEHICLE ON THE ROAD PAVEMENT OR INTO ANY DRAIN. THE CONDITION OF THE SITE ACCESS/EGRESS IS TO BE CONTINUOUSLY MONITORED AND CLEANED DOWN AS NECESSARY DURING THE COURSE OF THE CONTRACT TO MAINTAIN CLEAN FOOTPATHS AND ROADWAYS.

INTERSECTION UPGRADE WORKS
EASTFIELD ROAD / RAILWAY AVENUE / MORINDA STREET
RINGWOOD EAST, VIC 3135



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



LOCALITY PLAN

ADDITIONAL NOTES FOR SEDIMENT AND EROSION CONTROL

- 1. THE CONTRACTOR IS RESPONSIBLE FOR THE ESTABLISHMENT AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES TO SUCH TIME THAT THE PROJECT IS COMPLETED AND OFFICIALLY HANDED OVER TO THE CLIENT. THIS MAY INCLUDE THE PROVISION OF TEMPORARY DRAINAGE AND WATER QUALITY MANAGEMENT DEVICES.
2. DO NOT STRIP OR EXCAVATE SITE UNTIL BUILDING WORKS ARE READY TO PROCEED.
3. OBTAIN ALL NECESSARY PERMITS, LIENCES AND APPROVALS, REFER TO COUNCIL APPROVED DRAWINGS AND DOCUMENTATION.
4. ESTABLISH ALL REQUIRED ENTRY/EXIT POINTS AND TREAT THESE AREAS AS DESCRIBED ABOVE.
5. STACK SOILS IN PRE-DEFINED EROSION CONTROL AREAS, WHEN LEFT OVER NIGHT.
6. ACCIDENTAL SPILLS OF SOIL OR OTHER MATERIALS ONTO THE ROAD OR INTO THE GUTTER OR DRAINS SHOULD BE REMOVED PRIOR TO STORMS AND AT LEAST UPON COMPLETION OF THE DAY'S WORK. MATERIALS SHOULD BE SWEEPED OFF THE ROAD AND NOT WASHED DOWN THE GUTTER.
7. EROSION CONTROL DEVICES SHOULD BE INSPECTED REGULARLY AND AFTER EVERY STORM EVENT.
8. CONCRETE WASTE WASHED FROM TRUCKS AND MIXERS SHOULD BE CONTAINED ON-SITE AND NOT DISPOSED OF, DOWN A DRAIN OR IN ANY OTHER WAY WHICH MAY BE CONSIDERED HARMFUL TO THE ENVIRONMENT.

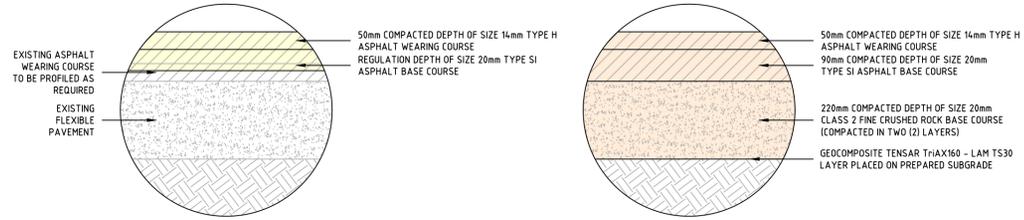
EROSION CONTROL PLAN

- 1. AN EROSION CONTROL PLAN IS TO BE IMPLEMENTED ON SITE DURING CONSTRUCTION TO PREVENT SEDIMENT FROM LEAVING THE SITE AND ENTERING THE DRAINAGE SYSTEMS, eg 'HAY BALES' WITH GEOPFABRIC MATERIAL TO THE SATISFACTION OF THE RELEVANT AUTHORITY.

