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Our Ref: SDW3736/25
WYP14036/23

Enquiries: *Abdul Khalil*
Tel: *(03) 8353 4087*

25 June 2026

Urban Design & Management Pty Ltd
Po Box 468
SUNBURY VIC 3429

Dear Mark Rossitto,

RE: EYNESBURY STAGE 26D - CONSTRUCTION PLAN APPROVAL

Please be advised that the road and drainage construction plans submitted to Council for Eynesbury Stage 26D are approved subject to the following conditions:-

1. All structurally designed retaining walls MUST be supervised by a qualified Victorian Registered Professional. The Supervision Certificate, along with inspection reports and photographs, MUST be submitted to Council prior to commencement of PC inspection.
2. Anti graffiti paint 'Nanokote Pro Guard' to apply to abutments, wingwalls, piers, edge faces of outside beams, retaining walls and any other surface of structural items where graffiti is possible.
3. Prior to the placement of concrete kerb and channel, all constructed drainage lines, including easement drains and AG drains, must undergo inspection by an independent testing organisation using closed circuit television (CCTV). Report must be provided to Council as per Wyndham City Council's Technical Specification Section 701 – Underground Stormwater Drains.
4. **Prior to commencement of works, an on-site pre-commencement meeting must be held between Council, the Engineering Consultant and the Contractor. Please contact Daniel Di Fonzo from Council on 0417 727 885 to book a precommencement meeting.**
5. **Prior to installation of any Tactile Ground Surface Indicators, the proposed product must be inspected and approved by Council. Please notify Councils construction supervisor to book an inspection prior to installation.**
6. **Prior to commencement of works, the Plan of Subdivision must be certified by Council.**
7. **Prior to commencement of approved works within ANY existing road reserves, the consultant/contractor MUST apply for consent to work within the road reserves from Council or any other relevant responsible authorities. The Contractor will be responsible for maintain all existing assets within the limit of works as demonstrated on the approved plans.**
8. **A free-flowing drainage outlet must be established and maintained throughout the entirety of construction works. No road boxing works are to commence in the absence of a free-flowing drainage outlet.**

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9. Prior to commencement of works, the consultant/contractor shall provide to Council the following information:-

    - source of quarry material; and
    - optimum moisture content and maximum modified dry density of the F.C.R to be used (from N.A.T.A. approved laboratory).

    If the source of the quarry material is changed during the course of the works, new test results shall be provided.

10. Please provide a Site Environment Management Plan (SEMP) to Council for approval. To submit a SEMP, complete Wyndham Council's online form after following the instructions on the website.

11. Construction is to commence within twelve (12) months of approval, otherwise construction plans and specifications are to comply with design standards current at the time of re-submission.

12. Filled allotments shall be compacted in 150mm maximum layers, with compaction tests being taken at not more than 300mm lift on all allotments and filled areas. The test results and location of the tests on each allotment shall be forwarded to Council.

13. Wyndham City Council Specifications and standard details shall be read in conjunction with the approved plans.

14. Prior to Council issuing a Statement of Compliance, pursuant to the Subdivision Act 1988, your firm shall provide to Council the following:

    - Payment of construction supervision fees amounting to 2.5% of the total cost of road and drainage works;
    - Payment of a maintenance bond amounting to 5% of the total cost of road and drainage works;
    - An electronic copy of all as constructed drawings and relevant files in both AutoCad DWG and Adobe PDF file formats, to either subdiveng@wyndham.vic.gov.au or via Objective Connect. Please note that the minimum resolution of PDF files required is 300dpi;
    - An electronic copy of drainage catchment plans and detailed computations in Adobe PDF file format to either subdiveng@wyndham.vic.gov.au or via Objective Connect;
    - As constructed asset information for drainage and related assets in digital format in accordance with "D-Spec" to either subdiveng@wyndham.vic.gov.au or via Objective Connect; and
    - As-constructed asset information for assets within the road reserve in digital format in accordance with "R-Spec" to either subdiveng@wyndham.vic.gov.au or via Objective Connect; and
    - The A.H.D levels and M.G.A co-ordinates of the high stability P.S.Ms.
    - For futher information please see: https://www.wyndham.vic.gov.au/subdivisionguidelines

15. Easements are to be created to cover all servics which cross any part of private allotments.

16. During construction of works under this permit, access to and egress from the subject land must be via a route designed and approved by the Council. Where practical this access should be remote from established residential areas.

17. Provide Landscaping Plan for approval by Council. Please contact subdivlud@wyndham.vic.gov.au to arrange a pre-application meeting prior to the submission of landscape plans for municipal reserves and/or public open space.

18. WorkSafe Victoria is to be advised via E-mail (construction@workcover.vic.gov.au) of these Subdivisional works with the following details:

    - Name of the principal contractor
    - Name and phone contact of relevant Engineering Consultants supervisor dealing with the works
    - Brief description of the works
    - Locality/address of the works

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- Estimated commencement date of the works, and
- Expected completion date of the works.

19. In undertaking the construction works, the developer shall ensure all works are undertaken in accordance with the OH & S Act, Regulation and Codes, and shall maintain a safe workplace for Council's staff undertaking inspections. The supervision of works by Council staff only extends to the quality of Council's future infrastructure and does not include ensuring that the works are undertaken safely.

Please find a set of stamped approved plans attached.

Yours sincerely,



RABIN KHAD THAKURI
TEAM LEADER DEVELOPMENT ENGINEER
Encl: (1) Stamped approved plans

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EYNESBURY TOWNSHIP
STAGE 26D

GENERAL NOTES

AUTHORITY WORKS INSPECTIONS

1. THE CONTRACT SUPERINTENDENT OR THEIR REPRESENTATIVE SHALL BE NOTIFIED 24 HOURS BEFORE ANY INSPECTION IS DUE FOR ALL WORKS INSPECTIONS BY COUNCIL AND 5 WORKING DAYS FOR WATER AUTHORITY.

WORKS VARIATIONS

2. THE CONTRACTOR SHALL NOT UNDERTAKE ANY WORK WHICH MAY LEAD TO A CLAIMABLE VARIATION(S) WITHOUT PRIOR APPROVAL OF THE CONTRACT SUPERINTENDENT.

CONTRACTOR RESPONSIBILITIES

3. COUNCIL IS TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT MEETING BEING HELD BETWEEN COUNCIL, THE CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS.
4. ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH GROWTH AREA'S AUTHORITY (GAA) STANDARD DRAWINGS AND SPECIFICATIONS, THE APPROVED SET OF CONSTRUCTION PLANS, AND TO THE SATISFACTION OF THE SUPERINTENDENT. IN THE EVENT OF ANY DISREPANCY THE CONTRACTOR IS TO SEEK CLARIFICATION FROM THE SUPERINTENDENT.
5. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT.
6. THE CONTRACTOR IS REQUIRED TO CONFINE ALL CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE REINSTATED.
7. AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED FROM THE SITE AND THE SITE SHALL BE CLEANED TO THE SATISFACTION OF THE SUPERINTENDENT.
8. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNS, LIGHTING AND BARRICADES TO COMPLY WITH THE REQUIREMENTS OF THE ROAD TRAFFIC REGULATIONS.

SURVEYING AND SETTING OUT

9. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
10. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
11. ALL CO-ORDINATES ARE TO AUSTRALIAN MAP GRID (AMG).
12. ALL ROAD CHAINAGES REFER TO ROAD RESERVE CENTRELINES EXCEPT FOR KERB RETURNS AND COURT HEADS WHERE CHAINAGES REFER TO LIP OF KERB.
13. KERB RETURN RADII ARE GIVEN TO LIP OF KERB, UNLESS SHOWN OTHERWISE.
14. TBM'S TO BE RE-ESTABLISHED BY THE PRINCIPLES LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
15. AN ELECTRONIC COPY OF THE DESIGN DRAWINGS WILL BE MADE AVAILABLE TO THE CONTRACTOR FOR THE PURPOSE OF SETTING OUT.
16. THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES / FENCES AND FOR ANY RETAINING WALLS OVER 1.0m IN HEIGHT.

EARTHWORKS AND EXCAVATION

17. EXCESS TOPSOIL SHALL BECOME PROPERTY OF THE PRINCIPLE AND STORED AT THE CENTRAL TOPSOIL STOCKPILE AS DIRECTED BY THE SUPERINTENDENT. NO TOPSOIL SHALL BE REMOVED FROM SITE WITHOUT SPECIFIC APPROVAL OF THE SUPERINTENDENT.
18. PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
    a) SOURCE OF QUARRY MATERIAL
    b) N.A.T.A. APPROVED TESTS RESULTS FOR THE F.C.R. THAT IS TO BE USED
    c) IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED.
21. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND OCCUPATIONAL HEALTH AND SAFETY REGULATIONS 2007, HAVE BEEN AND WILL BE COMPLIED WITH.
22. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND SERVICES PRIOR TO COMMENCING EXCAVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING SERVICE AUTHORITIES PRIOR TO COMMENCING ANY WORKS ON SITE.
23. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE EXPOSED AND PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS.
24. THE CONTRACTOR SHALL:
    a. COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT 1958, AND THE MINES (TRENCHES) REGULATIONS 1982.
    b. NOTIFY THE DEPARTMENT OF MINERALS AND ENERGY OF THEIR INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
    c. ENSURE THAT THE MINE MANAGER OR THEIR DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
25. ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL." APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
26. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
27. ON-SITE BLASTING IS NOT RECOMMENDED. IF BLASTING IS REQUIRED THEN THE CONTRACTOR IS TO NOTIFY THE SUPERINTENDENT AND COUNCIL IN WRITING, AND OBTAIN ALL REQUIRED PERMITS AND LICENSES. BLASTING IS TO BECARRIED OUT IN ACCORDANCE WITH CURRENT REGULATIONS, DANGEROUS GOODS (EXPLOSIVES) REGULATIONS 2000 AND WORKSAFE VICTORIA REQUIREMENTS.
28. THE CONTRACTOR IS TO PROVIDE DETAILS IN WRITING OF THE DISPOSAL SITE FOR EXCESS SPOIL INCLUDING THE TRUCK ROUTE AND SUBMT TO COUNCILS REPRESENTATIVE FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORKS.
29. ALL FILLING AREAS IN EXCESS OF 150mm DEPTH TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINISHED SURFACE LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE COMPACTED IN 150mm EQUAL LAYERS TO 95% AUSTRALIAN DRY DENSITY. FILLING IS TO BE TESTED TO THE SATISFACTION OF THE COUNCIL AND TEST RESULTS OF EACH LAYER AND IN EACH LOT TO BE SUBMITTED TO COUNCIL. ALL FILLING TO BE DONE UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007
30. FILLING TO COMPLY WITH A.S.3798-2007, 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
31. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 448 (MAY 2007) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERINTENDENT AND COUNCILS REPRESENTATIVE.
32. EXISTING DAMS, CHANNELS AND SWALES ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. FILL TO BE PLACED AND COMPACTED AS SPECIFIED AND TO LEVEL 1 SUPERVISION. (AS3798-2007)

LOT GRADING

33. ALL BLOCKS ARE TO HAVE A SURFACE GRADE WITH A MIN. FALL OF 1 IN 150 ALONG THE LOW SIDE BOUNDARY TO THE POINT OF DISCHARGE.
34. THE FINISHED SURFACE OF ALLOTMENTS AND RESERVES IN FILL SHALL BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE TO THE SATISFACTION OF THE SUPERINTENDENT.
35. UNLESS OTHERWISE SHOWN, BATTERS INTO ALLOTMENTS SHALL NOT BE STEEPER THAN 1 IN 6. NATURE STRIPS AND ALL AREAS OF CUT OUTSIDE THE ROAD RESERVE SHALL BE SURFACED WITH 100mm MINIMUM COMPACTED LAYER OF TOPSOIL. IF THE SOIL IS NOT DEEMED SUITABLE, IT SHALL BE IMPORTED AT THE CONTRACTOR'S EXPENSE.

EXISTING TREES

36. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY COUNCILS REPRESENTATIVE.
37. WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED.
38. NO EXCAVATION SHALL BE UNDERTAKEN WITHIN 5m OF ANY EXISTING TREE WITHOUT THE APPROVAL OF THE SUPERINTENDENT.
39. LOPPING OF BRANCHES ON PRESERVED TREES TO BE DIRECTED BY SUPERINTENDENT.
40. TREES MARKED ON PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. APPROVAL FROM COUNCILS REPRESENTATIVE SHOULD BE OBTAINED PRIOR. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNT ON SITE.

EXISTING INFRASTRUCTURE

41. ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE SUPERINTENDENT AND COUNCILS REPRESENTATIVE.
42. WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
43. ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
44. ALL EXISTING AUTHORITY ASSETS AFFECTED BY THE WORKS; SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS AND TO THE SATISFACTION OF THE ASSET OWNER.
45. WHERE IT IS INTENDED TO INSTALL SERVICES OR OTHER EQUIPMENT UNDER EXISTING PAVEMENTS, THE CONTRACTOR SHALL OBTAIN A PERMIT AND PAY ANY FEES, FROM THE COUNCIL OR OTHER ROAD AUTHORITY PRIOR TO UNDERTAKING ANY EXCAVATION.

SERVICES

46. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
47. EXISTING SEWER AND STORM WATER DRAINAGE BACK FILLING UNDER THE ROAD PAVEMENT AND BEHIND KERB AND CHANNEL (WITHIN THE ROAD RESERVATION) SHALL BE REPLACED WITH CLASS 2 CRUSHED ROCK.
48. GAS CONDUITS ARE TO BE 50mm DIA. P.V.C. PIPE CLASS SN6. WATER CONDUITS ARE TO BE 50mm DIA. P.V.C. PIPE CLASS SN8. BOTH ARE TO BE LAID AT A MINIMUM DEPTH OF 450mm BELOW ROAD SUBGRADE LEVEL UNLESS NOTED OTHERWISE.
49. CONDUITS FOR GAS AND WATER SERVICES ARE TO BE LOCATED IN THE POSITIONS SHOWN. THEY ARE TO BE PLACED AT RIGHT ANGLES TO THE KERB AND SERVICE ALIGNMENT AND ARE TO EXTEND MIN 600MM BEHIND THE BACK OF KERB. CONDUITS ARE TOO REFERENCED IN 50mm HIGH LETTERS ON THE FACE OF KERB AND CHANNEL.
50. GAS AND WATER CONDUITS ARE TO BE LAID WITH THE FOLLOWING MIN. COVER TO FINISHED SURFACE LEVELS: UNDER ROADS- 450mm BELOW ROAD SUBGRADE LEVEL ELSEWHERE- 600mm.
51. WATER TAPINGS FOR LOTS SITUATED ON THE SAME SIDE OF THE WATER MAIN ARE TO BE LOCATED AT THE CENTRE OF THE LOT UNLESS NOTED OTHERWISE. THE KERB IS TO BE MARKED 'W' WITH AN ARROW POINTING TO THE TAPING.
52. REFER TO THE TELECOMMUNICATIONS DRAWINGS (BY OTHERS) FOR DETAILS ON CONDUITS AND TRENCHING.
53. REFER TO THE ELECTRICAL AND LIGHTING DRAWINGS (BY OTHERS) FOR DETAILS ON CONDUITS AND TRENCHING.
54. ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20MM 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003.
55. ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A, M.F.E.S.B & N.R.E). MARKINGS TO BE VIA BLUE RAISED REFLECTIVE PAVEMENT MARKER AND A MARKER POST.

DRAINAGE

56. WHERE CURVED PIPES ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED.
57. ALL STORMWATER DRAINS ARE TO BE CLASS 2 R.C. OR RIGID F.R.C PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED. INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.
57. ALL DRAINS LAID UNDER ROAD PAVEMENT AND BEHIND KERB AND CHANNEL,TRENCH SHALL BE BACKFILLED WITH 20mm CLASS 3 F.C.R. COMPACTED TO 98% MODIFIED AS PER COUNCIL STANDARD DRAWING SD6-10A.
58. WHERE STORMWATER DRAINS ARE LAID UNDER DRIVEWAYS AND FOOTPATHS, TRENCH SHALL BE BACKFILLED WITH 20mm CLASS 3 FCR. COMPACTED TO 95% MODIFIED.
59. PROPERTY INLET PITS ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS OTHERWISE SHOWN. INVERT LEVEL OF PROPERTY INLET IS TO BE A MINIMUM OF 500mm BELOW FINISHED/EXISTING SURFACE LEVEL.
60. AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH GAA STANDARD DRAWINGS.
61. ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF COUNCIL.
62. FOR ALL DRAINAGE PITS, REFER TO GAA STANDARD DRAWINGS UNLESS NOTED OTHERWISE.
63. PROPERTY CONNECTIONS ARE TO BE LOCATED 2.4m FROM BOUNDARY UNLESS OTHERWISE SHOWN. PROPERTY CONNECTIONS ARE TO BE 100mm DIAMETER AND BACKFILLED WITH 20mm CLASS 3 F.C.R. TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS. PIPES TO EXTEND 0.5m INTO PROPERTY AND ARE TO HAVE 0.8m COVER

CONCRETE WORKS

64. GENERALLY (SM2) KERB AND CHANNEL IS TO BE POURED THROUGHOUT THE SUBDIVISION. WHERE OTHER KERB TYPES ARE REQUIRED THEY ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
65. FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.
66. ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE IN ACCORDANCE WITH G.A.A. STANDARD DRAWINGS AND SPECIFICATION, UNLESS OTHERWISE SPECIFIED.
67. ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.
68. CONCRETE STRENGTH SHALL BE A MINIMUM OF 25MPA AT 28 DAYS UNLESS OTHERWISE NOTED.
69. TRANSITION BETWEEN DIFFERENT KERB PROFILES SHALL BE OVER 3m IF THEY CANNOT BE INCORPORATED INTO A PRAM CROSSING OR DRIVEWAY CROSSING.
70. VEHICLE CROSSINGS ARE TO BE CONSTRUCTED AS PER COUNCIL STANDARD DRAWING SD4-1
71. WHERE TACTILE GROUND SURFACE INDICATORS ARE REQUIRED THEY SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STANDARD DRAWINGS SD2031 & SD2032. TACTILE GROUND SURFACE INDICATORS MUST CONFORM TO AS1428.4 AND BE APPROVED BY COUNCIL.

PAVEMENTS

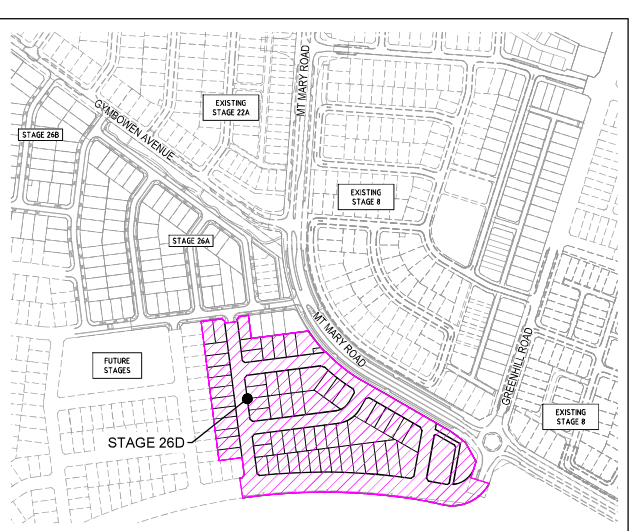
1. WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL, AND CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 98% AUSTRALIAN STANDARD DENSITY.
2. WEARING COURSE TO BE CONSTRUCTED 5mm ABOVE LIP OF KERB AND CHANNEL.
3. THE CONTRACTOR SHALL CO-OPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE.
4. PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE SUPERINTENDENT AND/OR COUNCILS REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE A DENSITY NOT LESS THAN 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003.
5. PAVEMENT SUB-BASE AND BEDDING TO KERB AND CHANNEL IS TO BE INSTALLED AS PER GAA STANDARDS.

TRAFFIC MANAGEMENT

6. ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH A.S.1742 - 1, 2 & 3. LINEMARKING TO BE CARRIED OUT USING THERMOPLASTIC PAINT.
7. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH COUNCIL STANDARD DRAWING AND SPECIFICATION.
8. ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A.S.1743 - 2001.

LANDSCAPING

9. RESERVES TO BE LEFT IN A CONDITION SATISFACTORY TO THE COUNCILS SUPERVISING ENGINEER.
10. TOPSOILING WORKS ARE TO BE PREPARED AS SPECIFIED FOR HAND OVER TO THE LANDSCAPING CONTRACTOR.
11. SOFT SPOTS, WHERE DIRECTED BY THE SUPERVISING ENGINEER ARE TO BE EXCAVATED AND BACKFILLED WITH SPECIFIED MATERIALS.
12. ALL DISTURBED AREAS, IE, NATURESTRIPS, BATTERS,ALLOTMENTS & RESERVES, ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100MM LOAMY TOP SOIL FREE OF CLUMPS, SODS AND CLAY LUMPS)AND SOWN WITH GRASS SEED. SEED IS TO BE A GENERAL PARKLAND AND NATURESTRIP BLEND AS APPROVED BY COUNCIL UNLESS OTHERWISEDETAILED. GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD.



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Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 26
Permit No WYP14036/23
Date 25/06/2026

SERVICE OFFSET TABLE

STREET NAME	WATER	ND - WATER	GAS	NBN	ELEC	POLES
CHARAM STREET	2.60 N/W	2.10N/W	-	1.85 S/E	2.60 S/E	1.00m×
JILPANGER CRESCENT (LOTS 26167-26174)	2.70 S	2.20 S	-	1.85N/W	2.60 N/W	1.00m×
JILPANGER CRESCENT (LOTS 5271)	-	-	-	1.85 E	2.60 E	1.00m×
JILPANGER CRESCENT (LOTS 26175-26177 & LOTS 26196-26201)	2.50 S/E	2.00 S/E	-	0.5 N/W	1.0 N/W	1.00m×
BOLAC ROAD	3.25 N	2.45 N	-	1.85 S	2.60 S	1.00m×
HILGAY STREET	2.50 S	2.00 S	-	1.85 N	2.60 N	1.00m×
TOOAN WALK	2.60 S/E	2.10 S/E	-	-	-	-

1. × DENOTES OFFSET FROM BACK OF KERB
2. TELSTRA AND ELECTRICITY CABLES ARE TO BE CONSTRUCTED IN A COMMON TRENCH
3. GAS AND WATER MAINS ARE TO BE CONSTRUCTED IN A COMMON TRENCH

No.	REVISION	DATE	DES/DFT	APPROVED
D	SERVICE OFFSET TABLE AMENDED	12.06.26	AA	MR
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

RESIMAX GROUP

Approved for Construction

Melway Reference
226 B4

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Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP
STAGE 26D
WYNDHAM CITY COUNCIL
LOCALITY PLAN & GENERAL NOTES

Drawing No: 24041-26D-01
Revision: D
Sheet No: 01 of 33
Scale @ A1
N.T.S

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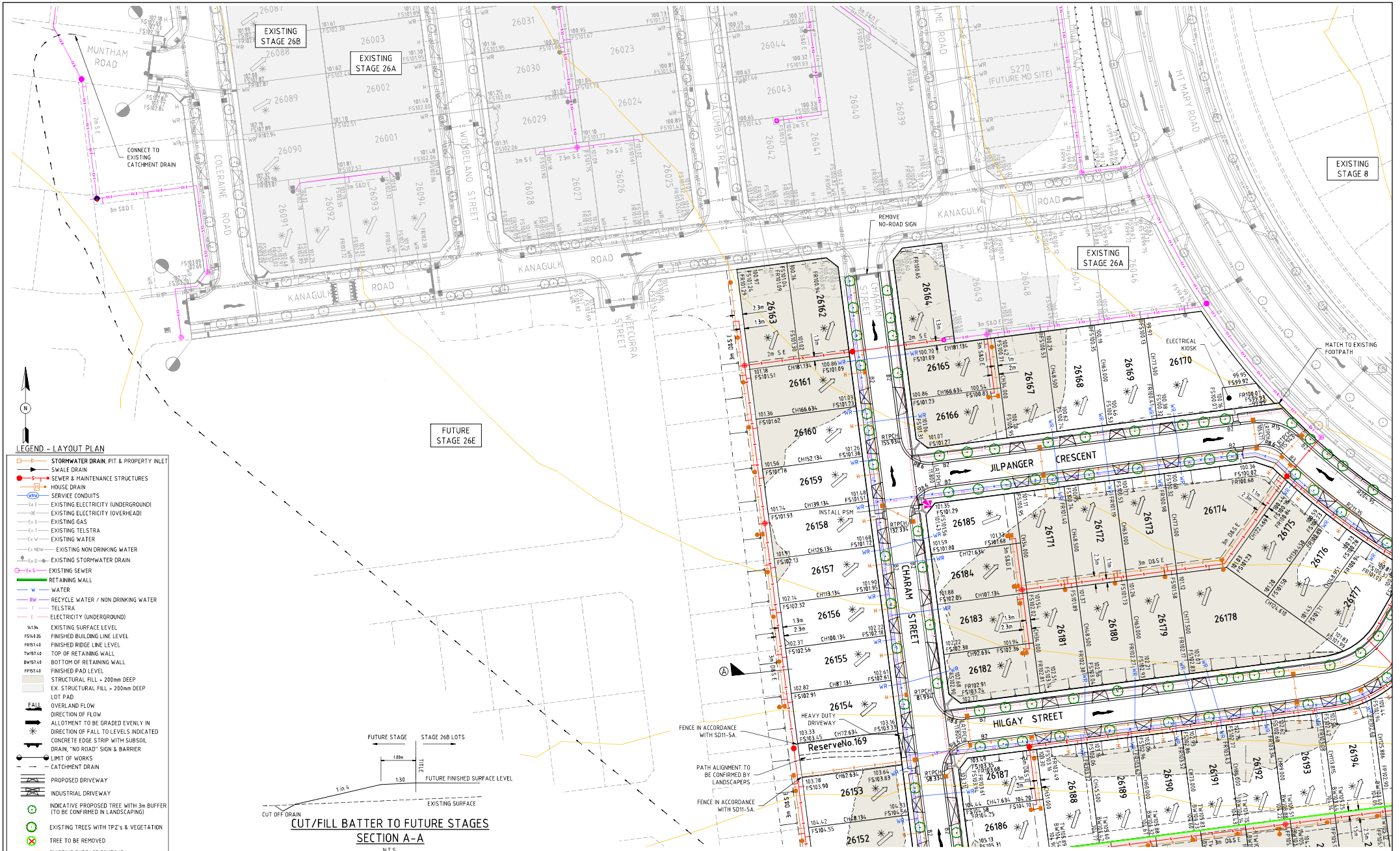

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING NON DRINKING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- RETAINING WALL
- WATER
- RECYCLE WATER / NON DRINKING WATER
- TELSTRA
- ELECTRICITY (UNDERGROUND)
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- FINISHED PAD LEVEL
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- LOT PAD
- OVERLAND FLOW
- DIRECTION OF FLOW
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- CATCHMENT DRAIN
- PROPOSED DRIVEWAY
- INDUSTRIAL DRIVEWAY
- INDICATIVE PROPOSED TREE WITH 3m BUFFER (TO BE CONFIRMED IN LANDSCAPING)
- EXISTING TREES WITH TPZ's & VEGETATION
- TREE TO BE REMOVED
- EXISTING SURFACE CONTOUR
- BRANCH SEWER

CUT/FILL BATTER TO FUTURE STAGES SECTION A-A

N.T.S.

No.	REVISION	DATE	DES/DFT	APPROVED
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
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A	ISSUED FOR APPROVAL	04.12.25	AA	MR

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M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
DETAIL PLAN
SHEET 1 OF 2

Drawing No: 24041-26D-02

Revision: C

Sheet No: 02 of 33

Scale @ A1 1:500

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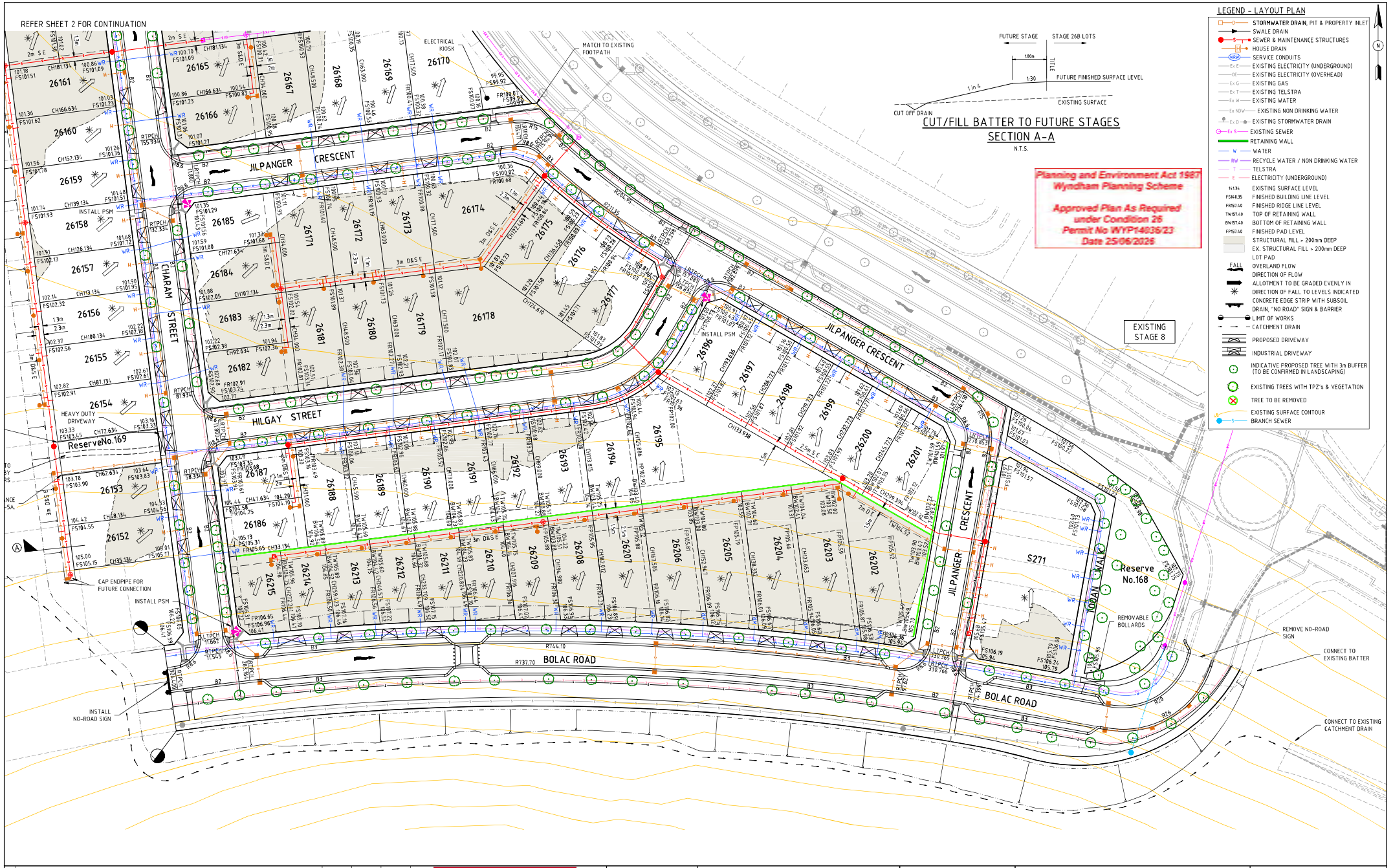

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C	CONSTRUCTION ISSUE	07.05.26	AA	MR
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M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
DETAIL PLAN
SHEET 2 OF 2

Drawing No: 24041-26D-03
Revision: D
Sheet No: 03 of 33
Scale @ A1 1:500
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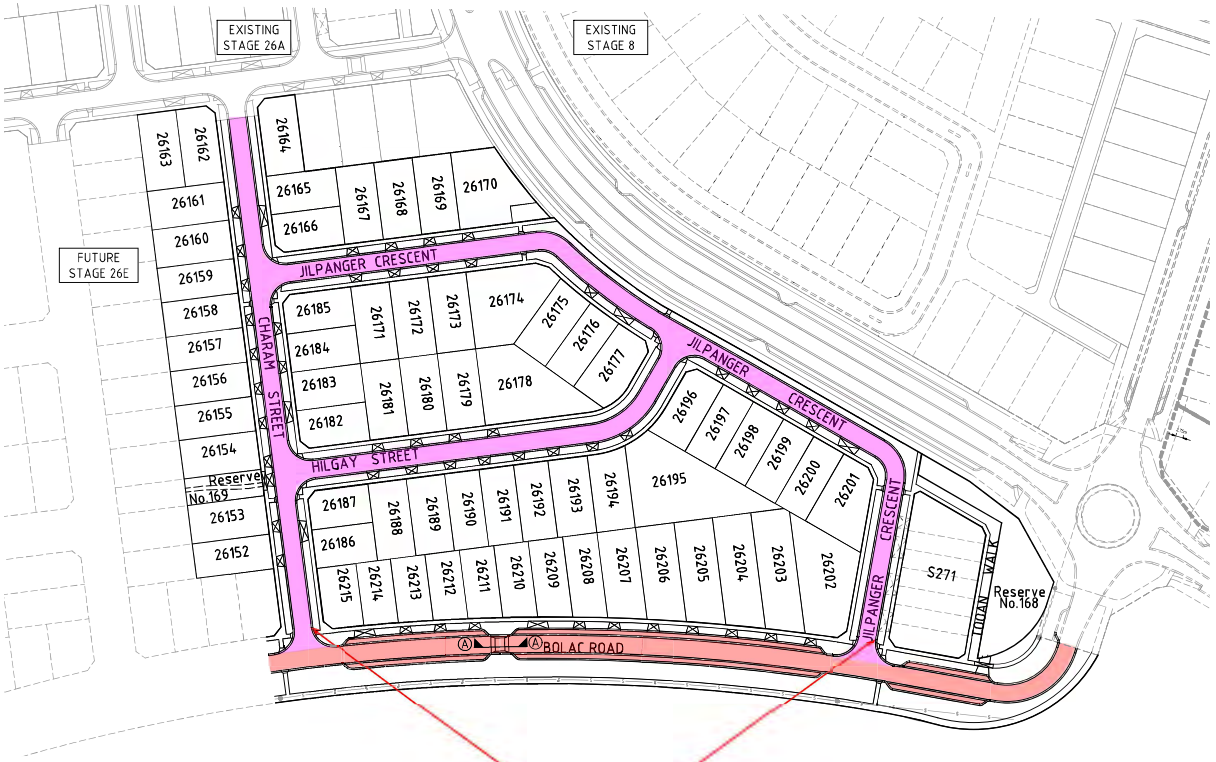

Bolac Rd pavement must be extended up till the tangent point on Access Streets.

THE PAVEMENT DESIGN SHOWN HERE HAS BEEN DESIGNED/PROVIDED BY GROUND SCIENCE GEOTECHNICAL PTY LTD WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. URBAN DESIGN AND MANAGEMENT (UDM) IS NOT RESPONSIBLE FOR THE WORK OF GROUND SCIENCE GEOTECHNICAL PTY LTD.

THE DESIGN HAS BEEN EXTRACTED FROM GROUND SCIENCE GEOTECHNICAL PTY LTD REPORT ON GEOTECHNICAL INVESTIGATION, STAGE 26, EYNESBURY ESTATE , EYNESBURY (G5412.1AC) DATED 22ND JULY 2025.

YOU SHOULD REVIEW THIS DOCUMENT TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED. A COPY OF THE DOCUMENTS WILL BE PROVIDED TO YOU ON REQUEST.

UDM DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGN.

ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGN SHOULD BE ADDRESSED TO GROUND SCIENCE AND SENT TO UDM.

Table 10: Pavement Profile Design – Access Street, Level 2 & Connector Street, Level 1

Pavement Profile	Layer Description	Thickness
Asphalt (Wearing)	Size 14 Type N (C320)	40 mm
Asphalt (Base)	Size 14 Type HP (A10E)	40 mm
Primecoat	Prime & 10mm SAM (S 18RF)	10 mm
Base	VicRoads Class 2 FCR (20 mm) Compacted to a CDR of 100 % Modified	110 mm
Upper Subbase	VicRoads Class 3 FCR (20 mm) Compacted to a CDR of 98 % Modified	130 mm
Lower Subbase	VicRoads Class 3 FCR (20 mm) Compacted to a CDR of 98 % Modified	100 mm
Subgrade Protection	VicRoads Type A Capping Layer or Approved Alternative as per Table 5 (CBR ≥ 10%, Swell <1.5%, K<5x10-6m/ sec) per Section 6.5.2	150 mm
Pavement Thickness	**Minimum Pavement Thickness 580 mm**	
Construction Layer	VicRoads Type A Capping Layer or Approved Alternative as per Table 5 (CBR ≥ 10%, Swell <1.5%, K<5x10-6m/ sec) per Section 6.5.2	150 mm
Subgrade	Unit 3, Unit 4, Weathered Basalt Bedrock or Controlled (Engineered) Fill (CBR≥3.0%)	

CDR denotes characteristic density ratio (refer Table 13).

Table 11: Pavement Profile Design – Connector Street, Level 2

Pavement Profile	Layer Description	Thickness
Asphalt (Wearing)	Size 14 Type H (C320)	40 mm
Asphalt (Intermediate)	Size 20 Type SI (C320)	75 mm
Asphalt (Base)	Size 20 Type SF (C320)	75 mm
Base	VicRoads 3% Cement Treated Class 3 FCR (20 mm)	100 mm
Subbase	VicRoads Class 3 FCR (20 mm)	100 mm
Subgrade Protection	VicRoads Type A Capping Layer or Approved Alternative as per Table 5 (CBR ≥ 10%, Swell <1.5%, K<5x10-6m/ sec) per Section 6.5.2	150 mm
Pavement Thickness	**Minimum Pavement Thickness 540 mm**	
Construction Layer	VicRoads Type A Capping Layer or Approved Alternative as per Table 5 (CBR ≥ 10%, Swell <1.5%, K<5x10-6m/ sec) per Section 6.5.2	150 mm
Subgrade	Unit 3, Unit 4, Weathered Basalt Bedrock or Controlled (Engineered) Fill (CBR≥3.0%)	

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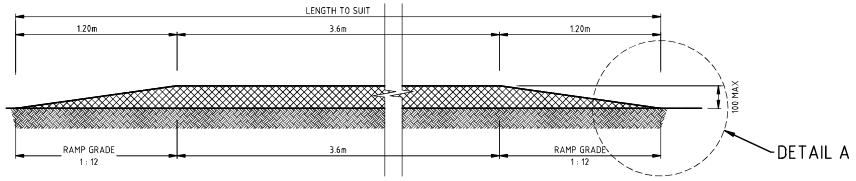
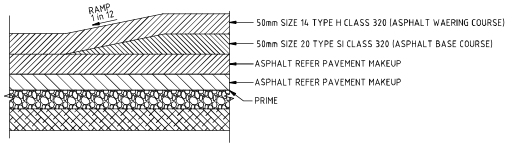
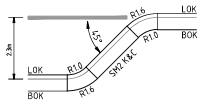
Approved Plan As Required under Condition 26
Permit No WYP14036/23
Date 25/06/2026



SECTION A-A
FLAT TOP RAISED PAVEMENT
N.T.S



DETAIL A
RAISED PLATFORM PROFILE
N.T.S



INDENTED PARKING BAY SETOUT
N.T.S

D	AMENDED TO COUNCILS COMMENTS	27.05.26	AA	MR
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR
No.	REVISION	DATE	DES/DFT	APPROVED

RESIMAX GROUP
Approved for Construction

Melway Reference
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Designed
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M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP
STAGE 26D
WYNDHAM CITY COUNCIL
PAVEMENT DETAILS - 1 OF 2

Drawing No: 24041-26D-04
Revision: D
Sheet No: 04 of 33
Scale @ A1 1:1000 (0 10 20 40)

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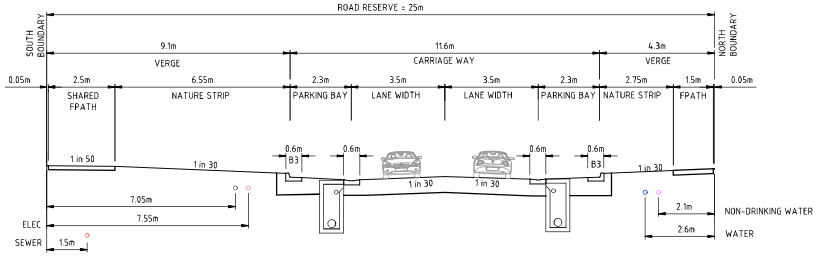
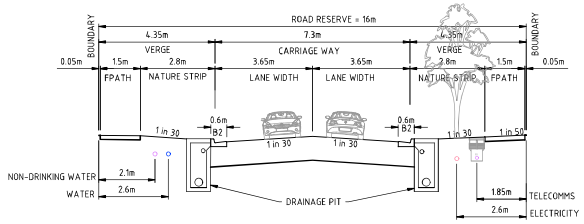


25m TYPICAL CROSS SECTION

BOLAC ROAD

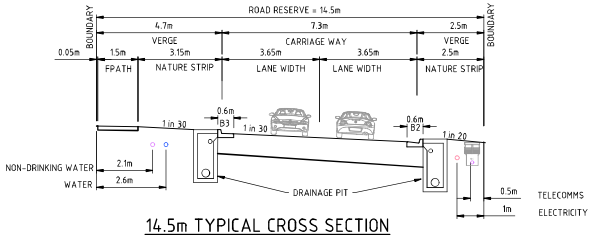
N.T.S



16.0m TYPICAL CROSS SECTION

CHARAM STREET, JILPANGER CRESCENT & HILGAY STREET

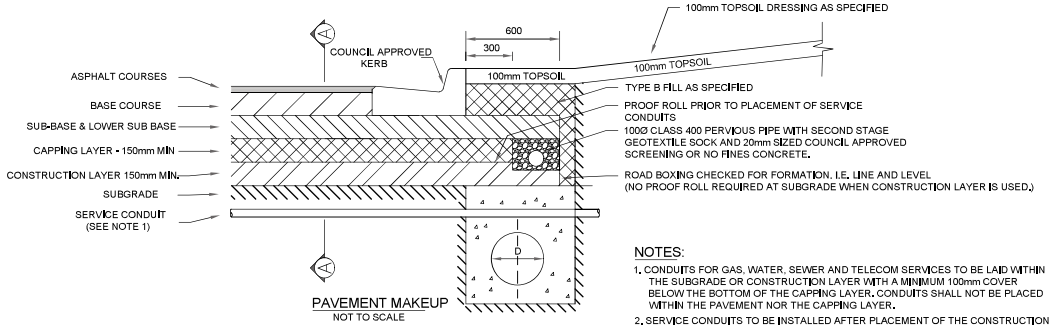
N.T.S



14.5m TYPICAL CROSS SECTION

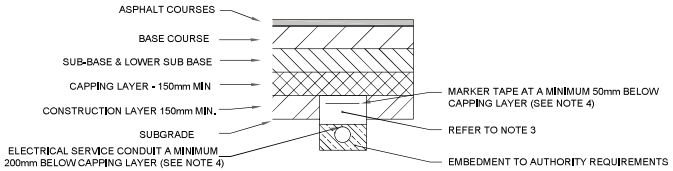
JILPANGER CRESCENT

N.T.S



PAVEMENT MAKEUP

NOT TO SCALE



SECTION A-A FOR ELECTRICAL SERVICE CONDUITS ONLY

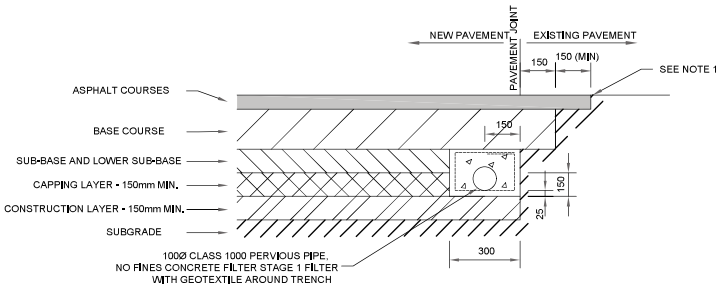
NOT TO SCALE

NOTES:

1. CONDUITS FOR GAS, WATER, SEWER AND TELECOM SERVICES TO BE LAID WITHIN THE SUBGRADE OR CONSTRUCTION LAYER WITH A MINIMUM 100mm COVER BELOW THE BOTTOM OF THE CAPPING LAYER. CONDUITS SHALL NOT BE PLACED WITHIN THE PAVEMENT NOR THE CAPPING LAYER.
2. SERVICE CONDUITS TO BE INSTALLED AFTER PLACEMENT OF THE CONSTRUCTION LAYER AT A GRADE OF 1 IN 100 FALLING TO THE SIDE OF THE PROPOSED UTILITY MAIN
3. SERVICE TRENCH BACKFILL TO BE 20mm CLASS 3 CR, RECYCLED CONCRETE OR COUNCIL APPROVED EQUIVALENT
4. FOR ELECTRICAL SERVICES, WHERE THE CONDUIT IS GREATER THAN 200mm BELOW THE CAPPING LAYER, THE MARKER TAPE MUST BE PLACED 150mm ABOVE THE CONDUIT OR PER THE ELECTRICAL AUTHORITY'S REQUIREMENTS
5. CONSTRUCTION LAYERS AND CAPPING LAYER MATERIAL MUST HAVE THE FOLLOWING SPECIFICATIONS:
   - MIN. CBR=8%,
   - MAX. SWELL=1.5%,
   - MAX. PERMEABILITY=5x10-9 m/s
6. ALL DIMENSIONS IN MILLIMETRES WHERE NOT SPECIFIED

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 26
Permit No WYP1403/23
Date 25/06/2026



JOINT DETAILS FOR ROAD PAVEMENT

NOTES:

1. FOR EXPANSIVE SUBGRADE, SAW CUT EXISTING ASPHALT. REFER TO SPECIFICATION SECTION 407.17 FOR JOINT DETAIL. APPLY PRIME AND SAMI TO EXISTING PAVEMENT.
2. SUBSURFACE DRAINS TO BE PROVIDED BEFORE THE CONSTRUCTION OF THE PAVEMENT.
3. CONDUITS FOR GAS, WATER, ELECTRICITY AND TELECOM SERVICES TO BE LOCATED CLEAR OF PAVEMENT AND THE SUBSURFACE DRAIN.
4. THE JOINT BETWEEN NEW AND OLD WEARING COURSE TO BE CRACK SEALED.
5. THE JOINT BETWEEN NEW AND OLD WEARING COURSE MUST BE CONSTRUCTED AT A LOCATION OUTSIDE THE WHEEL PATH ZONE.
6. CONSTRUCTION LAYERS AND CAPPING LAYER MATERIAL MUST HAVE THE FOLLOWING SPECIFICATIONS:
   - MIN. CBR=8%,
   - MAX. SWELL=1.5%,
   - MAX. PERMEABILITY=5x10-9 m/s

No.	REVISION	DATE	DES/DFT	APPROVED
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

RESIMAX GROUP

Approved for Construction

Melway Reference
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Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
PAVEMENT DETAILS - 2 OF 2 &
TYPICAL CROSS SECTIONS

Drawing No: 24041-26D-05

Revision: C

Sheet No: 05 of 33

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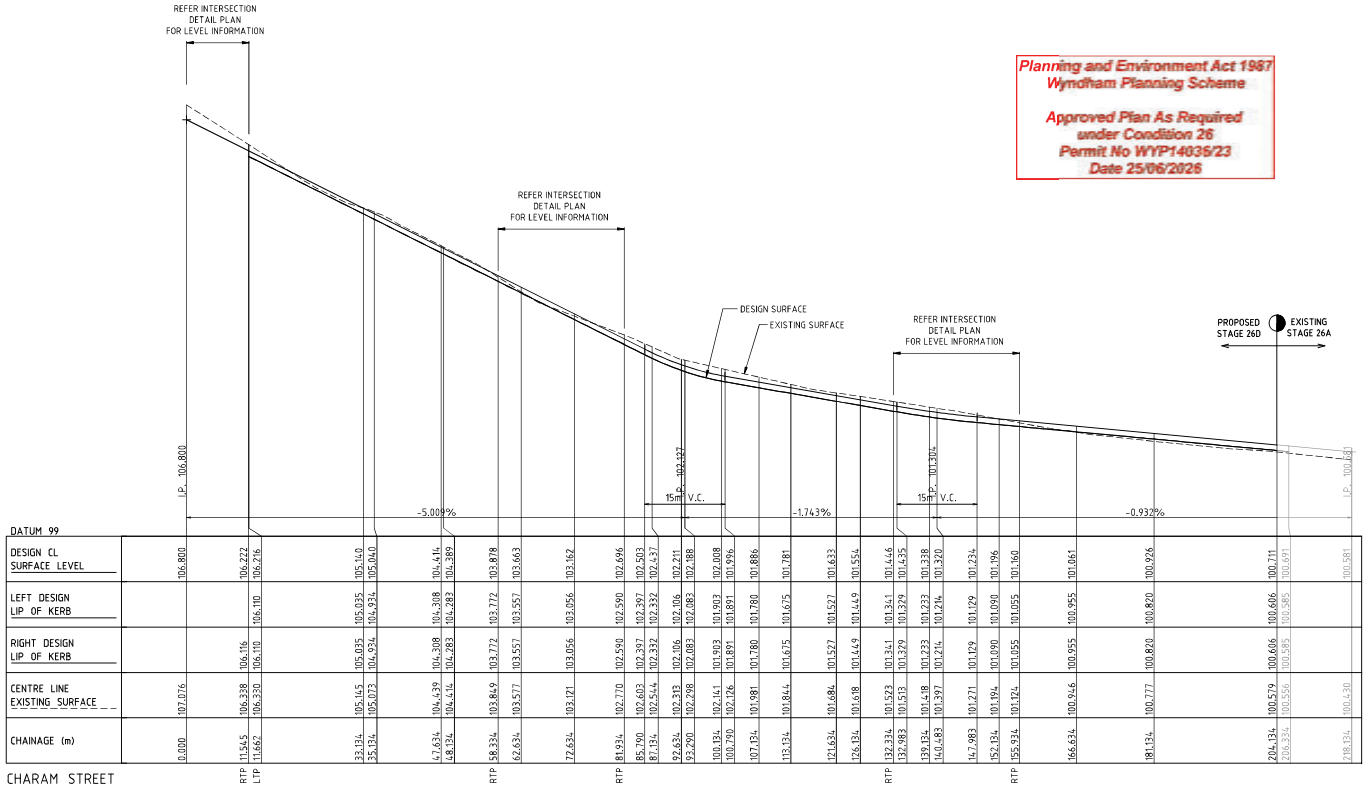

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Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
LONGITUDINAL SECTIONS
SHEET 1 OF 3

Drawing No: 24041-26D-06

Revision: C

Sheet No: 06 of 33

Scale @ A1 0 5 10 20
H1:500, V1:50 0 0.5 1 2

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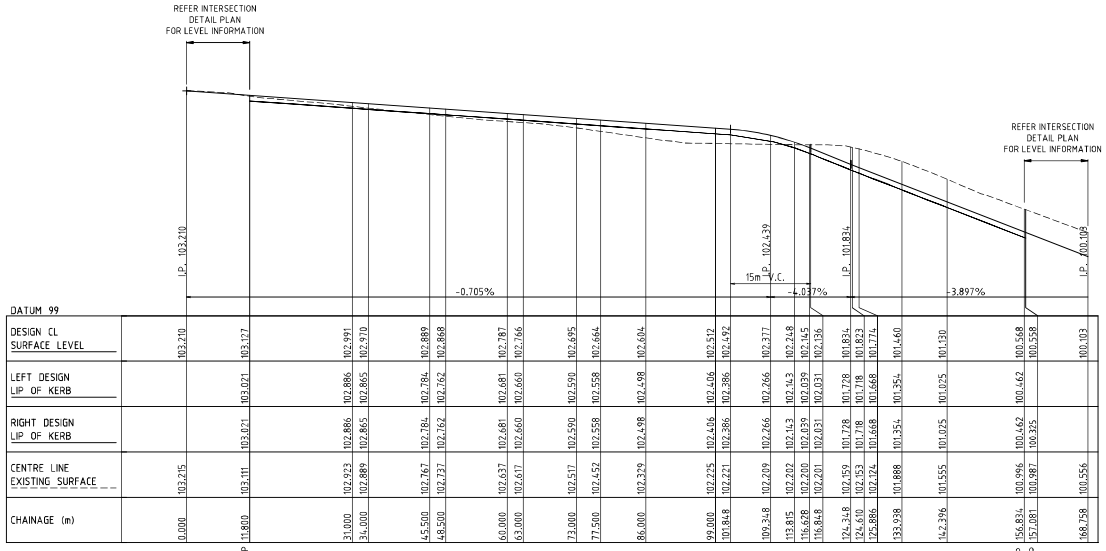
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DATUM 99

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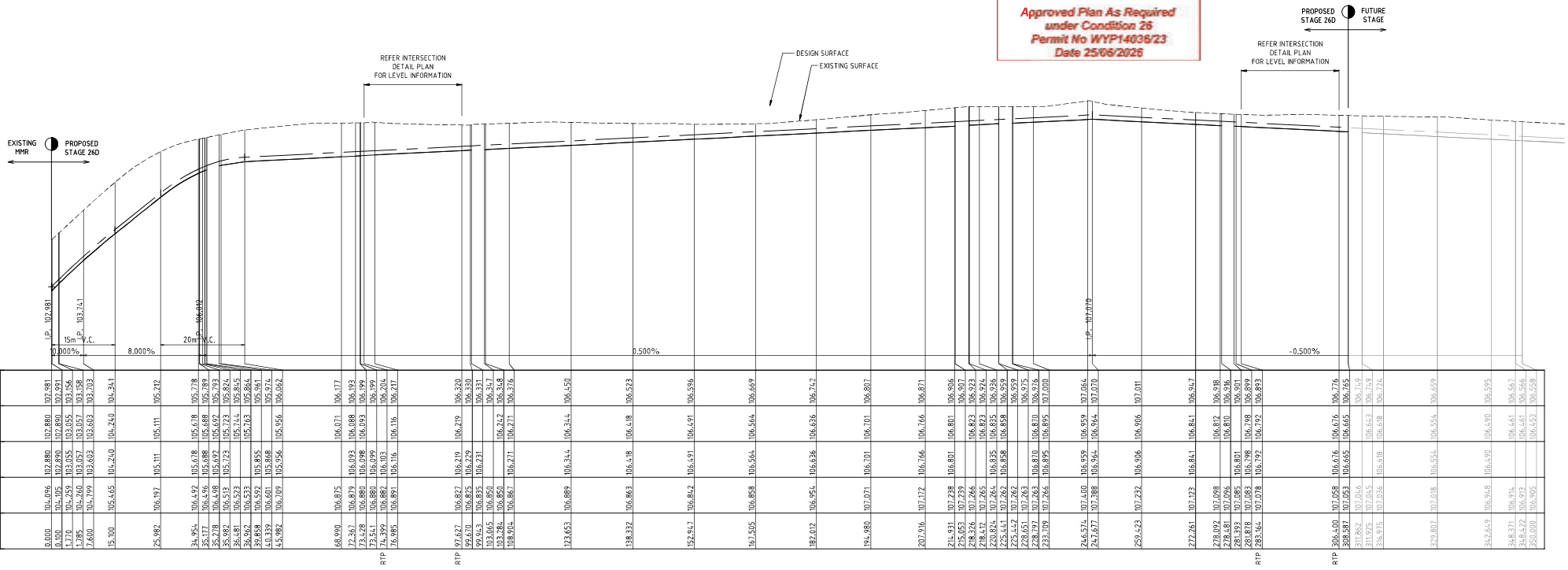
under Condition 26
Permit No WYP14036/23
Date 25/06/2026



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A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
LONGITUDINAL SECTIONS
SHEET 3 OF 3

Drawing No: 24041-26D-08
Revision: C
Sheet No: 08 of 33
Scale @ A1 0 5 10 20
H1:500, V1:50 0 0.5 1 2

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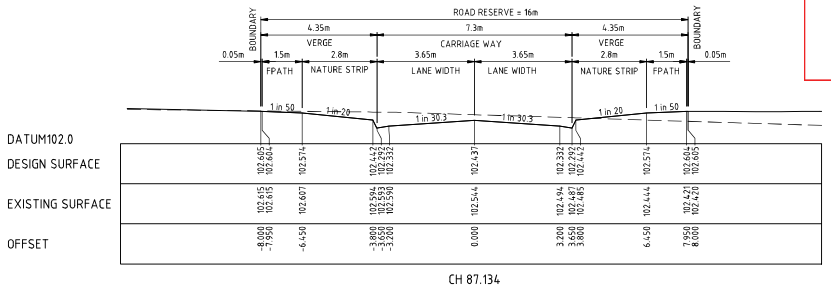
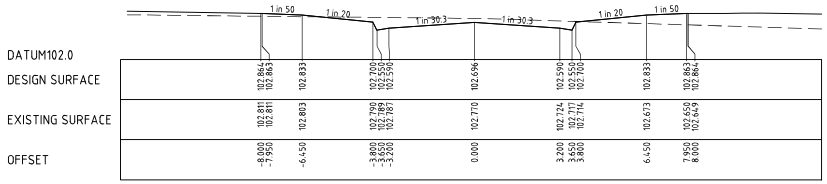
Approved Plan As Required
under Condition 26
Permit No WYP14036/23
Date 25/06/2026

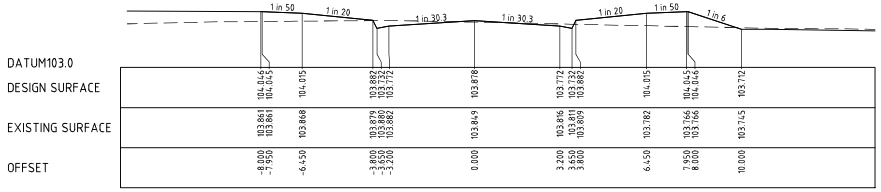
LEGEND
EXISTING SURFACE
DESIGN LINE



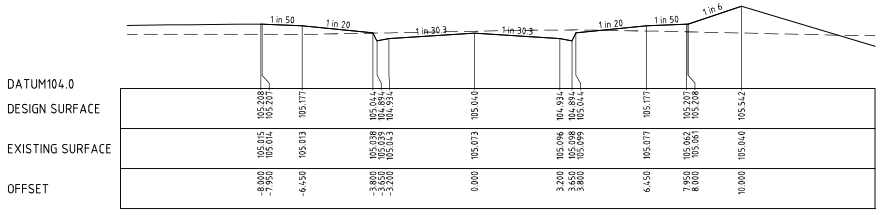
CH 87.134



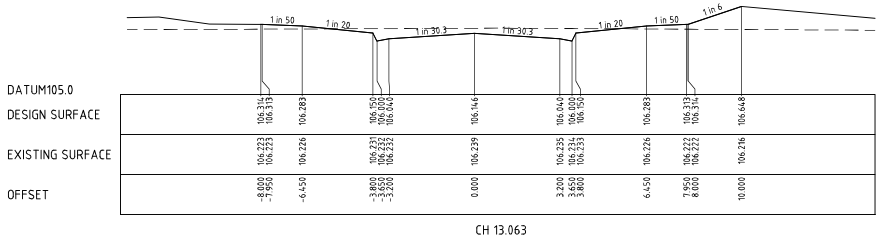
RTPCH 81.934



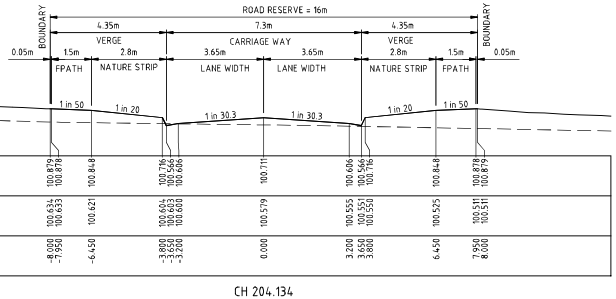
RTPCH 58.334



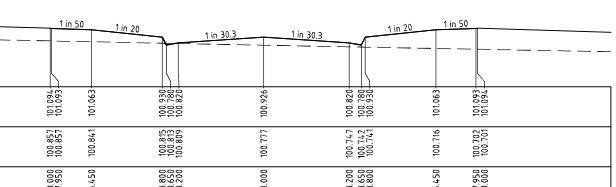
CH 35.134



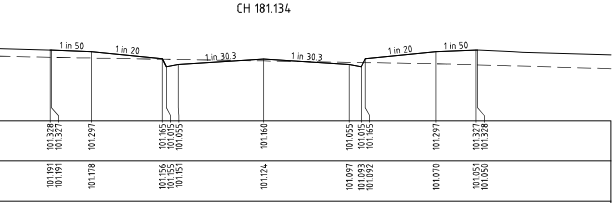
CH 13.063



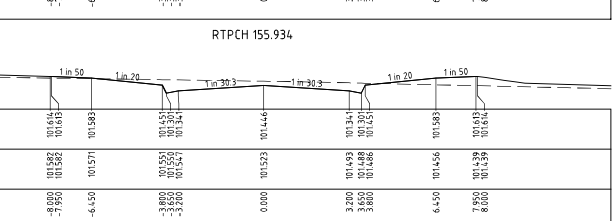
CH 204.134



CH 181.134



RTPCH 155.934



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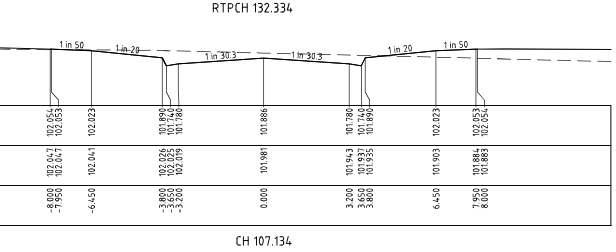

CH 107.134

No.	REVISION	DATE	DES/DFT	APPROVED
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

RESIMAX GROUP

Approved for Construction

Melway Reference
226 B4

Principal
RESIMAX GROUP PTY LTD
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MELBOURNE VIC 3000

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Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP
STAGE 26D
WYNDHAM CITY COUNCIL
CROSS SECTIONS - CHARAM STREET

Drawing No: 24041-26D-09
Revision: C
Sheet No: 09 of 33
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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ABN 62 525 443 156

file name 24041-26D-09-16.dwg layout name 09 file location L:\Work\Eng\24041 Eynesbury\Stage 26\Stage 26D\Drawings

LEGEND
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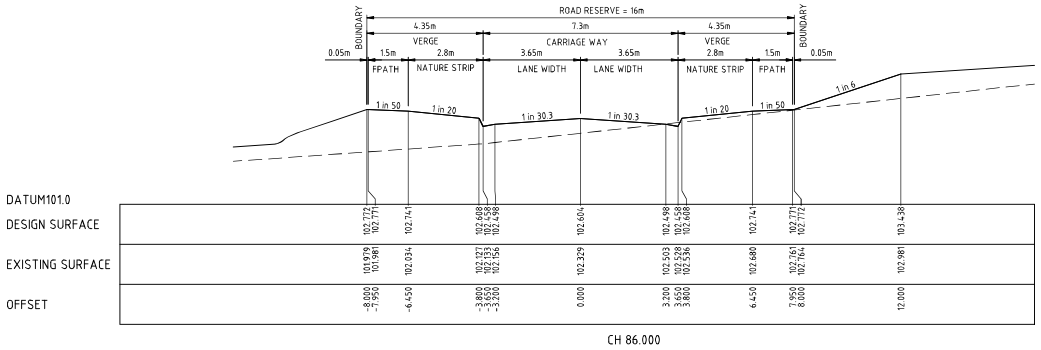
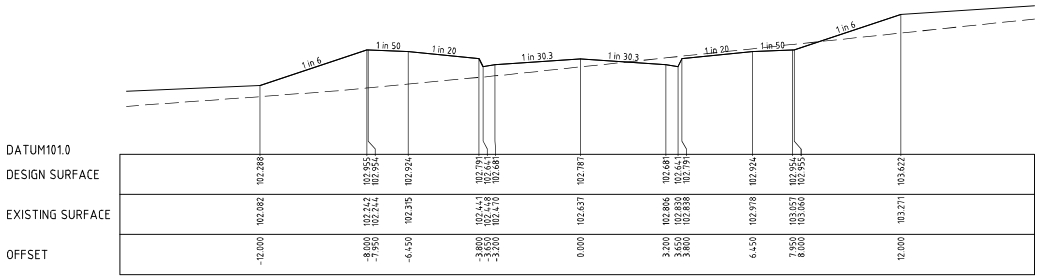
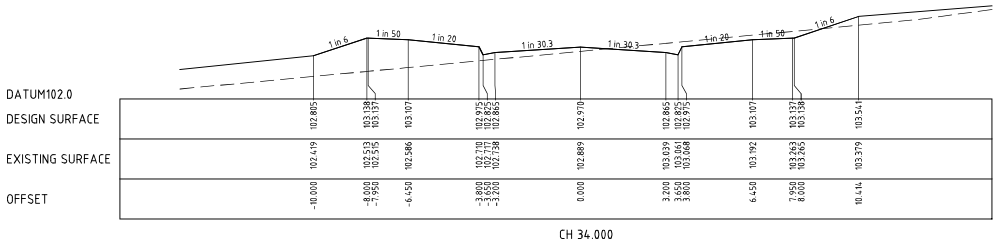
DESIGN LINE



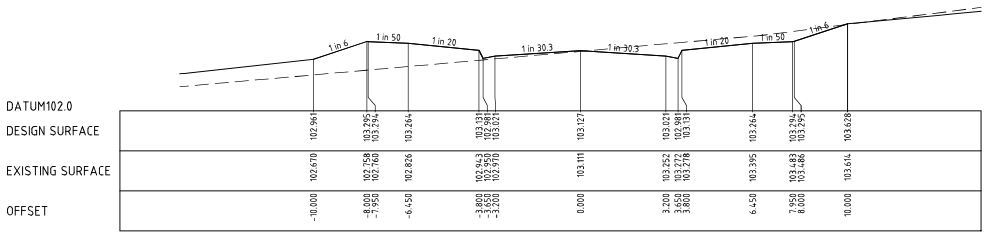
CH 86.000



CH 60.000



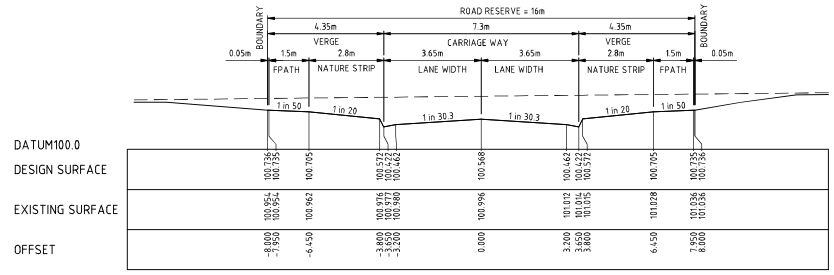
CH 34.000



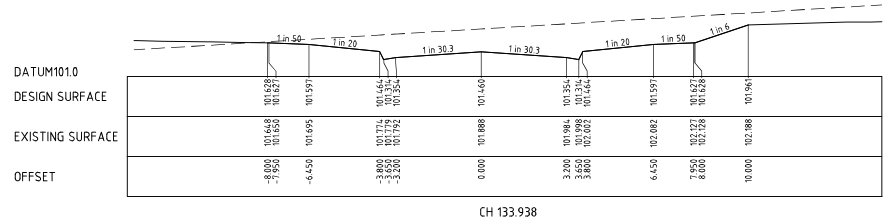
LRTPCH 11.800

Planning and Environment Act 1987
Wyndham Planning Scheme

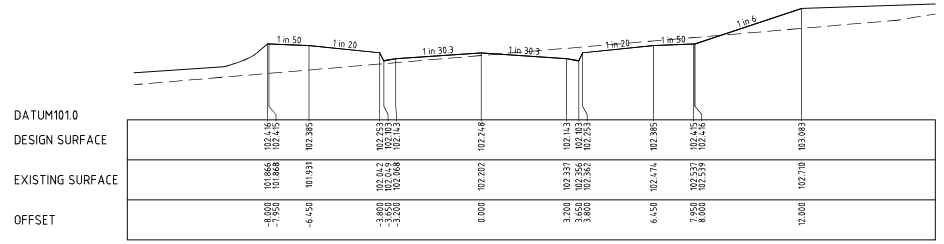
Approved Plan As Required
under Condition 26
Permit No WYP14036/23
Date 25/06/2026



LTP CH 156.834



CH 133.938



CH 113.815

C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR
No.	REVISION	DATE	DES/DFT	APPROVED

RESIMAX GROUP

Approved for Construction

Melway Reference
226 B4

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Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
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Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
CROSS SECTIONS - HILGAY STREET

Drawing No: 24041-26D-10
Revision: C
Sheet No: 10 of 33
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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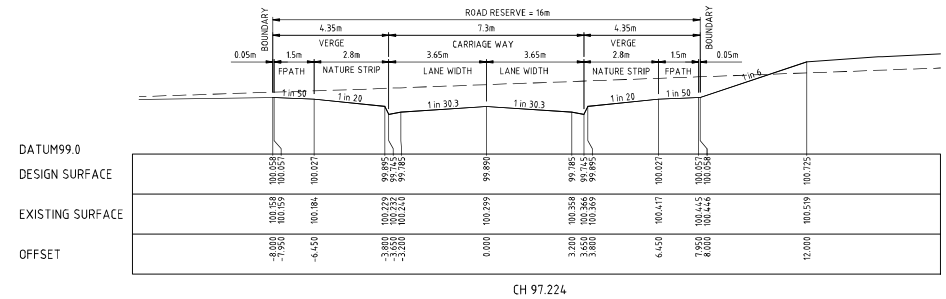
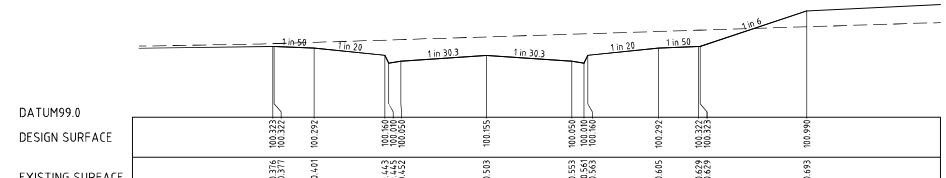
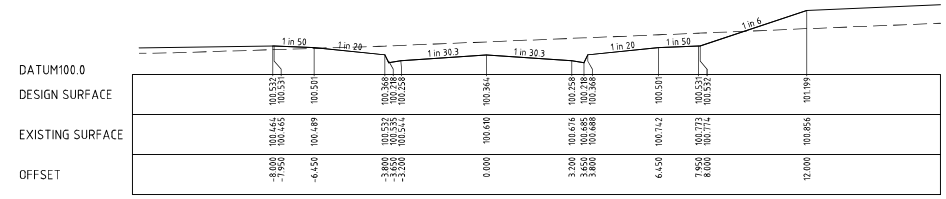
file name 24041-26D-09-16.dwg layout name 10 file location L:\Work\Eng\24041 Eynesbury\Stage 26\Stage 26D\Drawings



CH 97.224



CH 77.500



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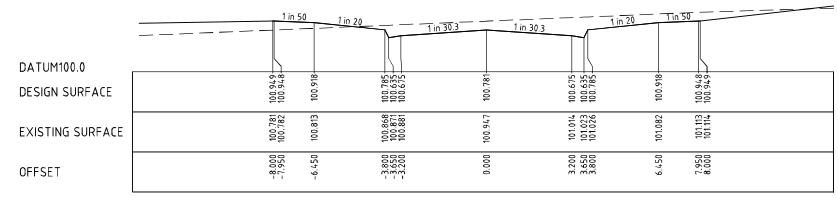
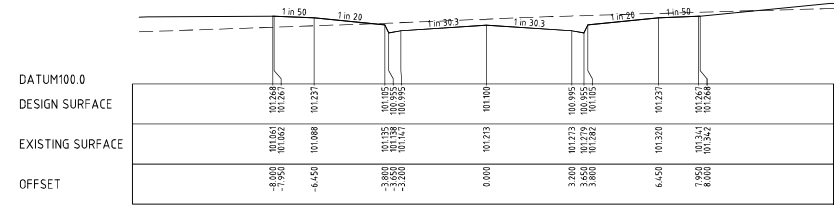


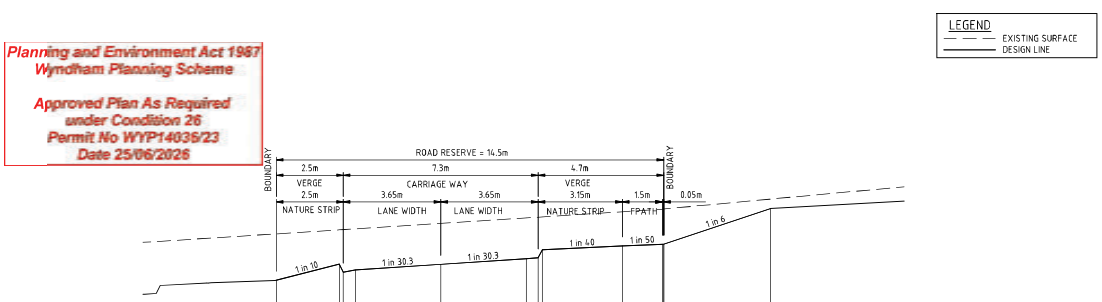
CH 34.000



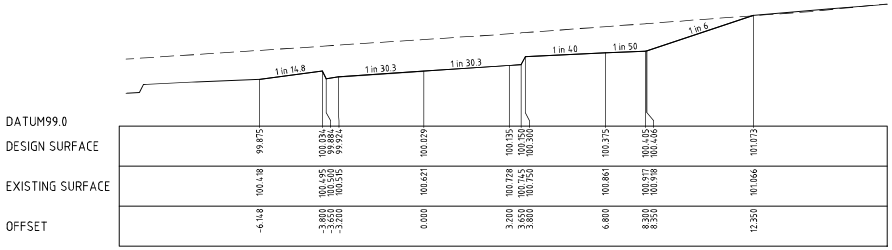
LRTPCH 11.800

Planning and Environment Act 1987
Wyndham Planning Scheme

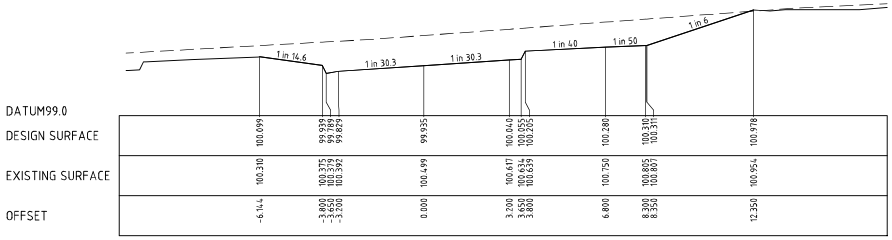
Approved Plan As Required
under Condition 26
Permit No WYP14036/23
Date 25/06/2026



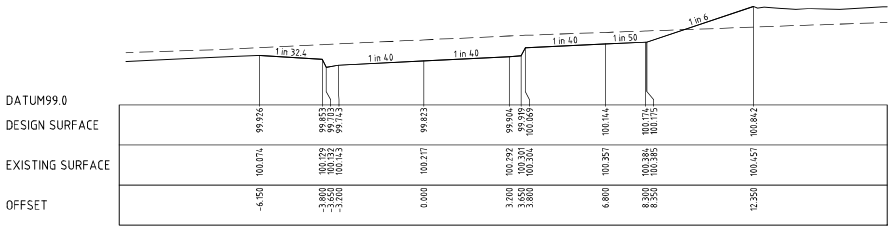
CH 206.723



RTPCH 182.899



RTPCH 159.298



CH 117.625

E	CH 117.625 AMENDED PER COUNCILS REQUEST	22.06.26	AA	MR
D	AMENDED TO COUNCILS COMMENTS	27.05.26	AA	MR
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR
No.	REVISION	DATE	DES/DFT	APPROVED

RESIMAX GROUP

Approved for Construction

Melway Reference
226 B4

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Designed
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Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
CROSS SECTIONS - JILPANGER CRESCENT
SHEET 1 OF 2

Drawing No: 24041-26D-11
Revision: E
Sheet No: 11 of 33
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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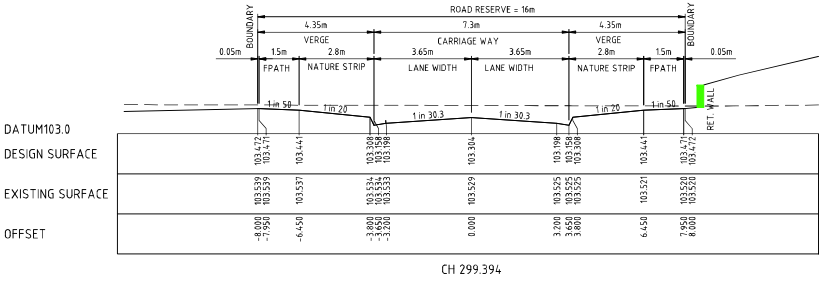
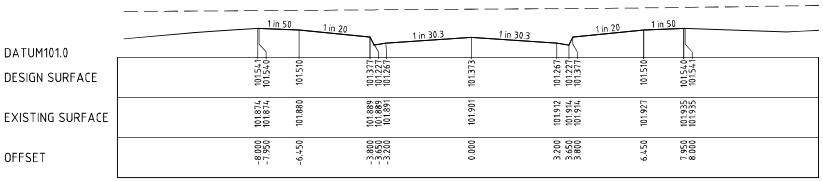
DESIGN LINE

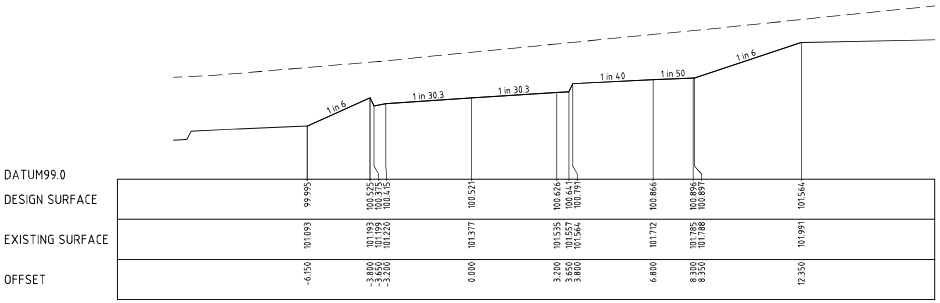


CH 299.394

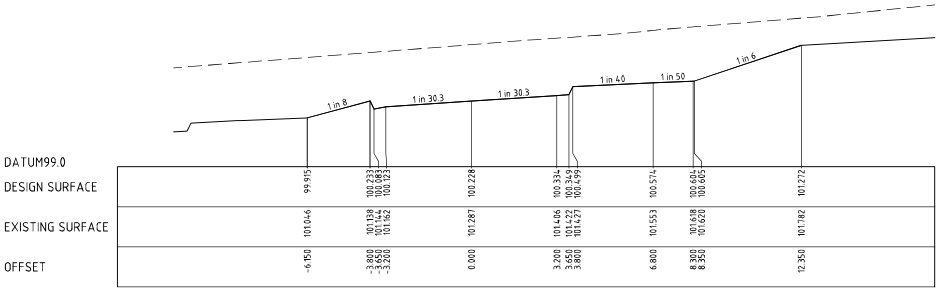


LRTP CH 270.853

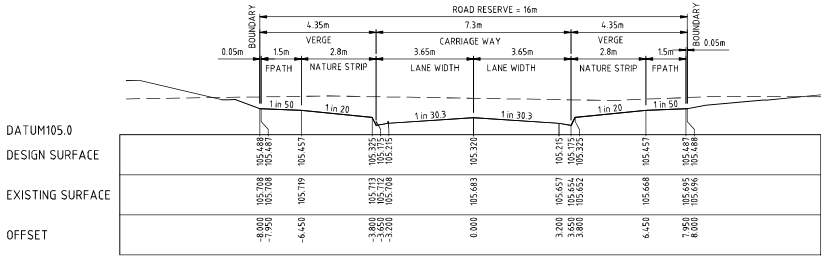
Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 26
Permit No WYP14036/23
Date 25/06/2026



LRTP CH 256.410



CH 232.723



CH 329.202

No.	REVISION	DATE	DES/DFT	APPROVED
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

RESIMAX GROUP

Approved for Construction

Melway Reference
226 B4

Principal
RESIMAX GROUP PTY LTD
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Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
CROSS SECTIONS - JILPANGER CRESCENT
SHEET 2 OF 2

Drawing No: 24041-26D-12
Revision: C
Sheet No: 12 of 33
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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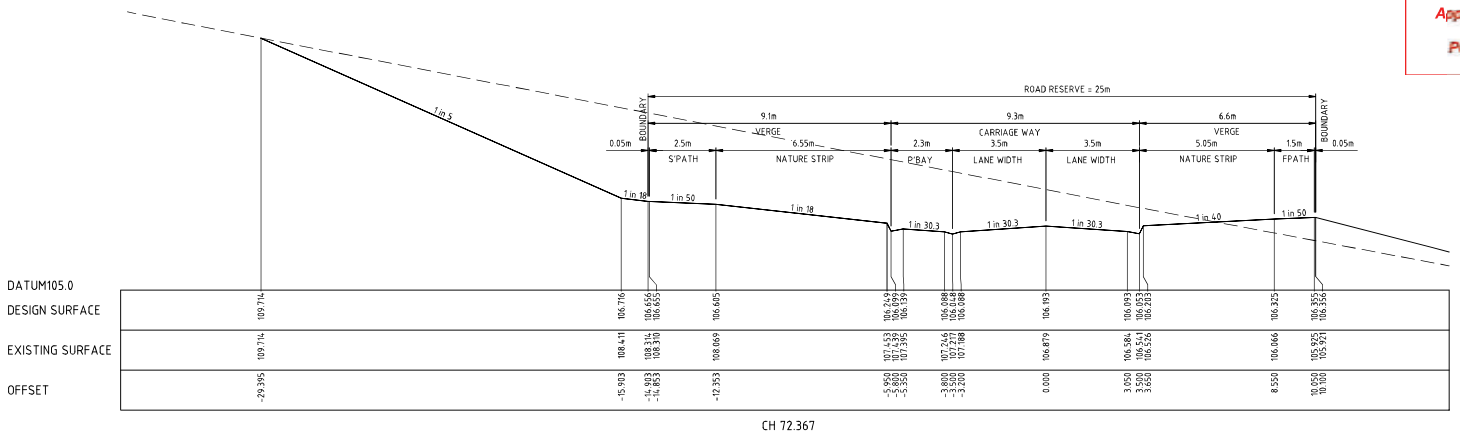
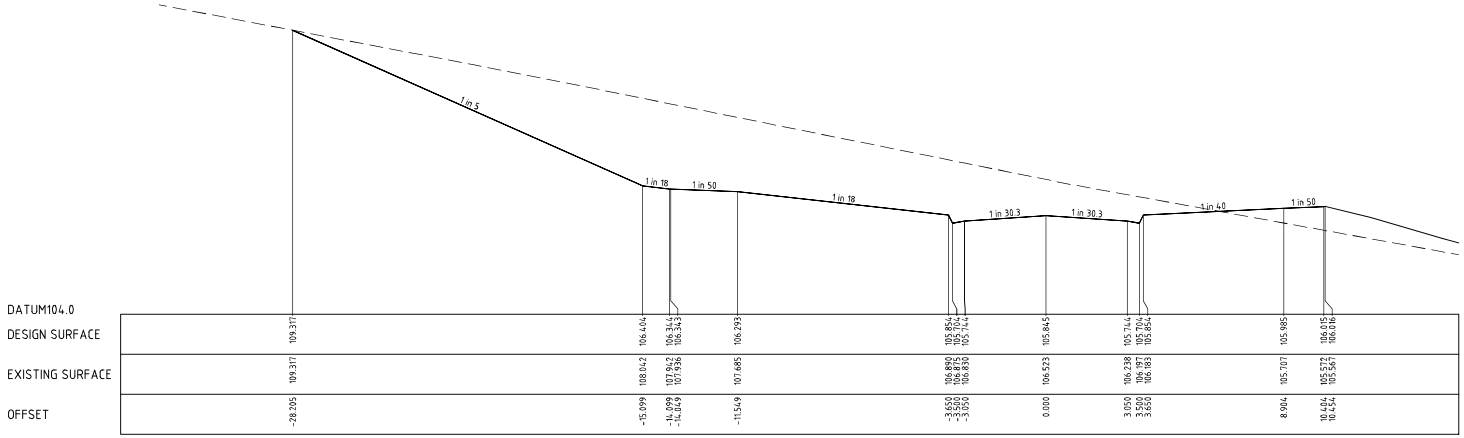
file name 24041-26D-09-16.dwg layout name 12 file location L:\Work\Eng\24041 Eynesbury\Stage 26\Stage 26D\Drawings

LEGEND
EXISTING SURFACE
DESIGN LINE

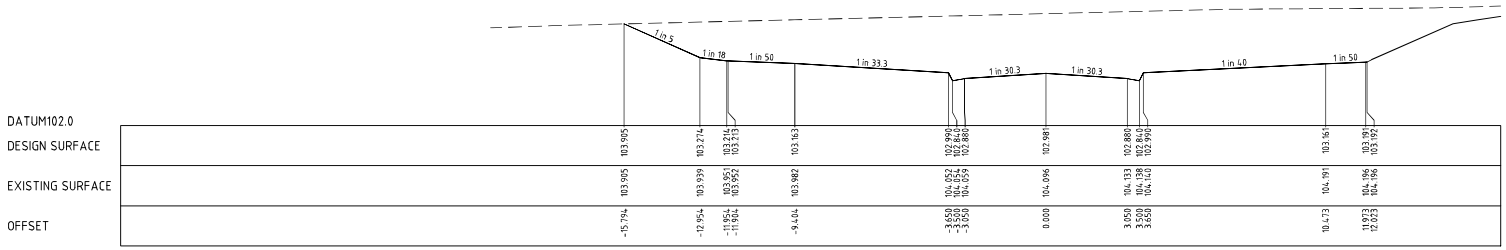
Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 26
Permit No WYP14036/23
Date 25/06/2026



CH 72.367



CH 36.481



CH 0.000

No.	REVISION	DATE	DES/DFT	APPROVED
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

RESIMAX GROUP

Approved for Construction

Melway Reference
226 B4

Principal
RESIMAX GROUP PTY LTD
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MELBOURNE VIC 3000

UrbanDesign and management
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Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
CROSS SECTIONS - BOLAC ROAD
SHEET 1 OF 4

Drawing No: 24041-26D-13
Revision: C
Sheet No: 13 of 33
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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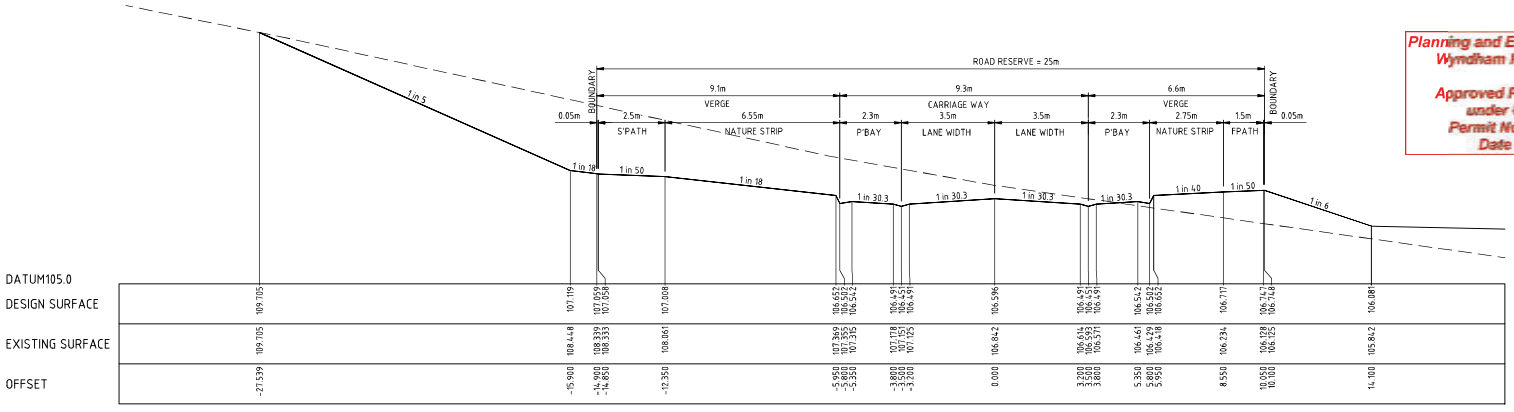
ABN 62 525 443 156

file name 24041-26D-09-16.dwg layout name 13 file location L:\Work\Eng\24041 Eynesbury\Stage 26\Stage 26D\Drawings