MAROONDAH CITY COUNCIL - STANDARD CONSTRUCTION NOTES - MCC-002

GENERAL NOTES

- 1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.
2. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND DEPTHS PRIOR TO THE COMMENCEMENT OF WORKS. THE CONTRACTOR SHALL ADVISE THE SUPERINTENDENT OF ANY REQUIRED ALTERATIONS.
3. ALL WORK PRACTICES SHALL COMPLY WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND ALL RELEVANT REGULATIONS AND CODES OF PRACTICE (IN PARTICULAR, THE CODE OF PRACTICE FOR SAFETY PRECAUTIONS IN TRENCHING OPERATIONS).
4. WORKSAFE VICTORIA IS TO BE INFORMED FOR TRENCHING OPERATIONS WHERE THE DEPTH IS GREATER THAN 1.5m.
5. THE CONTRACTOR SHALL STRICTLY COMPLY WITH 'NO GO ZONE' CLEARANCE REQUIREMENTS WHEN WORKING WITHIN THE VICINITY OF OVERHEAD ELECTRICAL ASSETS/CABLES. FOR ANY OPERATION WHICH ENCLOSES ON THE 30m 'NO GO ZONE', THE CONTRACTOR SHALL OBTAIN A WRITTEN PERMIT TO WORK FROM WORKSAFE. CONTRACTORS SHALL ALSO COMPLY WITH RELEVANT WORKING CLEARANCES FOR OTHER UNDERGROUND UTILITIES AS SPECIFIED BY THE UTILITY OWNERS, INCLUDING BUT NOT LIMITED TO UNDERGROUND GAS & ELECTRICAL SERVICES. FURTHER INFORMATION ON 'NO GO ZONE' CLEARANCE REQUIREMENTS, REFER TO CURRENT WORKSAFE VICTORIA PUBLICATIONS (WWW.WORKSAFE.VIC.GOV.AU).
6. ALL CONCRETE SHALL BE SAWCUT TO THE NEAREST JOINT UNLESS SPECIFIED OTHERWISE.
7. ALL SERVICE COVERS WITHIN THE LIMIT OF WORKS SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED SURFACE LEVELS.
8. NO TREES OR VEGETATION SHALL BE REMOVED UNLESS AUTHORIZED BY MAROONDAH CITY COUNCIL.
9. ALL DISTURBED AREAS SHALL BE TOPSOILED AND SEEDED TO A MINIMUM DEPTH OF 100mm. NATURE STRIPS SHALL BE GRADED EVENLY FROM THE TOP OF KERB TO THE FRONT OF PATH OR AS DIRECTED.
10. SITE EROSION CONTROL, AND MINIMISATION MEASURES SHALL BE ADOPTED AT ALL TIMES IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AUTHORITY'S ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES.
11. TRAFFIC MANAGEMENT IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE ROAD MANAGEMENT ACT 2004 AND AS142.3. ALL SIGNAGE (TEMPORARY AND PERMANENT) SHALL BE CLASS 1 REFLECTIVE GRADE.
12. ALL CONCRETE TO HAVE COMPRESSIVE STRENGTH AT 28 DAYS NOT LESS THAN 25 MPa UNLESS SPECIFIED OTHERWISE.
13. ALL CRUSHED ROCK TO BE CURRENT VICROADS REGISTERED MIXES.
14. CLASS 3 CRUSHED ROCK & CEMENT TREATED CRUSHED ROCK MAY CONTAIN 10% CRUSHED CONCRETE IN ACCORDANCE WITH VICROADS TECHNICAL NOTE TN 107 - USE OF RECYCLED MATERIALS IN ROAD PAVEMENTS.
15. ALL LINE MARKING TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 1742.1 AND TO BE LONG LIFE THERMOPLASTIC IN ACCORDANCE WITH VICROADS SECTION 724 OR AS DIRECTED BY SUPERVISING ENGINEER.
16. WHERE PRODUCTS HAVE RECOMMENDED SUPPLIERS, ALTERNATIVES MAY BE CONSIDERED, HOWEVER MUST BE ACCEPTED BY COUNCIL IN WRITING.
17. (REMOVED)
18. (REMOVED)
DRAINAGE NOTES
19. NO INTERNAL DIMENSION OF JUNCTION PITS SHALL BE LESS THAN PIPE DIAMETER PLUS 150mm.
20. WHERE PIT DEPTH EXCEEDS 1000mm, STEP IRONS ARE TO BE INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-202.
21. GENERAL BUILDING OPERATIONS; BUILDING OPERATIONS SUCH AS WASHING OF TOOLS AND PAINTING EQUIPMENT, CUTTING MASONRY OR THE USE OF ANY OTHER WATER COOLED CUTTING EQUIPMENT SHOULD BE CARRIED OUT IN A CONTROLLED AREA, WHERE POSSIBLE ON A NATURAL FILTERED AREA SUCH AS A GRASSED TRENCH, OR IN THE VICINITY OF A SEDIMENT SETTLING TANK.
22. WHERE PIT DEPTH EXCEEDS 1500mm, PIT WALLS ARE TO BE REINFORCED WITH S172 MESH CENTRALLY PLACED.
23. WHERE PIT DEPTH EXCEEDS 1800mm AND/OR PIPE DIAMETER EXCEEDS 450mm, PIT WALLS ARE TO BE 300mm THICK CONCRETE.
24. WHERE PIT DEPTH EXCEEDS 3600mm, PIT IS TO BE DESIGNED IN ACCORDANCE WITH VICROADS STANDARD DRAWING SD 1011.
25. PRECAST PITS MAY BE USED AS JUNCTION PITS SUBJECT TO COUNCIL APPROVAL IN WRITING.
26. WITHIN NON-TRAFFICABLE AREAS, ALL PIT LIDS ARE TO BE MINIMUM CLASS B, LIGHTWEIGHT & LOCKABLE IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 3996:2019, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
27. WITHIN TRAFFICABLE AREAS, ALL PIT LIDS ARE TO BE MINIMUM CLASS D, HEAVY DUTY IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 3996:2019, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
28. ALL GRATED PIT LIDS ARE TO BE BICYCLE SAFE & INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



ASPHALT OVERLAY PAVEMENT DETAIL

PAVEMENT AS DIRECTED BY MAROONDAH CITY COUNCIL

FULL DEPTH PAVEMENT DETAIL

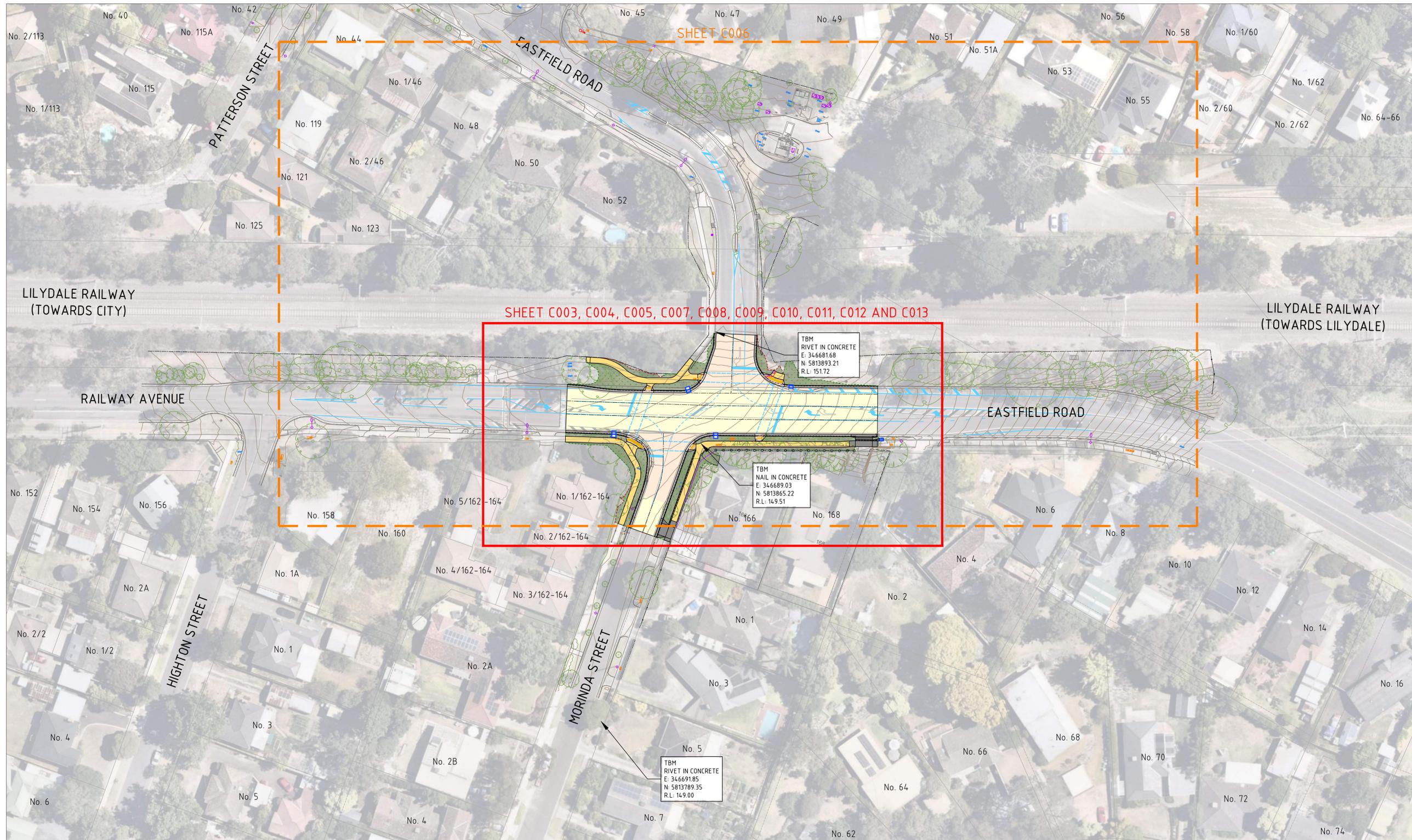
PAVEMENT AS DIRECTED BY MAROONDAH CITY COUNCIL

DETAILED DESIGN NOT FOR CONSTRUCTION

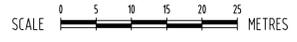
Table with columns for drawing details, revision history, client information, orientation, height datum, and drawing register. Includes logos for Maroondah City Council and FMG Engineering.