LEGEND
EXISTING SURFACE
DESIGN LINE

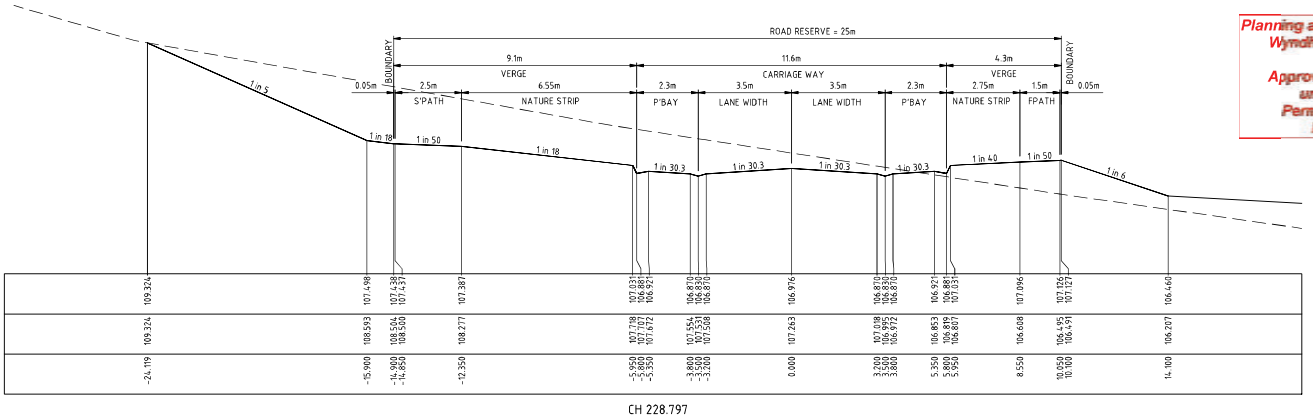
Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 26
Permit No WYP14036/23
Date 25/06/2026



| | | |

LEGEND
EXISTING SURFACE
DESIGN LINE

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required under Condition 26
Permit No WYP14036/23
Date 25/06/2026



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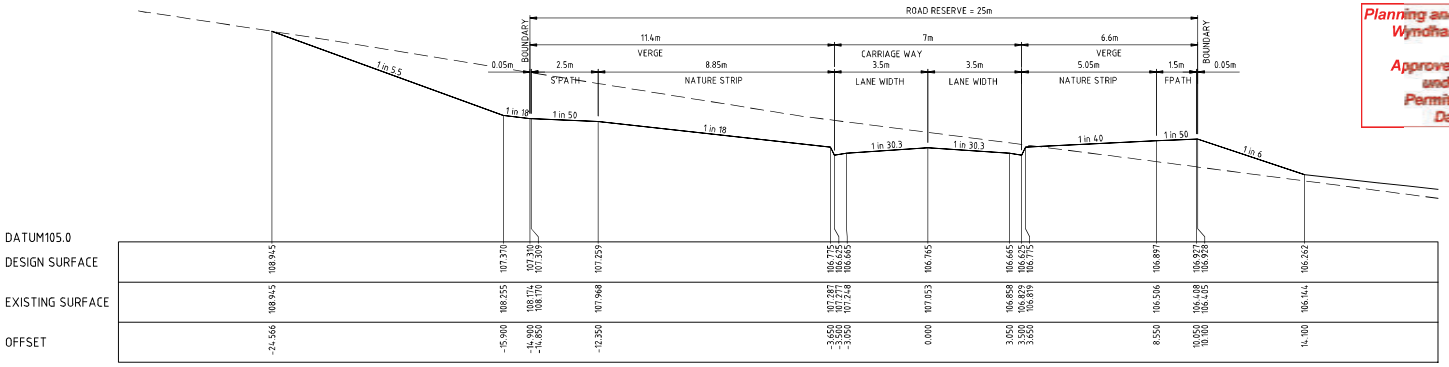
LEGEND
EXISTING SURFACE
DESIGN LINE

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 26
Permit No WYP14036/23
Date 25/06/2026



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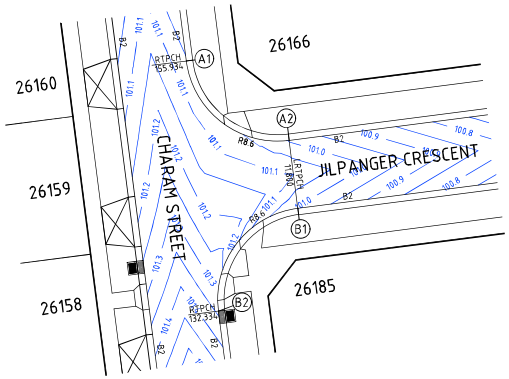
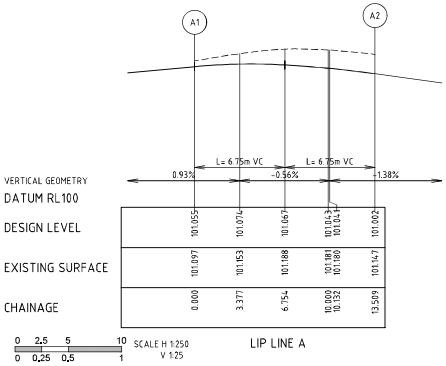


INTERSECTION DETAIL PLAN

CHARAM STREET & JILPANGER CRESCENT

SCALE 1:250 0 2.5 5 10



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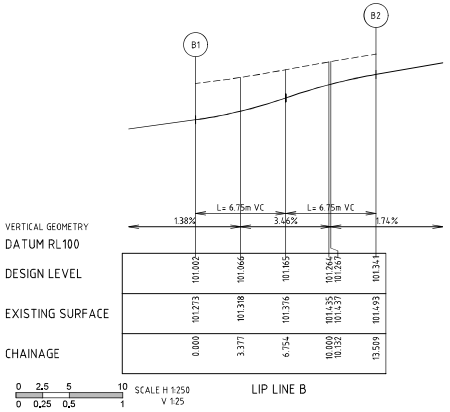
A2	283165.607	5814428.004	101.002

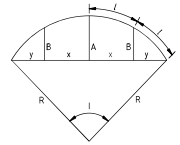
Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
A1 - A2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	101.0



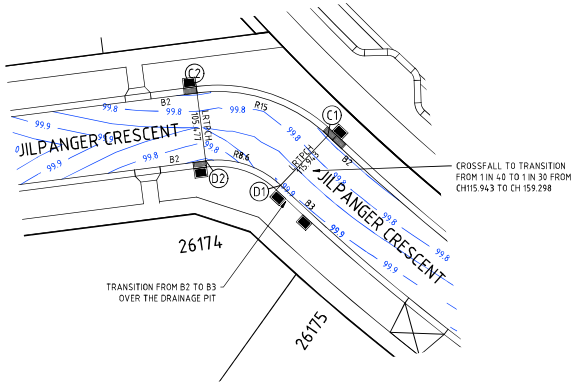
Alignment B

Point no	Easting	Northing	RL
B1	283166.422	5814421.656	101.002
B2	283158.988	5814412.031	101.341

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
B1 - B2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	101.165



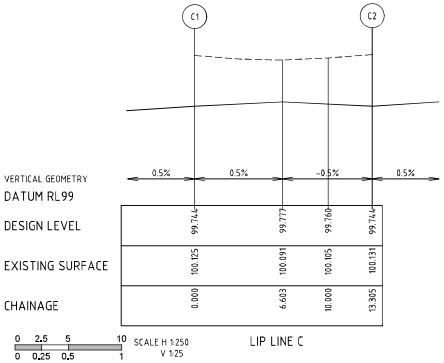
Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required under Condition 26
Permit No WYP14036/23
Date 25/06/2026



INTERSECTION DETAIL PLAN

JILPANGER CRESCENT

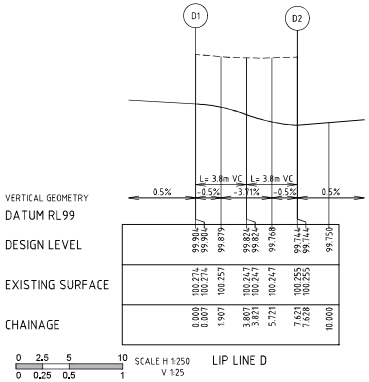
SCALE 1:250 0 2.5 5 10



Alignment C

Point no	Easting	Northing	RL
C1	283270.758	5814435.936	99.744
C2	283258.521	5814439.934	99.744

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
C1 - C2	50.821	15.000	13.305	1.451	1.084	3.299	3.137	3.326	99.777



Alignment D

Point no	Easting	Northing	RL
D1	283266.352	5814431.294	99.904
D2	283259.336	5814433.586	99.744

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
D1 - D2	50.821	8.600	7.628	0.832	0.621	1.891	1.799	1.907	99.824

No.	REVISION	DATE	DES/DFT	APPROVED
C	ALINGMENTS C & D AMENDED	22.06.26	AA	MR
B	CONSTRUCTION ISSUE	07.05.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

RESIMAX GROUP

Approved for Construction

Melway Reference
226 B4

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Designed
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Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP
STAGE 26D
WYNDHAM CITY COUNCIL
INTERSECTION DETAIL PLAN
SHEET 1 OF 4

Drawing No: 24041-26D-17
Revision: C
Sheet No: 17 of 33
Scale @ A1
AS SHOWN

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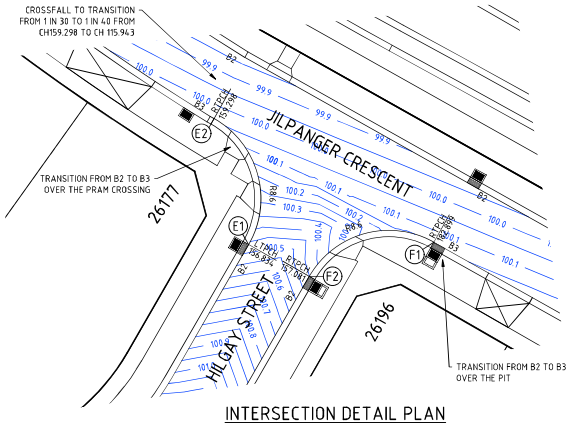
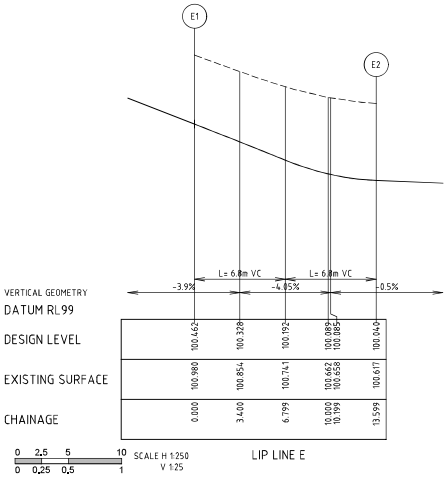
file name 24041-26D-17-20.dwg layout name 17 file location L:\Work\Eng\24041 Eynesbury\Stage 26\Stage 26D\Drawings



INTERSECTION DETAIL PLAN

HILGAY STREET & JILPANGER CRESCENT

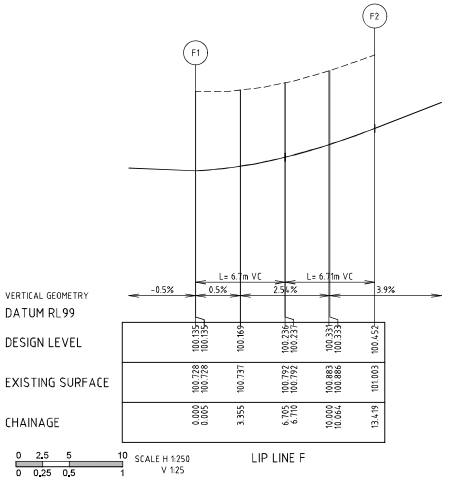
SCALE 1:250 0 2.5 5 10



Alignment E

Point no	Easting	Northing	RL
E1	283304.544	5814392.681	100.462
E2	283301.309	5814404.471	100.040

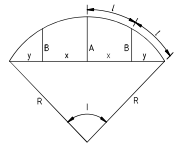
Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
E1 - E2	90.598	8.600	13.599	2.551	1.887	3.312	2.801	3.400	100.192



Alignment F

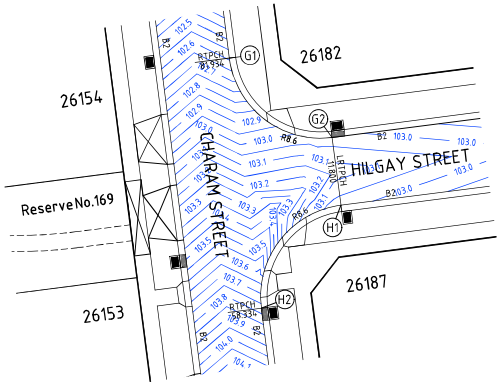
Point no	Easting	Northing	RL
F1	283321.880	5814392.900	100.135
F2	283310.212	5814389.699	100.452

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
F1 - F2	89.402	8.600	13.419	2.487	1.841	3.270	2.779	3.355	100.237



Planning and Environment Act 1987
Wyndham Planning Scheme

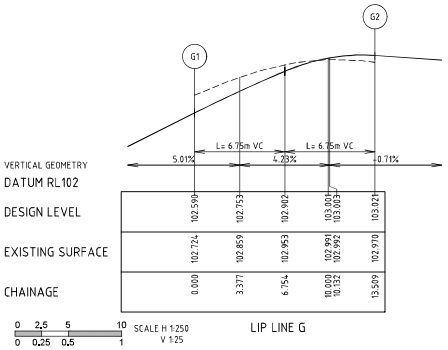
Approved Plan As Required under Condition 26
Permit No WYP14036/23
Date 25/06/2026



INTERSECTION DETAIL PLAN

CHARAM STREET & HILGAY STREET

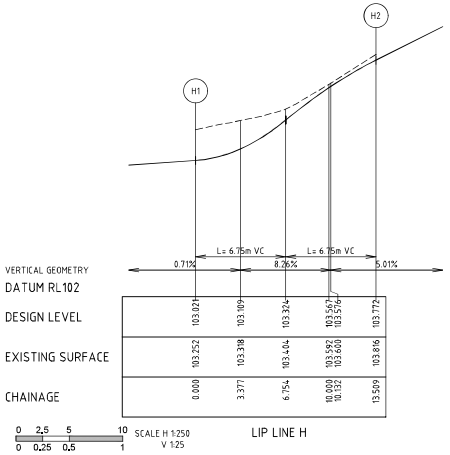
SCALE 1:250 0 2.5 5 10



Alignment G

Point no	Easting	Northing	RL
G1	283165.406	5814362.042	102.590
G2	283175.031	5814354.607	103.021

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
G1 - G2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	102.902



Alignment H

Point no	Easting	Northing	RL
H1	283175.846	5814348.259	103.021
H2	283168.412	5814338.634	103.772

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
H1 - H2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	103.324

No.	REVISION	DATE	DES/DFT	APPROVED
D	CROSSFALL NOTATION ADDED	25.06.26	AA	MR
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

RESIMAX GROUP

Approved for Construction

Melway Reference
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Designed
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Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP
STAGE 26D
WYNDHAM CITY COUNCIL
INTERSECTION DETAIL PLAN
SHEET 2 OF 4

Drawing No: 24041-26D-18
Revision: D
Sheet No: 18 of 33
Scale @ A1
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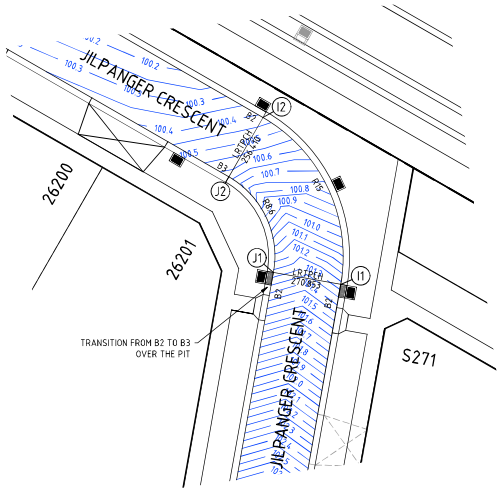
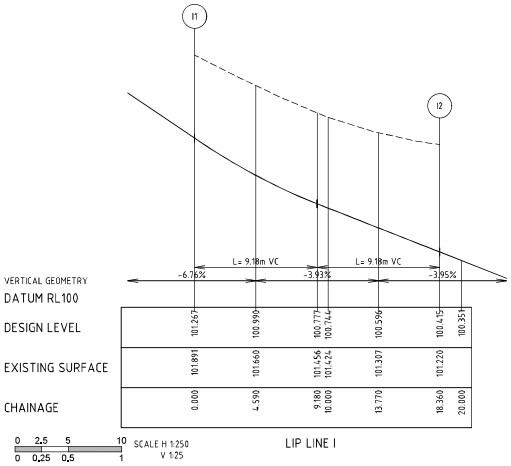


INTERSECTION DETAIL PLAN

JILPANGER CRESCENT

SCALE 1:250 0 2.5 5 10



0 2.5 5 10 SCALE H 1:250

0 0.25 0.5 1 V 1:25

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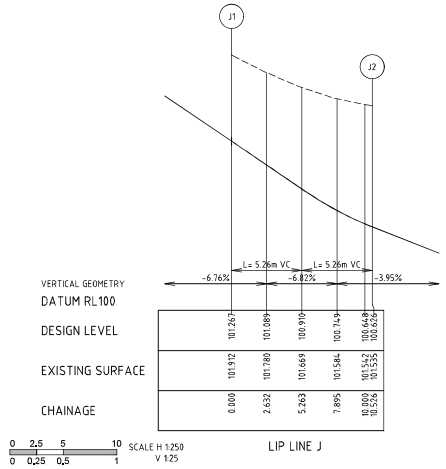

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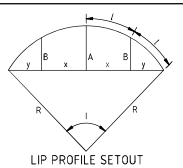

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Wyndham Planning Scheme

Approved Plan As Required under Condition 26
Permit No WYP14036/23
Date 25/06/2026

Alignment I

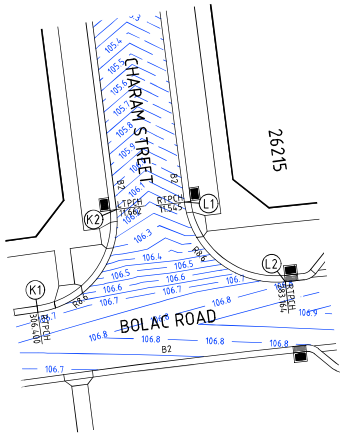
Point no	Easting	Northing	RL
I1	283396.093	5814346.269	101.267
I2	283388.814	5814361.892	100.415

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
I1 - I2	70.130	15.000	18.360	2.722	2.026	4.519	4.099	4.590	100.777

Alignment J

Point no	Easting	Northing	RL
J1	283389.792	5814347.390	101.267
J2	283385.619	5814356.347	100.626

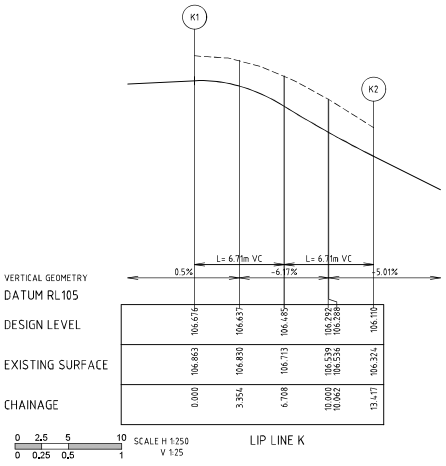
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
J1 - J2	70.130	8.600	10.526	1.561	1.161	2.591	2.350	2.632	100.910



INTERSECTION DETAIL PLAN

CHARAM STREET & GREEN HILL ROAD

SCALE 1:250 0 2.5 5 10



0 2.5 5 10 SCALE H 1:250

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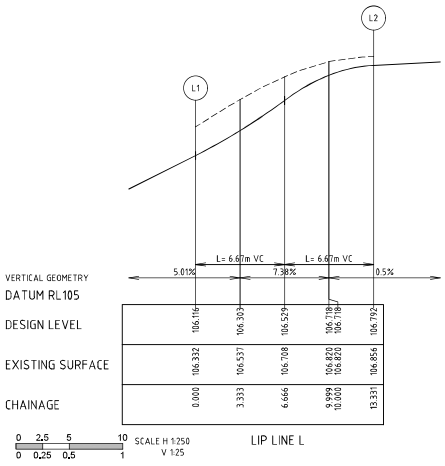
LIP LINE K



0 2.5 5 10 SCALE H 1:250

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LIP LINE L

Alignment K

Point no	Easting	Northing	RL
K1	283160.664	5814281.913	106.676
K2	283168.008	5814291.526	106.110

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
K1 - K2	89.386	8.600	13.417	2.486	1.841	3.270	2.779	3.354	106.485

Alignment L

Point no	Easting	Northing	RL
L1	283174.370	5814292.225	106.116
L2	283183.819	5814284.770	106.792

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
L1 - L2	88.817	8.600	13.331	2.456	1.819	3.250	2.768	3.333	106.529

No.	REVISION	DATE	DES/DFT	APPROVED
D	AMENDED TO COUNCILS COMMENTS	27.05.26	AA	MR
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

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RESIMAX GROUP

Approved for Construction

Melway Reference
226 B4

Principal
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Designed
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Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
INTERSECTION DETAIL PLAN
SHEET 3 OF 4

Drawing No: 24041-26D-19

Revision: D

Sheet No: 19 of 33

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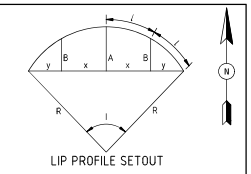

Planning and Environment Act 1987
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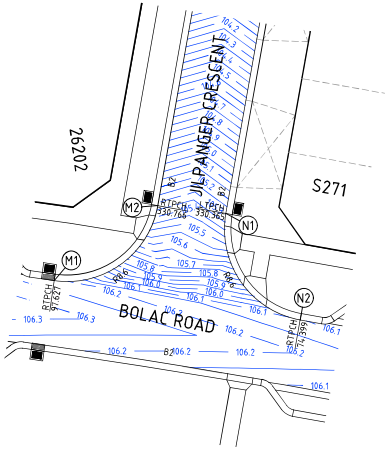
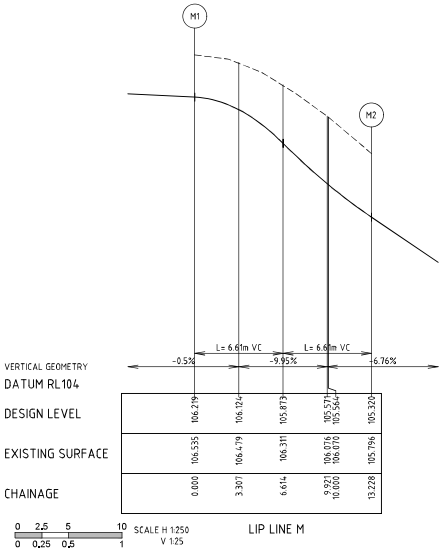
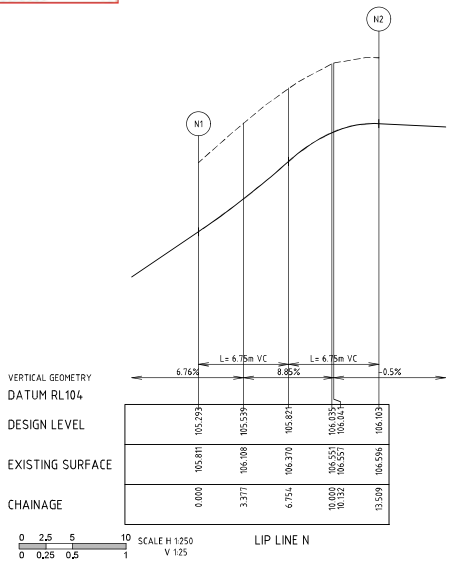
Approved Plan As Required
under Condition 26
Permit No WYP14036/23
Date 25/06/2026



INTERSECTION DETAIL PLAN
JILPANGER CRESCENT & GREEN HILL ROAD
SCALE 1:250 0 2.5 5 10





Alignment M

Point no	Easting	Northing	RL
M1	283369.604	5814281.397	106.219
M2	283379.300	5814288.403	105.320

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
M1 - M2	88.129	8.600	13.228	2.420	1.792	3.226	2.755	3.307	105.873

Alignment N

Point no	Easting	Northing	RL
N1	283385.671	5814287.677	105.293
N2	283392.632	5814277.704	106.103

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
N1 - N2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	105.821

No.	REVISION	DATE	DES/DFT	APPROVED
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

RESIMAX GROUP

Approved for Construction

Melway Reference
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Principal
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MELBOURNE VIC 3000

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Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP
STAGE 26D
WYNDHAM CITY COUNCIL
INTERSECTION DETAIL PLAN
SHEET 4 OF 4

Drawing No: 24041-26D-20
Revision: C
Sheet No: 20 of 33
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LEGEND

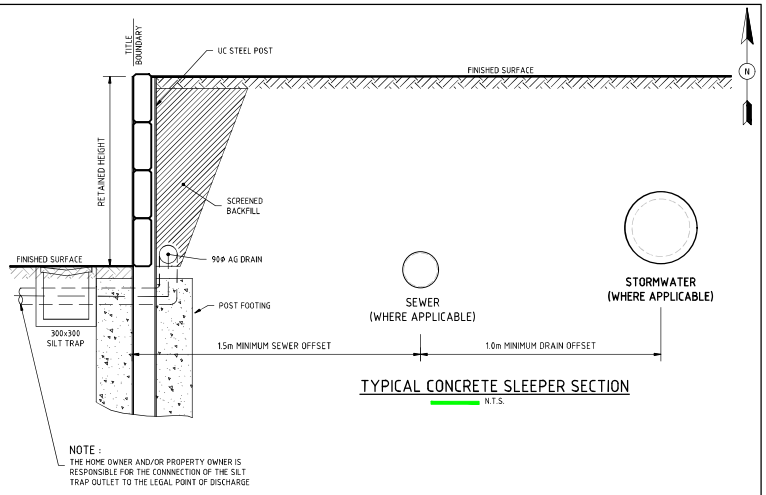
- DESIGN CONTOURS
- BATTER LINE
- BW160.20 BOTTOM WALL LEVEL
- TW160.20 TOP WALL LEVEL
- FP160.20 FINISHED PAD LEVEL
- CONCRETE SLEEPER RETAINING WALL
- ROCK WALL RETAINING WALL

REFEER TO STRUCTURAL DRAWING SET FOR RETAINING WALL DETAILS, INCLUDING FOOTING AND BACKFILL REQUIREMENTS

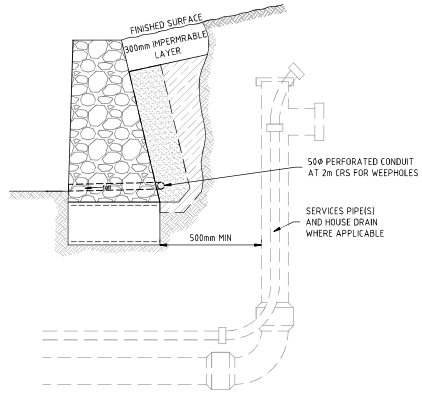
Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 26
Permit No WYP14035/23
Date 25/06/2026





TYPICAL CONCRETE SLEEPER SECTION
N.T.S.



TYPICAL ROCK RETAINING WALL
N.T.S.

No.	REVISION	DATE	DES/DFT	APPROVED
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

RESIMAX GROUP

Approved for Construction

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226 B4

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Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP
STAGE 26D
WYNDHAM CITY COUNCIL
RETAINING WALL PLAN
SHEET 1 OF 2

Drawing No: 24041-26D-21
Revision: C
Sheet No: 21 of 33
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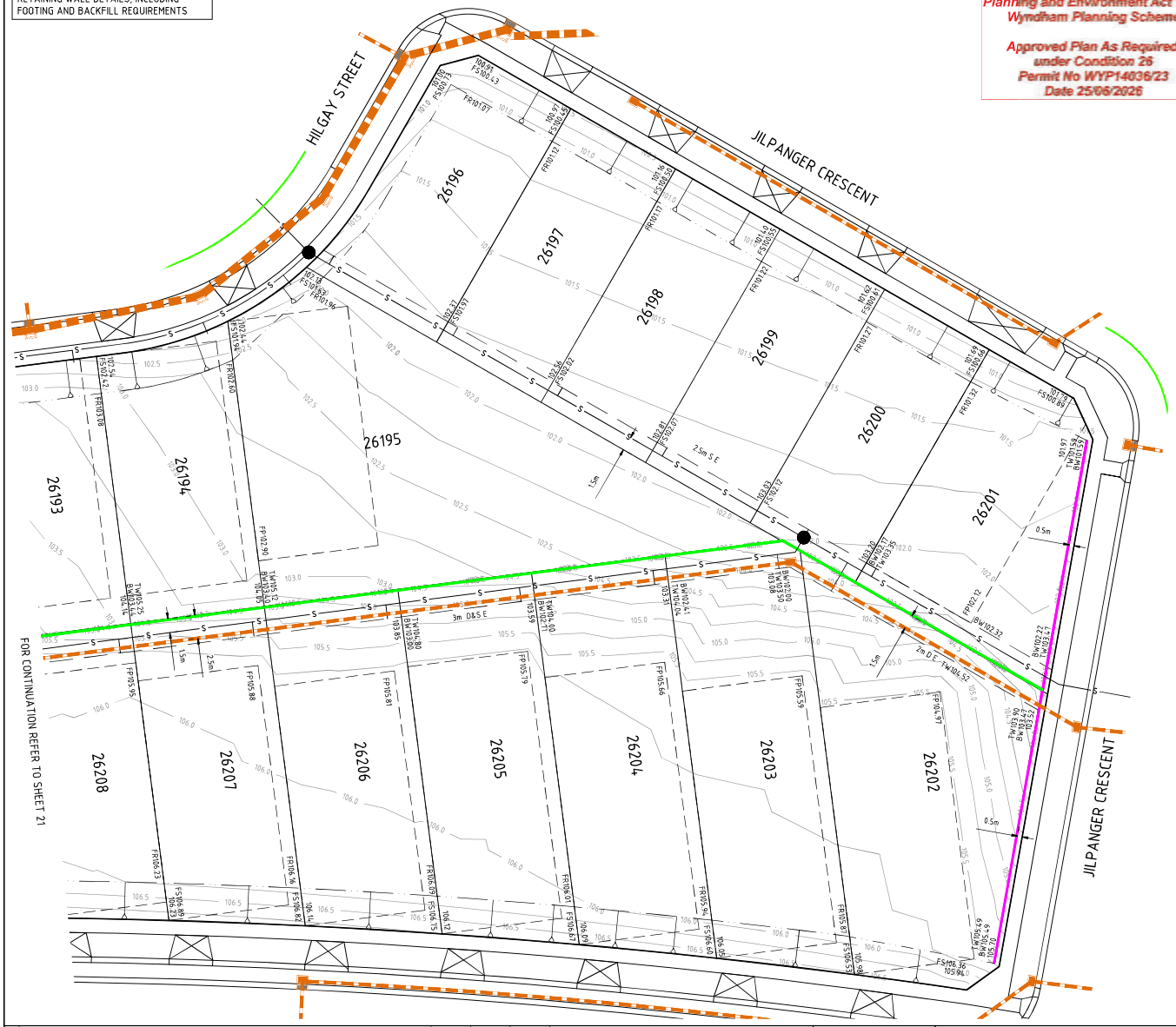
LEGEND

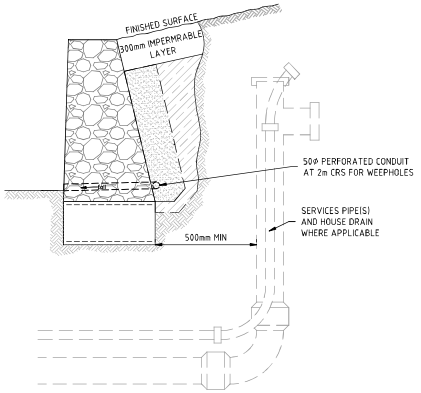
- DESIGN CONTOURS
- BATTER LINE
- BW160.20 BOTTOM WALL LEVEL
- TW160.20 TOP WALL LEVEL
- FP160.20 FINISHED PAD LEVEL
- CONCRETE SLEEPER RETAINING WALL
- ROCK WALL RETAINING WALL

REFEER TO STRUCTURAL DRAWING SET FOR RETAINING WALL DETAILS, INCLUDING FOOTING AND BACKFILL REQUIREMENTS

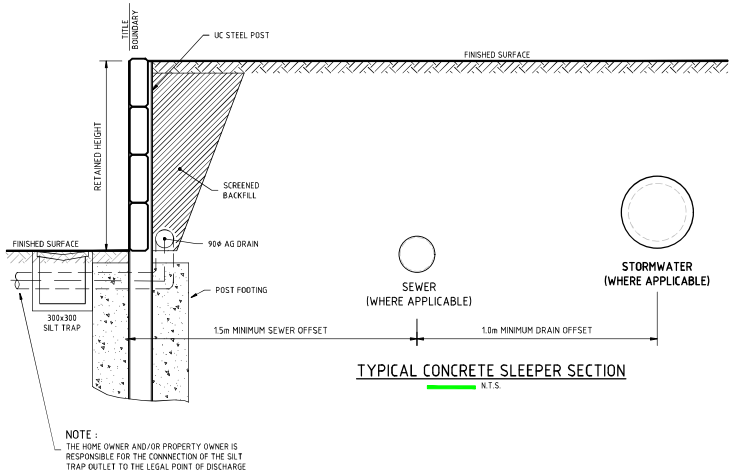
Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 26 Permit No WYP14036/23 Date 25/06/2026





TYPICAL ROCK RETAINING WALL
N.T.S.



TYPICAL CONCRETE SLEEPER SECTION
N.T.S.

NOTE :
THE HOME OWNER AND/OR PROPERTY OWNER IS RESPONSIBLE FOR THE CONNNECTION OF THE SILT TRAP OUTLET TO THE LEGAL POINT OF DISCHARGE

No.	REVISION	DATE	DES/DFT	APPROVED
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

RESIMAX GROUP

Approved for Construction

Melway Reference
226 B4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
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Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3429
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
RETAINING WALL PLAN
SHEET 2 OF 2

Drawing No: 24041-26D-22
Revision: C
Sheet No: 22 of 33
Scale @ A1 1:250 (0, 2.5, 5, 10)

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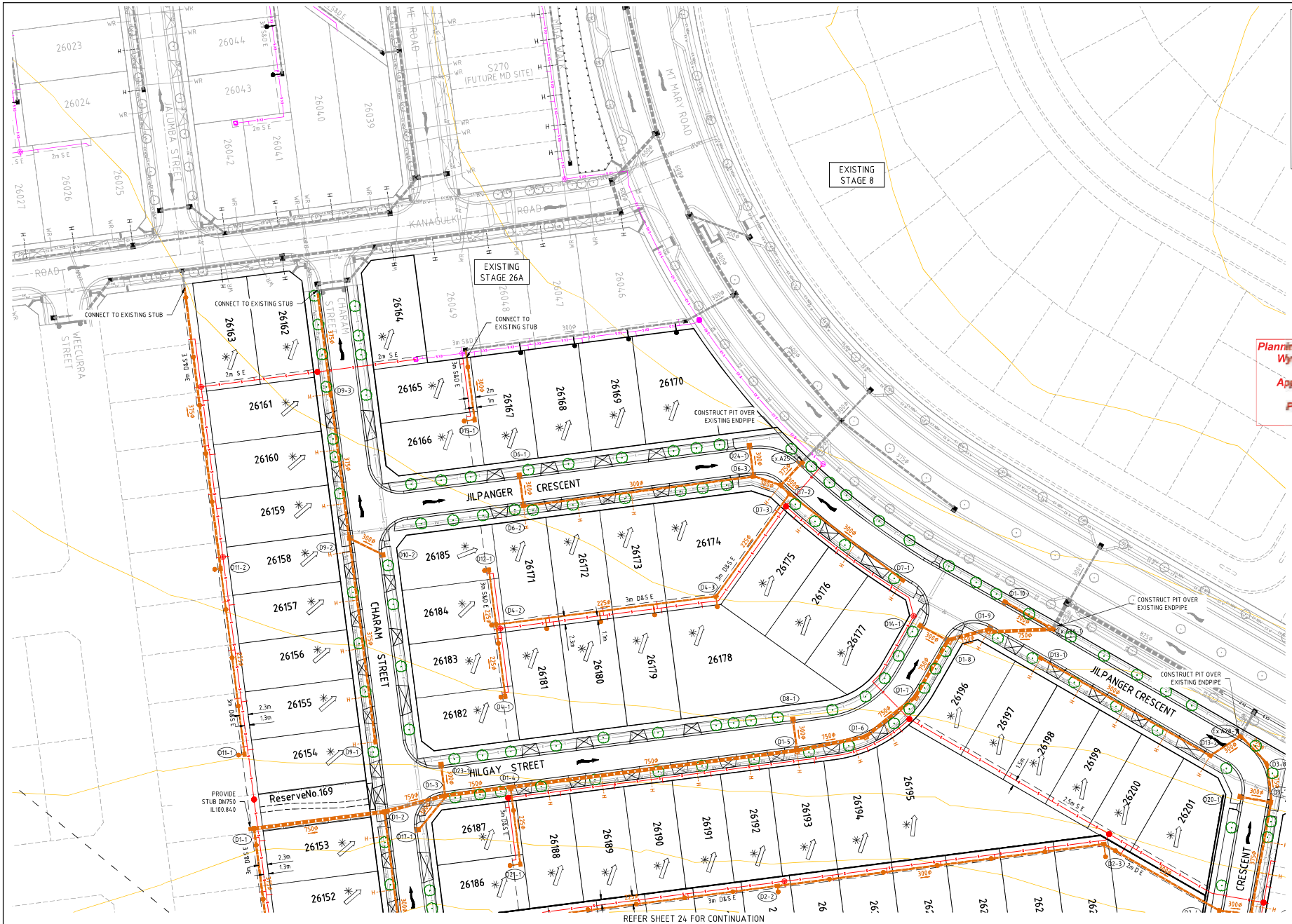
ABN 62 525 443 156

file name 24041-26D-21-22.dwg layout name 22 file location L:\Work\Eno\24041 Eynesbury\Stage 26\Stage 26D\Drawings



No.	REVISION	DATE	DES/DFT	APPROVED
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	UPDATED IN ACCORDANCE WITH COUNCIL COMMENTS DATED 08.01.26	26.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

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Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
DRAINAGE DETAIL PLAN
SHEET 1 OF 2

Drawing No: 24041-26D-23

Revision: C

Sheet No: 23 of 33

Scale @ A1
1:500
0 5 10 20

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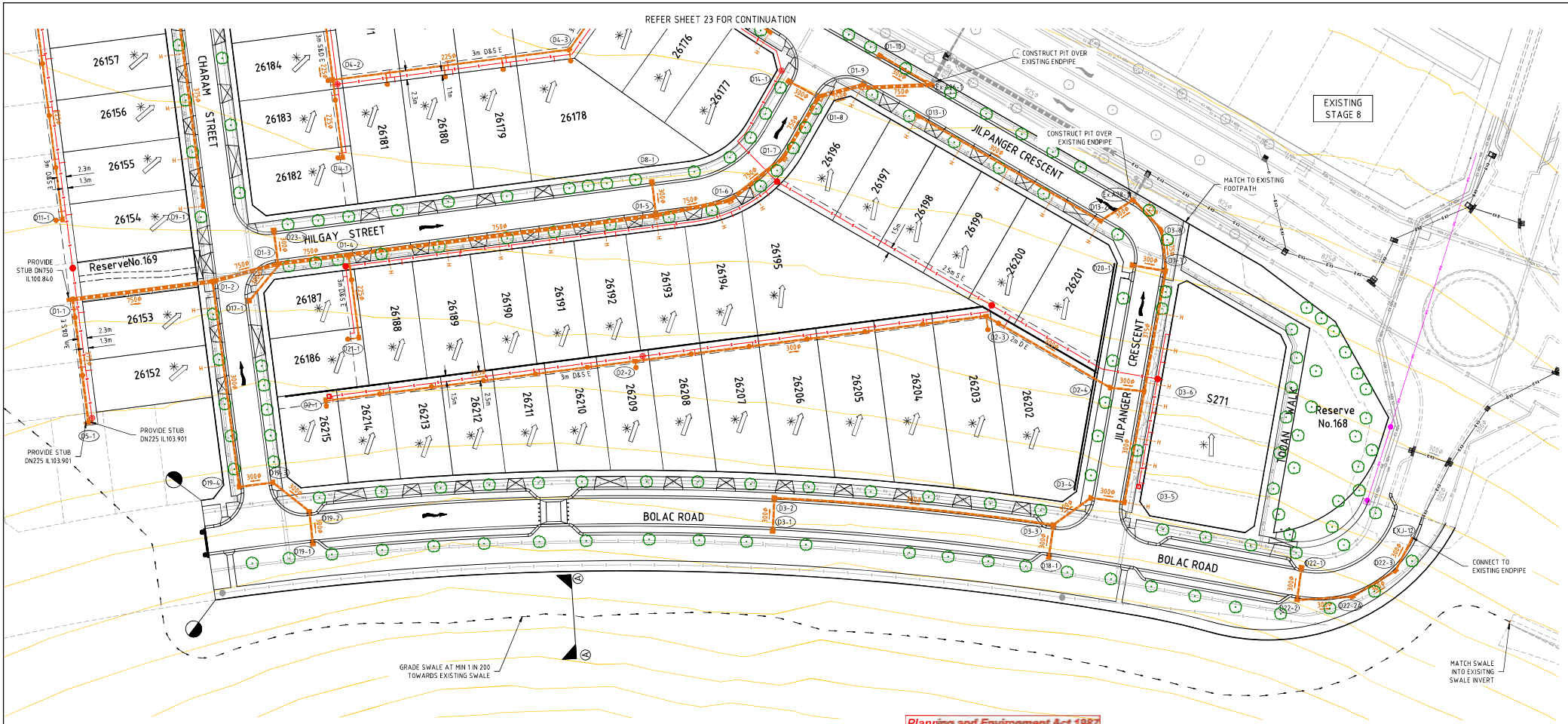
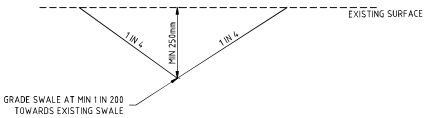
ABN 62 525 443 156

file name 24041-26D-23-24.dwg layout name 23 file location L:\Work\Eng\24041 Eynesbury\Stage 26\Stage 26D\Drawings





TYPICAL SWALE DETAIL
SECTION A-A
N.T.S.