**WARNING**  
BEWARE UNDERGROUND SERVICES  
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**OVERALL PLAN**



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B	DRAFT DETAILED DESIGN - ISSUED FOR REVIEW	27-05-2025	KC	KC	
A	DRAFT DETAILED DESIGN - ISSUED FOR REVIEW	29-04-2025	KC	KC	

CLIENT

Maroondah City Council

ORIENTATION

OR AS SHOWN

HEIGHT DATUM  
AHD

COORDINATE DATUM  
MGA 94 ZONE 55

SURVEY DATE  
JUN 2019 / JUL 2024

AERIAL IMAGE DATE  
04-08-2024

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MELBOURNE  
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ENGINEERING FORWARD THINKING

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ISO 9001 Quality Management System | ISO 45001 OH&S Management System

CLIENT  
MAROONDAH CITY COUNCIL

PROJECT TITLE  
INTERSECTION UPGRADE WORKS

SITE ADDRESS  
EASTFIELD ROAD / RAILWAY AVENUE / MORINDA STREET  
RINGWOOD EAST, VIC, 3135

DRAWING TITLE  
OVERALL PLAN

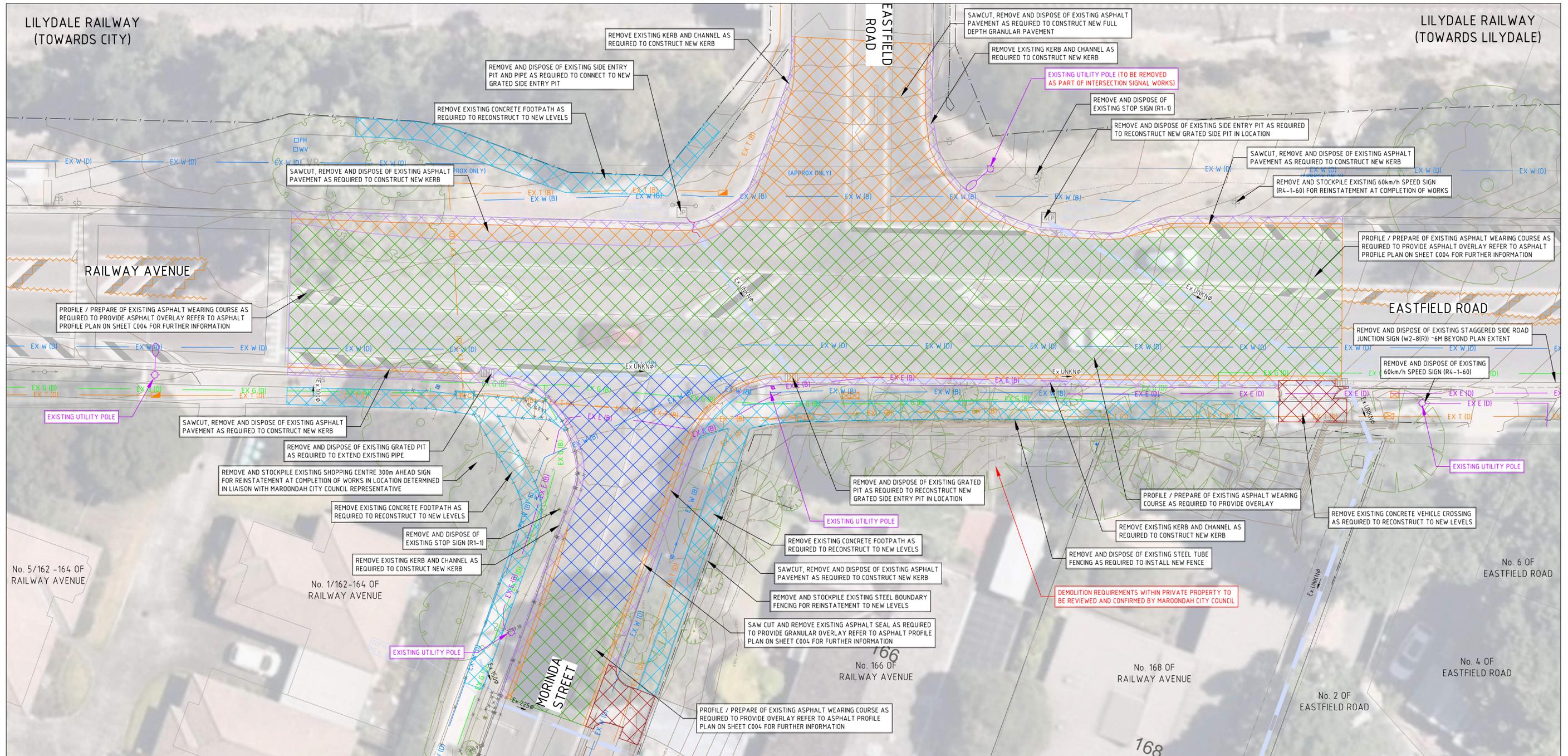
DESIGNED	KC	DRAWN	AR / KC
CHECKED	MA	NO. OF SHEETS	39
SCALE	1:500@A1	DATE STARTED	14-04-2025
SITE ID & JOB NO.	S72799-293807	REV.	
DRAWING NO.	C002		F

**LEGEND**

-  EXISTING ASPHALT ROAD PAVEMENT TO BE PROFILED / PREPARED FOR OVERLAY
-  EXISTING ASPHALT ROAD PAVEMENT TO BE SAW CUT, REMOVED AND DISPOSED
-  EXISTING CONCRETE KERB TO BE SAW CUT, REMOVED AND DISPOSED
-  EXISTING CONCRETE VEHICLE CROSSING TO BE SAW CUT, REMOVED AND DISPOSED
-  EXISTING CONCRETE FOOTPATH TO BE SAW CUT, REMOVED AND DISPOSED
-  - EX W (D) - EXISTING WATER WITH QUALITY LEVEL
-  - EX G (D) - EXISTING GAS WITH QUALITY LEVEL
-  - EX S (D) - EXISTING SEWER WITH QUALITY LEVEL
-  - EX T (D) - EXISTING TELECOMMUNICATIONS WITH QUALITY LEVEL
-  - EX E (D) - EXISTING ELECTRICITY WITH QUALITY LEVEL
-  - E O/H - EXISTING OVERHEAD CABLE
-  - 1.0m - EXISTING CONTOUR MAJOR (1.0m)
-  - 0.2m - EXISTING CONTOUR MINOR (0.2m)
-  - EX D (D) - EXISTING DRAINAGE PIPE
-  - EX D (D) - REMOVE/DECOMMISSION EXISTING DRAINAGE PIPE



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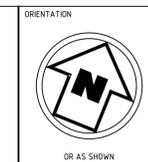
**EXISTING CONDITIONS AND DEMOLITION PLAN**



**DETAILED DESIGN**  
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REV	DESCRIPTION	DATE	INT	APP
F	DETAILED DESIGN - ISSUED FOR REVIEW	03-12-2025	KC	KC
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DRAWING TITLE  
EXISTING CONDITIONS AND DEMOLITION PLAN

DESIGNED	DRAWN	AR / KC
KC	AR / KC	39
CHECKED	MA	14-04-2025
SCALE	1:150@A1	REV
SITE ID & JOB NO.	S72799-293807	REV
DRAWING NO.	C003	F

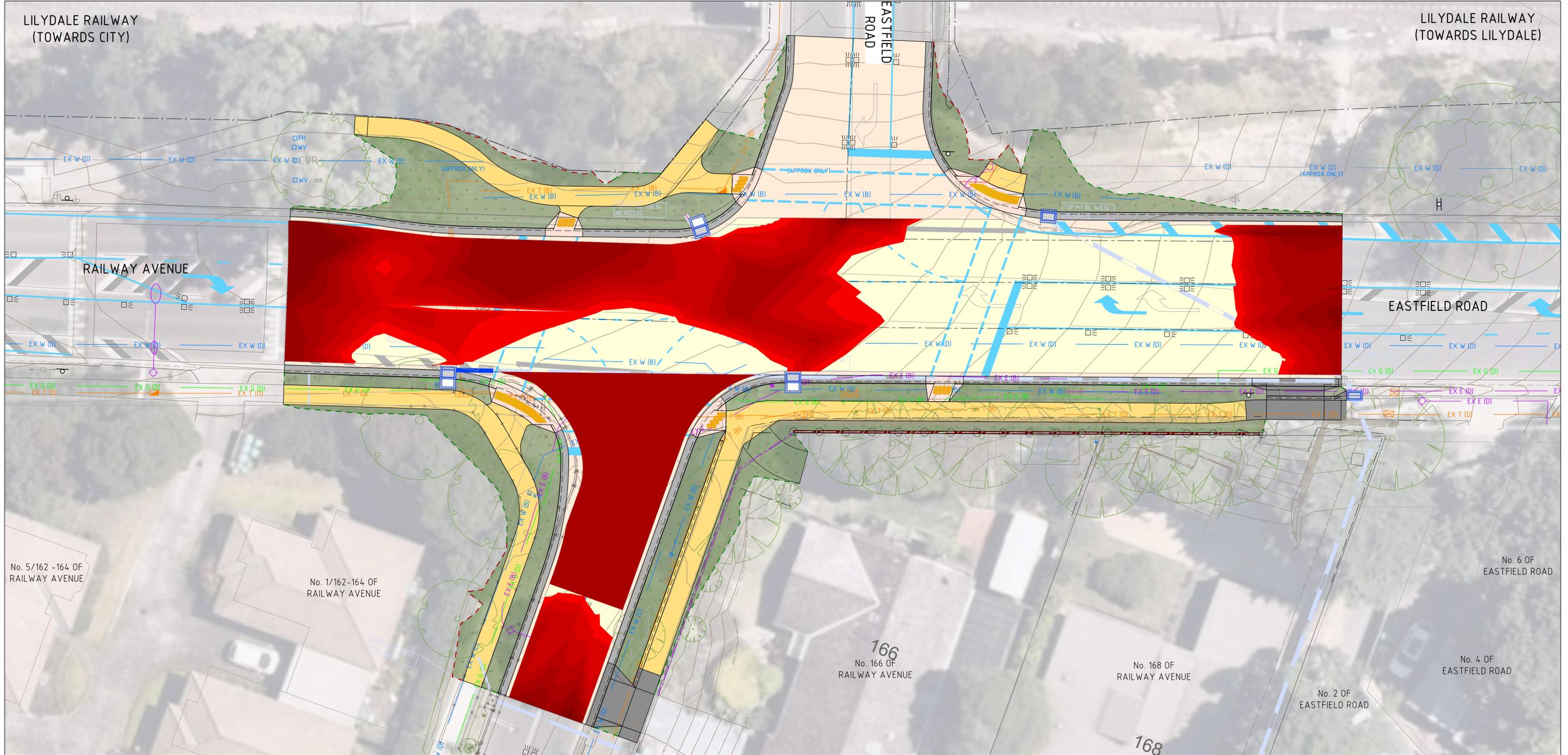
CUT (-) / FILL (+) DEPTHS			
No.	LOWER DEPTH (m)	UPPER DEPTH (m)	COLOUR
1	-0.07	-0.06	
2	-0.06	-0.05	
3	-0.05	-0.04	
4	-0.04	-0.03	
5	-0.03	-0.02	
6	-0.02	-0.01	
7	-0.01	0.00	