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required under Condition 26
Permit No WYP14036/23
Date 25/06/2026

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- HOUSE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- EXISTING SURFACE CONTOUR
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- PROPOSED DRIVEWAY
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- SERVICE TO BE REMOVED
- WATER
- RECYCLE WATER / NON DRINKING WATER
- TELSTRA
- ELECTRICITY (UNDERGROUND)

No.	REVISION	DATE	DES/DFT	APPROVED
D	AMENDED TO COUNCILS COMMENTS	12.06.26	AA	MR
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

RESIMAX GROUP

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Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
DRAINAGE DETAIL PLAN
SHEET 2 OF 2

Drawing No: 24041-26D-24
Revision: D
Sheet No: 24 of 33
Scale @ A1 0 5 10 20
N.T.S

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ABN 62 525 443 156

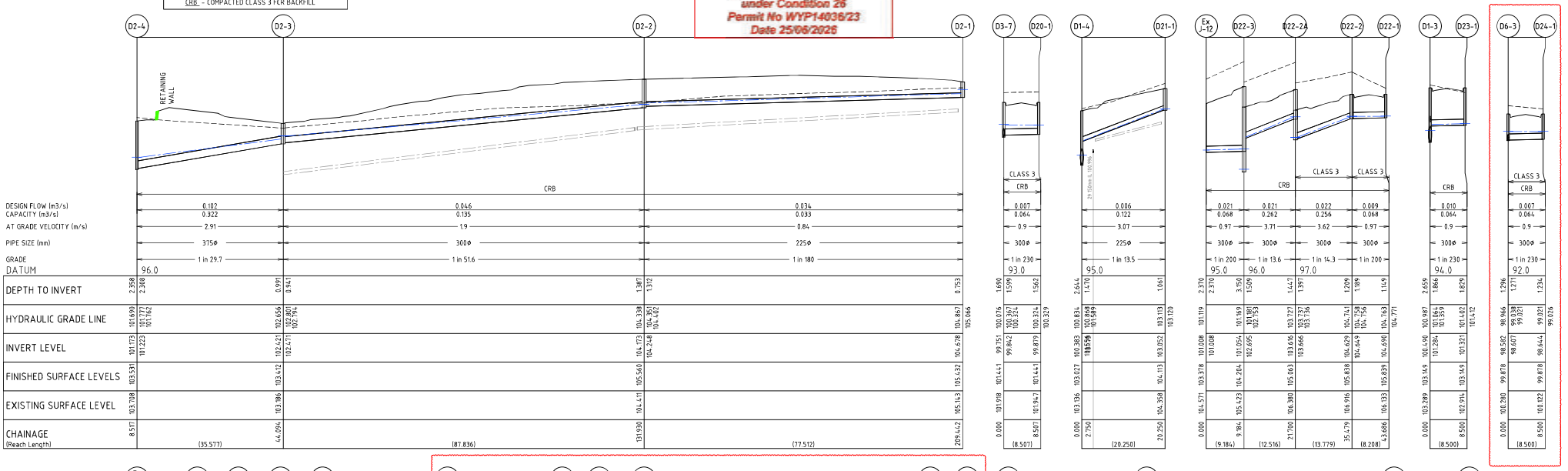
file name 24041-26D-23-24.dwg layout name 24 file location L:\Work\Eng\24041 Eynesbury\Stage 26\Stage 26D\Drawings

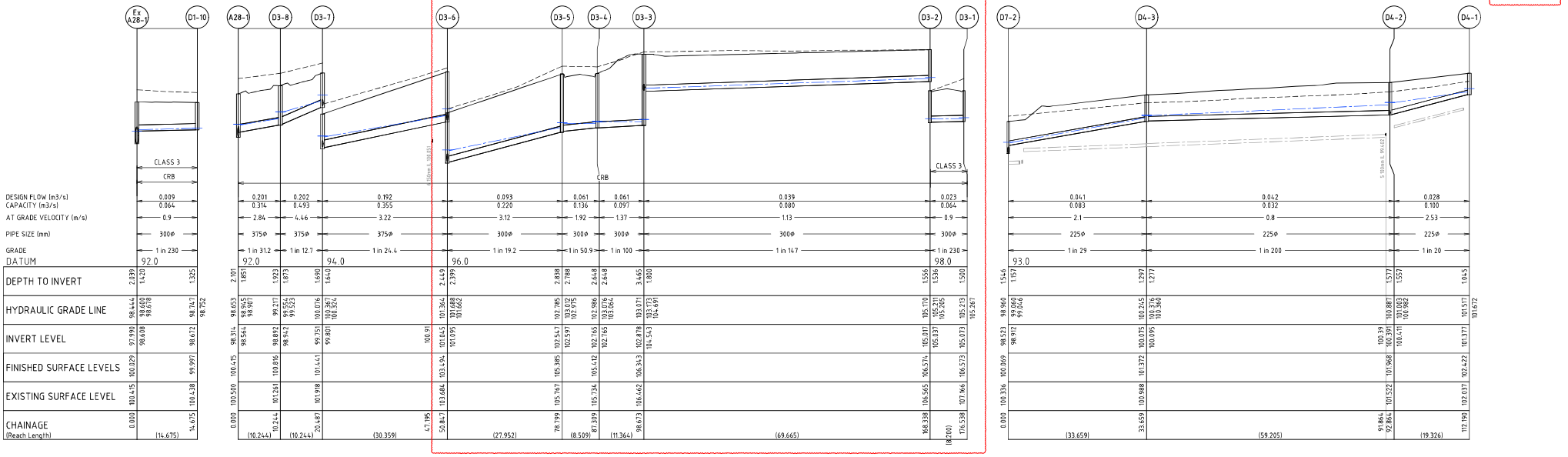
ALL STORMWATER DRAINS ARE TO BE CLASS 2 R.C. OR RIGID F.R.C PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED. INTERLOCKING/FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- PROPOSED EASEMENT SEWER

CRB - COMPACTED CLASS 3 FCR BACKFILL

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required under Condition 26
Permit No WYP14036/23
Date 25/06/2026





No.	REVISION	DATE	DES/DFT	APPROVED
D	DRAINAGE PIPE SECTIONS UPDATED	24.06.26	AA	MR
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	UPDATED IN ACCORDANCE WITH COUNCIL COMMENTS DATED 08.01.26	26.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

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Designed
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Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
DRAINAGE LONGITUDINAL SECTIONS
SHEET 1 OF 3

Drawing No: 24041-26D-25
Revision: D
Sheet No: 25 of 33
Scale @ A1 0 5 10 20
H1:500, V1:100 0 1 2 4

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ABN 62 525 443 156

file name 24041-26D-25-28.dwg layout name 25 file location L:\Work\Eng\24041 Eynesbury\Stage 26\Stage 26D\Drawings

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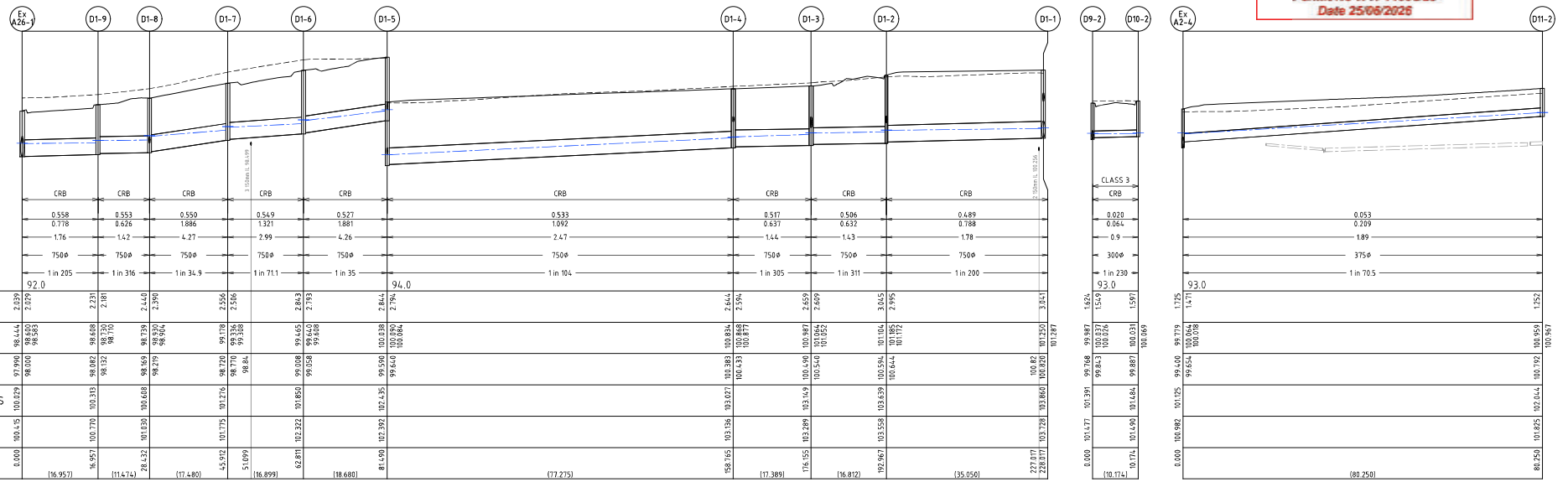
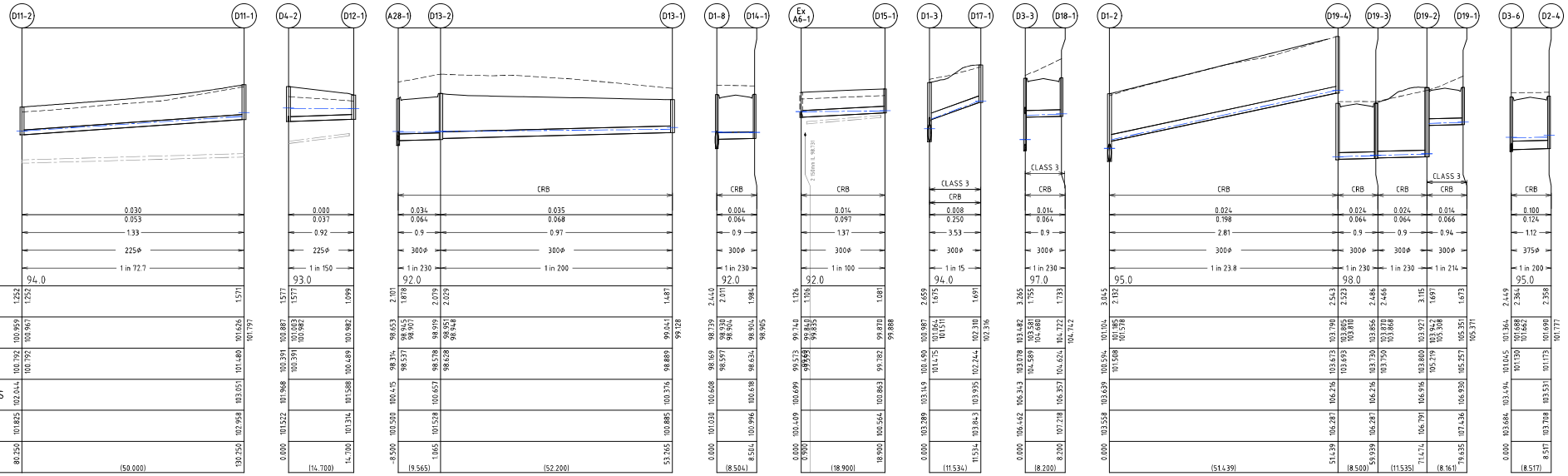
LEGEND
- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- PROPOSED EASEMENT SEWER

CRB - COMPACTED CLASS 3 FCR BACKFILL

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required under Condition 26
Permit No WYP14036/23
Date 25/06/2026





No.	REVISION	DATE	DES/DFT	APPROVED
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	UPDATED IN ACCORDANCE WITH COUNCIL COMMENTS DATED 08.01.26	26.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

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Melway Reference
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Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
DRAINAGE LONGITUDINAL SECTIONS
SHEET 2 OF 3

Drawing No: 24041-26D-26
Revision: C
Sheet No: 26 of 33
Scale @ A1 0 5 10 20
H1:500, V1:100 0 1 2 4

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ABN 62 525 443 156

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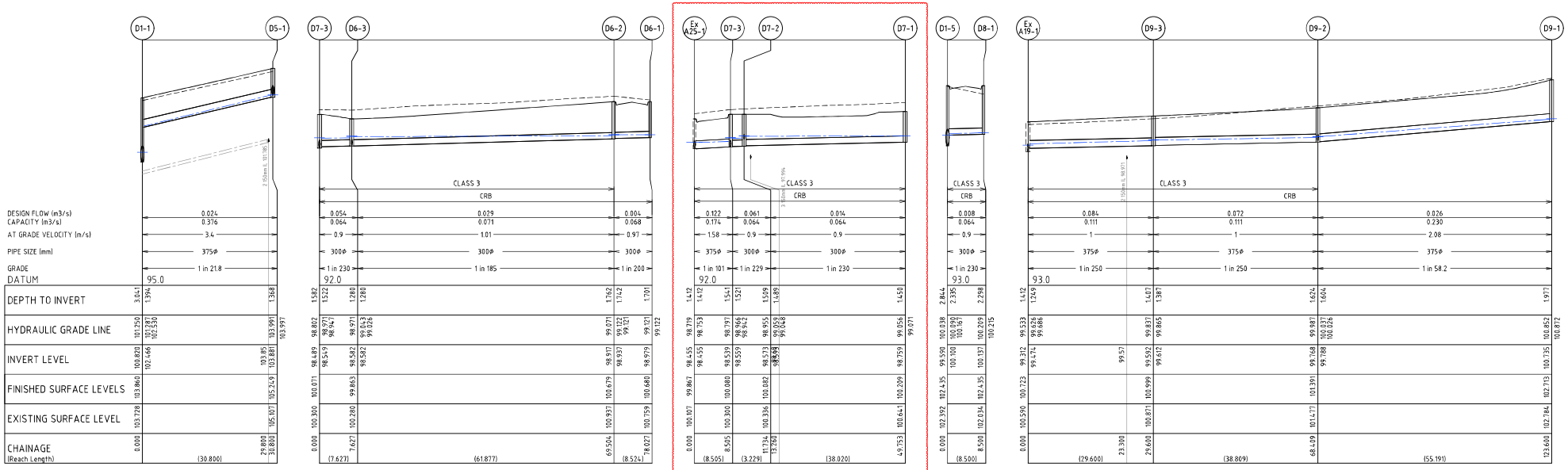

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LEGEND
- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- PROPOSED EASEMENT SEWER

CRB - COMPACTED CLASS 3 FCR BACKFILL

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 26
Permit No WYP14036/23
Date 25/06/2026

No.	REVISION	DATE	DES/DFT	APPROVED
D	PIPE SECTION UPDATED	24.06.26	AA	MR
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	UPDATED IN ACCORDANCE WITH COUNCIL COMMENTS DATED 08.01.26	26.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR

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Melway Reference
226 B4

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Designed
A. AMIN

Checked
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Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
DRAINAGE LONGITUDINAL SECTIONS
SHEET 3 OF 3

Drawing No: 24041-26D-27
Revision: D
Sheet No: 27 of 33
Scale @ A1 0 5 10 20
H1:500, V1:100 0 1 2 4

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ABN 62 525 443 156

file name 24041-26D-25-28.dwg layout name 27 file location L:\Work\Eng\24041 Eynesbury\Stage 26\Stage 26D\Drawings

PIT		INTERNAL		INLET		OUTLET		PIT			
NAME	TYPE	WD	LEN	DIA	INVLEV	DIA	INVLEV	SETOUT RL	DEPTH	STD DWG	REMARKS
ExA25-1	DOUBLE SEP	600	2100	375	98.455	375	98.455	99.818	1.363	EDCM 604	CONSTRUCT PIT OVER EXISTING END PIPE
ExA26-1	SIDE ENTRY PIT	600	900	300	98.537	450	98.314	100.413	2.099	EDCM 603	CONSTRUCT PIT OVER EXISTING END PIPE
				375	98.564						
EXA26-1	JUNCTION PIT	2100	600	750	98	825	97.99	100.029	2.339	EDCM 605 & 607	CONSTRUCT PIT OVER EXISTING END PIPE
D1-9	JUNCTION PIT	1350	900	750	98.132	750	98.082	100.313	2.231	EDCM 603 & 607	
D1-8	SIDE ENTRY PIT	1200	900	750	98.219	750	98.169	100.608	2.44	EDCM 603 & 607	
				300	98.597					EDCM 603 & 607	
D1-7	JUNCTION PIT	1050	900	750	98.77	750	98.72	101.276	2.556	EDCM 603 & 607	
D1-6	JUNCTION PIT	1050	900	750	99.058	750	99.008	101.85	2.843	EDCM 603 & 607	
D1-5	SIDE ENTRY PIT	1050	900	750	99.64	750	99.59	102.435	2.844	EDCM 603 & 607	
				300	100.1					EDCM 603 & 607	
D1-4	JUNCTION PIT	1050	900	750	100.433	750	100.383	103.027	2.644	EDCM 603 & 607	
				225	101.556						
D1-3	JUNCTION PIT	600	900	750	100.54	750	100.49	103.149	2.659	EDCM 605	
				300	101.475						
				300	101.284						
D1-2	SIDE ENTRY PIT	600	900	750	100.644	750	100.594	103.639	3.045	EDCM 603	
				300	101.508						
D1-1	JUNCTION PIT	600	900			750	100.82	103.86	3.041	EDCM 605	
				375	102.466						
				750	100.84						
D10-2	SIDE ENTRY PIT	600	900			300	99.887	101.484	1.597	EDCM 603	
D11-2	JUNCTION PIT	600	900	225	100.792	375	100.792	102.044	1.252	EDCM 605	
D11-1	JUNCTION PIT	600	900			225	101.48	103.051	1.571	EDCM 605	
D12-1	JUNCTION PIT	600	900			225	100.489	101.588	1.099	EDCM 605	
D13-2	SIDE ENTRY PIT	600	900	300	98.628	300	98.578	100.657	2.079	EDCM 603	
D13-1	JUNCTION PIT	600	900			300	98.889	100.376	1.487	EDCM 605	
D14-1	SIDE ENTRY PIT	600	900			300	98.634	100.618	1.984	EDCM 603	
D15-1	JUNCTION PIT	600	900			300	99.782	100.863	1.381	EDCM 605	
D17-1	SIDE ENTRY PIT	600	900			300	102.244	103.935	1.391	EDCM 603	
D18-1	SIDE ENTRY PIT	600	900			300	104.624	106.357	1.733	EDCM 603	
D19-4	JUNCTION PIT	600	900	300	103.693	300	103.673	106.216	2.543	EDCM 605	
D19-3	JUNCTION PIT	600	900	300	103.75	300	103.73	106.216	2.486	EDCM 605	
D19-2	SIDE ENTRY PIT	600	900	300	105.219	300	103.8	106.916	3.115	EDCM 603	
D19-1	SIDE ENTRY PIT	600	900			300	105.257	106.93	1.673	EDCM 603	
D2-4	JUNCTION PIT	600	900	375	101.223	375	101.173	103.531	2.358	EDCM 605	
D2-3	JUNCTION PIT	600	900	300	102.471	375	102.42	103.412	0.991	EDCM 605	
D2-2	JUNCTION PIT	600	900	225	104.248	300	104.173	105.56	1.387	EDCM 605	
D2-1	JUNCTION PIT	600	900			225	104.678	105.432	0.753	EDCM 605	
D20-1	SIDE ENTRY PIT	600	900			300	99.879	101.441	1.562	EDCM 603	
D21-1	JUNCTION PIT	600	900			225	103.052	104.113	1.061	EDCM 605	
EXJ-12	Ex END PIPE			300	101.008			103.378	2.37		CONNECT TO EXISTING END PIPE
D22-3	JUNCTION PIT	600	900	300	102.695	300	101.054	104.204	3.15	EDCM 605	
D22-2A	JUNCTION PIT	600	900	300	103.666	300	103.616	105.063	1.447	EDCM 605	
D22-2	SIDE ENTRY PIT	600	900	300	104.649	300	104.629	105.838	1.209	EDCM 603	PROVIDE DEFLECTOR AT BASE OF PIT
D22-1	SIDE ENTRY PIT	600	900			300	104.69	105.839	1.149	EDCM 603	
D23-1	SIDE ENTRY PIT	600	900			300	101.32	103.149	1.829	EDCM 603	
D24-1	SIDE ENTRY PIT	600	900			300	98.644	99.878	1.234	EDCM 603	
D1-10	SIDE ENTRY PIT	600	900			300	98.672	99.997	1.325	EDCM 605	
D3-8	JUNCTION PIT	600	900	375	96.942	375	98.892	100.816	1.923	EDCM 603	
D3-7	SIDE ENTRY PIT	600	900	375	99.801	375	99.75	101.441	.69	EDCM 605	
				300	99.842						
D3-6	JUNCTION PIT	600	900	300	101.095	375	101.045	103.494	2.449	EDCM 605	
				375	101.13						
D3-5	JUNCTION PIT	600	900	300	102.597	300	102.547	105.385	2.338	EDCM 605	
D3-4	JUNCTION PIT	600	900	300	102.765	300	102.765	105.412	2.348	EDCM 605	
D3-3	SIDE ENTRY PIT	600	900	300	104.543	300	102.878	106.343	3.465	EDCM 603	
				300	104.589						
D3-2	SIDE ENTRY PIT	600	900	300	105.037	300	105.017	106.574	1.556	EDCM 603	
D3-1	SIDE ENTRY PIT	600	900			300	105.073	106.573	1.5	EDCM 603	
D4-3	JUNCTION PIT	600	900	225	100.095	225	100.075	101.372	1.297	EDCM 605	
D4-2	JUNCTION PIT	600	900	225	100.411	225	100.39	101.968	1.577	EDCM 605	
				225	100.391						
D4-1	JUNCTION PIT	600	900			225	101.377	102.422	1.045	EDCM 605	
D5-1	JUNCTION PIT	600	900			375	103.88	105.249	1.368	EDCM 605	
				375	104.034						
				375	104.008						
D6-3	SIDE ENTRY PIT	600	900	300	98.582	300	98.582	99.878	1.296	EDCM 603	
				300	98.607						
D6-2	SIDE ENTRY PIT	600	900	300	98.937	300	98.917	100.679	1.762	EDCM 605	
D6-1	JUNCTION PIT	600	900			300	98.979	100.68	1.701	EDCM 605	
D7-3	JUNCTION PIT	600	900	300	98.559	375	98.539	100.08	1.541	EDCM 605	
				300	98.549						
D7-2	JUNCTION PIT	600	900	300	98.593	300	98.573	100.082	1.509	EDCM 605	
				225	98.912						
D7-1	JUNCTION PIT	600	900			300	98.759	100.209	.45	EDCM 605	
D8-1	SIDE ENTRY PIT	600	900			300	100.137	102.435	2.298	EDCM 603	
D9-3	JUNCTION PIT	600	900	375	99.612	375	99.592	100.999	1.407	EDCM 605	
D9-2	SIDE ENTRY PIT	600	900	375	99.788	375	99.768	101.391	1.524	EDCM 603	
				300	99.843						
D9-1	JUNCTION PIT	600	900			375	100.735	102.713	1.977	EDCM 605	

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
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No.	REVISION	DATE	DES/DFT	APPROVED
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A	ISSUED FOR APPROVAL	04.12.25	AA	MR

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MELBOURNE VIC 3000

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Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3429
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP
STAGE 26D
WYNDHAM CITY COUNCIL
DRAINAGE PIT SCHEDULE

Drawing No: 24041-26D-28
Revision: D
Sheet No: 28 of 33
Scale @ A1
N.T.S

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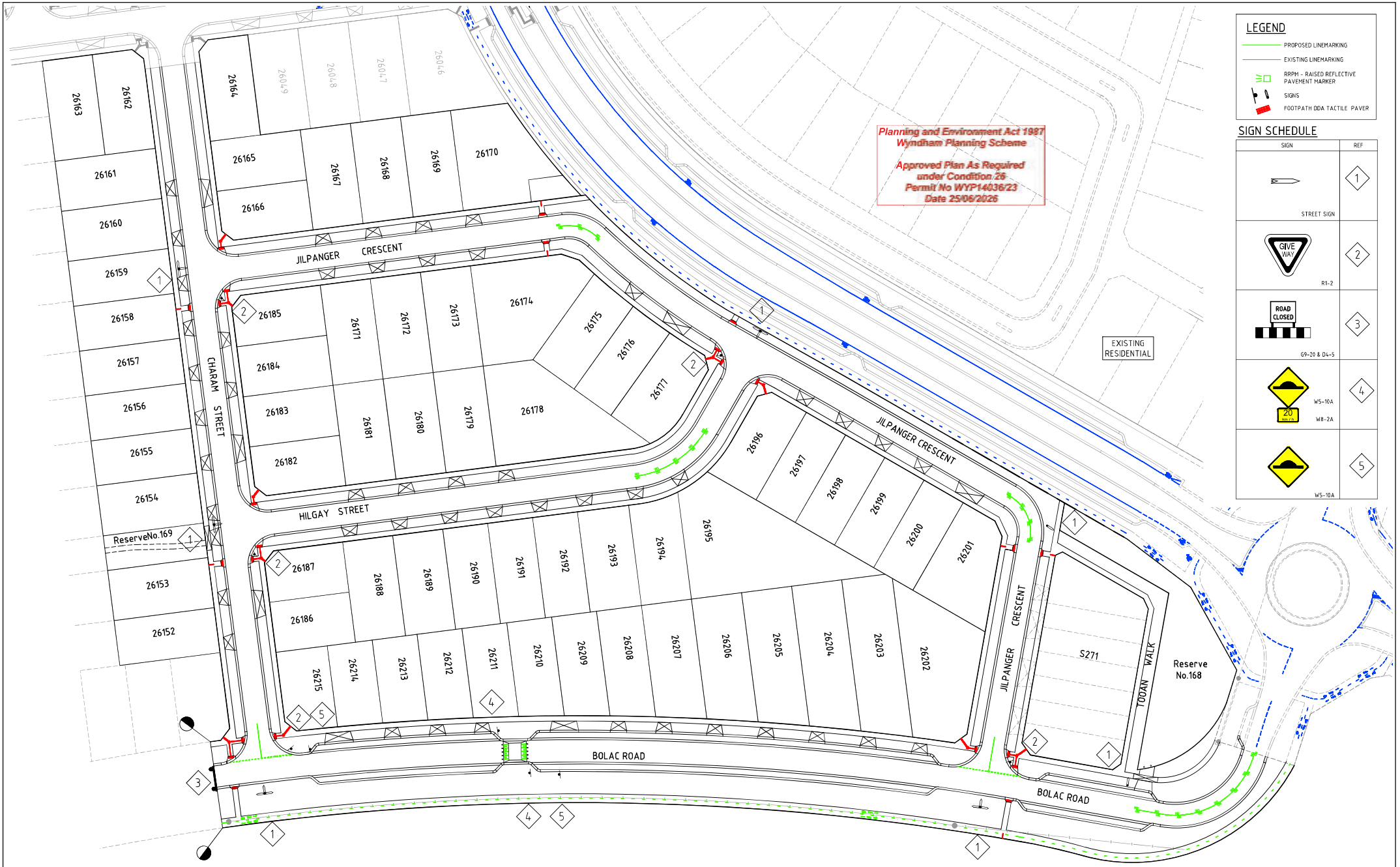
ABN 62 525 443 156

file name 24041-26D-25-28.dwg layout name 28 file location L:\Work\Eng\24041 Eynesbury\Stage 26\Stage 26D\Drawings



D	AMENDED TO COUNCILS COMMENTS	27.05.26	AA	MR
C	CONSTRUCTION ISSUE	07.05.26	AA	MR
B	AMENDED TO COUNCILS COMMENTS	06.03.26	AA	MR
A	ISSUED FOR APPROVAL	04.12.25	AA	MR
No.	REVISION	DATE	DES/DFT	APPROVED

RESIMAX GROUP

Approved for Construction

Melway Reference
226 B4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

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Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
SIGNAGE & LINE MARKING PLAN

Drawing No: 24041-26D-29
Revision: D
Sheet No: 29 of 33
Scale @ A1 1:500 (0 5 10 20)

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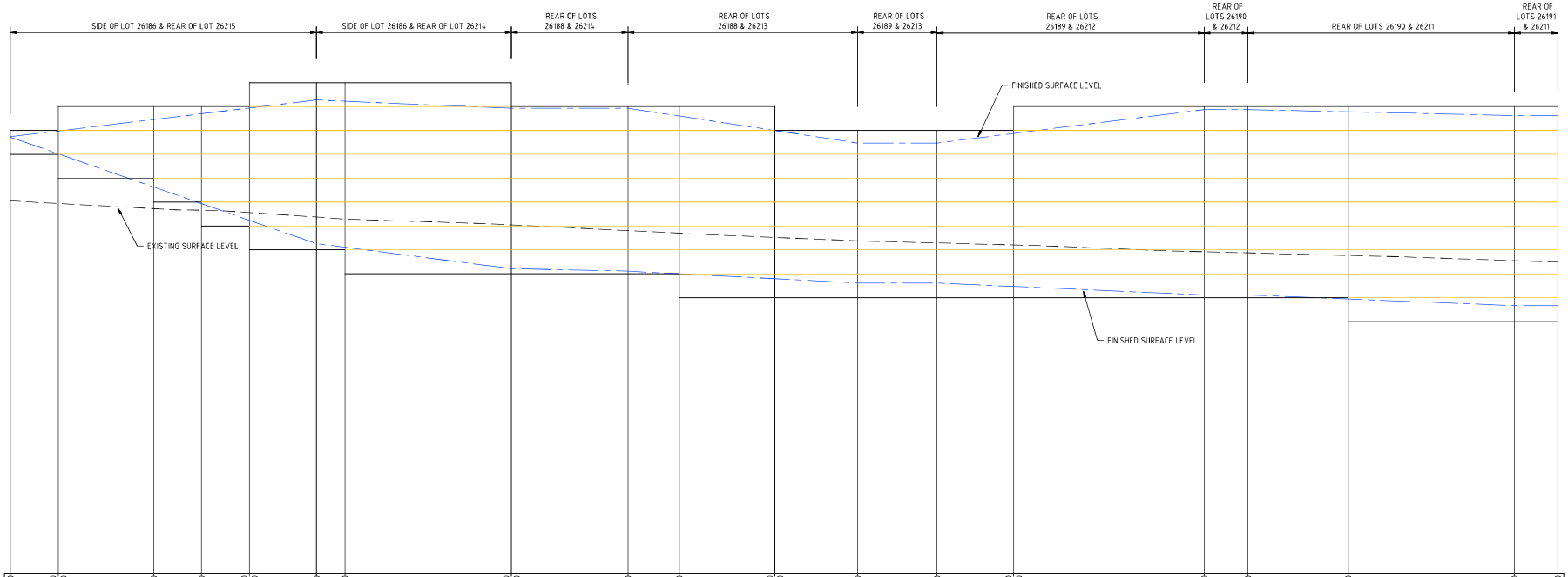
ABN 62 525 443 156

file name 24041-26D-29.dwg layout name 29 file location L:\Work\Eng\24041 Eynesbury\Stage 26\Stage 26D\Drawings

LEGEND
EXISTING SURFACE
DESIGN SURFACE

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 26
Permit No WYP14036/23
Date 25/06/2026



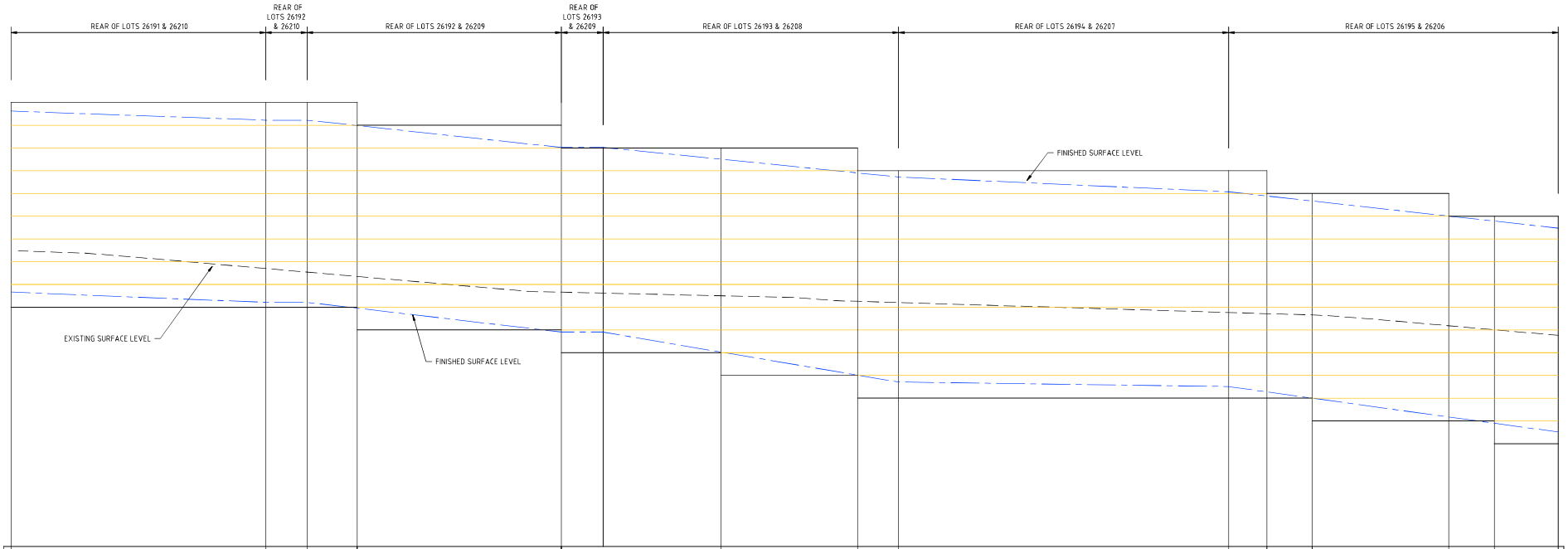
HORIZONTAL GEOMETRY
DATUM RL102

| | | |

LEGEND
EXISTING SURFACE
DESIGN SURFACE

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 26
Permit No WYP14036/23
Date 25/06/2026



HORIZONTAL GEOMETRY
DATUM RL102

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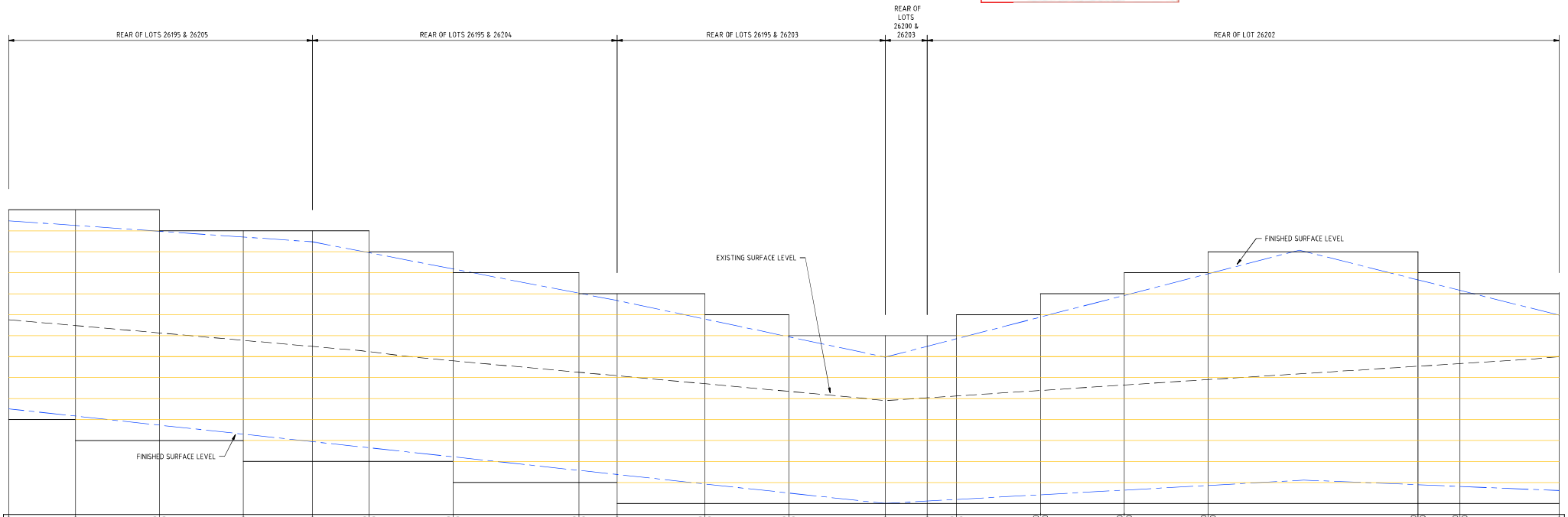
LEGEND
EXISTING SURFACE
DESIGN SURFACE

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 26
Permit No WYP14036/23
Date 25/06/2026



HORIZONTAL GEOMETRY
DATUM RL102

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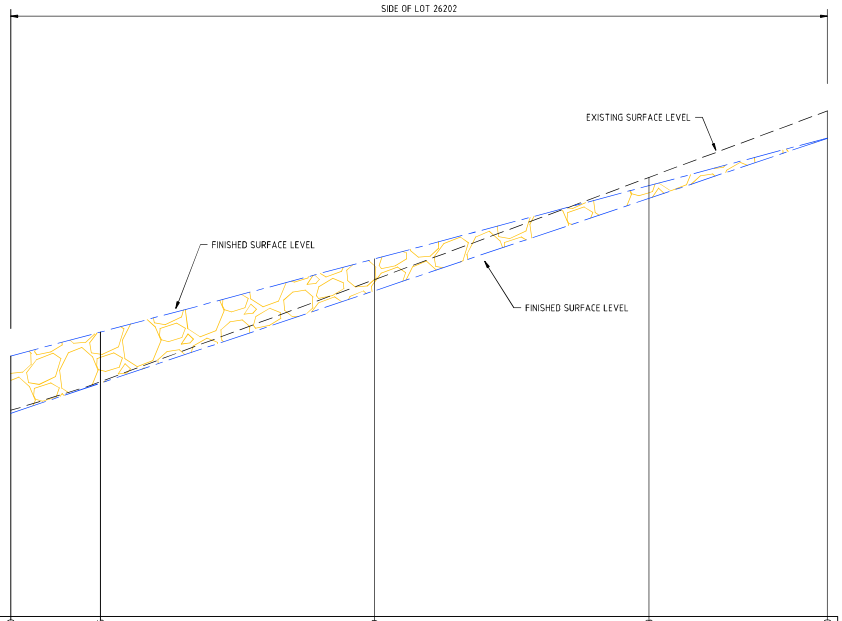
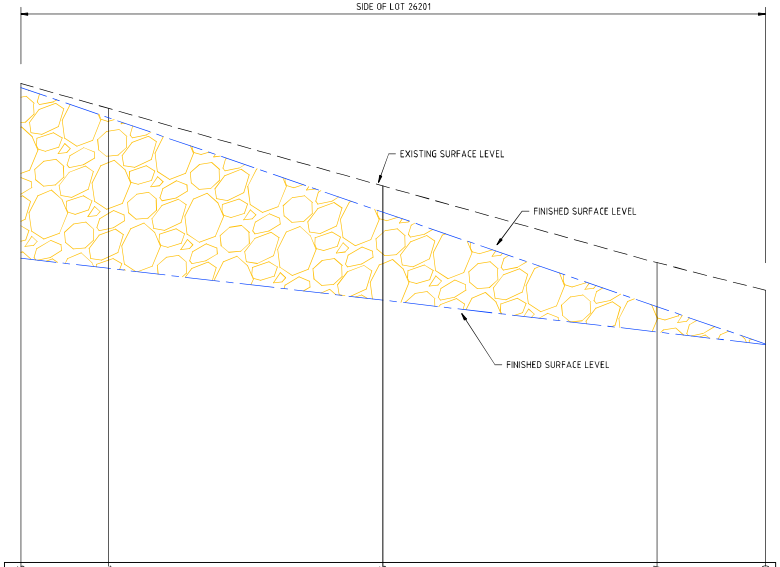
LEGEND
EXISTING SURFACE
DESIGN SURFACE

Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 26
Permit No WYP14035/23
Date 25/06/2026



HORIZONTAL GEOMETRY					
DATUM RL102					
TOP OF WALL	103.900	104.079	104.609	105.143	105.490
BOTTOM OF WALL	103.482	103.703	104.376	105.049	105.490
EXISTING SURFACE	103.505	103.713	104.458	105.203	105.688
CHAINAGE	206.730	210.000	220.000	230.000	236.508



HORIZONTAL GEOMETRY					
DATUM RL100					
TOP OF WALL	103.465	103.254	102.556	101.867	101.590
BOTTOM OF WALL	102.220	102.146	101.914	101.682	101.590
EXISTING SURFACE	103.493	103.312	102.747	102.187	101.986
CHAINAGE	206.802	210.000	220.000	230.000	233.951

No.	REVISION	DATE	DES/DFT	APPROVED
B	CONSTRUCTION ISSUE	07.05.26	AA	MR
A	ISSUED FOR APPROVAL	26.03.26	AA	MR

RESIMAX GROUP

Approved for Construction

Melway Reference
226 B4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
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Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
MARCH 2026

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
RETAINING WALL LONG SECTIONS
SHEET 4 OF 4

Drawing No: 24041-26D-33
Revision: B
Sheet No: 33 of 33
Scale @ A1 0 1 2 4
H 1:100, V 1:20 0 0.2 0.4 0.8

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file name 24041-26D-30-33.dwg layout name 33 file location L:\Work\Eng\24041_Eynesbury\Stage 26\Stage 26D\Drawings
plotted by Mark Rossitto plot date 5/11/2026 2:01 PM

creo structures
W. www.creostructures.com.au
E admin@creostructures.com.au

Building Act 1993
Section 238(1)(a)
Building Regulations 2018
Regulation 126

CERTIFICATE OF COMPLIANCE FOR PROPOSED BUILDING WORK

This certificate is issued to **[insert name]*

*Relevant building surveyor *Municipal building surveyor *Private building surveyor

Postal address

Postcode

Email

This certificate is issued in relation to the proposed building work at:

Address of EYNESBURY TOWNSHIP - STAGE 26D

Postcode 3338

Nature of proposed building work

Construction of a new Retaining Wall

*Storeys contained

*Rise in storeys (for Class 2-9 building only)

*Effective height

*Type of construction

Version of BCA applicable to certificate

Building classification

Part of building BCA Classification

Prescribed class of building work for which this certificate is issued:
Design or part of the design of building work relating to structural matter.

Documents setting out the design that is certified by this certificate

Document no.	Revision	Document date	Type of document	Number of pages	Prepared by
260029-S101	**Ø**	**27/05/2026**	**Drawing**	1	Creo Structures
260029-S102	**Ø**	**27/05/2026**	**Drawing**	1	Creo Structures
260029-S120	**Ø**	**27/05/2026**	**Drawing**	1	Creo Structures
260029-S121	**Ø**	**27/05/2026**	**Drawing**	1	Creo Structures
260029-S122	**Ø**	**27/05/2026**	**Drawing**	1	Creo Structures
260029-Computations	**1**	**27/05/2026**	**Computations**	491	Creo Structures

creo structures
W. www.creostructures.com.au
E. admin@creostructures.com.au

The design certified by this certificate complies with the following provisions of Building Act 1993, Building Regulations 2018 or National Construction Code

Act, Regulation or NCC	Section, Regulation, Part, Performance Requirement or other provision
AS/NZS 1170.0	Structural design actions – General principles
AS/NZS 1170.1	Structural design actions – Permanent, imposed and other actions
AS/NZS 1170.2	Structural design actions – Wind actions
AS1170.4	Structural design actions – Earthquake actions
AS 2159	Piling – Design and Installation
AS 3600	Concrete Structures Code
AS 4100	Steel Structures
AS 4678	Earth-retaining Structures
NCC 2022 Amd 1 & 2	Volume 1

Notes

1. The builder/contractor is to provide all temporary structures – barriers, propping and bracing as required to maintain safety and stability during construction. Temporary structures are excluded from this certification.
2. Roof drainage and waterproofing is not part of this certification.
3. Glazing, cladding and associated fixings are not part of this certification.
4. This certification is to be read with project general notes.
5. This certification is not a confirmation that the structural design is complete, nor does it indemnify the tenderer against not allowing for all costs associated with structural elements or members that have not yet been shown on the structural drawings.

I certify that the design set out in the documents listed above complies with the provisions set out above.
I believe that I hold the required skills, experience and knowledge to issue this certificate and can demonstrate this if requested to do so.

Engineer

Name: James Tabban

Address: Level 7, 176 Wellington Parade, East Melbourne, 3002

Email: james.tabban@creostructures.com.au

Building practitioner registration category: Structural & Civil

Professional Engineer Registration: PE0002443

Date of issue of certificate: 3/06/2026

Signature: 

STANDARD NOTES

GENERAL NOTES

G1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECT'S AND OTHER CONSULTANT'S DRAWINGS AND SPECIFICATIONS AND SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.

G2. IF IN DOUBT, VERIFY WITH THE RELEVANT PARTY AS NECESSARY.

G3. REFER ANY DISCREPANCY, AMBIGUITY, OMISSION OR INCONSISTENCY TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH THE WORK.

G4. DO NOT OBTAIN DIMENSIONS BY SCALING THE STRUCTURAL ELEMENTS.

G5. VERIFY ALL SETTING OUT DIMENSIONS WITH THE CONTRACT ADMINISTRATOR.

G6. SETTING OUT DIMENSIONS SHALL BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION/FABRICATION. WHO SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS.

G7. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE NCC (BUILDING CODE OF AUSTRALIA (BCA)), THE APPROPRIATE AUSTRALIAN STANDARDS, THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

G8. DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS NOTED OTHERWISE.

G9. WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL WORKCOVER REQUIREMENTS AND THE WORK HEALTH AND SAFETY ACT AND THE WORK HEALTH AND SAFETY REGULATION.

G10. CONSTRUCTION SHALL NOT COMMENCE UNTIL THE RELEVANT CONSTRUCTION CERTIFICATE IS ISSUED BY THE PRINCIPAL CERTIFYING AUTHORITY.

G11. SERVICES SHOWN ON DRAWINGS ARE INDICATIVE ONLY. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR IS TO IDENTIFY ALL EXISTING SERVICES. ANY DAMAGES TO THE EXISTING SERVICES ARE TO BE RECTIFIED AT THE CONTRACTOR'S EXPENSE.

G12. DURING CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE STRUCTURES AND EXCAVATIONS ARE MAINTAINED IN A SAFE AND STABLE CONDITION AT ALL TIMES AND NO PART IS TO BE OVERSTRESSED. THE CONTRACTOR SHALL DEVELOP WORK METHOD STATEMENTS FOR ALL ERECTION OF STRUCTURAL STEEL,FORMWORK/DEMOLITION/EXCAVATION/TILT PANELS ETC, AND PROVIDE TEMPORARY WORKS SUCH AS BRACING, PROPPING AND SHORING ETC, TO KEEP THE WORKS AND EXCAVATIONS STABLE AND FREE FROM WATER AT ALL TIMES. THE CONTRACTOR IS TO ENGAGE AN NPER REGISTERED STRUCTURAL ENGINEER TO DESIGN AND CERTIFY ALL TEMPORARY WORKS.