**NOTES**  
 CUT/FILL DEPTHS SHOWN ARE BASED ON THE EXISTING SURFACE (FEATURE AND LEVEL SURVEY) AND BASE OF THE ASPHALT WEARING COURSE LAYER (50mm BELOW FINISHED SURFACE LEVEL) WITHIN THE ASPHALT OVERLAY AREA ONLY.  
 THESE PLANS AND DEPTHS ARE SHOWN TO PROVIDE AN INDICATION OF PROFILE REQUIREMENT IN AREAS AROUND THE SITE ONLY. THESE DO NOT INCLUDE THE LOCATIONS REQUIRED TO PREPARE THE PAVEMENT FOR OVERLAY AND ARE NOT TO BE UTILISED FOR COSTINGS.

NO COMPACTION / EXPANSION FACTORS HAVE BEEN ACCOUNTED FOR.  
 NO SERVICE TRENCHES HAVE BEEN ACCOUNTED FOR.  
 ALL VOLUMES ARE SUBJECT TO CONFIRMATION BY THE CONTRACTOR AT TENDER.



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ASPHALT PROFILING PLAN



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F DETAILED DESIGN - ISSUED FOR REVIEW E DETAILED DESIGN - ISSUED FOR REVIEW D DETAILED DESIGN - ISSUED FOR REVIEW C DETAILED DESIGN - ISSUED FOR REVIEW B DRAFT DETAILED DESIGN - ISSUED FOR REVIEW A DRAFT DETAILED DESIGN - ISSUED FOR REVIEW	03-12-2025 27-11-2025 13-10-2025 14-07-2025 27-05-2025 29-04-2025	KC KC KC KC KC KC	KC KC KC KC KC KC	CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE. ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY-LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK. ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.	REV DESCRIPTION DATE INT APP	REV DESCRIPTION DATE INT APP	REV DESCRIPTION DATE INT APP

**LEGEND**

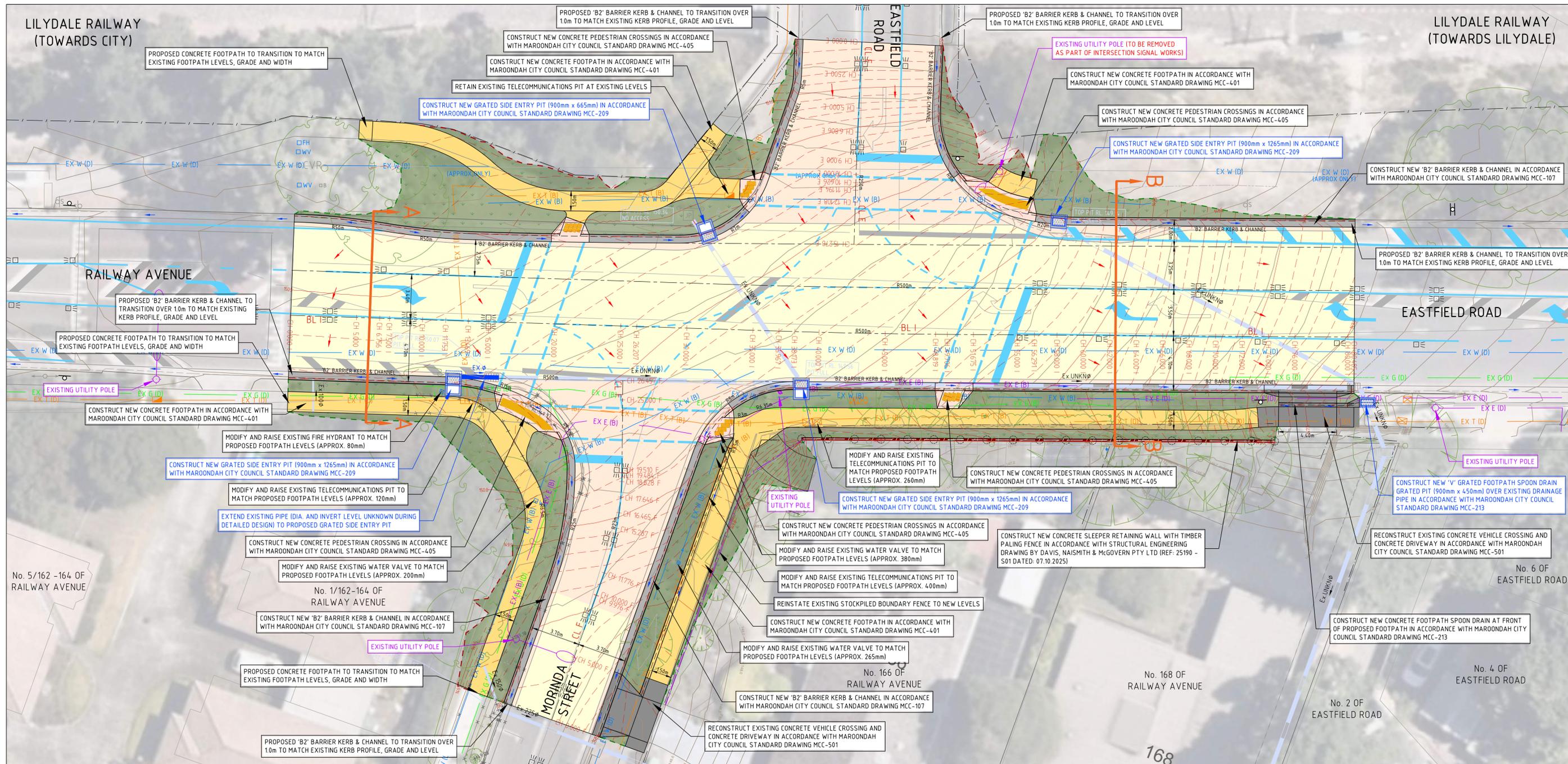
- OVERLAY ASPHALT PAVEMENT - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL MCC-101
- FULL DEPTH ASPHALT PAVEMENT - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL MCC-101
- CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401
- 150mm THICK CONCRETE VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL MCC-501
- CONCRETE PEDESTRIAN CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL MCC-405, MCC-406 AND MCC-407

- TOPSOIL & SEED (MAROONDAH CITY COUNCIL APPROVED) REINSTATEMENT - REINSTATED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL SPECIFICATIONS
- CONCRETE SLEEPER RETAINING WALL - CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL DETAIL BY DAVIS, NAISMITH & MCGOVERN PTY LTD (REF: 25190-S01 DATED: 07/10/2025)
- CONCRETE KERB AND CHANNEL - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-107
- EXISTING DRAINAGE PIPE
- REMOVE/DECOMMISSION EXISTING DRAINAGE PIPE
- NEW DRAINAGE PIPE
- NEW DRAINAGE PIT
- 1.80m HIGH TIMBER PALING FENCE - INSTALLED IN ACCORDANCE WITH STRUCTURAL ENGINEERING SPECIFICATIONS (REF: 25190-S01) AND MAROONDAH CITY COUNCIL SPECIFICATIONS
- EXISTING BOUNDARY FENCE TO BE REINSTATED TO NEW LEVELS

- DIRECTION OF CHANNEL FLOW
- DIRECTION OF PAVEMENT SHEET FLOW
- FILL BATTER EXTENT
- CUT BATTER EXTENT
- EXISTING CONTOUR MAJOR (1.0m)
- EXISTING CONTOUR MINOR (0.20m)
- FINISHED SURFACE CONTOUR MAJOR (0.50m)
- FINISHED SURFACE CONTOUR MINOR (0.10m)
- EX W (D) - EXISTING WATER WITH QUALITY LEVEL
- EX G (D) - EXISTING GAS WITH QUALITY LEVEL
- EX S (D) - EXISTING SEWER WITH QUALITY LEVEL
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**GENERAL LAYOUT PLAN**