G13. REDUCED LEVELS AND GRID DIMENSIONS SHOWN IN THESE DRAWINGS ARE APPROXIMATE ONLY AND ARE FOR THE SOLE PURPOSE OF ASSISTING THE STRUCTURAL DOCUMENTATION. THEY MUST NOT BE USED FOR CONSTRUCTION. REFER TO ARCHITECT'S DRAWINGS FOR ALL CONSTRUCTION REDUCED LEVELS.

G14. ALL PROPRIETARY PRODUCTS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS UNLESS NOTED OTHERWISE.

G15. ALL DISTURBED AREAS NOT SUBJECTED TO NEW WORKS SHALL BE REINSTATED TO THEIR EXISTING CONDITION BY THE CONTRACTOR AT THE COMPLETION OF WORKS TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY.

G16. ALL PENETRATIONS THROUGH SLABS AND BEAMS SHALL BE APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO COMMENCEMENT OF WORK.

G17. THE DRAWINGS MAY NOT SHOW ALL DETAILS OF FIXTURES, INSERTS, SLEEVES, OPENINGS ETC. REQUIRED BY THE VARIOUS TRADES. ALL SUCH DETAILS, INCLUDING RECESSES AND CHASES, ARE TO BE APPROVED BY THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH THE CONSTRUCTION.

G18. WHERE STRUCTURAL ELEMENTS ARE DESIGNED AND CERTIFIED BY OTHER PARTIES, THE BUILDER SHALL OBTAIN WRITTEN CERTIFICATION, PRIOR TO PROCEEDING WITH ANY CONSTRUCTION WHICH MAY PREVENT INSPECTION OR REMEDIAL WORKS BEING UNDERTAKEN TO THESE ITEMS.

G19. THE FOLLOWING DOCUMENTATION SHOWS AND DEPICTS ELEMENTS OF EXISTING STRUCTURE CONTAINED WITHIN THE SITE. THE DESIGN AND DOCUMENTATION CARRIED OUT BY CREO STRUCTURES DOES NOT CERTIFY AND CONFIRM THAT THE ADDITIONAL WORKS, HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE ORIGINAL DESIGN DOCUMENTATION.

DESIGN DATA

D1. WALL DESIGN LOADS -

-	ACTIVE PRESSURE COEFFICIENT Ka	= 0.33
-	MAX. BACKFILL SOIL DENSITY	= 20 kN/m³
-	MAX LIVE LOAD SURCHANGE	= 5 kPa - TYPICALLY

D2. WIND LOADING IN ACCORDANCE WITH AS1170.2

-	TERRAIN CATEGORY	2.5
-	SHIELDING MULTIPLIER (MS)	1.0
-	TOPOGRAPHIC MULTIPLIER (Mt)	1.0

D3. REFER TO GENERAL ARRANGEMENT PLANS FOR APPLICABLE LOADING

D4. ALL WORKS AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT, RELEVANT SAA CODES AND THE BUILDING CODE OF AUSTRALIA. THE FOLLOWING RELEVANT STANDARDS SHALL BE READ AS PART OF THESE GENERAL NOTES AND COPIES SHALL BE KEPT ON SITE WITH THE CONTRACTUAL DOCUMENTS -

-	AS 1170.0-2002	STRUCTURAL DESIGN ACTIONS: GENERAL PRINCIPLES
-	AS 1170.1-2002	STRUCTURAL DESIGN ACTIONS: PERMANENT, IMPOSED AND OTHER ACTIONS
-	AS 1170.2-2021	STRUCTURAL DESIGN ACTIONS: WIND ACTIONS
-	AS 2159-2009	PILING-DESIGN AND INSTALLATION
-	AS 3600-2018	CONCRETE STRUCTURES
-	AS 4100-2020	STEEL STRUCTURES
-	AS 4678	EARTH RETAINING STRUCTURES
-	NCC 2022	NATIONAL CONSTRUCTION CODE

PILING/BORED PIER NOTES

P1 ALL WORK TO BE CARRIED OUT BY THE PILING CONTRACTOR SHALL CONFORM TO THE AS2159 S.A.A. PILING CODE.

P2 CONTRACTOR TO REFER TO THE FOOTING SCHEDULES AND GEOTECHNICAL REPORT FOR FOUNDING MATERIALS AND MINIMUM EMBEDMENT DEPTHS.

P3 THE CONTRACTOR SHALL VISIT THE SITE TO MAKE HIS OWN ASSESSMENT OF THE EXISTING SITE CONDITIONS, AND IN PARTICULAR SHOULD NOTE THE CONFINEMENT OF THE PROPOSED WORK. FOUNDING LEVELS OF THE BORED PILE BASES ARE TO BE DETERMINED ON SITE AND APPROVED BY THE GEOTECHNICAL ENGINEER.

P4 A SOIL REPORT IS AVAILABLE THROUGH THE SUPERINTENDENT. THIS REPORT IS INTENDED TO GIVE AN INDICATION OF THE SITE CONDITIONS AND SHALL BE USED FOR GUIDANCE ONLY. THE CONTRACTOR IS RESPONSIBLE TO MAKE HIS OWN ASSESSMENT OF THE SUB SOIL CONDITIONS AND TO DETERMINE THE PILE DEPTH AND NO EXTRA WILL BE ALLOWED FOR CONDITIONS DIFFERENT FROM THOSE SHOWN ON THE BORELOGS.

P5 PILES SHALL BE OF THE BORED, CAST IN SITU, REINFORCED CONCRETE TYPE, DEVELOPING THEIR SUPPORTING CAPACITY BY END BEARING, WITH FRICTIONAL RESISTANCE (IF REQUIRED) FROM THE SURROUNDING SOIL. SEE PILING SCHEDULE FOR DETAILS.

P6 ACCURATE RECORDS OF PILE DIAMETERS AND LENGTHS, CUT OFF HEIGHTS AND CONCRETE STRENGTHS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE SUPERINTENDENT. ALL RECORDS SHALL BE VERIFIED BY THE SUPERINTENDENT'S SITE REPRESENTATIVE.

P7 THE TRIMMED TOP OF THE PILES SHALL BE WITHIN +OR- 25mm OF THE UNDERSIDE OF THE FOUNDATION WORKS.

P8 ALL CONCRETE AND REINFORCEMENT SHALL COMPLY WITH AS3600.

P9 THE BARS SHALL BE SO ARRANGED THAT CONCRETE CAN BE ADEQUATELY COMPACTED IN THE PILE, AND THE MINIMUM COVER TO THE REINFORCEMENT IN THE COMPLETED PILE SHALL BE 45mm.

P10 UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT, CONCRETE SHALL BE PLACED THROUGH A PIPE OR TRUNKING SUCH THAT THE FINAL FREE DROP DOES NOT EXCEED TWO METRES.

P11 TEMPORARY LININGS SHALL BE PROVIDED BY THE CONTRACTOR TO PREVENT COLLAPSE DUE TO THE PRESENCE OF UNSTABLE MATERIAL, GROUND WATER OR OTHER UNFORESEEN CIRCUMSTANCES. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NECESSARY FOR PLACEMENT AND REMOVAL OF TEMPORARY LINERS.

CONCRETING SHALL BE TEMPORARILY STOPPED WHEN THE CONCRETE IS WITHIN ONE METRE OF THE TOP OF EACH LENGTH OF LINER IF PROVIDED, AND THAT LENGTH OF LINER SHALL BE WITHDRAWN AND THE CONCRETE VIBRATED WITH IMMERSION TYPE VIBRATOR.

P12 THE SHAFT BASES SHALL BE CLEANED OUT AND RECEIVE APPROVAL FROM THE GEOTECHNICAL ENGINEER BEFORE REINFORCEMENT CAGES ARE SET IN POSITION AND CONCRETE PLACED. THE CONTRACTOR SHALL RECORD THE PILE LENGTH AND LOG OF THE EXCAVATED MATERIAL. BOTH THE CONTRACTOR AND GEOTECHNICAL ENGINEER SHALL PROVIDE STATEMENT AS TO THE COMPLIANCE OF THE MATERIAL TO THE ASSUMED DESIGN CONDITIONS AND SOIL REPORT.

CLEARING OUT THE BASE MEANS THAT ALL LOOSE AND SOFTENED MATERIAL SHALL BE REMOVED.

P13 SHOULD GROUND WATER BE ENCOUNTERED, THE CONTRACTOR SHALL SUPPLY AND INSTALL A PUMP OF ADEQUATE CAPACITY, TO DIVERT WATER TO A PROPERLY SITED SUMP. A STANDBY PUMP OF SIMILAR CAPACITY SHALL ALSO BE AVAILABLE.

P14 ALL STEEL SHALL COMPLY WITH AS4671 AND AS3600.

P15 REINFORCEMENT SHALL BE FREE OF LOOSE MILL SCALE, RUST, OIL, PAINT, GREASE AND OTHER, IT SHALL BE FREE OF SUCH MATTER UNTIL CONCRETE IS PLACED.

P16 REINFORCEMENT SHALL BE PROPERLY FABRICATED INTO CAGES THAT SHALL BE INSTALLED IMMEDIATELY AT THE BASE OF ANY SHAFT THAT HAS BEEN APPROVED. REINFORCEMENT SHALL BE SECURELY FIXED SO THAT NO VERTICAL MOVEMENT OCCURS WHILST CONCRETE IS BEING PLACED. APPROVED SPACERS SHALL BE PROVIDED AT 2 METRES MAXIMUM CENTRES ALONG THE LENGTH OF THE PILE TO MAINTAIN ADEQUATE COVER.

P17 PILES SHALL BE POURED TO NO LESS THAN 75mm ABOVE THE REQUIRED CUT OFF LEVEL OR HIGHER IF NECESSARY TO ALLOW FOR CONTAMINATED CONCRETE REMOVAL. THE PILE SHALL BE TRIMMED TO THE REQUIRED LEVEL REMOVING ALL WEAK CONCRETE AND LAITANCE. CARE SHALL BE TAKEN THAT THE FULL CROSS SECTION OF THE PILE IS LEVEL AND THE REINFORCEMENT IS UNDAMAGED.

P18 EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE

FOUNDATIONS

F1 SOIL CLASSIFICATION IS DEEMED TO BE CLASS 'P' IN ACCORDANCE WITH AS2870 RESIDENTIAL SLABS AND FOOTINGS. FOUNDATION SYSTEMS FOR THE SITE ARE GENERALLY DOCUMENTED AS SUSPENDED SLABS ON PILES DUE TO POCKETS OF DEEP FILL ON THE SITE. PILE TYPES HAVE BEEN DEFINED ON THE FOOTING PLAN NOTING THAT WHERE CONCRETE BORED PILES ARE SPECIFIED,. ALTERNATE PILING SYSTEMS WILL NOT BE ACCEPTED.

F2 ALL FOOTING EXCAVATIONS SHALL BE CLEANED OF LOOSE MATERIAL AND WATER PRIOR TO CASTING FOOTINGS. REFER TO -

-	GEOTECHNICAL REPORT No.:	G5412.1 AC
-	DATED:	22 JULY 2025
-	PREPARED BY:	GROUND SCIENCE Pty. Ltd.

F3 UNLESS OTHERWISE NOTED ON THE DRAWINGS, LOCATE ALL PIPES, RETAINING WALLS AND EXCAVATIONS OUTSIDE A 45° ZONE OF INFLUENCE FROM THE BOTTOM EDGE OF THE FOOTING.

F4 WHERE SIDE SHEAR IS REQUIRED TO BE DEVELOPED, CLEAN AND ROUGHEN THE SIDES OF THE EXCAVATION TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR. WHERE VERIFIED FOUNDATION MATERIAL IS LOWER THAN THE UNDERSIDE OF FOOTINGS AS DETAILED, BACKFILL ADDITIONAL EXCAVATION WITH 10 MPa MASS CONCRETE.

F5 FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE.

F6 FOOTINGS TO BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID SOFTENING OR DRYING OUT BY EXPOSURE.

F7 THE CONTRACTOR IS TO ALLOW FOR COST OF GEOTECHNICAL INSPECTIONS.

F8 DRILL 50mm VERTICAL TEST HOLE ON THE CENTRE LINE OF EACH FOOTING TO A MINIMUM DEPTH OF 1.5 TIMES THE MINIMUM PLAN DIMENSION. THESE HOLES ARE TO BE DRILLED BELOW THE LEVEL AT WHICH SUITABLE FOUNDING MATERIAL IS REACHED, AND SHALL BE CHECKED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETING. IF DEEPENING OF THE EXCAVATION IS NECESSARY, THE TEST HOLE WILL BE REDRILLED.

F9 STRIP ALL TOPSOIL FROM THE CONSTRUCTION AREA. ALL STRIPPED TOPSOIL IS TO BE REMOVED FROM SITE UNLESS DIRECTED OTHERWISE.

F10 EXCESS DEPTHS AND WIDTHS IN FOUNDATIONS OVER AND ABOVE THE DIMENSIONS SPECIFIED SHALL BE FILLED WITH 15 MPa BLINDING CONCRETE. THE COST OF FILLING SHALL BE BORNE BY THE CONTRACTOR.

F11 NO EXCAVATED MATERIAL FROM SITE SHALL BE SUITABLE FOR BACKFILL WITHOUT PRIOR APPROVAL FROM THE GEOTECHNICAL ENGINEER.

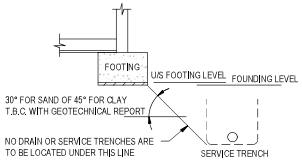
F12 IMPORTED FILL, BACKFILL OR COMPACTED FOUNDATION MATERIAL IS TO BE PLACED IN INTERMEDIATE LAYERS NOT EXCEEDING 200mm TO 98% MODIFIED MAXIMUM DRY DENSITY UNDER BUILDINGS OR 95% MODIFIED MAXIMUM DRY DENSITY IN LANDSCAPING AREAS IN ACCORDANCE WITH AS 1289. CONTRACTOR TO CONFIRM THAT THE COMPACTION METHODOLOGY SHALL CAUSE NO DAMAGE TO ADJACENT STRUCTURES. ALL STRUCTURAL FILLING WORKS SHALL BE COMPLETED UNDER LEVEL 1 SUPERVISION BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER THE CONTRACTOR IS TO PROVIDE COMPACTION TEST RESULTS TO THE ENGINEER PRIOR TO PROCEEDING..

F13 CONCRETE BLINDING SHALL BE PLACED WITHIN 24HRS OF EXCAVATION ONCE APPROVAL HAS BEEN GIVEN BY GEOTECHNICAL ENGINEER.

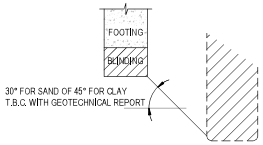
F14 BEFORE ANY REINFORCEMENT OR CONCRETE IS PLACED, THE SAFE BEARING CAPACITY OF THE GROUND IS TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER. EXCAVATION SHALL CONTINUE UNTIL THE REQUIRED BEARING CAPACITY IS FOUND ESTABLISHED.

F15 EXISTING ADJACENT FOOTINGS SHALL NOT BE UNDERMINED, NEW FOOTING FOUNDING DEPTH SHALL MATCH, BUT NOT EXCEED, ADJACENT FOOTING FOUNDING DEPTH. IN THE EVENT THAT UNDERPINNING IS REQUIRED, PLEASE CONTACT CREO CONSULTANTS.

F16 OVER-EXCAVATION WITHIN THE INFLUENCE ZONE (45 DEGREE LINE DOWN FROM BASE OF FOUNDING LEVEL) OF ANY FOOTING AND/OR RETAINING WALL IS NOT ALLOWED WITHOUT THE PRIOR APPROVAL OF THE EXCAVATION SEQUENCE BY THE BUILDING SURVEYOR/SUPERINTENDENT.



F17 UNLESS NOTED OTHERWISE, WHEREVER A NEW FOOTING IS LOCATED CLOSE TO AN EXCAVATION, BATTER, EXISTING FOOTING, EXISTING SERVICE LINE OR PROPOSED SERVICE LINE, WHICH IS DEEPER THAN THE NEW FOOTING, THE EXCAVATION FOR THE NEW FOOTING IS TO BE DEEPENED AND BACKFILLED WITH 15 MPa BLINDING CONCRETE AS INDICATED BELOW



CONCRETE NOTES

C1. ALL CONCRETE WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600:2018, AS2870:2011 AND THE SPECIFICATION.

C2. CONCRETE QUALITY, AND REQUIRED PROPERTIES OF CONCRETE SHALL BE IN ACCORDANCE WITH AS1379:2007.

C3. SURFACE FINISH. FORMWORK IS TO BE IN ACCORDANCE WITH THE SAI FORMWORK CODE AS3610:1995 EXCEPT WHERE SPECIFIED OTHERWISE. CONCRETE EXPOSED TO VIEW IN THE FINAL PROJECT IS TO BE CLASS FINISH AND CLASS FINISH ELSEWHERE.

C4. CONCRETE REQUIREMENTS AS SHOWN IN TABLE BELOW UNLESS NOTED OTHERWISE ON THE DRAWINGS. NO "BRECCIA" TYPE AGGREGATE IS TO BE USED.

MEMBER LOCATION	CONCRETE GRADE (MIN.)	REQUIRED COVER (mm) FORMED, FINISHED SURFACE	REQUIRED COVER (mm) CAST AGAINST GROUND
FOOTINGS	N40	50	75
PILE CAPS	N40	50	75
COLUMNS	N40	40	50
WALLS	N40	40	50
INTERNAL SLAB	N40	25	30
GROUND BEAMS	N40	50	75
EXTERNAL SLAB	N40	30	40
SLAB ON GROUND	N40	30	30
BLINDING	N15	-	-

C5. NORMAL CLASS CONCRETE SHALL HAVE CEMENT OF TYPE GENERAL PURPOSE BLENDED CEMENT (GP) OR FOR THE ELEMENTS MARKED *** (GREEN CONCRETE) ALL CEMENT TO BE GENERAL BLEND, GB (SLAG) [EQUIVALENT OF 70% TYPE GP, PLUS 30% GROUND GRANULATED BLAST FURNACE SLAG] PLUS 25% FLY ASH.

C6. THE CONTRACTOR IS TO SEEK APPROVAL FROM THE STRUCTURAL ENGINEER IN WRITING IF ANY ADMIXTURES TO BE USED IN THE CONCRETE MIX. CALCIUM CHLORIDE WILL NOT BE PERMITTED AND SHALL NOT BE USED UNDER ANY CIRCUMSTANCES.

C7. ALL CONCRETE SHALL BE SUBJECT TO PROJECT ASSESSMENT AND TESTING TO AS1379:2007.

C8. MECHANICALLY VIBRATE CONCRETE IN THE FORM TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION OF THE CONCRETE.

C9. CURE CONCRETE AS REQUIRED BY AS3600:2018 AND AS SET OUT IN THE SPECIFICATION.

C10. UNLESS SHOWN ON THE DRAWINGS, THE LOCATION OF ALL CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR FOR REVIEW.

C11. NO CHASES, HOLES GREATER THAN 150mm DIAMETER, OR EMBEDMENT OF PIPES GREATER THAN 40mm DIAMETER OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN THE CONCRETE SLABS, FOR ALL OTHER CONCRETE MEMBERS. NO PENETRATIONS, CHASES OR EMBEDMENT SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE STRUCTURAL ENGINEER.

C14. EXACT SIZE AND LOCATION OF PENETRATIONS ARE TO BE OBTAINED FROM WORKSHOP DRAWINGS PRIOR TO SCHEDULING OF REINFORCEMENT, AND ARE NOT TO EXCEED DIMENSIONS WHERE SHOWN ON THE STRUCTURAL DRAWINGS. LIAISE WITH ALL TRADES FOR FINAL PENETRATION SETOUT.

C15. DO NOT PLACE CONDUITS, PIPES AND THE LIKE WITHIN CONCRETE COVER. CONDUITS CAST INTO CONCRETE EMBERS SHALL BE SPACED AT MAXIMUM DISTANCE POSSIBLE AND UNDER NO CIRCUMSTANCES CLOSER THAN A CLEAR SPACING OF TWICE THE LARGER CONDUIT DIAMETER FROM PARALLEL REINFORCEMENT OR ANY OTHER CONDUIT.

C16. SLURRY USED TO LUBRICATE CONCRETE PUMP LINES IS NOT TO BE USED IN ANY STRUCTURAL MEMBERS.

C17. CONCRETE SIZES AS DRAWN ARE IN MM AND DO NOT INCLUDE APPLIED FINISHES.

C18. GENERALLY, DRAWINGS ARE DETAILED IN ACCORDANCE WITH THE PRINCIPLES SET OUT IN THE CONCRETE INSTITUTE OF AUSTRALIA (CIA) "REINFORCEMENT DETAILING HANDBOOK" OF 2010.

C19. ALL FORMED EXPOSED EDGES AND RE-ENTRANT CORNERS SHALL BE CHAMFERED OR FILLETED 15mm UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. REFER TO ARCHITECT'S DRAWINGS AND SPECIFICATION FOR ALL FALLS IN SLAB, REGLETS AND CHAMFERS ETC, PROVIDE DRIP GROOVES AT ALL EXPOSED EDGES, COVER TO BE MAINTAINED.

C20. THE FACE OF ALL CONCRETE WHICH HAS REINFORCEMENT PROJECTING FROM IT AND AGAINST WHICH NEW CONCRETE IS TO BE CAST, IS TO BE THOROUGHLY MECHANICALLY SCABBLED, FULLY EXPOSING THE AGGREGATE MATRIX.

C21. FREE DROPPING OF CONCRETE FROM A HEIGHT GREATER THAN 1000mm IN NOT PERMITTED.

REINFORCEMENT NOTES

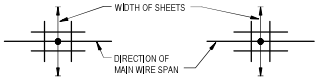
D1. SYMBOLS ON DRAWINGS FOR GRADE AND STRENGTH OF REINFORCEMENT ARE:

N	DENOTES GRADE D500N HOT-ROLLED DEFORMED REINFORCEMENT BAR TO AS/NZS 4671:2001.
SL	DENOTES GRADE 500L WELDED WIRE REINFORCEMENT MESH TO AS/NZS 4671:2001.
L	DENOTES GRADE D500L STEEL REINFORCEMENT TO AS/NZS 4671:2001.
R	DENOTES GRADE 250R PLAIN ROUND BAR REINFORCEMENT TO AS/NZS4671:2001.
TM	DENOTES HARD DRAWN STEEL TRENCH MESH, GRADE 500L TO AS/NZS 4671:2001.

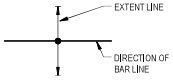
R2. BAR NOTATION GIVES THE FOLLOWING INFORMATION IN THIS ORDER: NO OF BARS; GRADE; BAR SIZE (mm); SPACING (mm, IF REQUIRED); PLACING INFORMATION EG, 20-N16-200 BTM.

R3. MESH NOTATION GIVES THE FOLLOWING INFORMATION IN THIS ORDER: SL OR RL SYMBOL; AS REFERENCE NUMBER IF STANDARD MESH OR EG, RL918 TOP.

R4. MAIN WIRES OF MESH AND COVERAGE OF SHEETS SHOWN IN PLAN-VIEW AND ELEVATION THUS.



R5. EXTENT OF BARS AND MESH SHOWN THUS:



R6. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.

R7. REINFORCEMENT DIMENSIONS SHALL NOT BE SCALED.

R8. SPLICE REINFORCEMENT ONLY AT LOCATIONS SHOWN IN THE DRAWINGS. LAP LENGTH SHALL COMPLY WITH AS3600:2018. REINFORCEMENT SHALL NOT BE SPLICED EXCEPT WHERE SHOWN IN THE DRAWINGS. IF SPLICES ARE NOT INDICATED IN THE DRAWINGS, SUITABLE LOCATIONS SHALL BE PROPOSED FOR WRITTEN APPROVAL BY STRUCTURAL ENGINEER. THE SPLICED LENGTH OF BARS SHALL BE AS GIVEN IN THE FOLLOWING TABLE, EXCEPT WHERE OTHER DIMENSIONS ARE STATED ON THE ACTUAL DETAIL.

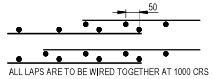
TYPE OF MEMBER	GRADE 500N DEFORMED BARS							
	N10	N12	N16	N20	N24	N28	N32	N36
SLAB OR WALL (WITH 300mm OR LESS DEPTH OF CONCRETE BELOW THE BAR) AND ALL VERTICAL BARS	400	500	750	1000	1250	1500	1850	2250
SLAB OR WALL (WITH GREATER THAN 300mm OF CONCRETE BELOW THE BAR)	500	650	1000	1300	1600	1950	2400	2900

EMBEDMENT LENGTHS FOR STARTER BARS AND SPLICE LENGTHS FOR COLUMN BARS SHALL BE AS GIVEN IN THE FOLLOWING TABLE, EXCEPT WHERE OTHER DIMENSIONS ARE STATED ON THE ACTUAL DETAIL. THE DIMENSIONS IN THE TABLE ALSO INDICATE OVERALL ANCHORAGE (DEVELOPMENT) LENGTHS FOR STARTER / DOWEL BARS. ANY COGS USED SHALL BE DETAILED AS PER AS3600:2018.

BAR SIZE	EMBEDMENT LENGTH (mm)	LAP LENGTH (mm)
N12	400	500
N16	500	650
N20	600	800
N24	700	1000
N28	800	1150
N32	900	1300
N36	1000	1450
N40	1100	1600

R9. REINFORCEMENT SHALL BE BENT COLD IN ACCORDANCE WITH AS3600:2018 EXCEPT WHERE APPROVED BY THE CONTRACT ADMINISTRATOR. NO REBENDING SHALL BE PERMITTED UNLESS APPROVED BY THE CONTRACT ADMINISTRATOR.

R10. WHERE LAP IS SPECIFIED, MESH SHALL BE LAPPED SUCH THAT THE TWO OUTERMOST WIRES LAP WITH THOSE OF THE OTHER SHEET AS SHOWN:



DRAWING INDEX:

STRUCTURAL DRAWINGS

S101 GENERAL NOTES AND DRAWING INDEX - SHEET 1

S102 GENERAL NOTES - SHEET 2

S120 CONCRETE SLEEPER RETAINING WALL DETAIL - SERVICES ON HIGH SIDE

S121 CONCRETE SLEEPER RETAINING WALL DETAIL - SERVICES ON LOW SIDE

S122 GROUTED RUBBLE RETAINING WALL DETAIL

REV	DATE	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED
Ø	27/05/26	ISSUED FOR CONSTRUCTION	JB	NL	JT
A	24/04/26	PRELIMINARY ISSUE	JB	NL	JT

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PROJECT

EYNESBURY TOWNSHIP

STAGE 26D

WYNDHAM CITY COUNCIL

DRAWING TITLE

STAGE 1
GENERAL NOTES AND DRAWING INDEX - SHEET 1

SCALE AT A1	DRAWN	DESIGNED
-	JB	NL
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
JT	JT	17/04/2026

STATUS

ISSUED FOR CONSTRUCTION

PROJECT No.	DRAWING No.	REVISION
260029	S101	Ø

STANDARD NOTES

REINFORCEMENT NOTES (CONT...)

R11. ALL REINFORCEMENT IS TO BE ACCURATELY POSITIONED, ADEQUATELY SUPPORTED, AND THEN INSPECTED BY THE CONTRACT ADMINISTRATOR BEFORE ANY CONCRETE IS PLACED.

R12. WELDING OF REINFORCEMENT INCLUDING TACK-WELDING FOR FIXING PURPOSES SHALL COMPLY WITH AS3600:2018 AND AS1554.3:2008. WELDING IS PERMITTED ONLY WHERE SHOWN IN THE DRAWINGS OR WHERE OTHERWISE APPROVED BY THE CONTRACT ADMINISTRATOR.

R13. WHERE NO REINFORCEMENT IS SHOWN ON THE DRAWINGS AT RIGHT ANGLES TO THE MAIN REINFORCEMENT, PLACE N12-300 TRANSVERSE TO THE REINFORCEMENT SHOWN TO SUIT THE BAR LAYING SEQUENCE. ALL OPENINGS AND RE-ENTRANT CORNERS IN THE CONCRETE SHALL HAVE 2-N12 BARS x 1200 LONG TOP AND BOTTOM DIAGONALLY ACROSS THE CORNER.

R14. FIRST SLAB BAR IS TO BE POSITIONED MAX. 100mm FROM FACE OF BEAMS, R.C. WALLS AND SLAB THICKENINGS PARALLEL TO BAR. FIRST TIE TO BE PLACED MAX. 50mm FROM FACE OF COLUMN OR SUPPORTING WALL UNDER.

R15. FIX 2-N16 TRIMMER BARS AROUND OPENINGS IN EACH (TOP/BOTTOM) FACE OF MEMBER AND EXTENDING 600mm BEYOND THEIR CROSS-OVER POINT.

R16. REINFORCEMENT SHALL NOT BE CUT, BENT OR HEATED ON SITE WITHOUT THE CONTRACT ADMINISTRATOR'S PRIOR APPROVAL. DO NOT CUT REINFORCEMENT ON SITE TO CLEAR PENETRATIONS. DISPLACE REINFORCEMENT SLIGHTLY AS NECESSARY. MAINTAIN COVER DURING POUR.

R17. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON PLASTIC OR CONCRETE CHAIRS UNLESS NOTED OTHERWISE MAXIMUM CENTRES OF SUPPORTING CHAIRS SHALL BE 600mm FOR FABRIC, 600mm FOR BARS UP TO 12mm DIAMETER, 900mm FOR BARS 16mm AND GREATER. REINFORCEMENT SHALL BE SECURELY TIED WITH GALVANISED WIRE TIES AND ALL TIE ENDS SHALL BE TURNED INTO THE MEMBER CLEAR OF THE COVER ZONE.

R18. REFER TO THE CONCRETE NOTES FOR THE COVER TO REINFORCEMENT NEAREST THE CONCRETE SURFACE, UNLESS NOTED OTHERWISE ON DRAWINGS.

R19. THE REQUIRED COVER SHALL BE MAINTAINED TO ALL PIPES, CONDUITS, REGLETS, DRIP GROOVES ETC.

R20. UNLESS NOTED OTHERWISE SLAB REINFORCEMENT AT SUPPORTING WALLS AND SLAB REINFORCEMENT BARS SHALL EXTEND 100mm ONTO SUPPORTING WALLS. WITH 50% OF BOTTOM BARS CRANKED TO ACHIEVE ANCHORAGE AT SIMPLY SUPPORTED ENDS. MESH IN SLABS SHALL EXTEND 100mm ONTO SUPPORTING WALLS AND INCLUDE AT LEAST ONE CROSS WIRE.

R21. U.N.O N16-200 SIDE FACE REINFORCEMENT TO BE PROVIDED FOR ALL BEAM >600mm DEPTH.

STRUCTURAL STEELWORK NOTES

S1.1. CONSTRUCTION CATEGORY: IN ACCORDANCE WITH THE REQUIREMENTS OF AS/NZS 5131 THE CONSTRUCTION CATEGORIES FOR THIS PROJECT ARE DEFINED IN THE TABLE BELOW.

ELEMENTS	IMPORTANCE LEVEL	SERVICE CATEGORY	FABRICATION CATEGORY	CONSTRUCTION CATEGORY
1. ALL STRUCTURAL STEELWORK U.N.O	IL2	SC2	FC1	CC3

S1.2. TREATMENT GRADES: UNLESS NOTED OTHERWISE IN THE PROJECT DRAWINGS, FOR THE ELEMENTS ON THIS PROJECT, THE TREATMENT GRADES ACCORDING TO AS/NZS 5131 SHALL BE:

ELEMENTS	TREATMENT GRADE
1. ALL PAINTED STRUCTURAL STEELWORK (INCLUDING GALVANISED PAINTED STEELWORK) U.N.O	P2
2. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEELWORK (AESS)	P3
3. ALL GALVANISED STEELWORK (EXCEPT GALVANISED AESS)	N/A
4. ALL STEELWORK TO HAVE INTUMESCENT COATINGS	IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS

S1.3. COATING QUALITY LEVEL: THE COATING QUALITY LEVEL ASSESSED ACCORDING TO AS/NZS 5131 SHALL BE AS GIVEN IN THE TABLE BELOW.

ITEM	COATING QUALITY LEVEL (PC1, PC2)
1. COATINGS APPLIED IN ATMOSPHERIC CORROSIVITY CATEGORY C1 OR LESS CRITICAL C2 ENVIRONMENTS OR WHERE SURFACE PREPARATION IS BY HAND OR POWER TOOL CLEANING OR ABRASIVE BLAST CLEANING TO SA1.	PC1
2. FOR COATINGS APPLIED IN ANY OTHER ATMOSPHERIC CORROSIVITY CATEGORY OR FOR SYSTEMS WHERE ABRASIVE BLASTING IS REQUIRED	PC2

S1.4. DESIGN:
DESIGN CONFORMS TO AS4100:1998, AS/NZS 4600:2005 AND AS2327.1:2003 AS APPROPRIATE

S1.5. SETTING OUT:
SETTING OUT DIMENSIONS SHALL BE VERIFIED ON SITE BY THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS.

S2,0 STRUCTURAL STEELWORK FABRICATION

S2.1. WORKMANSHIP AND QUALITY: ALL STRUCTURAL STEELWORK SHALL BE FABRICATED IN ACCORDANCE WITH AS/NZS 5131. ALL WORK ON THIS PROJECT SHALL BE UNDERTAKEN BY COMPETENT PERSONNEL. REQUIREMENTS AND EXAMPLES OF QUALIFICATIONS FOR COMPETENT PERSONNEL ARE CONTAINED IN AS/NZS 5131. STEELWORK SHALL BE FABRICATED BY FABRICATORS CERTIFIED UNDER THE ASI 'NATIONAL STRUCTURAL STEELWORK COMPLIANCE SCHEME (NSSCS) (SEE HTTP://WWW.SCACOMPLIANCE.COM.AU/).

S2.2. TOLERANCES: FABRICATION TOLERANCES SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131. THE TOLERANCE CLASS FOR FUNCTIONAL TOLERANCES SHALL BE CLASS 1 UNO.

S2.3.1. STEEL MATERIALS: S2.3.1 GRADES: ALL STRUCTURAL STEEL MATERIAL SHALL CONFORM TO THE FOLLOWING TABLE UNO:

COMPONENT	TO CONFORM WITH AUSTRALIAN STANDARD	MINIMUM GRADE
HOT ROLLED STEEL SECTIONS	AS/NZS 3679.1, TS 102	300
HOLLOW SECTIONS	AS/NZS 1163, TS 102	C350L0
PLATE	AS/NZS 3678, TS 102	300
FLATS	AS/NZS 1594, TS 102	250
WELDED BEAMS AND COLUMNS	AS/NZS 3679.2, TS 102	300
SHEAR STUDS (COMPOSITE SLAB TO STEEL)	AS/NZS 1554.2	380
QUENCH & TEMPERED PLATE	AS 3597	960
PURLINS & GIRTS	AS 1397 AND AS 1538	450
ROD BRACING	AS/NZS 3679.1	460

MEMBER SIZES SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS. NO SUBSTITUTION IS PERMITTED WITHOUT APPROVAL IN WRITING FROM THE ENGINEER. DOCUMENTATION SUPPLIED WITH MATERIALS AND COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

S2.3.2. ALL WORKMANSHIP AND FABRICATION SHALL BE IN ACCORDANCE WITH AS4100 STEEL STRUCTURES.

ALL STRUCTURAL STEEL MATERIALS INCLUDING ALL CONCRETE REINFORCEMENT SHALL BE SOURCED, MILLED AND FABRICATED IN AUSTRALIA WITH THE FOLLOWING EXCLUSIONS:

• SPECIAL ORDER WELDED BEAMS (WB) OR WELDED COLUMN (WC) COLUMNS MAY BE SOURCED INTERNATIONALLY FROM AN RECOGNISED STRUCTURAL STILL MILL THAT CARRIES ALL RELEVANT AUSTRALIAN STANDARD ACCREDITATIONS AND MILLING CERTIFICATES, AS WELL AS INDEPENDENT ISO 9001 QUALITY CERTIFICATION.

• RECTANGULAR AND SQUARE HOLLOW SECTION MEMBERS THAT HAVE AN OUTER PERIMETER THAT EXCEEDS 600mm MAY BE SOURCED INTERNATIONALLY FROM AN RECOGNISED STRUCTURAL STILL MILL THAT CARRIES ALL RELEVANT AUSTRALIAN STANDARD ACCREDITATIONS AND MILLING CERTIFICATES, AS WELL AS INDEPENDENT ISO 9001 QUALITY CERTIFICATION.

• CIRCULAR HOLLOW SECTION MEMBERS LARGER THAN A 219.1 x 6.4 CHS MAY BE SOURCED INTERNATIONALLY FROM AN RECOGNISED STRUCTURAL STILL MILL THAT CARRIES ALL RELEVANT AUSTRALIAN STANDARD ACCREDITATION AND MILLING CERTIFICATES, AS WELL AS INDEPENDENT ISO 9001 QUALITY CERTIFICATION.

• ANY OTHER STRUCTURAL STEEL OR REINFORCEMENT ELEMENT THAT CAN BE ADEQUATELY PROVEN TO BE NO LONGER MILLED HERE IN AUSTRALIA NOTING THAT IF PROVEN AND ONLY IF ACCEPTED BY CREO STRUCTURES, THE SELECTED MEMBER SIZE MAY BE SOURCED INTERNATIONALLY FROM AN RECOGNISED STRUCTURAL STILL MILL THAT CARRIES ALL RELEVANT AUSTRALIAN STANDARD ACCREDITATION AND MILLING CERTIFICATES, AS WELL AS INDEPENDENT ISO 9001 QUALITY CERTIFICATION.

UNDER NO CIRCUMSTANCE IS FABRICATION OF STRUCTURAL STEEL TO BE OUTSOURCED INTERNATIONALLY NOTING THE PROJECTS CONSTRUCTION CATEGORY REQUIREMENTS AS DEFINED IN NOTE S1.1.

ANY ATTEMPT TO SUBSTITUTE THE SUPPLY AND FABRICATION OF STRUCTURAL STEEL OR REINFORCEMENT FROM INTERNATIONAL SOURCES BEYOND THOSE EXCLUDED ABOVE WILL NOT BE ACCEPTED AND WILL BE CONSIDERED TO BE A DEPARTURE FROM THE CONTRACT DOCUMENTATION. ANY USE OF INTERNATIONALLY SOURCED STRUCTURAL STEEL MATERIALS OR REINFORCEMENT WILL CONSTITUTE A DEFECT UNDER THE CONTRACT AND THE CONTRACTOR WILL BE REQUIRED TO DEMOLISH, REMOVE AND REPLACE ANY SUCH STEEL IMMEDIATELY AND AT THE CONTRACTOR'S SOLE EXPENSE.

S2.3.3. LAMELLAR TEARING: JOINT DETAILS WHICH ARE SUSCEPTIBLE TO LAMELLAR TEARING (LT) ARE INDICATED ON THE PROJECT DRAWINGS AS 'LT SUSCEPTIBLE' JOINTS THAT ARE INDICATED AS 'LT SUSCEPTIBLE' SHALL BE SUPPLIED ULTRASONICALLY TESTED TO AS 1710 CLASS 1, BLAST RATED STEEL CONNECTIONS ALL CONSIDERED LT SUSCEPTIBLE.

S2.3.4. Z-PLATE REQUIREMENT: JOINTS THAT ARE DESIGNATED 'LT SUSCEPTIBLE' (SEE CLAUSE 2.3.2) AND FURTHER REQUIRE PLATE TO A NOMINATED Z-VALUE ARE INDICATED ON THE PROJECT DRAWINGS WITH A DESIGNATED MINIMUM Z-VALUE. THE PLATE USED FOR THESE JOINTS SHALL BE ORDERED TO THE DESIGNATED MINIMUM Z-VALUE.

S2.3.5. SUPPLEMENTARY ULTRASONIC TESTING: SUPPLEMENTARY ULTRASONIC TESTING TO AS 2207 AND AS/NZS 1554.1 IS REQUIRED FOR ALL PLATES 40mm THICKNESS AND OVER.

S2.3.6. STEEL QUALITY: ALL STRUCTURAL STEEL SHALL BE SOURCED FROM MILLS WITH A RELEVANT JAS ANZ ACCREDITED THIRD-PARTY CERTIFICATION SCHEME SUCH AS THE ACRS SCHEME (SEE HTTP://STEELCERTIFICATION.COM). ALTERNATIVE SOURCING OF THIRD-PARTY CERTIFIED STRUCTURAL STEEL SHALL BE SUBMITTED FOR REVIEW AND MUST BE APPROVED PRIOR TO THE COMMENCEMENT OF PROCUREMENT.

S2.3.7. SPLICING OF STRUCTURAL MEMBERS: ALL STRUCTURAL STEELWORK MEMBERS SHALL BE SUPPLIED IN A SINGLE LENGTH, EXCEPT WHERE OTHERWISE INDICATED WITH SPLICE LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION COMMENCING.

S2.4. CUTTING, HOLING AND SHAPING: ALL CUTTING, HOLING AND SHAPING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131. PENETRATIONS OR CUT-OUTS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL NOT BE MADE WITHOUT PRIOR APPROVAL.

S2.5. BOLTING

S2.5.1. BOLT DESIGNATION:

4.6/S	COMMERCIAL GRADE 4.6 BOLTS TO AS 1111, TIGHTENED TO A SNUG TIGHT CONDITION TO AS/NZS 5131
8.8/S	HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS/NZS 1252.1-1996, TIGHTENED TO A SNUG TIGHT CONDITION TO AS/NZS 5131
8.8/TB	HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS/NZS 1252.1-1996, FULLY TENSIONED TO AS/NZS 5131 AS A BEARING JOINT
8.8/TF	HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS/NZS 1252.1-1996, FULLY TENSIONED TO AS/NZS 5131 AS A FRICTION JOINT

ALL BOLT HOLES 2mm OVERSIZE UNLESS NOTED OTHERWISE. HOLES FOR H.D. BOLTS 6mm OVERSIZE. OVERSIZE HOLES FOR HD BOLTS WILL REQUIRE OVERSIZE WASHERS UNDER NUTS.

S2.5.2. BOLT QUALITY: HIGH STRENGTH STRUCTURAL BOLTS SHALL BE VERIFIED TO AS/NZS 1252.2-1996, THE DOCUMENTATION REQUIRED BY THE STANDARD, INCLUDING THE 'SUPPLIER DECLARATION OF CONFORMITY' (SDOC) SHALL BE PROVIDED.

S2.5.3. METHOD OF TENSIONING: /TB AND /TF BOLT CATEGORIES SHALL BE INSTALLED USING EITHER THE PART TURN METHOD OR THE DIRECT TENSION INDICATOR METHOD TO AS/NZS 5131.

S2.5.4. CONTACT SURFACES IN TENSIONED CONNECTIONS: FOR CONNECTIONS WHERE 8.8/TF BOLTS ARE SPECIFIED, A FRICTION COEFFICIENT OF 0.35 HAS BEEN ASSUMED FOR THE DESIGN. THE CONTACT SURFACES SHALL BE PREPARED ACCORDING TO AS/NZS 5131 AND BE FREE FROM PAINT, LACQUER OR OTHER APPLIED FINISHES UNLESS THE APPLIED FINISH HAS BEEN TESTED IN ACCORDANCE WITH AS/NZS 5131 APPENDIX G AND A FRICTION COEFFICIENT OF 0.35 OR HIGHER IS DETERMINED. SLOTTED HOLES, WHERE 8.8/TF BOLTS ARE USED IN SLOTTED HOLES, A SPECIAL WASHER OR COVER PLATE, NOT LESS THAN 8mm THICK, IS TO BE USED TO COMPLETELY COVER THE SLOTTED HOLE IN ACCORDANCE WITH AS4100:1998.

S2.5.5. BOLT FINISH: ALL BOLTS SHALL BE HOT-DIP GALVANIZED TO AS/NZS 1214.

S2,6. WELDING

S2.6.1. WELDING CONSUMABLES:

WELDING CONSUMABLES SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 1554. BASED ON THE YIELD STRENGTH OF THE STEEL TO BE WELDED, AS DEFINED IN THE TABLE BELOW:

NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED	TO CONFORM WITH AUSTRALIAN STANDARD
≤ 500 MPa	AS/NZS 1554.1
>500MPa, ≤ 690 MPa	AS/NZS 1554.1

S2.6.2. WELD CONSUMABLE STRENGTH:

NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED	NOMINAL TENSILE STRENGTH OF WELD METAL, Fuw (MPa)
ALL STEEL WITH GRADE < 300 MPa	430
ALL STEEL WITH 300 ≤ GRADE ≤ 450 MPa	490
QUENCH & TEMPERED STEEL TO GRADE 690 MPa	760

S2.6.3. WELD QUALITY:

ELEMENT	WELD CATEGORY
SHOP WELDS	S.P. U.N.O
SITE WELDS	S.P. U.N.O

ALL BUTT WELDS TO BE FULL STRENGTH BUTT WELD (FSBW) AND TO BE SP CATEGORY UNLESS NOTED OTHERWISE.

S2.6.4. NON-DESTRUCTIVE EXAMINATION: THE EXTENT OF NON-DESTRUCTIVE EXAMINATION (NDE) SHALL BE AS FOLLOWS:
(a) 100% VISUAL SCANNING PLUS 20% VISUAL EXAMINATION TO AS/NZS 1554.
(b) 20% ULTRASONIC EXAMINATION (UT) OF ALL BUTT WELDS. NOTE: 20% OF UT TO INCLUDE THE FIRST BUTT WELD UNDERTAKEN FOR EACH CONNECTION TYPE. ALL CERTIFICATES OF ULTRASONIC EXAMINATIONS TO BE FORWARDED TO CREO FOR REVIEW. REFER ALSO TO THE NOTES ACCOMPANYING TABLE 13.6.2.2(A) OF AS/NZS 5131.

S2.7. MINIMUM CONNECTION DETAILING GUIDELINES: UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, CONNECTION DETAILS SHALL BE IN ACCORDANCE WITH THE FOLLOWING MINIMUM REQUIREMENTS:
(a) ALL WELDS SHALL BE 6MM CONTINUOUS FILLET WELD (CFW) ALL ROUND.
(b) ALL STEEL TO STEEL BOLTED CONNECTIONS SHALL BE MINIMUM TWO M20 GRADE 8.8/S.
(c) A MINIMUM OF TWO THREADS SHALL EXTEND PAST THE NUT.
(d) ALL PLATES SHALL BE 10MM MINIMUM THICK.
(e) ALL PURLIN CLEATS SHALL BE 8MM MINIMUM THICK.

ALL DETAILING WHERE NOT SPECIFICALLY SHOWN SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STEEL INSTITUTE (ASI) CURRENT EDITIONS OF THE ' DESIGN CAPACITY TABLES FOR STRUCTURAL STEEL ' AND THE ASI STANDARDISED STRUCTURAL CONNECTION DETAILS CONTAINED THEREIN.

THE ENDS OF HOLLOW SECTION MEMBERS SHALL BE SEALED WITH NOMINAL THICKNESS PLATES AND CONTINUOUS SEAL WELDED UNLESS NOTED OTHERWISE. IF HOLLOW SECTIONS ARE TO BE HOT-DIP GALVANIZED, VENT AND DRAINAGE HOLES SHALL BE PROVIDED CONFORMING TO THE REQUIREMENTS OF AS/NZS 5131 IN NON-VIEWABLE LOCATIONS.

THE CONTRACTOR SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL, TIMBER OR OTHER ELEMENTS TO STEEL WHETHER OR NOT DETAILED ON THE DRAWINGS.

STIFFENER PLATES WHERE DETAILED ARE TO BE PLACED ON BOTH SIDES OF WEB TO UB's AND UC's.

ALL HOLES IN PLATES AND STEEL MEMBERS SHALL BE DRILLED. EXCEPT FOR PURLINS AND GIRT HOLES WHICH MAY BE PUNCHED.

WHERE DETAILS PREVENT THE NORMAL INSTALLATION OF CFW's, GRIND THE EDGE OF THE MEMBER TO FACILITATE THE INSTALLATION.

S2.8.0. SURFACE TREATMENT AND CORROSION PROTECTION

S2.8.1. UNLESS NOTED OTHERWISE IN THE CONTRACTUAL DOCUMENTATION, THE MINIMUM SURFACE TREATMENT OF BOTH INTERNAL AND EXTERNAL STEELWORK SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

STRUCTURAL STEELWORK TO BE GALVANISED SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

ALL EXTERNAL / EXPOSED STEELWORK TO BE HOT DIPPED GALVANISED

THE FOLLOWING STEELWORK SHALL BE HOT DIPPED GALVANISED AFTER FABRICATION WITH A MINIMUM AVERAGE ZINC COATING MASS OF 600 g/m2 - ALL COLD FORM SECTIONS-PLATE/ANCHOR ROD ASSEMBLIES CAST INTO CONCRETE - ALL MEMBERS BUILT INTO BRICK OR BLOCKWORK-ALL EXTERNAL STEELWORK.

FOR CONCRETE ENCASED STEELWORK, PAINTING SHALL EXTEND 100mm INTO THE CONCRETE. THE REMAINDER OF THE ENCASED STEELWORK SHALL BE UNPAINTED AND FREE OF LOOSE RUST, LOOSE MILLSCALE, DIRT, OIL AND GREASE.

ALL STRUCTURAL STEELWORK BELOW GROUND TO BE ENCASED BY N25 CONCRETE 75mm ALL AROUND, UNLESS NOTED OTHERWISE.

CONCRETE ENCASED STEELWORK SHALL BE WRAPPED WITH SL41 MESH, UNLESS OTHERWISE SHOWN.

S2.9. ARCHITECTURALLY EXPOSED STRUCTURAL STEELWORK ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

AREAS TO BE TREATED AS AESS AND THE AESS CATEGORY (1,2,3,4 OR C) ARE DESIGNATED ON THE PROJECT DRAWINGS.

ARCHITECTURALLY SENSITIVE CONNECTION DETAILS ARE INDICATED ON THE PROJECT DRAWINGS.

AESS COMPONENTS SHALL BE AESS 2 UNO.

S2.10. LIGHT GAUGE STEEL MEMBERS: LIGHT GAUGE STEEL MEMBERS, COMPRISING PURLINS, GIRTS AND STRUCTURAL DECKING, SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

PURLINS AND GIRTS SHALL BE BASED ON BLUESCOPE LYSAGHT'S LYSAGHT ZED AND CEE PURLINS AND GIRTS-USER GUIDE", OR OTHER SECTIONS APPROVED BY THE CONTRACT ADMINISTRATOR, COMPLYING WITH AS1397:1993, AND A MINIMUM GALVANISED COATING OF Z350 (350G/SQM).

CLEAT CONNECTIONS ARE TO BE IN ACCORDANCE TO AISC STANDARDIZED CONNECTIONS OR MANUFACTURER'S RECOMMENDATIONS UNLESS NOTED OTHERWISE. BOLTING AND BRIDGING TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

THE NUMBER OF PURLINS SHOWN IS INDICATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE CORRECT NUMBER OF PURLINS ARE USED TO SATISFY SPACING REQUIREMENTS.

AT DIAGONAL RIDGES, VALLEYS AND UNSUPPORTED ROOF EDGES, FIX 2/100x70x2.5 COLD FORMED ANGLE PURLINS TO SUPPORT DIAGONAL CUT EDGE OF ROOF SHEETING, UNLESS DETAILED OTHERWISE.

ALL ROOF RAFTERS TO INCLUDE FLY BRACING EVERY SECOND PURLIN UNO, ALL COLUMNS TO INCLUDE FLY BRACING EVERY SECOND GIRT UNO.

S2.11. MECHANICAL AND CHEMICAL ANCHORS: MECHANICAL AND CHEMICAL ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

S2.12. SHOP DRAWINGS: THE STEEL FABRICATOR IS TO PROVIDE THE CONTRACT ADMINISTRATOR WITH 1 HARD COPY OF WORKSHOP DRAWINGS FOR REVIEW BEFORE FABRICATION IS STARTED.

S2.13. ALL TURNBUCKLES SHALL COMPLY WITH AS2319 AND BE OF MINIMUM QUALITY GRADE P. ALL TURNBUCKLES TO HAVE A CAPACITY MATCHING OR GREATER THAN THE BRACE CAPACITY THEY ARE CONNECTED TO.

S3,0 STRUCTURAL STEELWORK ERECTION

S3.1. GENERAL: STRUCTURAL STEELWORK ERECTION SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

S3.2 CAMBER: CAMBER TO BE AS NOTED ON THE DRAWINGS.

ALL MEMBERS HAVING A NATURAL CAMBER WITHIN THE STRAIGHTNESS TOLERANCE SHALL BE ERECTED WITH THE NATURAL CAMBER UP.

S3.3. TOLERANCES: ERECTION TOLERANCES SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131. THE TOLERANCE CLASS FOR FUNCTIONAL TOLERANCES SHALL BE CLASS 1 UNO.

S3.4. POST-INSTALLED ANCHORS: THE INSTALLATION OF MECHANICAL AND CHEMICAL ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

SITE TESTING SHALL BE PERFORMED ON MECHANICAL AND CHEMICAL ANCHORS TO VALIDATE CORRECT INSTALLATION (PROOF TESTING). A MINIMUM TEST SAMPLE POPULATION SHALL BE THREE SPECIMENS OR 5% OF THE TOTAL RELEVANT ANCHOR POPULATION, WHICHEVER IS GREATER, IF A SINGLE FAILURE IS RECORDED, ALL ANCHORS IN THE RELEVANT ANCHOR POPULATION SHALL BE TESTED.

THE 'TEST SAMPLE POPULATION ' IS DEFINED AS A GROUP OF ANCHORS REPRESENTATIVE OF THE RELEVANT ANCHOR POPULATION, HAVING THE SAME TYPE OF ANCHOR, THE SAME BASE MATERIAL (THAT HAS NOT EXPERIENCED DIFFERENT ENVIRONMENTAL EXPOSURE), SAME INSTALLATION METHOD AND SAME INSTALLATION PERSONNEL. WHERE ANY OF THESE VARIABLES CHANGE, THIS GROUP OF ANCHORS SHALL BE CONSIDERED A SEPARATE ANCHOR POPULATION.

ALL SITE TESTING OF POST-INSTALLED ANCHORS SHALL BE UNDERTAKEN ACCORDING TO THE REQUIREMENTS OF AEFAC TECHNICAL NOTE – SITE TESTING GUIDELINES VOLUMES 1 TO 4 (AVAILABLE AT WWW.AEFAC.ORG.AU/RESOURCES).

S3.5. CONNECTION TO FOOTINGS: FOOTING BOLTS SHALL MEET THE REQUIREMENTS OF AS/NZS 5131.

MATERIALS USED FOR GROUTING UNDER STEEL BASE PLATES AND BEARING PLATES SHALL MEET THE REQUIREMENTS DEFINED IN AS/NZS 5131.

GROUT THICKNESS UNDER BASE PLATES SHALL BE MINIMUM 30mm UNLESS NOTED OTHERWISE. GROUT TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND TO ACHIEVE FULL CONTACT.

BASE PLATES SHALL BE GROUTED AFTER MEMBER IS LEVELED AND PLUMBED, AND BEFORE MEMBER IS SUBSTANTIALLY LOADED. GROUT SHALL BE APPROVED PROPRIETARY FLOWABLE NON-SHRINKING PORTLAND CEMENT GROUT, PROPORTIONED AND USED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS WITH A MINIMUM 28-DAYS COMPRESSIVE STRENGTH EQUAL TO THE STRENGTH OF THE UNDERLYING CONCRETE ELEMENT OR 40MPa (WHICHEVER IS GREATER) UNLESS NOTED OTHERWISE.

S3.6. CAST-IN COMPONENTS: ALL HOLD-DOWN BOLTS SHALL BE GRADE 4.6 TO AS1111:2000 UNLESS NOTED OTHERWISE. ALL HOLD DOWN BOLTS TO BE M20 UNLESS NOTED OTHERWISE.

ALL BOLTS, NUTS AND WASHERS, INCLUDING HOLD DOWN BOLTS, CAST-IN FERRULES AND MASONRY ANCHORS ARE TO BE HOT-DIP GALVANIZED UNLESS NOTED OTHERWISE. ALL GALVANIZED COMPONENTS TO BE CAST INTO CONCRETE MUST BE PASSIVATED.

S3.7. ERECTION SEQUENCE METHODOLOGY: WHERE ASSESSED AS REQUIRED FROM THE RISK PLANNING WORKSHOPS, SUBMIT THE ERECTION SEQUENCE METHODOLOGY (ESM) FOR APPROVAL.

S3.8. PROPRIETARY ITEMS: PROPRIETARY ITEMS (E.G. PURLINS, ROOF/WALL SHEETING, FERRULES) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

S3.9. TEMPORARY BRACING: THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED, SUCH TEMPORARY BRACING AS IS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.

S4,0. STRUCTURAL STEELWORK INSPECTION, TESTING AND CORRECTION

INSPECTION, TESTING AND CORRECTION SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

INSPECTION AND TEST PLANS (ITP) SHALL BE PREPARED, AS LISTED IN THE TABLE BELOW.

ITEM	ITP
MATERIALS AND COMPONENTS	REQUIRED
PREPARATION AND ASSEMBLY	
WELDING	
MECHANICAL FASTENING	
SURFACE TREATMENT	
PAINT COATINGS	
GALVANISED COATINGS	
ERECTION	

CHEMICAL AND MECHANICAL ANCHOR NOTES

CA1. "CHEMSETS" DENOTES RAMSET GRADE 5.8 HOT DIPPED GALV. STUDS FIXED WITH RAMSET CHEMSET REO 502 PLUS WITH THE FOLLOWING MINIMUM EMBEDMENT:
M12 CHEMSETS - 110mm EMBEDMENT UNO
M16 CHEMSETS - 125mm EMBEDMENT UNO
M20 CHEMSETS - 150mm EMBEDMENT UNO
M24 CHEMSETS -160mm EMBEDMENT UNO

CA2. "CHEMSET MAXIMA CAPSULES" DENOTES RAMSET CHEMSET MAXIMA SPIN CAPSULES WITH STUDS AND EMBEDMENTS AS DEFINED IN NOTE CA1.

CA3. "TRUBOLTS" DENOTES RAMSET TRUBOLT HOT DIPPED GALV. STUD ANCHORS WITH THE FOLLOWING MINIMUM EMBEDMENT:
M12 TRUBOLTS - 80mm EMBEDMENT UNO
M16 TRUBOLTS - 110mm EMBEDMENT UNO
M20 TRUBOLTS - 135mm EMBEDMENT UNO

CA4. "CHEMSET 101 ANCHORS" DENOTES RAMSET GRADE 5.8 HOT DIPPED GALV. STUDS, FIXED WITH AN EFFECTIVE DEPTH OF 64mm INTO EXTRUDED BRICK OR HOLLOW CONCRETE BLOCK, USING THE MANUFACTURER'S SLEEVES/SIEVES AND RAMSET CHEMSET INJECTION 101.

CA5. ALL ANCHORS ARE TO BE FIXED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS. IN PARTICULAR ENSURE HOLES ARE CLEAN OF DUST PRIOR TO INSTALLATION OF CHEMICAL ANCHORS.

CA6. CONTRACTOR IS TO LOAD TEST 5% OF CHEMICAL ANCHORS AT RANDOM TO MANUFACTURER NOMINATED PROOF LOAD FOLLOWING INSTALLATION. IF ANY ANCHORS FAIL TESTING, LOAD TEST 100% OF REMAINING CHEMICAL ANCHORS.

CA7. DESIGN HAS BEEN CARRIED OUT USING THE PRODUCTS ABOVE. PRODUCTS MAY BE SUBSTITUTED SUBJECT TO ENGINEER'S APPROVAL.

REV	DATE	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED
Ø	27/05/26	ISSUED FOR CONSTRUCTION	JB	NL	JT
A	17/04/26	PRELIMINARY ISSUE	JB	NL	JT

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PROJECT

EYNESBURY TOWNSHIP

STAGE 26D

WYNDHAM CITY COUNCIL

DRAWING TITLE

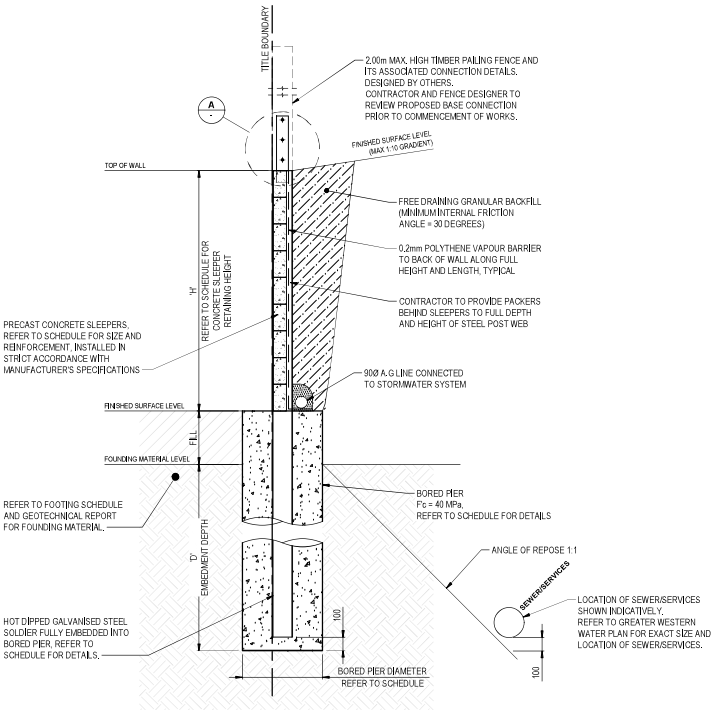
STAGE 1
GENERAL NOTES - SHEET 2

SCALE AT A1	DRAWN	DESIGNED
-	JB	NL
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
JT	JT	17/04/2026

STATUS

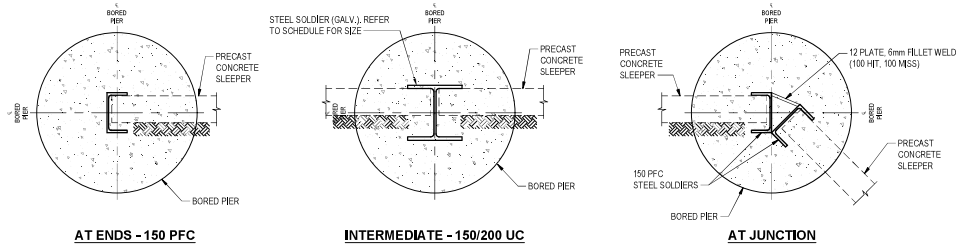
ISSUED FOR CONSTRUCTION

PROJECT No.	DRAWING No.	REVISION
260029	S102	Ø



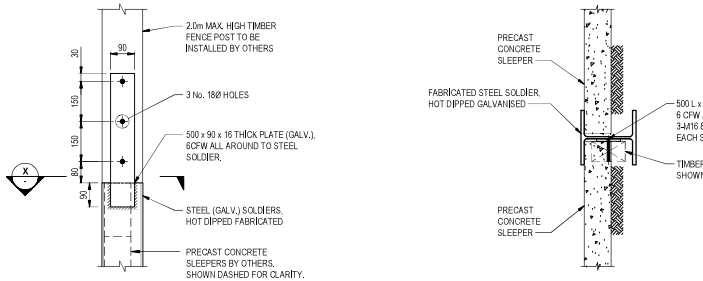
TYPICAL CONCRETE SLEEPER RETAINING WALL DETAIL - SERVICES ON HIGH SIDE

SCALE 1:20



TYPICAL STEEL SOLDIER ARRANGMENT DETAILS

SCALE 1:10



DETAIL A — SCALE 1:10

SECTION X — SCALE 1:10

PALING FENCE CONNECTION DETAIL

SCALE 1:10

CONCRETE SLEEPER RETAINING WALL SOLDIER AND FOOTING SCHEDULE - SERVICES ON HIGH SIDE									
RETAINING WALL HEIGHT 'H' (m)	BORED PIER DIAMETER (mm)	BORED PIER CONCRETE STRENGTH (MPa)	BORED PIER SPACINGS (mm)	FOUNDING MATERIAL	MIN. EMBEDMENT DEPTH 'D' (m)	STEEL SOLDIER SIZE AT INTERMEDIATE LOCATION	STEEL SOLDIER SIZE AT ENDS	CONCRETE SLEEPER	
								SIZE (mm)	REINFORCEMENT
0.0 - 0.6	600	40	2400	SILTY CLAY / XW BASALT	1.30	150 UC 23	150 PFC	2400 L x 200 H x 100 W	2-N12 BARS
				BASALT	1.00				
0.6 - 1.2	600	40	2400	SILTY CLAY / XW BASALT	2.10	150 UC 23	150 PFC		
				BASALT	1.80				
1.2 - 1.8	600	40	2400	SILTY CLAY / XW BASALT	3.00	150 UC 37	150 PFC		
				BASALT	2.30				
1.8 - 2.4	600	40	2400	SILTY CLAY / XW BASALT	3.60	200 UC 52	200 PFC	2400 L x 200 H x 120 W	
				BASALT	3.00				
2.4 - 3.0	750	40	2400	SILTY CLAY / XW BASALT	4.50	200 UC 60	200 PFC		
				BASALT	3.20				

NOTES:

DURING CONSTRUCTION, ALL EARTHWORKS SHALL BE UNDERTAKEN UNDER FULL TIME LEVEL 1 GEOTECHNICAL SUPERVISION.

HEAVY VEHICLES/TRUCKS (EXCEEDING 10 TONNES) SHALL NOT BE IN CLOSE PROXIMITY TO THE HIGH SIDE OF THE RETAINING WALLS. HEAVY VEHICLES/TRUCKS TO STAY AT LEAST 3.0m AWAY FROM RETAINING WALLS.

DESIGN LOADS USED ARE AS BELOW:
ULTIMATE WIND PRESSURE = 1.00kPa (FENCE)
BACKFILL MATERIAL UNIT WEIGHT = 20 kN/m3
BACKFILL MATERIAL INTERNAL FRICTION ANGLE = 30 DEGREES
SOIL-ACTIVE PRESSURE COEFFICIENT = 0.33
LIVE LOAD = 5.00 kPa

THE DESIGN SOIL PARAMETERS WERE BASED ON GEOTECHNICAL REPORT OBTAINED:
REPORT NO.: GS412.1 AC
DATED: 22 JULY 2025
PREPARED BY: GROUND SCIENCE PTY LTD

DURING CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A SUITABLY QUALIFIED GEOTECHNICAL ENGINNER TO VERIFY THE BELOW SOIL PARAMETERS HAVE BEEN ACHIEVED.

FOUNDING MATERIAL = SILTY CLAY OR XW BASALT
SOIL UNIT WEIGHT = 20kN/m3 (SILTY CLAY OR XW BASALT)
ALLOWABLE BEARING PRESSURE = 150kPa (SILTY CLAY OR XW BASALT)
MINIMUM INTERNAL FRICTION ANGLE = 30 DEGREES
MINIMUM EFFECTIVE COHESION = 5kPa

SOIL UNIT WEIGHT = 20kN/m3 (BASALT)
ALLOWABLE BEARING PRESSURE = 500kPa (BASALT)
MINIMUM INTERNAL FRICTION ANGLE = 32 DEGREES
MINIMUM EFFECTIVE COHESION = 15kPa

0 200 400 600 800 1000
SCALE: 1:10

0 400 800 1200 1600 2000
SCALE: 1:20

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B	20/05/26	PRELIMINARY ISSUE	JB	JT	JT
A	24/04/26	PRELIMINARY ISSUE	JB	NL	JT

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PROJECT

EYNESBURY TOWNSHIP

STAGE 26D

WYNDHAM CITY COUNCIL

DRAWING TITLE

CONCRETE SLEEPER RETAINING WALL - SERVICES ON HIGH SIDE DETAILS

SCALE AT A1	DRAWN	DESIGNED
AS NOTED	JB	NL
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
JT	JT	17/04/2026

STATUS

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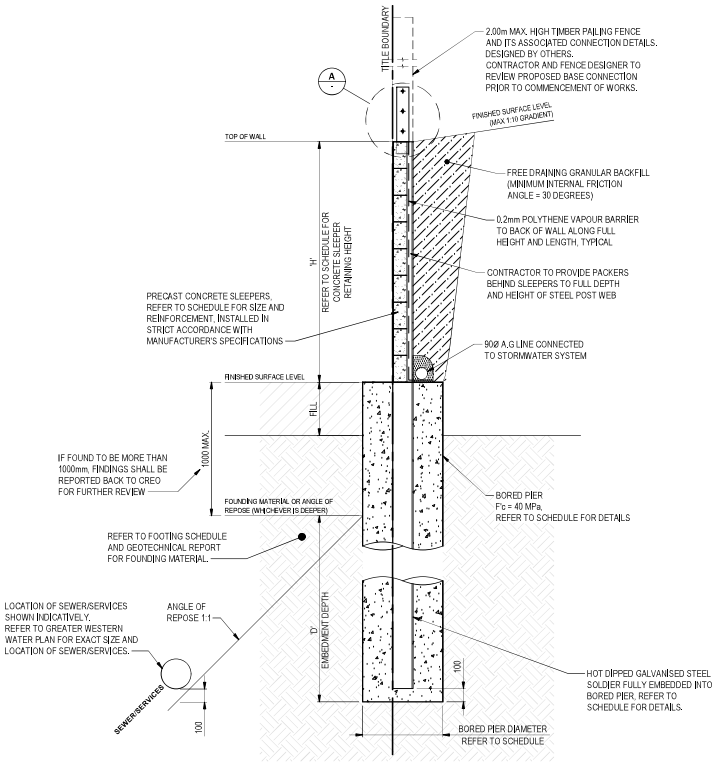
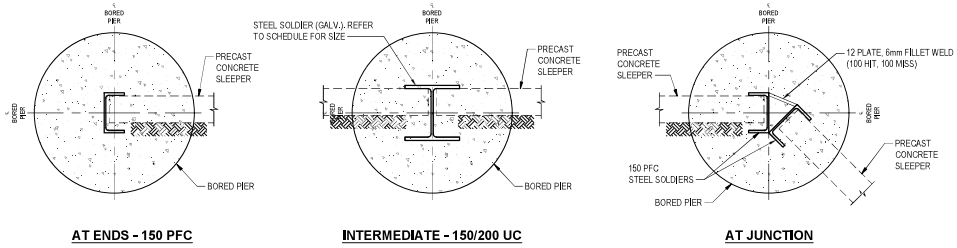
PROJECT No.	DRAWING No.	REVISION
260029	S120	Ø



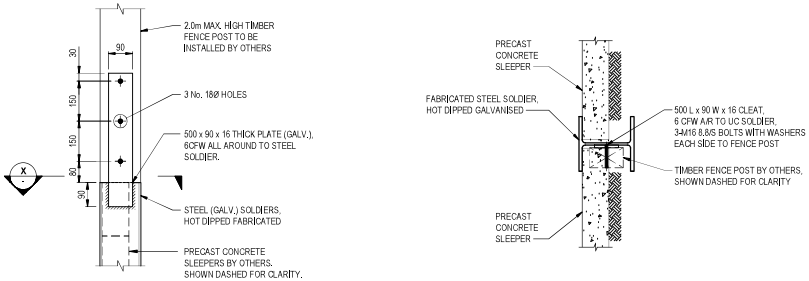
TYPICAL CONCRETE SLEEPER RETAINING WALL DETAIL - SERVICES ON LOW SIDE

SCALE 1:20



TYPICAL STEEL SOLDIER ARRANGMENT DETAILS

SCALE 1:10



PALING FENCE CONNECTION DETAIL

SCALE 1:10

CONCRETE SLEEPER RETAINING WALL SOLDIER AND FOOTING SCHEDULE - SERVICES ON LOW SIDE									
RETAINING WALL HEIGHT 'H' (m)	BORED PIER DIAMETER (mm)	BORED PIER CONCRETE STRENGTH (MPa)	BORED PIER SPACINGS (mm)	FOUNDING MATERIAL	MIN. EMBEDMENT DEPTH 'D' (m)	STEEL SOLDIER SIZE AT INTERMEDIATE LOCATION	STEEL SOLDIER SIZE AT ENDS	CONCRETE SLEEPER	
								SIZE (mm)	REINFORCEMENT
0.0 - 0.6	600	40	2400	SILTY CLAY / XW BASALT	1.80	150 UC 23	150 PFC	2400 L x 200 H x 100 W	2-N12 BARS
				BASALT	1.20				
0.6 - 1.2	600	40	2400	SILTY CLAY / XW BASALT	2.40	150 UC 23	150 PFC		
				BASALT	2.00				
1.2 - 1.8	600	40	2400	SILTY CLAY / XW BASALT	3.60	150 UC 37	150 PFC		
				BASALT	2.50				
1.8 - 2.4	600	40	2400	SILTY CLAY / XW BASALT	4.50	200 UC 52	200 PFC	2400 L x 200 H x 120 W	
				BASALT	3.50				
2.4 - 3.0	750	40	2400	SILTY CLAY / XW BASALT	5.00	200 UC 60	200 PFC		
				BASALT	4.00				

NOTES:

DURING CONSTRUCTION, ALL EARTHWORKS SHALL BE UNDERTAKEN UNDER FULL TIME LEVEL 1 GEOTECHNICAL SUPERVISION.

HEAVY VEHICLES/TRUCKS (EXCEEDING 10 TONNES) SHALL NOT BE IN CLOSE PROXIMITY TO THE HIGH SIDE OF THE RETAINING WALLS. HEAVY VEHICLES/TRUCKS TO STAY AT LEAST 3.0m AWAY FROM RETAINING WALLS.

DESIGN LOADS USED ARE AS BELOW:
ULTIMATE WIND PRESSURE = 1.00kPa (FENCE)
BACKFILL MATERIAL UNIT WEIGHT = 20 kN/m3
BACKFILL MATERIAL INTERNAL FRICTION ANGLE = 30 DEGREES
SOIL-ACTIVE PRESSURE COEFFICIENT = 0.33
LIVE LOAD = 5.00 kPa

THE DESIGN SOIL PARAMETERS WERE BASED ON GEOTECHNICAL REPORT OBTAINED:
REPORT NO.: G5412.1 AC
DATED: 22 JULY 2025
PREPARED BY: GROUND SCIENCE PTY LTD

DURING CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A SUITABLY QUALIFIED GEOTECHNICAL ENGINNER TO VERIFY THE BELOW SOIL PARAMETERS HAVE BEEN ACHIEVED.

FOUNDING MATERIAL = SILTY CLAY OR XW BASALT
SOIL UNIT WEIGHT = 20kN/m3 (SILTY CLAY OR XW BASALT)
ALLOWABLE BEARING PRESSURE = 150kPa (SILTY CLAY OR XW BASALT)
MINIMUM INTERNAL FRICTION ANGLE = 30 DEGREES
MINIMUM EFFECTIVE COHESION = 5kPa

SOIL UNIT WEIGHT = 20kN/m3 (BASALT)
ALLOWABLE BEARING PRESSURE = 500kPa (BASALT)
MINIMUM INTERNAL FRICTION ANGLE = 32 DEGREES
MINIMUM EFFECTIVE COHESION = 15kPa

0 200 400 600 800 1000
SCALE: 1:10

0 400 800 1200 1600 2000
SCALE: 1:20

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PROJECT

EYNESBURY TOWNSHIP

STAGE 26D

WYNDHAM CITY COUNCIL

DRAWING TITLE

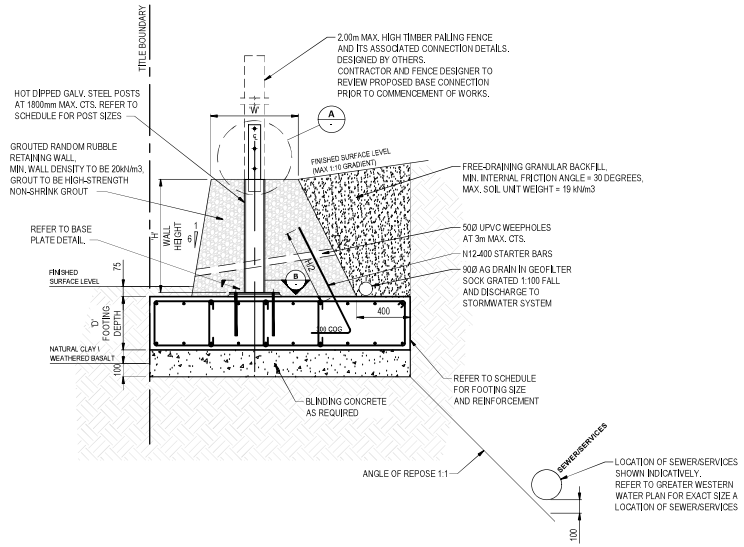
CONCRETE SLEEPER RETAINING WALL - SERVICES ON LOW SIDE DETAILS

SCALE AT A1	DRAWN	DESIGNED
AS NOTED	JB	NL
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
JT	JT	17/04/2026

STATUS

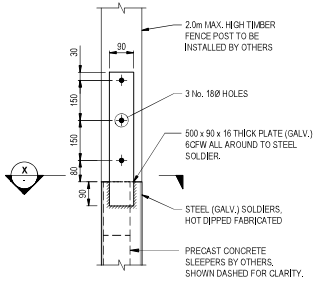
ISSUED FOR CONSTRUCTION

PROJECT No.	DRAWING No.	REVISION
260029	S121	Ø



TYPICAL GROUTED RUBBLE RETAINING WALL DETAIL

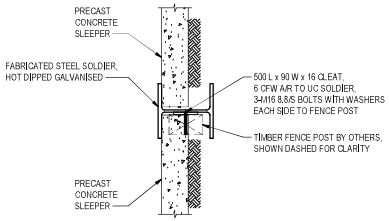
SCALE 1:20



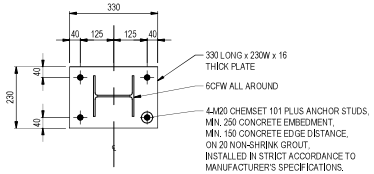
DETAIL A
SCALE 1:10

PALING FENCE CONNECTION DETAIL

SCALE 1:10



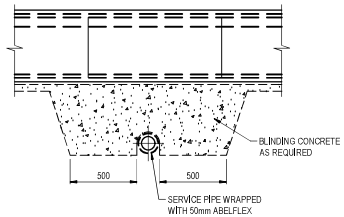
SECTION X
SCALE 1:10



BASE PLATE DETAIL

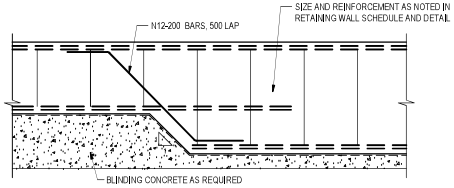
DETAIL B
SCALE 1:10

GROUTED RUBBLE RETAINING WALL SCHEDULE						
RETAINING WALL HEIGHT 'H' (m)	STEEL SOLDIER SIZE	TOP OF WALL WIDTH 'W' (m)	BOTTOM OF WALL WIDTH 'W' (m)	FOOTING WIDTH (m)	FOOTING DEPTH 'D' (m)	FOOTING REINFORCEMENT
0.0 - 0.6	150 UC 23	0.3	0.7	1.25	0.80	N16-200 TOP AND BOTTOM, 4R12-200 LIGS (MIN. 5 LEGS)
0.6 - 1.2	150 UC 23	0.4	1.20	1.75	0.80	N20-200 TOP AND BOTTOM, 5R12-200 LIGS (MIN. 6 LEGS)
1.2 - 1.8	150 UC 30	0.7	1.90	2.45	1.00	N20-200 TOP AND BOTTOM, 4R12-200 LIGS (MIN. 5 LEGS)
1.8 - 2.6	150 UC 30	1.20	2.93	3.48	1.20	N20-150 TOP AND BOTTOM, 6R12-200 LIGS (MIN. 7 LEGS)



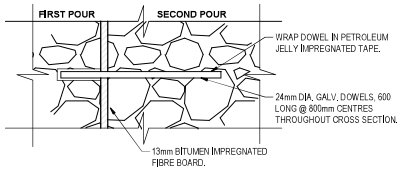
TYPICAL SERVICES PIPE UNDER FOOTING

SCALE 1:20



TYPICAL FOOTING STEP DETAIL

SCALE 1:20



NOTE: CONTRACTION JOINT TO BE AT 12m MAX. CTS.

TYPICAL SECTION THROUGH CONTRACTION JOINT

SCALE 1:10

NOTES:

1. RETAINING WALLS ABUTTING THE ROAD RESERVE MUST BE FULLY CONSTRUCTED (INCLUDING FOUNDATIONS) WITHIN THE RESERVE AND CONSTRUCTED WITH GROUTED RANDOM RUBBLE.
2. RETAINING WALLS ABUTTING ANY LOTS MUST BE FULLY CONSTRUCTED (INCLUDING FOUNDATIONS) WITHIN THE LOT TITLE BOUNDARY.
3. 100mm x 50mm WEEPHOLES AT 3m CTS. SHALL BE USED AND THE AG DRAINS SHALL BE CONNECTED TO THE DRAINAGE SYSTEM.
4. LENGTH OF WALL BETWEEN CONTRACTION JOINT SHALL NOT EXCEED 12m.
5. FOOTING TO BE FOUNDED A MINIMUM OF 100mm INTO NATURAL CLAY OR BASALT ROCK HAVING A MINIMUM BEARING CAPACITY OF 150kPa. PROVIDE 15MPa. BLINDING CONCRETE AS REQUIRED TO ACHIEVE FOUNDING.
6. CONCRETE STRENGTH f'c = 32MPa.
7. WALL DESIGN LOADS -
   - ACTIVE PRESSURE COEFFICIENT (Ka) = 0.33
   - SOIL DENSITY = 20kN/m³
   - LIVE LOAD SURCHARGE = 5kPa.

0 200 400 600 800 1000
SCALE: 1:10

0 400 800 1200 1600 2000
SCALE: 1:20

REV	DATE	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED
Ø	27/05/26	ISSUED FOR CONSTRUCTION	JB	NL	JT
C	20/05/26	GROUTED RET WALL SCHEDULE UPDATED	JB	JT	JT
B	28/04/26	PRELIMINARY ISSUE	JB	NL	JT
A	17/04/26	PRELIMINARY ISSUE	JB	NL	JT

CLIENT

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PROJECT

EYNESBURY TOWNSHIP

STAGE 26D

WYNDHAM CITY COUNCIL

DRAWING TITLE

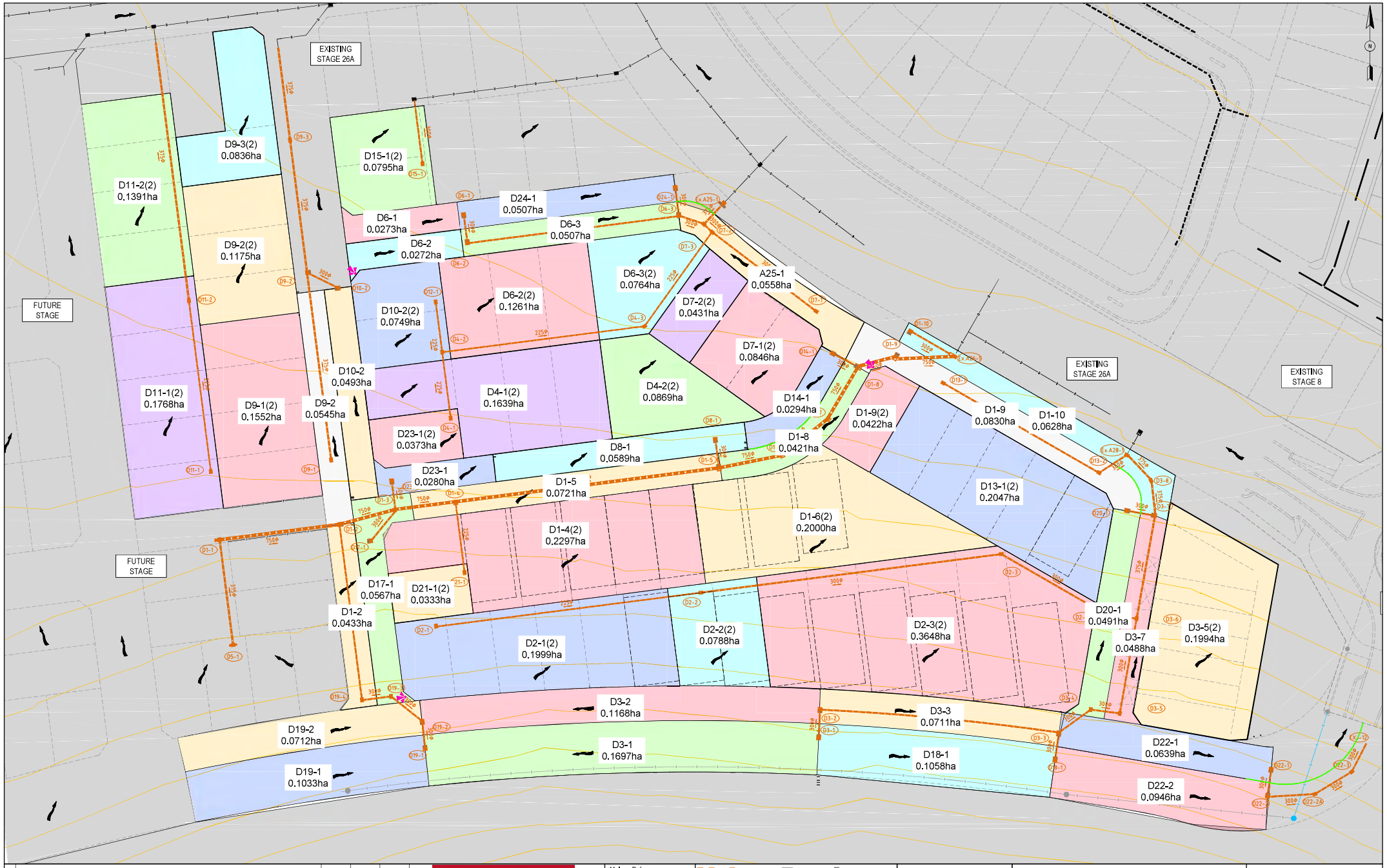
GROUTED RUBBLE RETAINING WALL DETAILS

SCALE AT A1	DRAWN	DESIGNED
AS NOTED	JB	NL
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
JT	JT	17/04/2026

STATUS

ISSUED FOR CONSTRUCTION

PROJECT No.	DRAWING No.	REVISION
260029	S122	Ø



A	ISSUED FOR APPROVAL	03.12.25	KI	MR
No.	REVISION	DATE	DES/DFT	APPROVED

RESIMAX GROUP

Issued for Approval
Not to be used for construction

Melway Reference
226 B4

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Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
A. AMIN

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP

STAGE 26D
WYNDHAM CITY COUNCIL
20% AEP DRAINAGE CATCHMENT PLAN

Drawing No: 24041-26D-110
Revision: A
Sheet No: 01 of 03
Scale @ A1 1:500 (0 5 10 20)

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ABN 62 525 443 156

file name 24041-26D-110-112-QS DRAINAGE.dwg layout name 110 file location L:\Work\End\24041 Eynesbury\Stage 26\Stage 26D\Drawings

Coefficient of Runoff	f	C_{10}	C_{10}	F_3	F_{100}	STORM EVENT	
						5 year	100 year
Lots - High Density	0.800	0.16031	0.752	0.950	1.200	0.71	0.90
Road	0.600	0.16031	0.604	0.950	1.200	0.57	0.72
Reserve	0.250	0.16031	0.345	0.950	1.200	0.33	0.41