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RINGWOOD EAST, VIC, 3135  
DRAWING TITLE  
**GENERAL LAYOUT PLAN**

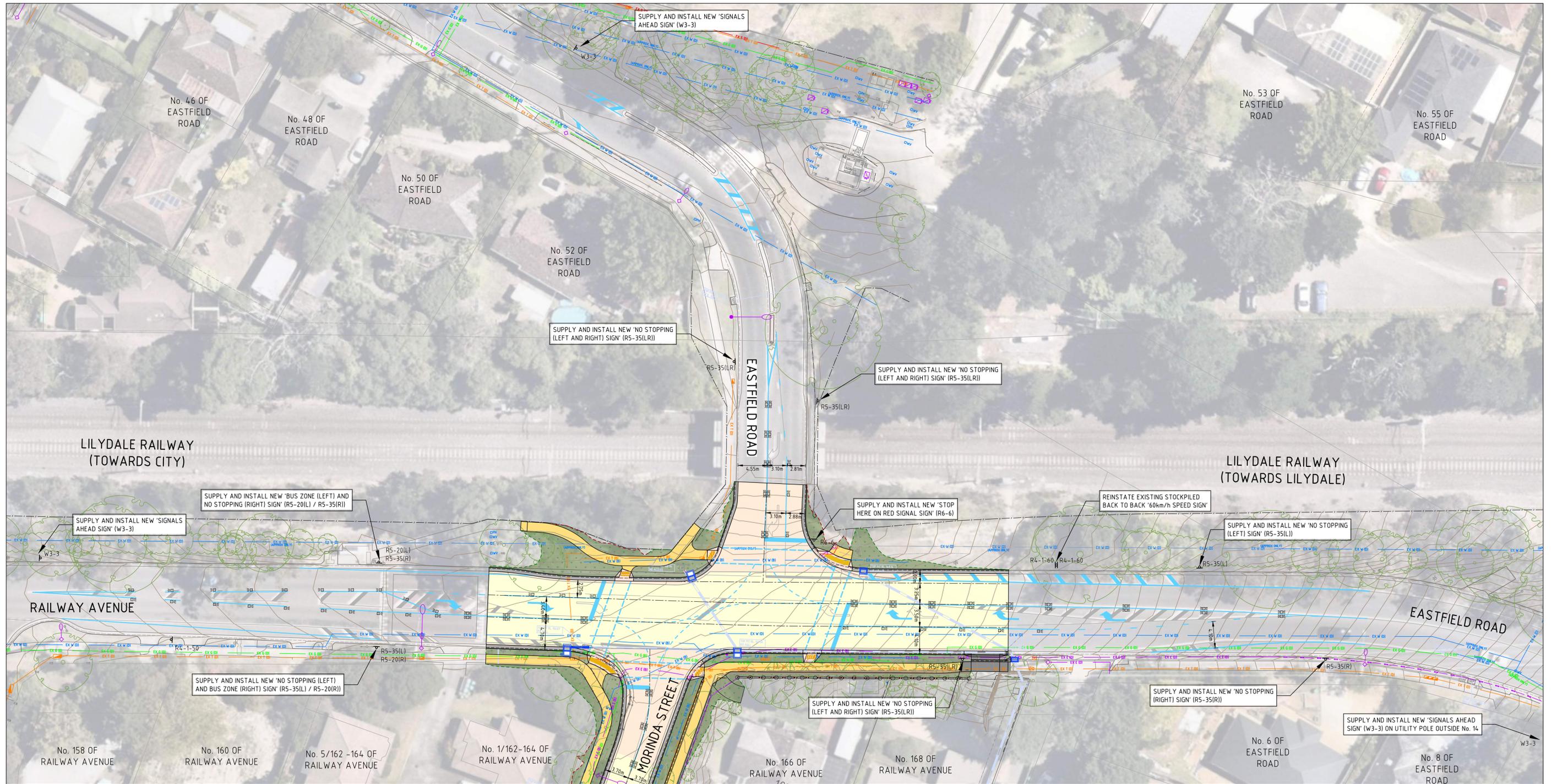
DESIGNED	DRAWN	AR / KC
KC	AR	39
CHECKED	MA	DATE STARTED
1:150@A1	14-04-2025	
SITE ID & JOB NO.	REV.	
S72799-293807		
DRAWING NO.		
C005		F

SIGNS LEGEND



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SIGNAGE SHOWN ON LAYOUT PLAN AS -



SIGNS AND LINE MARKING PLAN



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SIGNS AND LINE MARKING PLAN

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DRAWING NO.	C006		F