Node	Node	Setout	Setout	Setout	Catch	Time	Intensity	Runoff	Area	Full	Ful	Full	Partial
Name	Type	Easting	Northing	RL	ID	Tc	I	C	A	CA	Sum CA	Qc=CIA	CA
(-)	(-	(m)	(m)	(m)	(-)	(min)	(mm/hr)	(-)	(ha)	(ha)	(ha)	(L/s)	(ha)
D1-9	JF	283321.89	5814391.69	100.31	1I	5	86.4	0.57	0.083	0.0473	0.0473	11.4	0.0473
D1-8	SEP	283310.82	5814388.65	100.61	1I	5	86.4	0.57	0.0431	0.024	0.024	5.8	0.024
D1-7	JF	283301.99	5814373.57	101.28	2P	5	86.4	0.71	0.0422	0.03	0.03	7.2	0.03
D1-6	JF	283288.8	5814363.01	101.85	2P	5	86.4	0.71	0.2	0.142	0.142	34.1	0.142
D1-5	SEP	283270.48	5814359.25	102.43	1I	5	86.4	0.57	0.0721	0.0411	0.0411	9.9	0.0411
D1-4	JF	283193.83	5814349.51	103.03	2P	5	86.4	0.71	0.117	0.0831	0.0831	19.9	0.0831
D1-3	JF	283176.59	5814347.3	103.15									
D1-2	SEP	283160.35	5814342.94	103.64	1I	5	86.4	0.57	0.0433	0.0247	0.0247	5.9	0.0247
D1-1	JF	283125.58	5814338.46	103.86									
D10-2	SEP	283160.11	5814411.57	101.48	1I	5	86.4	0.57	0.0493	0.0281	0.0813	19.5	0.0281
					2P	5	86.4	0.71	0.0749	0.0532			0.0532
D11-2	JF	283116.67	5814407.91	102.04	2P	5	86.4	0.71	0.1391	0.0988	0.0988	23.7	0.0988
D11-1	JF	283123.04	5814358.32	103.05	2P	5	86.4	0.71	0.1768	0.1255	0.1255	30.1	0.1255
D12-1	JF	283188.3	5814407.53	101.59									
D13-2	SEP	283380.77	5814357.93	100.66									
D13-1	JF	283335.55	5814383.99	100.38	2P	5	86.4	0.71	0.2047	0.1453	0.1453	34.9	0.1453
D14-1	SEP	283303.34	5814392.69	100.62	1I	5	86.4	0.57	0.0294	0.0168	0.0168	4	0.0168
D15-1	JF	283184.46	5814447.65	100.86	2P	5	86.4	0.71	0.0795	0.0564	0.0564	13.5	0.0564
D17-1	SEP	283169.53	5814338.17	103.93	1I	5	86.4	0.57	0.0567	0.0323	0.0323	7.8	0.0323
D18-1	SEP	283367.99	5814274.41	106.36	1I	5	86.4	0.57	0.1058	0.0503	0.0603	14.5	0.0603
D19-4	JF	283166.9	5814291.92	106.22									
D19-3	JF	283175.33	5814293	106.22									
D19-2	SEP	283184.37	5814285.85	106.92	1I	5	86.4	0.57	0.0712	0.0406	0.0406	9.7	0.0406
D19-1	SEP	283185.24	5814277.73	106.93	1I	5	86.4	0.57	0.1033	0.0589	0.0589	14.1	0.0589
D2-4	JF	283383.24	5814316.65	103.53									
D2-3	JF	283352.42	5814334.33	103.79	2P	5	86.4	0.71	0.3648	0.259	0.259	62.2	0.259
D2-2	JF	283266.3	5814323.15	105.88	2P	5	86.4	0.71	0.0788	0.056	0.056	13.4	0.056
D2-1	JF	283188.42	5814313.25	105.96	2P	5	86.4	0.71	0.1999	0.142	0.142	34.1	0.142
D20-1	SEP	283388.65	5814346.55	101.44	1I	5	86.4	0.57	0.0491	0.028	0.028	6.7	0.028
D21-1	JF	283196.41	5814329.42	104.08	2P	5	86.4	0.71	0.0333	0.0237	0.0237	5.7	0.0237
A25-1	DEP	283271.92	5814436.29	99.87	1I	5	86.4	0.57	0.0513	0.0293	0.0293	7	0.0293
D22-3	JF	283454.13	5814271.12	104.2									
D22-2A	JF	283443.41	5814264.65	105.06									
D22-2	SEP	283429.66	5814263.65	105.84	1I	5	86.4	0.57	0.0945	0.0539	0.0539	12.9	0.0539
D22-1	SEP	283430.75	5814271.99	105.84	1I	5	86.4	0.57	0.0639	0.0364	0.0364	8.7	0.0364
D23-1	SEP	283175.49	5814355.72	103.15	1I	5	86.4	0.57	0.028	0.016	0.0424	10.2	0.016
					2P	5	86.4	0.71	0.0373	0.0264			0.0264
D24-1	SEP	283257.79	5814440.9	99.86	1I	5	86.4	0.57	0.0507	0.0289	0.0289	6.9	0.0289
D1-10	SEP	283326.06	5814399.11	100	1I	5	86.4	0.57	0.0628	0.0358	0.0358	8.6	0.0358
D3-8	JF	283395.87	5814355.67	100.82									
D3-7	SEP	283397.02	5814345.49	101.44	1I	5	86.4	0.57	0.0488	0.0278	0.0278	6.7	0.0278
D3-6	JF	283391.7	5814315.3	103.49									
D3-5	JF	283386.81	5814288.03	105.39	2P	5	86.4	0.71	0.1994	0.1416	0.1416	34	0.1416
D3-4	JF	283378.37	5814289.18	105.41									
D3-3	SEP	283369.16	5814282.52	106.34	1I	5	86.4	0.57	0.0711	0.0405	0.0405	9.7	0.0405
D3-2	SEP	283299.84	5814289.18	106.57	1I	5	86.4	0.57	0.1168	0.0666	0.0666	16	0.0666
D3-1	SEP	283299.44	5814280.99	106.57	1I	5	86.4	0.57	0.1697	0.0967	0.0967	23.2	0.0967
D4-3	JF	283248.89	5814400.49	101.38									
D4-2	JF	283190.17	5814392.95	101.97	2P	5	86.4	0.71	0.0869	0.0617	0.0617	14.8	0.0617
D4-1	JF	283192.63	5814373.75	102.42	2P	5	86.4	0.71	0.1639	0.1163	0.1163	27.9	0.1163
D5-1	JF	283129.51	5814307.93	105.25	2P	5	86.4	0.71	0.0338	0.024	0.024	5.8	0.024
D6-3	SEP	283258.87	5814432.47	99.88	1I	5	86.4	0.57	0.0507	0.0289	0.0832	20	0.0289
					2P	5	86.4	0.71	0.0764	0.0542			0.0542
D6-2	SEP	283197.5	5814424.59	100.68	1I	5	86.4	0.57	0.0272	0.0155	0.1051	25.2	0.0155
					2P	5	86.4	0.71	0.1261	0.0896			0.0896
D6-1	JF	283196.38	5814433.04	100.68	1I	5	86.4	0.57	0.0273	0.0155	0.0155	3.7	0.0155
D7-3	JF	283266.11	5814430.07	100.08	1I	5	86.4	0.57	0.0558	0.0318	0.0318	7.6	0.0318
D7-2	JF	283268.48	5814427.87	100.08	2P	5	86.4	0.71	0.0431	0.0306	0.0306	7.4	0.0306
D7-1	JF	283298.71	5814404.82	100.21	2P	5	86.4	0.71	0.0846	0.0601	0.0601	14.4	0.0601
D8-1	SEP	283265.4	5814367.75	102.43	1I	5	86.4	0.57	0.0589	0.0336	0.0336	8.1	0.0336
D9-3	JF	283146.02	5814454.53	101	2P	5	86.4	0.71	0.0836	0.0594	0.0594	14.3	0.0594
D9-2	SEP	283150.96	5814416.03	101.39	1I	5	86.4	0.57	0.0545	0.0311	0.1144	27.5	0.0311
					2P	5	86.4	0.71	0.1175	0.0834			0.0834

No.	REVISION	DATE	DES/DFT	APPROVED
B	DRAINAGE COMPUTATION UPDATED	26.06.26	KI	MR
A	ISSUED FOR APPROVAL	03.12.25	KI	MR

RESIMAX GROUP

Issued for Approval
Not to be used for construction

Melway Reference
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A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP
STAGE 26D
WYNDHAM CITY COUNCIL
20% AEP DRAINAGE
DRAINAGE COMPUTATIONS
HYDROLOGY

Drawing No: 24041-26D-111
Revision: B
Sheet No: 02 of 03
Scale @ A1
NTS

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ABN 62 525 443 156

file name 24041-26D-110-112-QS DRAINAGE.dwg layout name 111 file location L:\Work\End\24041 Eynesbury\Stage 26\Stage 26D\Drawings

Pipe	Pipe	Pipe	Pipe	Full Pipe	Pipe	Pipe	Full-area	Full-area	Full-area	Catchment	Direct Node	Pipe	Excess Pipe	Capacity	C/Qcap	Full Pipe	Norm Depth	Crit Depth	Capacity Vel	US Node	Pipe	Pipe	DS Node	Cover	Pipe	Pipe	US Node	US Node	Pipe	Phead Loss	WSE Loss	Pipe	US Node	Pipe	Pipe	DS Node	HGL	HGL	Fboard
ID	Type	Length	Size	Area Af	Grade	Grade	Tct	I	Sum CA	FlowQc	FlowQdg	FlowQ	FlowQx	FlowQcap	Ratio	Vel Vf=Q/Af	Ve Vn=Q/An	Vel Vc=Q/Ac	Vcap=Qcap/Af	Grate RL	USIL	DSIL	Grate RL	Min	DSBend	DSDrop	Ku	Kw	Vhead	(Ku.V^head)	(Kw.V^head)	^head Loss	HGL	JS HGL	DS HGL	HGL	Grade	Grade	US
(-)	(-)	(m)	(mm)	(sq.m)	(%)	(1 in)	(min)	(mm/hr)	(ha)	(L/s)	(L/s)	(L/s)	(L/s)	(L/s)	(-)	m/s	m/s	m/s	(m/s)	(m)	(m)	(m)	(m)	(m)	(deg)	(m)	(-)	(-)	(m)	(m)	(m)	m	(m)	m	(m)	(m)	(%)	(1 in)	(m)
D1-10 to A26-1	RCP	14.67	300	0.071	0.43	230	5	86.4	0.0358	8.6		8.6		63.8	0.13	0.12	0.63	0.69	0.9	100	98.67	98.61	100.03	1.03	89.5	0.619	7		0	0.01			0.06	98.75	98.75	98.68	98.66	0.47	213.5	1.25
D1-9 to A26-1	RCP	16.96	750	0.442	0.66	150.5	10.62	63.27	3.502	615.4		615.4		908	0.68	1.39	2.21	2.03	2.06	100.31	98.11	98	100.03	1.19	59.3	0.01	1.24	1.49	0.1	0.12	0.15	0.06	98.79	98.64	98.64	98.66	0.02	4100.6	1.53
D1-8 to D1-9	RCP	11.47	750	0.442	0.58	173.1	10.52	63.5	3.4546	609.4		609.4		846.5	0.72	1.38	2.08	2.03	1.92	100.47	98.2	98.13	100.3	1.44	-14.6	0.02	2.06	2.39	0.1	0.2	0.23	0.04	99.01	98.78	98.76	98.79	0.13	787.1	1.46
D1-7 to D1-8	RCP	17.48	750	0.442	4.3	23.3	10.38	63.87	3.4138	605.6		605.6		2309.4	0.26	1.37	4.4	2.02	5.23	100.95	98.95	98.2	100.47	1.24	-44.3	0.02	1.65	2	0.1	0.16	0.19	0.15	99.62	99.43	99.39	99.42	0.22	454.8	1.33
D1-6 to D1-7	RCP	16.9	750	0.442	0.4	250	10.24	64.22	3.3839	603.6		603.6		704.4	0.86	1.37	1.79	2.02	1.59	101.37	99.04	98.97	100.95	1.12	21	0.02	1.82	2.21	0.1	0.17	0.21	0.05	99.84	99.63	99.59	99.62	0.24	418.7	1.53
D1-5 to D1-6	RCP	18.68	750	0.442	3.01	33.2	10.08	64.6	3.2419	581.7		581.7		1933.5	0.3	1.32	3.83	1.99	4.38	101.86	99.62	99.06	101.37	1.33	27.4	0.02	0.61	0.7	0.09	0.05	0.06	0.4	100.15	100.09	99.8	99.84	1.55	64.6	1.7
D1-4 to D1-5	RCP	77.28	750	0.442	1	100	9.44	67.24	3.1672	591.5		591.5		1113.7	0.53	1.34	2.56	2	2.52	102.9	100.41	99.64	101.88	1.48	4	0.02	0.41	0.43	0.09	0.04	0.04	0.77	100.93	100.89	100.15	100.15	0.96	104.1	1.97
D1-3 to D1-4	RCP	17.39	750	0.442	0.5	200	9.29	67.86	3.0605	576.9		576.9		787.5	0.73	1.31	1.95	1.98	1.78	103.1	100.52	100.43	102.9	1.72	0	0.02	0.9	1.37	0.09	0.08	0.09	0.08	101.09	100'	100.93	100.93	0.4	247.2	2.01
D1-2 to D1-3	RCP	16.81	750	0.442	0.5	200	9.15	68.47	2.9857	567.8		567.8		787.5	0.72	1.29	1.94	1.97	1.78	103.54	100.62	100.54	103.1	1.78	-7.7	0.02	0.99	1.17	0.08	0.08	0.1	0.07	101.2	101.1'	101.08	101.09	0.18	557.4	2.34
D1-1 to D1-2	RCP	35.05	750	0.442	0.5	200	8.86	69.73	2.8616	554.3		554.3		787.5	0.7	1.25	1.93	1.96	1.78	103.83	100.82	100.64	103.54	2.16	7.7	0.02	0.46	0.52	0.08	0.04	0.04	0.15	101.33	101.28	101.19	101.2	0.27	370.6	2.5
D10-2 to D9-2	RCP	10.17	300	0.071	0.43	230	5	86.4	0.0813	19.5		19.5		63.8	0.31	0.28	0.79	0.87	0.9	101.48	99.89	99.84	101.38	1.08	-56.7	0.075	9.7		0	0.04		0.01	100.07	100.03	100.03	100.04	0.05	954.9	1.42
D1-2 to A2-4	RCP	80.25	300	0.071	1.4	71.3	5.42	84.6	0.2243	52.7		52.7		114.6	0.46	0.75	1.59	1.21	1.62	102.05	100.78	99.65	101.12	0.96	-90	0.254	1.41		0.03	0.04		1.07	101	100.96	99.93	99.97	1.28	78.3	1.05
D1-1 to D11-2	RCP	50	225	0.04	1.4	71.4	5	86.4	0.1255	30.1		30.1		53.2	0.57	0.76	1.38	1.11	1.34	103.06	101.48	100.78	102.05	1.04	0	0	5.85		0.03	0.17		0.66	101.8	101.63	101	101	1.25	79.7	1.26
D12-1 to D4-2	RCP	14.7	225	0.04	0.67	150				0		0		36.7	0	0	0	0	0.92	101.33	100.49	100.39	101.85	0.63	90	0			0			0	100.98	100.98	100.98	101	0	1000000	0.35
D13-1 to D13-2	RCP	52.2	300	0.071	0.43	230	5	86.4	0.1453	34.9		34.9		63.8	0.55	0.49	0.92	1.04	0.9	100.38	98.83	98.6	100.68	1.25	62.7	0.02	7		0.01	0.09		0.08	99.09	99	98.94	98.94	0.12	853	1.29
D14-1 to D1-8	RCP	8.5	300	0.071	0.43	230	5	86.4	0.0168	4		4		63.8	0.06	0.06	0.5	0.57	0.9	100.48	98.63	98.6	100.47	1.38	43.6	0.419	4.83		0	0		0	99.39	99.39	99.39	99.42	0	57791.2	1.09
D15-1 to A6-1	RCP	18.9	225	0.04	1	100	5	86.4	0.0564	13.5		13.5		44.9	0.3	0.34	0.99	0.84	1.13	100.86	99.78	99.59	100.7	0.85	-90	0.02	9.7		0.01	0.06		0.07	99.94	99.88	99.84	99.84	0.22	445	0.93
D17-1 to D1-3	RCP	11.53	300	0.071	6.67	15	5	86.4	0.0323	7.8		7.8		249.8	0.03	0.11	1.6	0.67	3.53	103.82	102.24	101.47	103.1	1.25	-45	0.955	9.7		0	0.01		0.69	102.32	102.3'	101.51	101.09	6.92	14.4	1.5
D18-1 to D3-3	RCP	8.2	300	0.071	0.43	230	5	86.4	0.0603	14.5		14.5		63.8	0.23	0.2	0.73	0.8	0.9	106.98	105.22	105.19	106.95	1.26	-45.9	0.456	9.7		0	0.02		0.04	105.34	105.32	105.28	105.03	0.51	195.2	1.64
D19-4 to D1-2	RCP	51.44	300	0.071	5.4	18.5	5.23	86.38	0.0995	23.6		23.6		224.7	0.1	0.33	2.06	0.92	3.18	106.39	104.48	101.71	103.54	1.3	-82.3	1.064	2.09	2.36	0.01	0.01	0.02	2.65	104.62	104.6	101.77	101.2	5.5	18.2	1.78
D19-3 to D19-4	RCP	8.5	300	0.071	1	100	5.16	85.69	0.0995	23.7		23.7		96.7	0.24	0.33	1.13	0.93	1.37	106.4	104.59	104.5	106.39	1.34	-90	0.02	2.34	2.34	0.01	0.01	0.02	0.08	104.72	104.7'	104.61	104.62	1.1	91.1	1.68
D19-2 to D19-3	RCP	11.53	300	0.071	6.67	15	5.07	86.11	0.0995	23.8		23.8		249.8	0.1	0.34	2.23	0.93	3.53	107.44	105.63	104.86	106.4	1.29	45.7	0.27	1.89	2.5	0.01	0.01	0.01	0.61	105.76	105.75	104.92	104.72	7.14	14	1.68
D19-1 to D19-2	RCP	8.16	300	0.071	0.47	213.9	5	86.4	0.0589	14.1		14.1		66.2	0.21	0.2	0.74	0.8	0.94	107.48	105.69	105.65	107.44	1.3	45.6	0.02	9.7		0	0.02		0.03	105.8	105.78	105.76	105.76	0.29	341.6	1.68
D2-4 to D2-6	RCP	8.52	300	0.071	2	50.1	6.67	79.17	0.4569	100.5		100.5		136.7	0.74	1.42	2.11	1.62	1.93	103.5	101.9	101.73	103.48	1.13	86.4	0.655	1.7	2.21	0.1	0.17	0.21	0.13	102.35	102.15	101.92	101.76	2.64	37.9	1.15
D2-3 to D2-4	RCP	35.58	300	0.071	5.11	19.6	6.38	80.45	0.4569	102.1		102.1		218.8	0.47	1.44	3.04	1.64	3.09	105.12	103.74	101.92	103.5	1.09	23.5	0.02	2.56	2.33	0.11	0.27	0.3	1.7	104.29	103.99	102.32	102.35	4.68	21.4	0.83
D2-2 to D2-3	RCP	87.84	300	0.071	0.94	106.7	5.65	83.61	0.1979	46		46		93.7	0.49	0.65	1.32	1.15	1.33	106.06	104.58	103.76	105.12	1.04	-37.3	0.02	0.59		0.02	0.01		0.54	104.76	104.75	104.26	104.29	0.56	179.4	1.3
D2-1 to D2-2	RCP	77.51	225	0.04	0.99	100.6	5	86.4	0.142	34.1		34.1		44.8	0.76	0.86	1.24	1.17	1.13	106.21	105.43	104.66	106.06	0.55	0	0.075	5.31		0.04	0.2		0.77	105.78	105.58	104.61	104.76	1	99.7	0.43
D20-1 to D3-7	RCP	8.51	375	0.11	0.32	311.1	5	86.4	0.028	6.7		6.7		99.4	0.07	0.06	0.51	0.62	0.9	101.43	100.33	100.3	101.43	0.55	106.5	0.523	9.7		0	0		0.03	100.4	100.4	100.36	100.39	0.42	237.9	1.03
D21-1 to D1-4	RCP	20.25	225	0.04	7.39	13.5	5	86.4	0.0237	5.7		5.7		122.1	0.05	0.14	1.57	0.65	3.07	104	103.05	101.56	102.6	0.7	-90	1.143	7		0	0.01		1.42	103.12	103.1'	101.59	100.93	7.52	13.3	0.88
D22-3 to EXJ-12	RCP	9.18	300	0.071	0.5	200	5.28	85.19	0.0903	21.4		21.4		68.4	0.31	0.3	0.86	0.9	0.97	104.26	101.05	101.01	103.33	2.02	0		2.09	2.36	0	0.01	0.01	0.05	101.18	101.17	101.12	101.12	0.54	183.8	3.08
D22-2 to D22-3	RCP	25.52	300	0.071	7.58	13.2	5.07	86.1	0.0903	21.6		21.6		266.3	0.08	0.31	2.27	0.9	3.77	106.35	104.63	102.69	104.28	1.11	46.3	1.641	3.73	4.22	0	0.02	0.02	1.77	104.76	104.74	102.75	101.18	7.79	12.8	1.59
D22-1 to D22-2	RCP	8.21	300	0.071	0.5	200	5	86.4	0.0364	8.7		8.7		68.4	0.13	0.12	0.66	0.7	0.97	106.34	104.69	104.65	106.35	1.18	114.2	0.02	9.7		0	0.01		0.02	104.77	104.76	104.76	104.76	0.06	562.6	1.56
D23-1 to D1-3	RCP	8.5	300	0.071	0.43	230	5	86.4	0.0424	10.2		10.2		63.8	0.16	0.14	0.66	0.73	0.9	103.1	101.32	101.28	103.1	1.31	89.9	0.763	9.7		0	0.01		0.04	101.41	101.4	101.36	101.09	0.5	201.3	1.69
D24-1 to D6-3	RCP	8.5	300	0.071	0.43	230	5	86.4	0.0289	6.9		6.9		63.8	0.11	0.1	0.59	0.65	0.9	99.86	98.64	98.61	99.88	0.75	64.3	0.025	9.7		0	0		0	99.03	99.03	99.02	99.04	0.01	19454.6	0.83
D3-2 to A28-1	RCP	9.57	300	0.071	0.43	230	5.43	84.52	0.1453	34.1		34.1		63.8	0.53	0.48	0.92	1.04	0.9	100.66	98.58	98.54	100.4	1.51	27.3	0.223	2.41	2.7	0.01	0.03	0.03	0.01	98.94	98.9	98.9	98.93	0.12	804.1	1.72
D3-7 to D5-8	RCP	10.24	375	0.11	8.18	12.2	7	77.77	0.9185	198.4		198.4		501.8	0.4	1.8	4.28	1.96	4.54	101.43	99.78	98.94	100.8	1.13	37.1	0.02	1.46	1.72	0.16	0.24	0.28	0.59	100.39	100.'	99.54	99.57	5.48	18.2	1.04
D3-6 to D5-7	RCP	30.36	375	0.11	4.2	23.8	6.75	78.86	0.8626	189		189		359.4	0.53	1.71	3.29	1.9	3.25	103.46	101.08	99.8	101.43	1.28	16.5	0.02	2.04	2.48	0.15	0.3	0.37	1.08	101.76	101.39	100.35	100.39	3.45	29	1.7
D3-5 to D5-6	RCP	27.95	300	0.071	7.68	13	5.81	82.88	0.4057	93.4		93.4		268.2	0.35	1.32	3.45	1.56	3.79	105.73	103.95	101.81	103.48	1.31	0	0.732	2.13	2.55	0.09	0.19	0.23	1.78	104.42	104.19	101.93	101.76	8.1	12.4	1.31
D3-4 to D5-5	RCP	8.51	300	0.071	0.5	200	5.74	83.19	0.2641	61		61		68.4	0.89	0.86	1.09	1.28	0.97	105.78	104.02	103.97	105.73	1.28	87.3	0.02	2.01	2.28	0.04	0.08	0.09	0.03	104.5	104.42	104.38	104.42	0.4	251.2	1.27
D3-3 to D5-4	RCP	11.36	300	0.071	6.12	16.3	5.65	83.6	0.2641	61.3		61.3		239.4	0.26	0.87	2.83	1.28	3.39	106.95	104.73	104.04	105.78	1.49	-43.2	0.02	2.28	2.52	0.04	0.09	0.1	0.48	105.03	104.93	104.49	104.5	3.81	26.2	1.92
D3-2 to D3-3	RCP	69.66	300	0.071	1.1	91.1	5.07	86.1	0.1633	39.1		39.1		101.3	0.39	0.55	1.34	1.08	1.43	107.18	105.52	104.75	106.95	1.36	44	0.02	2.26	2.56	0.02	0.04	0.04	0.7	105.71	105.67	105.01	105.03	0.94	106.1	1.46
D3-1 to D5-2	RCP	8.2	300	0.071	0.43	230	5	86.4	0.0967	23.2		23.2		63.8	0.36	0.33	0.83	0.92	0.9	107.18	105.57	105.54	107.18	1.25	-90	0.02	9.7		0.01	0.05		0.02	105.77	105.7'	105.7	105.71	0.1	977.9	1.41
D4-3 to D7-2	RCP	33.66	225	0.04	3.45	29	5.65	83.57	0.178	41.3		41.3		83.5	0.49	1.04	2.09	1.28	2.1	101.15	100.07	98.91	100.07	0.79	82.6	0.389	2.08	2.37	0.06	0.11	0.13	1.14	100.38	100.25	99.05	99.06	3.56	28.1	0.78
D4-2 to D4-3	RCP	59.21	225	0.04	0.5	200	5.16	85.7	0.178	42.4		42.4		31.8	1.33	1.07	1.07	1.3	0.8	101.85	100.39	100.09	101.15	0.84	47.1	0.02	1.64	2.31	0.06	0.1	0.12	0.53	101	100.89	100.36	100.38	0.89	112.4	0.85
D4-1 to D4-2	RCP	19.33	225	0.04	5	20	5	86.4	0.1163	27.9		27.9		100.4	0.28	0.7	2.16	1.08	2.53	102.54	101.38	100.41	101.85	0.92	-90	0.02	6.17		0.03	0.16		0.57	101.67	101.52	100.98	101	2.77	36.2	0.87
D5-1 to D4-1	RCP	30.6	375	0.11	4.59	21.8	5.16	85.72	0.1004	23.9		23.9		375.9	0.06	0.22	1.9	0.88	3.4	105.29	103.88	102.47	103.83	0.9	-90	1.647	2.2	2.36	0	0.01	0.01	1.32	104	103.99	102.53	101.33	4.74	21.1	1.29
D6-3 to D7-3	RCP	7.63	300	0.071	0.43	230	5.59	83.87	0.2327	54.2		54.2		63.8	0.85	0.77	1.01	1.22	0.9	99.86	98.58	98.55	100.07	0.99	65.3	0.06	1.83	2.38	0.03	0.05	0.07	0.02	99.04	98.97	98.95	98.97	0.31	318.5	0.82
D6-2 to D6-3	RCP	61.88	300	0.071	0.54	185.1	5.07	83.09	0.1206	28.8		28.8		71.1	0.41	0.41	0.95	0.98	1.01	100.68	98.92	98.58	99.86	0.98	-25.7	0	5.79	5.38	0.01	0.05	0.05	0.07	99.12	99.07	99.02	99.04	0.07	373.1	1.56
D6-1 to D6-2	RCP	8.52	300	0.071	0.5	200	5	86.4	0.0155	3.7		3.7		68.4	0.05	0.05	0.52	0.56	0.97	100.68	98.98	98.94	100.68	1.23	89.8	0.02	9.7		0	0		0	99.12	99.12	99.12	99.12	0	96479.7	1.56
D7-3 to A25-1	RCP	8.5	375	0.11	0.99	101.2	5.96	82.24	0.5332	121.8		122		174.3	0.7	1.1	1.71	1.51	1.58	100.08	98.54	98.46	99.87	0.87	-0.3	0	2.33	2.73	0.06	0.14	0.17	0.07	98.97	98.8	98.75	98.75	0.52	191.3	1.11
D7-2 to D7-3	RCP	3.23	300	0.071	0.43	230	5.93	82.36	0.2687	61.5		61.5		63.8	0.96	0.87	1.03	1.28	0.9	100.07	98.52	98.51	100.07	1.25	-90	0.02	2.24	2.6	0.04	0.09	0.1	0.01	99.06	98.96	98.95	98.97	0.4	247.6	1.01
D7-1 to D7-2	RCP	38.02	300	0.071	0.43	230	5	86.4	0.0601	14.4		14.4		63.8	0.23	0.2	0.73	0.8	0.9	100.21	98.71	98.54	100.07	1.04	-5.7	0.02	7		0	0.01		0.01	99.07	99.05	99.05	99.06	0.02	4500.8	1.14
D8-1 to D1-5	RCP	8.5	300	0.071	0.43	230	5	86.4	0.0336	8.1		8.1		63.8	0.13	0.11	0.62	0.68	0.9	101.86	100.14	100.1	101.88	1.25	34	0.48	9.7		0	0.01		0.04	100.22	100.2'	100.17	100.15	0.49	203.6	1.64
D9-3 to A'9-1	RCP	29.6	375	0.11	0.4	250	5.78	83.02	0.3653	84.2		84.2		110.9	0.76	0.76	1.1	1.3	1	101	99.59	99.47	100.72	0.88	-90	0.162	0.95		0.03	0.03		0.13	99.86	99.84	99.69	99.63	0.51	196.9	1.13
D9-2 to D9-3	RCP	38.81	375	0.11	0.4	250	5.46	84.41	0.3059	71.7		71.7		110.9	0.65	0.65	1.07	1.23	1	101.39	99.77	99.61	10'	1.02	0	0.02	1.79	2.33	0.02	0.04	0.05	0.14	100.04	99.99	99.86	99.86	0.32	317.4	1.36
D9-1 to D5-2	RCP	55.19	375	0.11	1.72	58.2	5	86.4	0.1102	26.4		26.4		229.9	0.12	0.24	1.39	0.91	2.08	102.68	100.74	99.79	101.36	1.23	0	0.02	7		0	0.02		0.86	100.87	100.85	100.03	100.04	1.5	66.8	1.8
E1-7 to D1-1	RCP	27.45	750	0.442	0.67	150	8.63	70.72	2.7612	542.4		542.4		909.4	0.6	1.23	2.15	1.94	2.06	103.78	101.02	100.84	103.83	1.98	0	0.02	0.56	0.57	0.08	0.04	0.04	0.18	101.52	101.48	101.32	101.33	0.57	175.4	2.26

No.	REVISION	DATE	DES/DFT	APPROVED
B	DRAINAGE COMPUTATION UPDATED	26.06.26	KI	MR
A	ISSUED FOR APPROVAL	03.12.25	KI	MR

RESIMAX GROUP

Issued for Approval
Not to be used for construction

Melway Reference
226 B4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

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Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP
STAGE 26D
WYNDHAM CITY COUNCIL
20% AEP DRAINAGE
DRAINAGE COMPUTATIONS
HYDRAULICS

Drawing No: 24041-26D-112
Revision: B
Sheet No: 03 of 03
Scale @ A1
NTS

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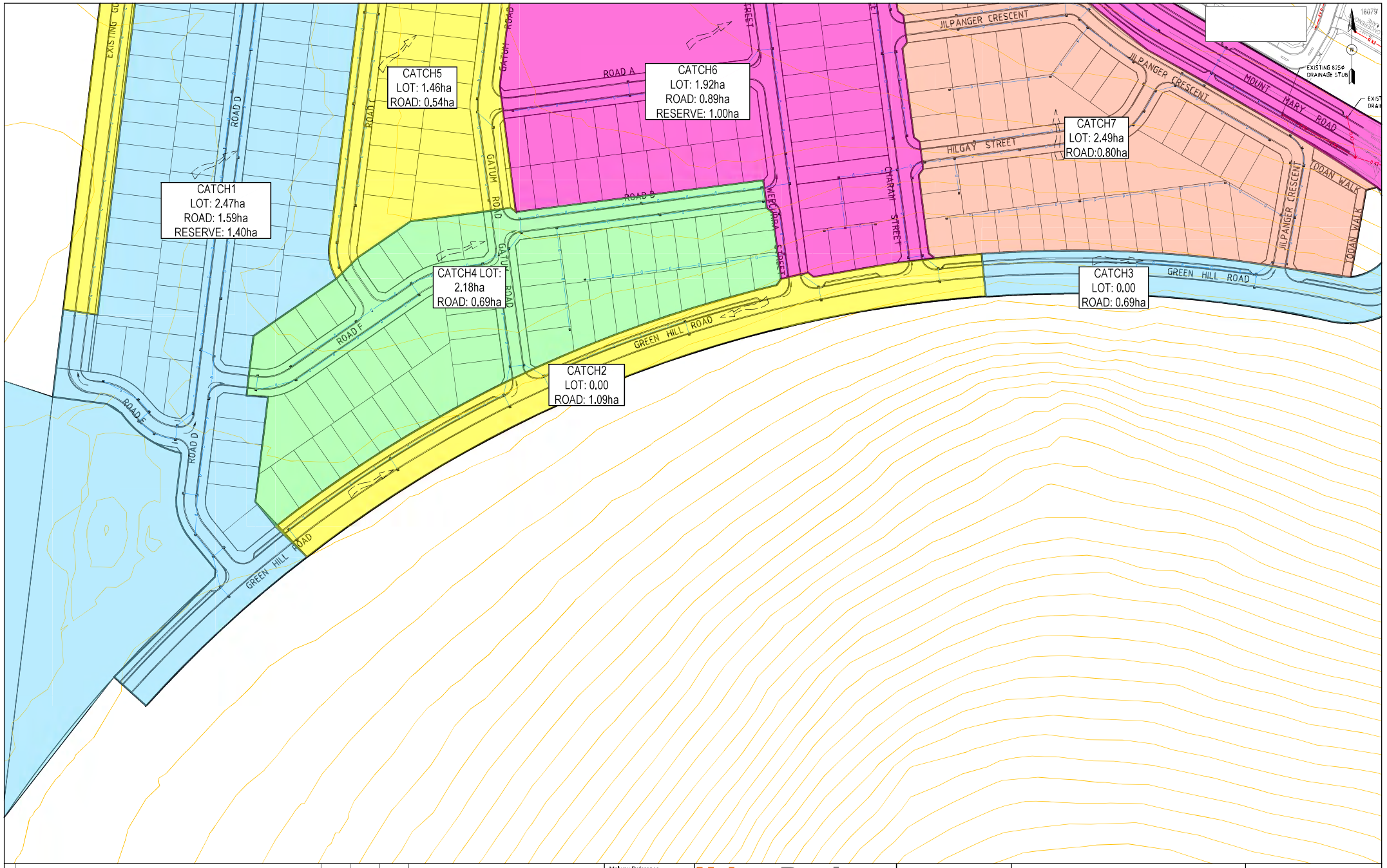
ABN 62 525 443 156

file name 24041-26D-110-112-QS DRAINAGE.dwg layout name 112 file location L:\Work\End\24041 Eynesbury\Stage 26\Stage 26D\Drawings



B	PLAN REVISED	07.04.25	KI	MR
A	ISSUED FOR INFORMATION	07.06.23	AY	MR
No.	REVISION	DATE	DES/DFT	APPROVED

Preliminary Plan
Not to be used for construction

Melway Reference
226 A2

Principal

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Date
DECEMBER 2024

EYNESBURY TOWNSHIP

STAGE 26
CITY OF MELTON
1% AEP CATCHMENT PLANS 1 OF 3

Drawing No: 24041-26-110
Revision: B
Sheet No: 01 of 05
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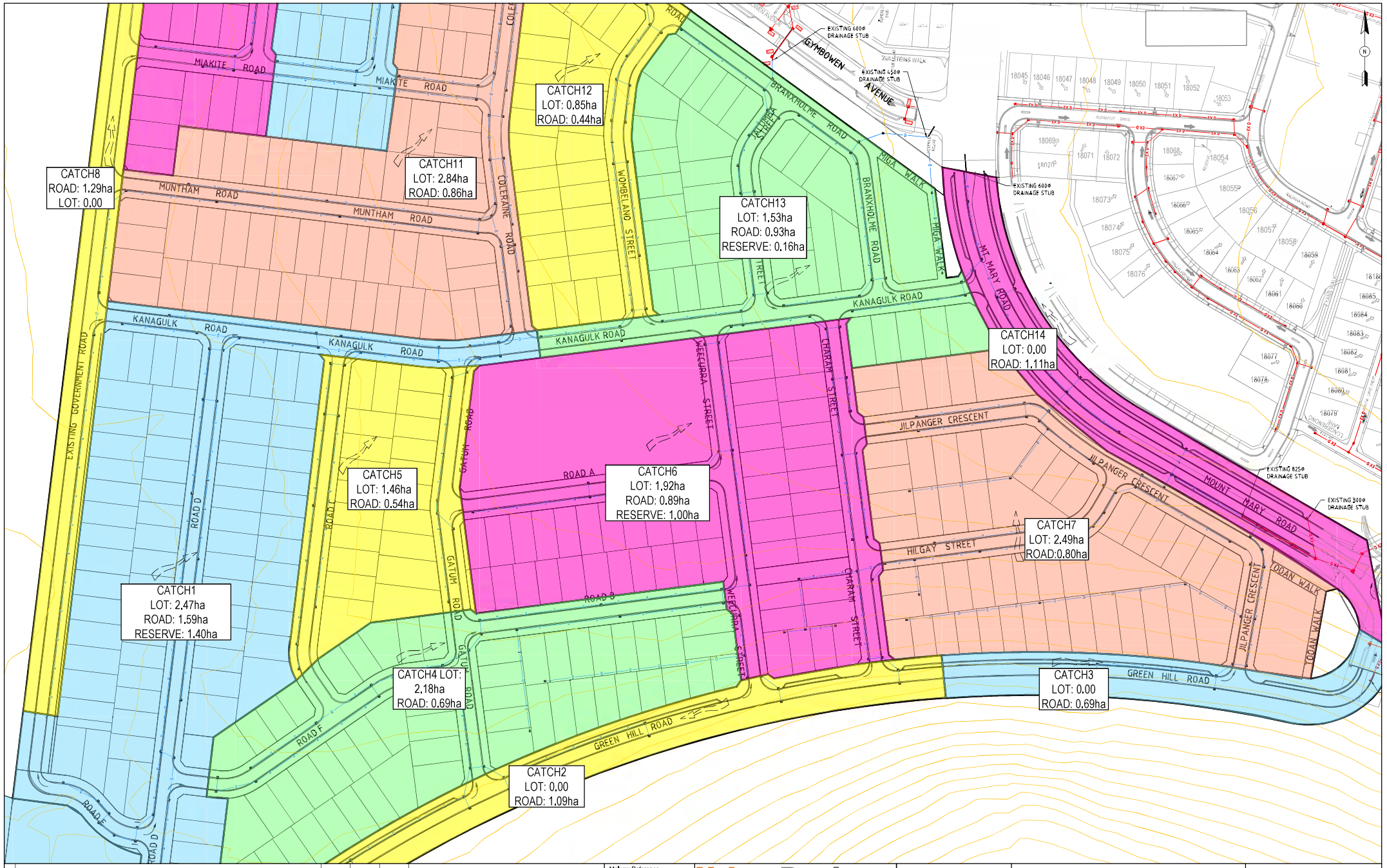

No.	REVISION	DATE	DES/DFT	APPROVED
B	PLAN REVISED	07.04.25	KI	MR
A	ISSUED FOR INFORMATION	07.06.23	AY	MR

Preliminary Plan
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Melway Reference
226 A2

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Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

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Y. ARAVIND

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
DECEMBER 2024

EYNESBURY TOWNSHIP

STAGE 26
CITY OF MELTON
1% AEP CATCHMENT PLANS 2 OF 3

Drawing No: 24041-26-111
Revision: B
Sheet No: 02 of 05
Scale @ A1 1:1,000
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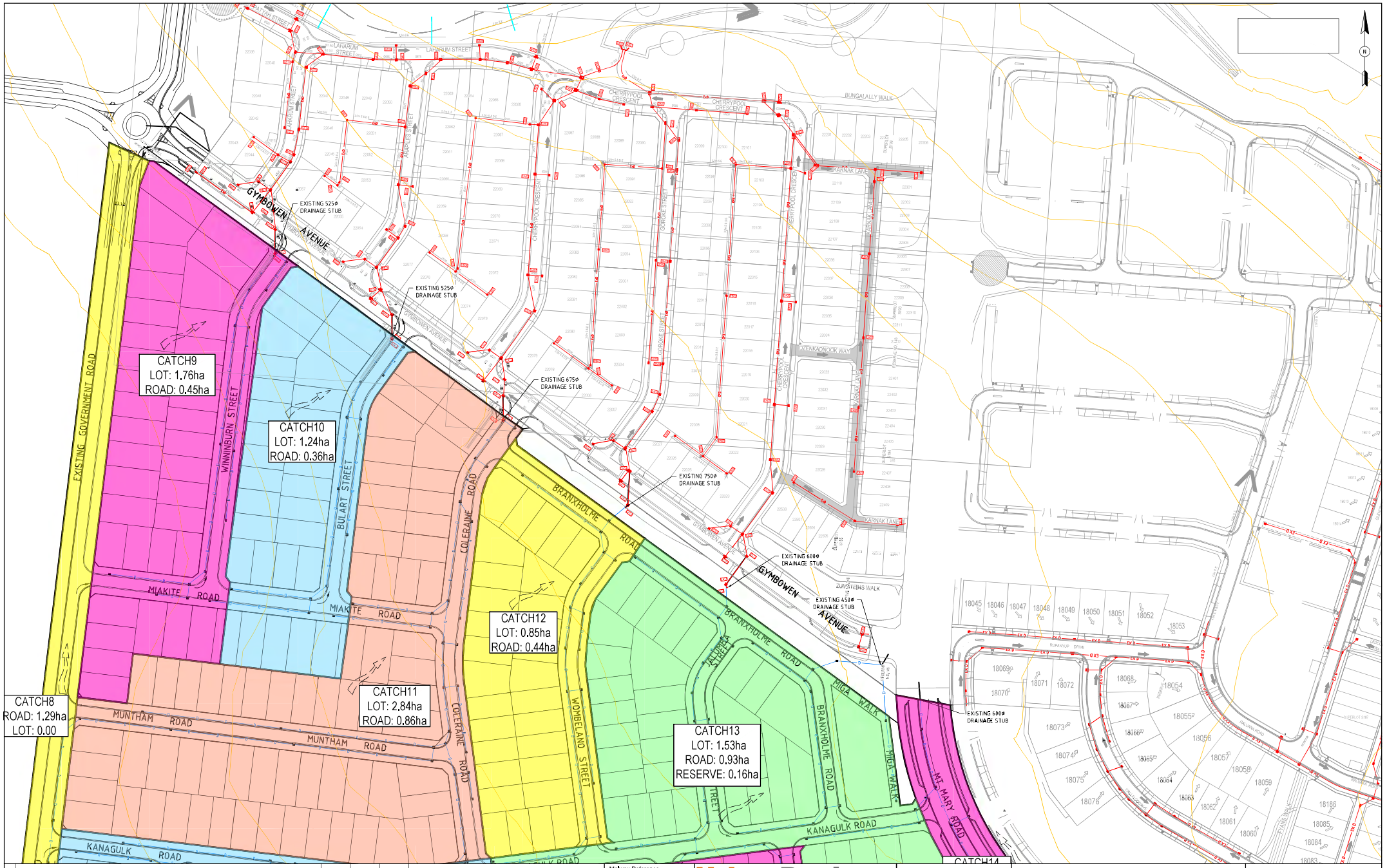
file name 24041-26 - 180 - 1% AEP STRATEGY.dwg layout name 111 file location L:\Work\Eng\24041 Eynesbury\Stage 26\ General\Drawings



No.	REVISION	DATE	DES/DFT	APPROVED
B	PLAN REVISED	07.04.25	KI	MR
A	ISSUED FOR INFORMATION	07.06.23	AY	MR

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A. GRODZKI

Date
DECEMBER 2024

EYNESBURY TOWNSHIP

STAGE 26
CITY OF MELTON
1% AEP CATCHMENT PLANS 3 OF 3

Drawing No: 24041-26-112
Revision: B
Sheet No: 03 of 05
Scale @ A1 1:1,000
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100 YR OVERLAND DRAINAGE COMPUTATIONS

PROJECT: Eynesbury Township
JOB NO: 24041
COUNCIL: Melton City Council
DESIGNED: KI DATE: 4.04.25
CHECKED: MR DATE: 4.04.25

Coeffiecient of Runoff	f	C'_{10}	C_{10}	F_y	F_{100}	STORM EVENT 5 year	STORM EVENT 100 year
Lots - High Density	0.746	0.15446	0.711	0.950	1.200	0.575	0.853
Road	0.600	0.15446	0.602	0.950	1.200	0.572	0.722
Reserve	0.250	0.15446	0.341	0.950	1.200	0.324	0.409
Rural	0.200	0.15446	0.304	0.950	1.200	0.288	0.364

Note
Coeffiecient of Runoff from EDCM

CATCHMENT	CATCHMENT AREAS Lots	Road	Reserve	Rural	Saturation Time	Length	Velocity	5 YEAR FLOW Ae	Ae Total	tc	I	Q	100 YEAR FLOW Ae	Ae Total	tc	I	Q	Qexcess	COMMENTS
	ha	ha	ha	ha	min	m	m/s	ha	ha	min	mm/hr	m3/s	ha	ha	min	mm/hr	m3/s	m3/s	
1	2.47	1.59	1.49		6.00	459	1.00	3.93	3.93	13.59	57.10	0.45	3.83	3.83	20.25	98.96	1.05	**0.57**	
2	0.30	1.09	0.00		6.00	351	1.00	0.62	0.62	11.66	62.37	0.11	0.79	0.79	17.78	107.69	0.24	**0.13**	
3	0.30	0.69	0.00		6.00	251	1.00	0.39	0.39	10.18	64.31	0.07	0.50	0.50	15.28	114.97	0.15	**0.09**	
4	2.18	0.69	0.00			246	1.00	1.87	2.49	15.96	53.54	0.37	2.36	3.14	23.93	91.28	0.80	**0.43**	+2
5	1.46	0.54	0.00		6.00	207	1.00	1.29	1.29	9.45	67.39	0.24	1.63	1.63	14.18	119.10	0.54	**0.30**	
6	1.92	0.89	1.00			248	1.00	2.13	4.62	20.08	45.22	0.59	2.69	5.83	30.13	78.27	1.27	**0.68**	+4+2
7	2.49	0.80	0.00		6.00	180	1.00	2.14	2.14	9.00	67.39	0.40	2.70	2.70	13.50	123.62	0.93	**0.52**	
8	1.29	0.00	0.00		6.00	636	1.00	0.87	0.87	16.60	51.35	0.13	1.10	1.10	24.90	89.10	0.27	**0.15**	
9	1.76	0.45	0.00		6.00	154	1.00	1.45	1.45	8.57	71.42	0.29	1.83	1.83	12.85	128.60	0.65	**0.37**	
10	1.24	0.36	0.00		6.00	170	1.00	1.04	1.04	8.93	71.42	0.21	1.32	1.32	13.25	123.62	0.45	**0.25**	
11	2.34	0.86	0.00			192	1.00	2.41	4.57	16.79	51.35	0.66	3.04	5.77	25.05	87.35	1.40	**0.74**	+(1+5)/2
12	0.35	0.44	0.00		6.00	182	1.00	0.83	0.83	9.03	67.39	0.16	1.04	1.04	13.55	123.62	0.35	**0.20**	
13	1.33	0.93	0.16			192	1.00	1.62	9.22	23.28	42.38	1.10	2.04	11.65	34.93	72.51	2.35	**1.25**	=13+12+6+(1+5)/2
14	0.30	1.11	0.00			345	1.00	0.63	12.36	29.03	37.70	1.30	0.80	15.65	43.55	62.82	2.73	**1.43**	=+3+7+13

Grade	Assumed mannings velocities (m/s)
1:500	0.5
1:200	0.7
1:100	1.0
1:50	1.5
1:20	2.0

No.	REVISION	DATE	DES/DFT	APPROVED
B	PLAN REVISED	07.04.25	KI	MR
A	ISSUED FOR INFORMATION	07.06.23	AY	MR

Preliminary Plan
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Melway Reference
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Checked
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Approved
A. GRODZKI

Date
DECEMBER 2024

EYNESBURY TOWNSHIP
STAGE 26
CITY OF MELTON
1% AEP CATCHMENT COMPUTATIONS

Drawing No: 24041-26-113
Revision: B
Sheet No: 04 of 05
Scale @ A1 1:1,000
0 10 20 40

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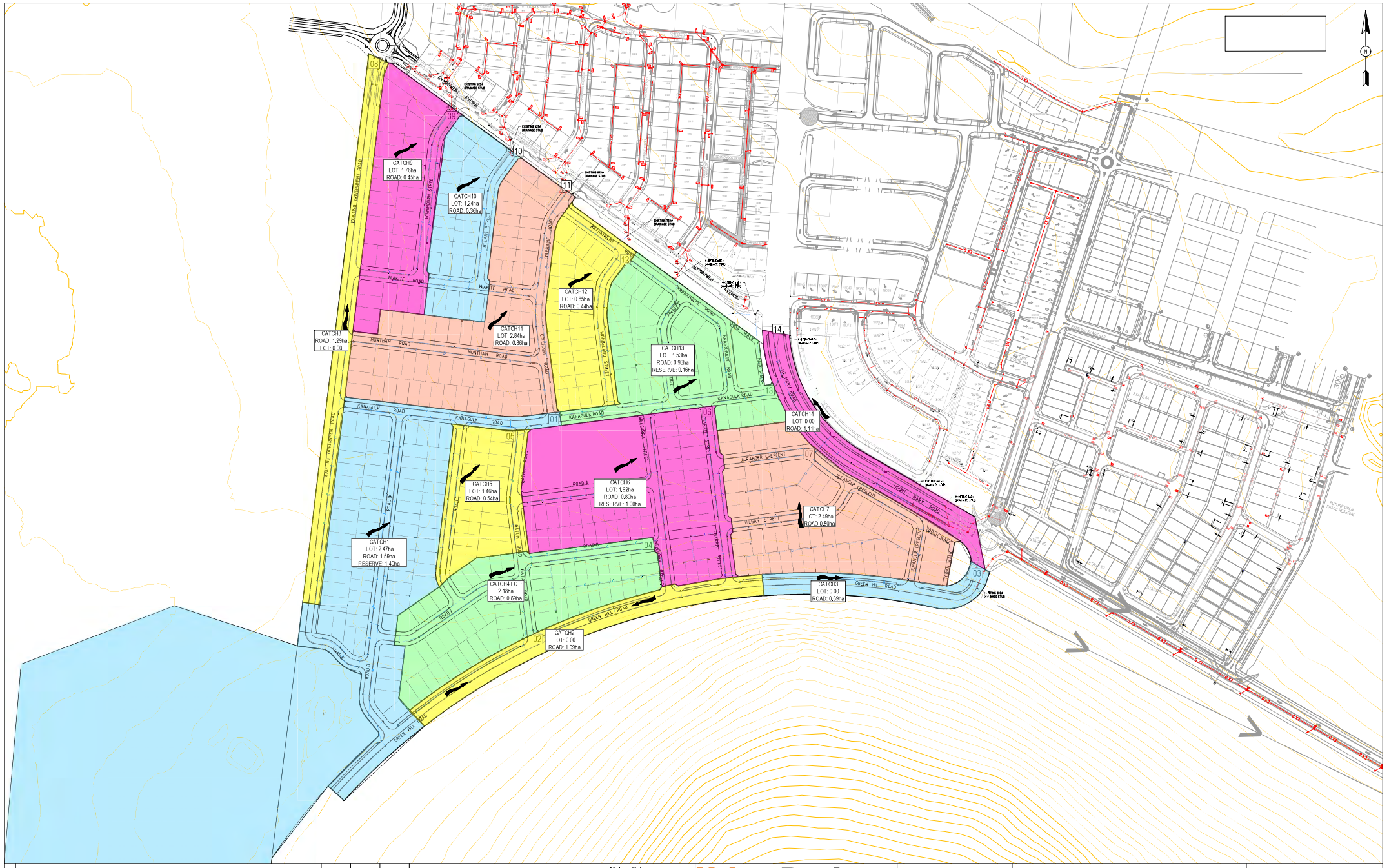

B	UPDATED CATCHMENTS	07.04.25	KI	MR
A	ISSUED FOR INFORMATION	07.06.23	AY	MR
No.	REVISION	DATE	DES/DFT	APPROVED

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Checked
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Approved
A. GRODZKI

Date
DECEMBER 2024

EYNESBURY TOWNSHIP
STAGE 26
CITY OF MELTON
1% AEP CATCHMENT PLAN
OVERALL PLAN

Drawing No: 24041-26-112
Revision: B
Sheet No: 05 of 05
Scale @ A1 1:2000
0 20 40 80

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PLEASE REVIEW IN CONJUCTION WITH STAGE 26 OVERALL 1% AEP PLAN & COMPUTATIONS

PROJECT: Stage 26 MR
SECTION 3
Print-out date: 01/12/2025 - Time: 8:49
Data File: L:\Work\Eng\24041_Eynesbury\Stage 26_General\Design\12D\Stage_26\SECTION 3.pce

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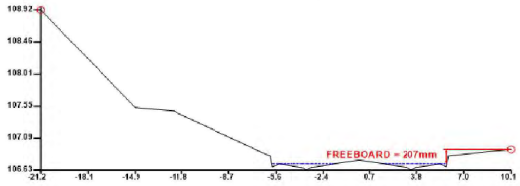


2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.09 cumecs

There is no pipe discharge
Overland/channel/watercourse discharge = 0.09 cumecs

3. RESULTS: Water surface elevation = 106.723m

Grade = 1 in 200

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.09	0.00	0.09
D(Max) = Max. Depth (m):	0.00	0.09	0.00	0.09
D(Ave) = Ave. Depth (m):	0.00	0.03	0.00	0.03
V = Ave. Velocity (m/s):	0.00	0.35	0.00	0.35
D(Max) x V (cumecs/m):	0.00	0.03	0.00	0.03
D(Ave) x V (cumecs/m):	0.00	0.01	0.00	0.01
Froude Number:	0.00	0.63	0.00	N/A
Area (m^2):	0.00	0.25	0.00	0.25
Wetted Perimeter (m):	0.00	8.27	0.00	8.27
Flow Width (m):	0.00	8.22	0.00	8.22
Hydraulic Radius (m):	0.00	0.03	0.00	0.03
Composite Manning's n:	0.000	0.020	0.000	N/A
Split Flow?	-	-	-	Yes

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	LEFT HAND POINT R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	RIGHT HAND POINT R.L. (m)	MANNING'S N
1	-21.200	108.920	-14.950	107.530	0.020
2	-14.950	107.530	-14.900	107.529	0.020
3	-14.900	107.529	-12.400	107.479	0.020
4	-12.400	107.479	-5.950	106.834	0.020
5	-5.950	106.834	-5.800	106.684	0.020
6	-5.800	106.684	5.350	106.724	0.020
7	-5.350	106.724	-3.800	106.673	0.020
8	-3.800	106.673	-3.500	106.633	0.020
9	-3.500	106.633	3.200	106.673	0.020
10	-3.200	106.673	0.000	106.779	0.020
11	0.000	106.779	3.200	106.673	0.020
12	3.200	106.673	3.500	106.633	0.020

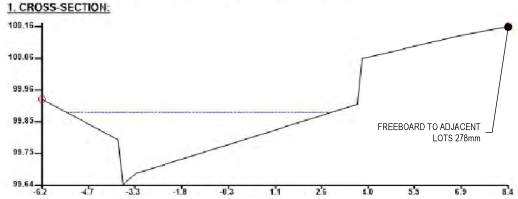
4. CROSS-SECTION DATA: (continued)

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	LEFT HAND POINT R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	RIGHT HAND POINT R.L. (m)	MANNING'S N
13	3.500	106.633	3.800	106.673	0.020
14	3.800	106.673	5.350	106.724	0.020
15	5.350	106.724	5.800	106.684	0.020
16	5.800	106.684	5.950	106.834	0.020
17	5.950	106.834	8.550	106.899	0.020
18	8.550	106.899	10.050	106.929	0.020
19	10.050	106.929	10.100	106.930	0.020

SECTION 3 (BOLAC ROAD, CH68.99)

PROJECT: Stage 26 MR
SECTION 7
Print-out date: 01/12/2025 - Time: 8:56
Data File: L:\Work\Eng\24041_Eynesbury\Stage 26_General\Design\12D\Stage_26\SECTION 7.pce

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.52 cumecs

There is no pipe discharge
Overland/channel/watercourse discharge = 0.52 cumecs

3. RESULTS: Water surface elevation = 99.882m

Grade = 1 in 250

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.53	0.00	0.53
D(Max) = Max. Depth (m):	0.00	0.24	0.00	0.24
D(Ave) = Ave. Depth (m):	0.00	0.10	0.00	0.10
V = Ave. Velocity (m/s):	0.00	0.66	0.00	0.66
D(Max) x V (cumecs/m):	0.00	0.16	0.00	0.16
D(Ave) x V (cumecs/m):	0.00	0.06	0.00	0.06
Froude Number:	0.00	0.68	0.00	0.68
Area (m^2):	0.00	0.80	0.00	0.80
Wetted Perimeter (m):	0.00	8.31	0.00	8.31
Flow Width (m):	0.00	8.24	0.00	8.24
Hydraulic Radius (m):	0.00	0.10	0.00	0.10
Composite Manning's n:	0.000	0.020	0.000	0.020
Split Flow?	-	-	-	No

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	LEFT HAND POINT R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	RIGHT HAND POINT R.L. (m)	MANNING'S N
1	-6.150	99.926	-3.800	99.792	0.020
2	-3.800	99.792	-3.650	99.642	0.020
3	-3.650	99.642	-3.200	99.682	0.020
4	-3.200	99.682	0.000	99.788	0.020
5	0.000	99.788	3.200	99.893	0.020
6	3.200	99.893	3.650	99.908	0.020
7	3.650	99.908	3.800	100.058	0.020
8	3.800	100.058	6.800	100.133	0.020
9	6.800	100.133	8.300	100.163	0.020
10	8.300	100.163	8.350	100.164	0.020

SECTION 7 (JILPANGER CRESCENT, CH117.625)

PROJECT: Stage 26 MR
SECTION 6
Print-out date: 01/12/2025 - Time: 9:14
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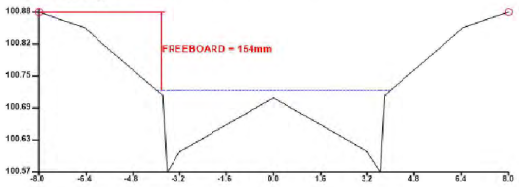

2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.48 cumecs

There is no pipe discharge
Overland/channel/watercourse discharge = 0.48 cumecs

3. RESULTS: Water surface elevation = 100.726m

Grade = 1 in 50

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.71	0.00	0.71
D(Max) = Max. Depth (m):	0.00	0.16	0.00	0.16
D(Ave) = Ave. Depth (m):	0.00	0.07	0.00	0.07
V = Ave. Velocity (m/s):	0.00	1.22	0.00	1.22
D(Max) x V (cumecs/m):	0.00	0.20	0.00	0.20
D(Ave) x V (cumecs/m):	0.00	0.09	0.00	0.09
Froude Number:	0.00	1.44	0.00	1.44
Area (m^2):	0.00	0.58	0.00	0.58
Wetted Perimeter (m):	0.00	8.13	0.00	8.13
Flow Width (m):	0.00	8.00	0.00	8.00
Hydraulic Radius (m):	0.00	0.07	0.00	0.07
Composite Manning's n:	0.000	0.020	0.000	0.020
Split Flow?	-	-	-	No

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	LEFT HAND POINT R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	RIGHT HAND POINT R.L. (m)	MANNING'S N
1	-8.000	100.879	-7.950	100.878	0.020
2	-7.950	100.878	-6.450	100.848	0.020
3	-6.450	100.848	-3.800	100.716	0.020
4	-3.800	100.716	-3.650	100.566	0.020
5	-3.650	100.566	-3.200	100.606	0.020
6	-3.200	100.606	0.000	100.711	0.020
7	0.000	100.711	3.200	100.606	0.020
8	3.200	100.606	3.650	100.566	0.020
9	3.650	100.566	3.800	100.716	0.020
10	3.800	100.716	6.450	100.848	0.020
11	6.450	100.848	7.950	100.878	0.020
12	7.950	100.878	8.000	100.879	0.020

SECTION 6 (CHARAM STREET, CH204.134)

No.	REVISION	DATE	DES/DFT	APPROVED
A	ISSUED FOR APPROVAL	28.11.25	AA	MR

RESIMAX GROUP

Issued for Approval
Not to be used for construction

Melway Reference
226 B4

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Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP
STAGE 26D
WYNDHAM CITY COUNCIL
1% AEP DRAINAGE COMPUTATIONS
FREEBOARD CHECKS

Drawing No: 24041-26D-113
Revision: A
Sheet No: 01 of 01
Scale @ A1

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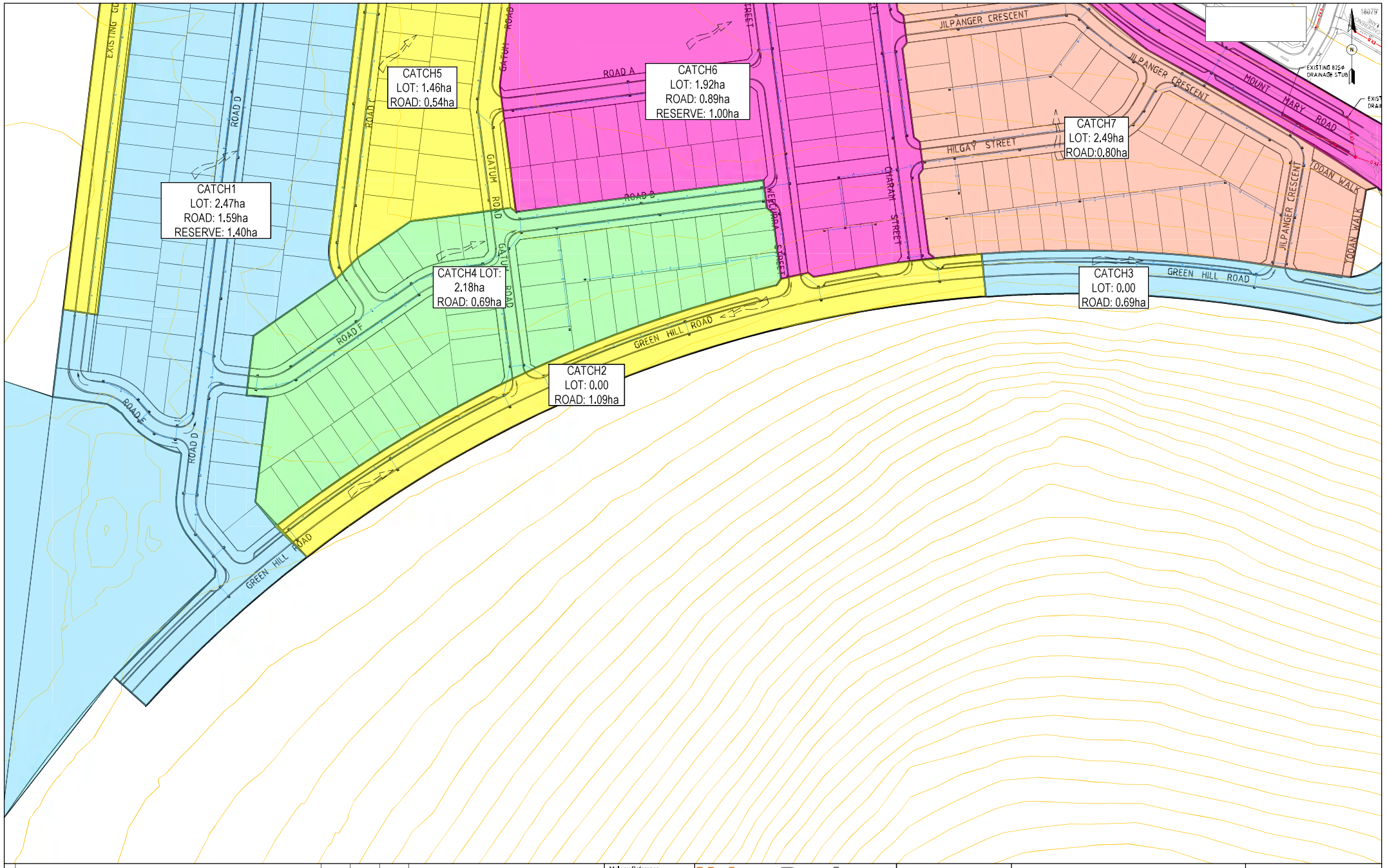

B	PLAN REVISED	07.04.25	KI	MR
A	ISSUED FOR INFORMATION	07.06.23	AY	MR
No.	REVISION	DATE	DES/DFT	APPROVED

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Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
DECEMBER 2024

EYNESBURY TOWNSHIP

STAGE 26
CITY OF MELTON
1% AEP CATCHMENT PLANS 1 OF 3

Drawing No: 24041-26-110
Revision: B
Sheet No: 01 of 05
Scale @ A1 1:1,000 (0 10 20 40)

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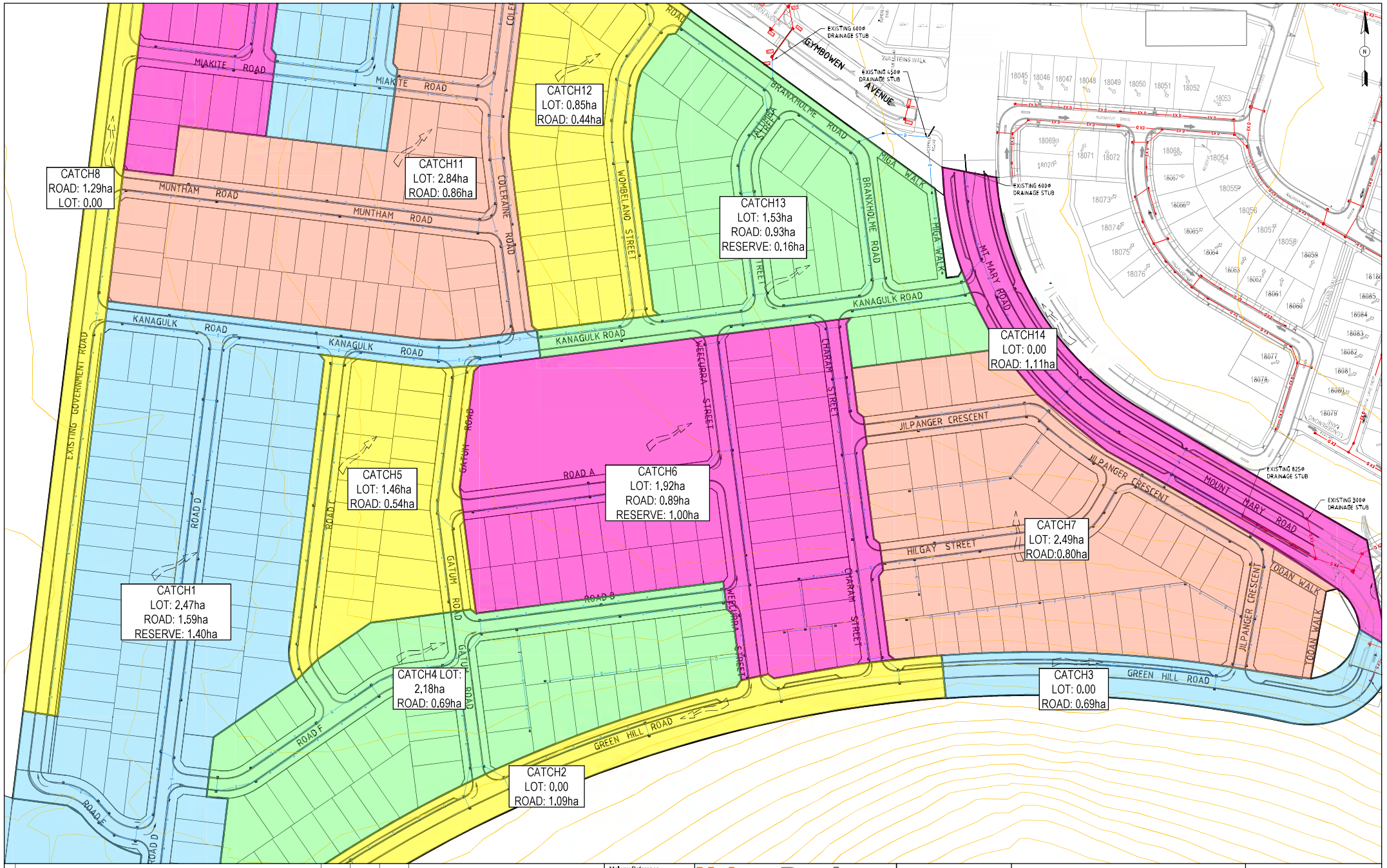

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A	ISSUED FOR INFORMATION	07.06.23	AY	MR

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Date
DECEMBER 2024

EYNESBURY TOWNSHIP

STAGE 26
CITY OF MELTON
1% AEP CATCHMENT PLANS 2 OF 3

Drawing No: 24041-26-111
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Sheet No: 02 of 05
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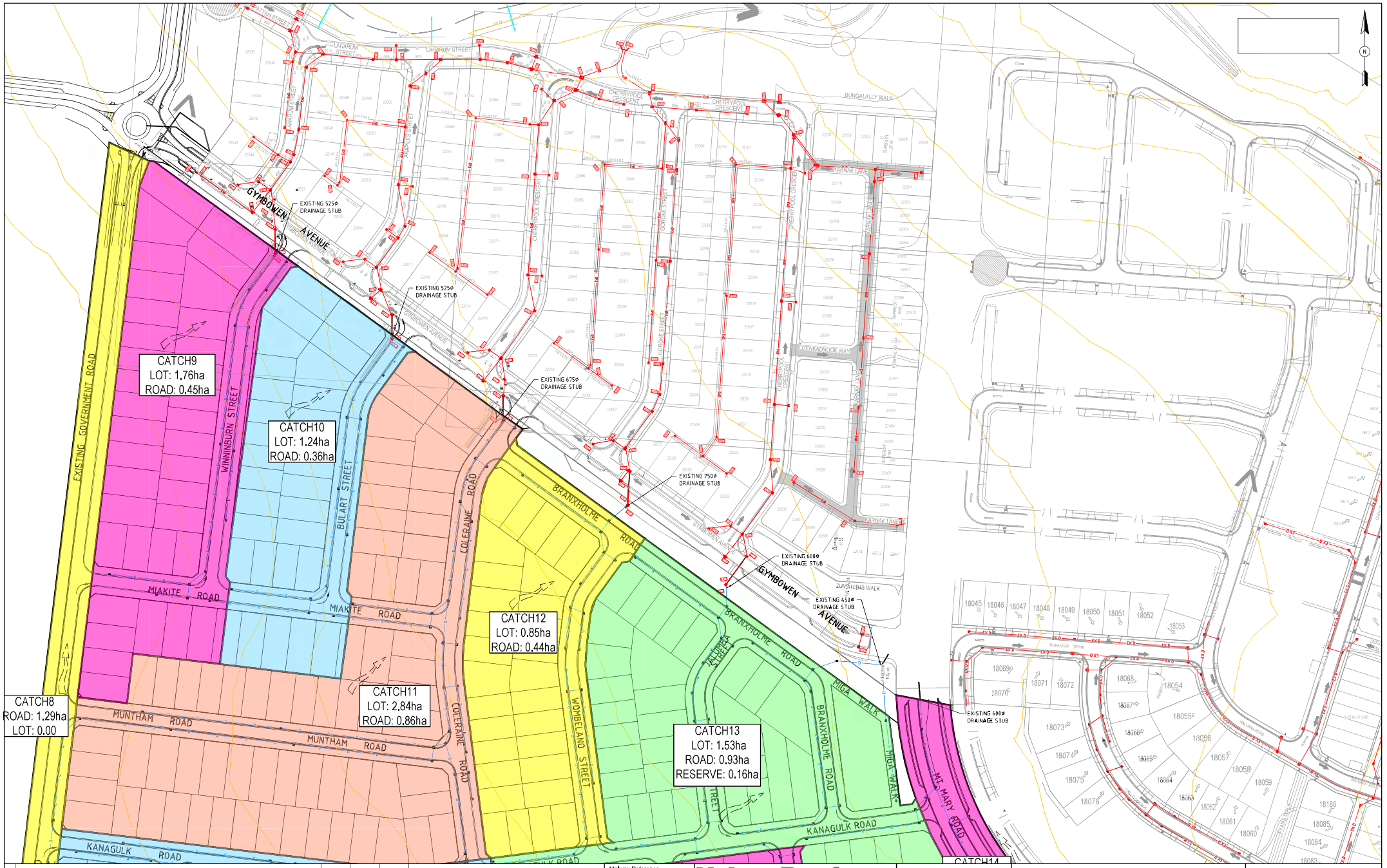
ABN 62 525 443 156

file name 24041-26 - 180 - 1% AEP STRATEGY.dwg layout name 111 file location L:\Work\Eng\24041 Eynesbury\Stage 26\ General\Drawings



No.	REVISION	DATE	DES/DFT	APPROVED
B	PLAN REVISED	07.04.25	KI	MR
A	ISSUED FOR INFORMATION	07.06.23	AY	MR

Preliminary Plan
Not to be used for construction

Melway Reference
226 A2

Principal

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Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
Y. ARAVIND

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
DECEMBER 2024

EYNESBURY TOWNSHIP

STAGE 26
CITY OF MELTON
1% AEP CATCHMENT PLANS 3 OF 3

Drawing No: 24041-26-112
Revision: B
Sheet No: 03 of 05
Scale @ A1 1:1,000
0 10 20 40

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file name 24041-26 - 180 - 1% AEP STRATEGY.dwg layout name 112 file location L:\Work\Eng\24041 Eynesbury\Stage 26\ General\Drawings

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100 YR OVERLAND DRAINAGE COMPUTATIONS

PROJECT: Eynesbury Township
JOB NO: 24041
COUNCIL: Melton City Council
DESIGNED: KI DATE: 4.04.25
CHECKED: MR DATE: 4.04.25

Coeffiecient of Runoff	f	C'_{10}	C_{10}	F_y	F_{100}	STORM EVENT 5 year	STORM EVENT 100 year
Lots - High Density	0.746	0.15446	0.711	0.950	1.200	0.575	0.853
Road	0.600	0.15446	0.602	0.950	1.200	0.572	0.722
Reserve	0.250	0.15446	0.341	0.950	1.200	0.324	0.409
Rural	0.200	0.15446	0.304	0.950	1.200	0.288	0.364

Note
Coeffiecient of Runoff from EDCM

CATCHMENT	CATCHMENT AREAS Lots	Road	Reserve	Rural	Saturation Time	Length	Velocity	5 YEAR FLOW Ae	Ae Total	tc	I	Q	100 YEAR FLOW Ae	Ae Total	tc	I	Q	Qexcess	COMMENTS
	ha	ha	ha	ha	min	m	m/s	ha	ha	min	mm/hr	m3/s	ha	ha	min	mm/hr	m3/s	m3/s	
1	2.47	1.59	1.49		6.00	459	1.00	3.93	3.93	13.59	57.10	0.45	3.83	3.83	20.25	98.96	1.05	**0.57**	
2	0.30	1.09	0.00		6.00	351	1.00	0.62	0.62	11.66	62.37	0.11	0.79	0.79	17.78	107.69	0.24	**0.13**	
3	0.30	0.69	0.00		6.00	251	1.00	0.39	0.39	10.18	64.31	0.07	0.50	0.50	15.28	114.97	0.15	**0.09**	
4	2.18	0.69	0.00			246	1.00	1.87	2.49	15.96	53.54	0.37	2.36	3.14	23.93	91.28	0.80	**0.43**	+2
5	1.46	0.54	0.00		6.00	207	1.00	1.29	1.29	9.45	67.39	0.24	1.63	1.63	14.18	119.10	0.54	**0.30**	
6	1.92	0.89	1.00			248	1.00	2.13	4.62	20.08	45.22	0.59	2.69	5.83	30.13	78.27	1.27	**0.68**	+4+2
7	2.49	0.80	0.00		6.00	180	1.00	2.14	2.14	9.00	67.39	0.40	2.70	2.70	13.50	123.62	0.93	**0.52**	
8	1.29	0.00	0.00		6.00	636	1.00	0.87	0.87	16.60	51.35	0.13	1.10	1.10	24.90	89.10	0.27	**0.15**	
9	1.76	0.45	0.00		6.00	154	1.00	1.45	1.45	8.57	71.42	0.29	1.83	1.83	12.85	128.60	0.65	**0.37**	
10	1.24	0.36	0.00		6.00	170	1.00	1.04	1.04	8.93	71.42	0.21	1.32	1.32	13.25	123.62	0.45	**0.25**	
11	2.34	0.86	0.00			192	1.00	2.41	4.57	16.79	51.35	0.66	3.04	5.77	25.05	87.35	1.40	**0.74**	+(1+5)/2
12	0.35	0.44	0.00		6.00	182	1.00	0.83	0.83	9.03	67.39	0.16	1.04	1.04	13.55	123.62	0.35	**0.20**	
13	1.33	0.93	0.16			192	1.00	1.62	9.22	23.28	42.38	1.10	2.04	11.65	34.93	72.51	2.35	**1.25**	=13+12+6+(1+5)/2
14	0.30	1.11	0.00			345	1.00	0.63	12.36	29.03	37.70	1.30	0.80	15.65	43.55	62.82	2.73	**1.43**	=+3+7+13

Grade	Assumed mannings velocities (m/s)
1:500	0.5
1:200	0.7
1:100	1.0
1:50	1.5
1:20	2.0

No.	REVISION	DATE	DES/DFT	APPROVED
B	PLAN REVISED	07.04.25	KI	MR
A	ISSUED FOR INFORMATION	07.06.23	AY	MR

Preliminary Plan
Not to be used for construction

Melway Reference
226 A2

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Y. ARAVIND

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
DECEMBER 2024

EYNESBURY TOWNSHIP
STAGE 26
CITY OF MELTON
1% AEP CATCHMENT COMPUTATIONS

Drawing No: 24041-26-113
Revision: B
Sheet No: 04 of 05
Scale @ A1 1:1,000
0 10 20 40

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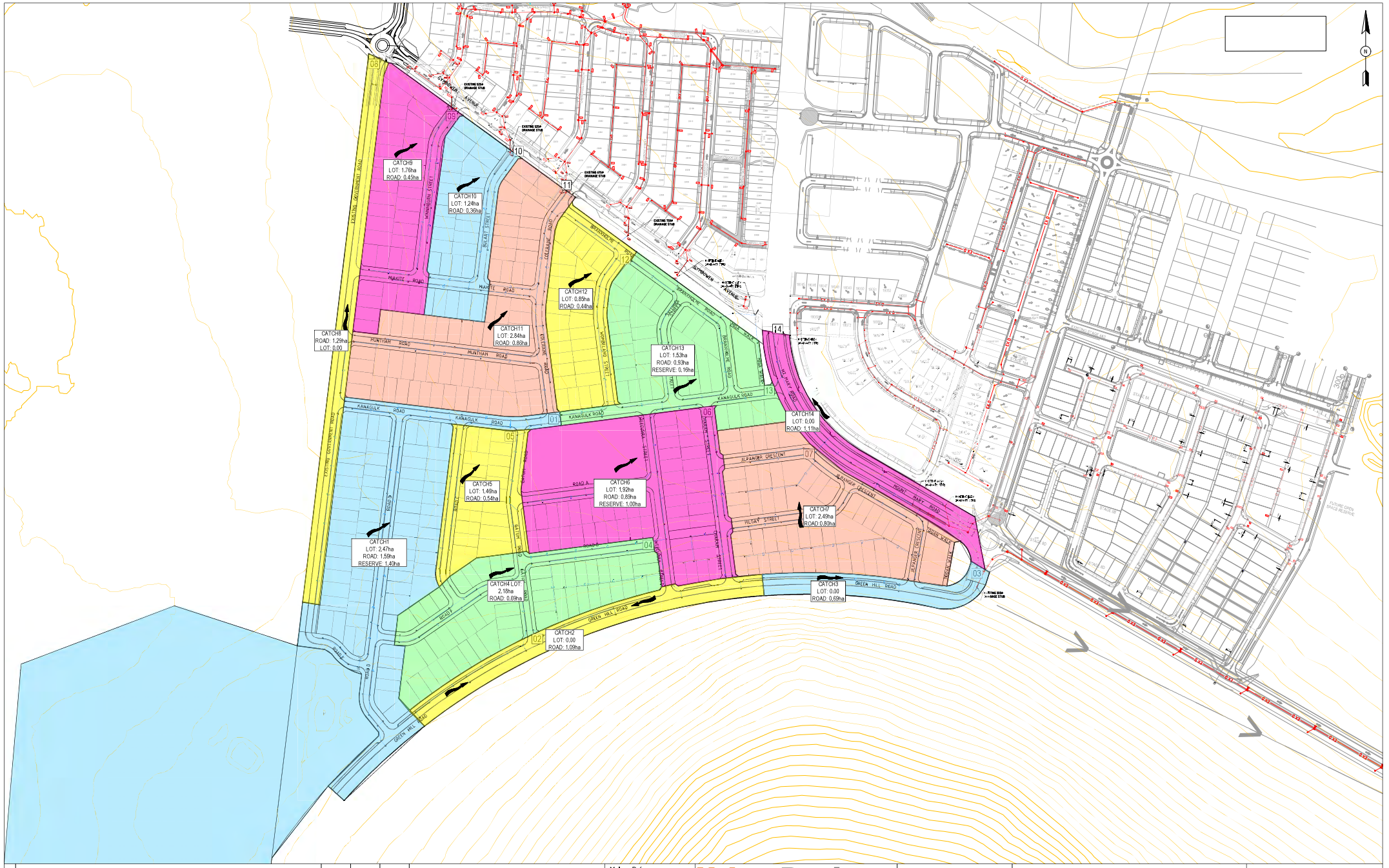
ABN 82 525 443 156

file name 24041-26 - 180 - 1% AEP STRATEGY.dwg layout name 113 file location L:\Work\Eng\24041 Eynesbury\Stage 26\ General\Drawings



B	UPDATED CATCHMENTS	07.04.25	KI	MR
A	ISSUED FOR INFORMATION	07.06.23	AY	MR
No.	REVISION	DATE	DES/DFT	APPROVED

Preliminary Plan
Not to be used for construction

Melway Reference
226 A2

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Designed
Y. ARAVIND

Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
DECEMBER 2024

EYNESBURY TOWNSHIP
STAGE 26
CITY OF MELTON
1% AEP CATCHMENT PLAN
OVERALL PLAN

Drawing No: 24041-26-112
Revision: B
Sheet No: 05 of 05
Scale @ A1 1:2000
0 20 40 80

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file name 24041-26 - 180 - 1% AEP STRATEGY.dwg layout name 114 file location L:\Work\Eng\24041 Eynesbury\Stage 26\ General\Drawings

PLEASE REVIEW IN CONJUCTION WITH STAGE 26 OVERALL 1% AEP PLAN & COMPUTATIONS

PROJECT: Stage 26 MR
SECTION 3
Print-out date: 01/12/2025 - Time: 8:49
Data File: L:\Work\Eng\24041_Eynesbury\Stage 26_General\Design\12D\Stage_26\SECTION 3.pce

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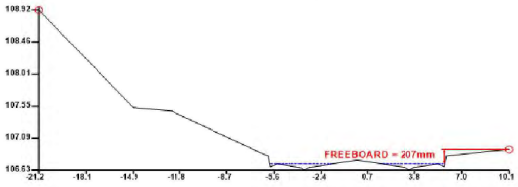


2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.09 cumecs

There is no pipe discharge
Overland/channel/watercourse discharge = 0.09 cumecs

3. RESULTS: Water surface elevation = 106.723m

Grade = 1 in 200

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.09	0.00	0.09
D(Max) = Max. Depth (m):	0.00	0.09	0.00	0.09
D(Ave) = Ave. Depth (m):	0.00	0.03	0.00	0.03
V = Ave. Velocity (m/s):	0.00	0.35	0.00	0.35
D(Max) x V (cumecs/m):	0.00	0.03	0.00	0.03
D(Ave) x V (cumecs/m):	0.00	0.01	0.00	0.01
Froude Number:	0.00	0.63	0.00	N/A
Area (m^2):	0.00	0.25	0.00	0.25
Wetted Perimeter (m):	0.00	8.27	0.00	8.27
Flow Width (m):	0.00	8.22	0.00	8.22
Hydraulic Radius (m):	0.00	0.03	0.00	0.03
Composite Manning's n:	0.000	0.020	0.000	N/A
Split Flow?	-	-	-	Yes

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	LEFT HAND POINT R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	RIGHT HAND POINT R.L. (m)	MANNING'S N
1	-21.200	108.920	-14.950	107.530	0.020
2	-14.950	107.530	-14.900	107.529	0.020
3	-14.900	107.529	-12.400	107.479	0.020
4	-12.400	107.479	-5.950	106.834	0.020
5	-5.950	106.834	-5.800	106.684	0.020
6	-5.800	106.684	5.350	106.724	0.020
7	-5.350	106.724	-3.800	106.673	0.020
8	-3.800	106.673	-3.500	106.633	0.020
9	-3.500	106.633	3.200	106.673	0.020
10	-3.200	106.673	0.000	106.779	0.020
11	0.000	106.779	3.200	106.673	0.020
12	3.200	106.673	3.500	106.633	0.020

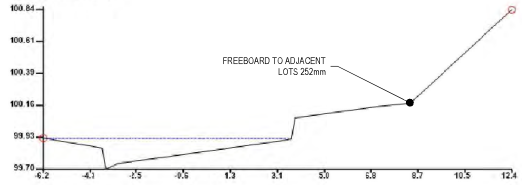
4. CROSS-SECTION DATA: (continued)

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	LEFT HAND POINT R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	RIGHT HAND POINT R.L. (m)	MANNING'S N
13	3.500	106.633	3.800	106.673	0.020
14	3.800	106.673	5.350	106.724	0.020
15	5.350	106.724	5.800	106.684	0.020
16	5.800	106.684	5.950	106.834	0.020
17	5.950	106.834	8.550	106.899	0.020
18	8.550	106.899	10.050	106.929	0.020
19	10.050	106.929	10.100	106.930	0.020

SECTION 3 (BOLAC ROAD, CH68.99)

PROJECT: Stage 26 MR
SECTION 7
Print-out date: 25/06/2026 - Time: 9:08
Data File: L:\Work\Eng\24041_Eynesbury\Stage 26_General\Design\12D\Stage_26\SECTION 7.pce

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.52 cumecs

There is no pipe discharge
Overland/channel/watercourse discharge = 0.52 cumecs

3. RESULTS: Water surface elevation = 99.923m

Grade = 1 in 333

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.44	0.00	0.44
D(Max) = Max. Depth (m):	0.00	0.22	0.00	0.22
D(Ave) = Ave. Depth (m):	0.00	0.09	0.00	0.09
V = Ave. Velocity (m/s):	0.00	0.53	0.00	0.53
D(Max) x V (cumecs/m):	0.00	0.12	0.00	0.12
D(Ave) x V (cumecs/m):	0.00	0.05	0.00	0.05
Froude Number:	0.00	0.58	0.00	0.58
Area (m^2):	0.00	0.83	0.00	0.83
Wetted Perimeter (m):	0.00	9.79	0.00	9.79
Flow Width (m):	0.00	9.72	0.00	9.72
Hydraulic Radius (m):	0.00	0.09	0.00	0.09
Composite Manning's n:	0.000	0.020	0.000	0.020
Split Flow?	-	-	-	No

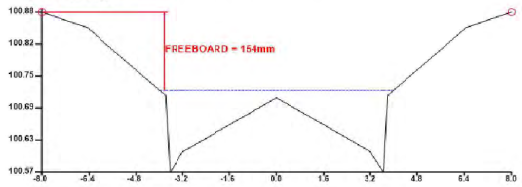
4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	LEFT HAND POINT R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	RIGHT HAND POINT R.L. (m)	MANNING'S N
1	-6.150	99.926	-3.800	99.853	0.020
2	-3.800	99.853	-3.650	99.703	0.020
3	-3.650	99.703	-3.200	99.743	0.020
4	-3.200	99.743	0.000	99.823	0.020
5	0.000	99.823	3.200	99.904	0.020
6	3.200	99.904	3.650	99.919	0.020
7	3.650	99.919	3.800	100.069	0.020
8	3.800	100.069	6.800	100.144	0.020
9	6.800	100.144	8.300	100.174	0.020
10	8.300	100.174	8.350	100.175	0.020
11	8.350	100.175	12.350	100.842	0.020

SECTION 7 (JILPANGER CRESCENT, CH117.625)

PROJECT: Stage 26 MR
SECTION 6
Print-out date: 01/12/2025 - Time: 9:14
Data File: L:\Work\Eng\24041_Eynesbury\Stage 26_General\Design\12D\Stage_26\SECTION 6.pce

1. CROSS-SECTION:



2. DISCHARGE INFORMATION:

100 year (1%) storm event

Total discharge = 0.48 cumecs

There is no pipe discharge
Overland/channel/watercourse discharge = 0.48 cumecs

3. RESULTS: Water surface elevation = 100.726m

Grade = 1 in 50

	LEFT OVERBANK	MAIN CHANNEL	RIGHT OVERBANK	TOTAL CROSS-SECTION
Discharge (cumecs):	0.00	0.71	0.00	0.71
D(Max) = Max. Depth (m):	0.00	0.16	0.00	0.16
D(Ave) = Ave. Depth (m):	0.00	0.07	0.00	0.07
V = Ave. Velocity (m/s):	0.00	1.22	0.00	1.22
D(Max) x V (cumecs/m):	0.00	0.20	0.00	0.20
D(Ave) x V (cumecs/m):	0.00	0.09	0.00	0.09
Froude Number:	0.00	1.44	0.00	1.44
Area (m^2):	0.00	0.58	0.00	0.58
Wetted Perimeter (m):	0.00	8.13	0.00	8.13
Flow Width (m):	0.00	8.00	0.00	8.00
Hydraulic Radius (m):	0.00	0.07	0.00	0.07
Composite Manning's n:	0.000	0.020	0.000	0.020
Split Flow?	-	-	-	No

4. CROSS-SECTION DATA:

SEGMENT NO.	LEFT HAND POINT CHAINAGE (m)	LEFT HAND POINT R.L. (m)	RIGHT HAND POINT CHAINAGE (m)	RIGHT HAND POINT R.L. (m)	MANNING'S N
1	-8.000	100.879	-7.950	100.878	0.020
2	-7.950	100.878	-6.450	100.848	0.020
3	-6.450	100.848	-3.800	100.716	0.020
4	-3.800	100.716	-3.650	100.566	0.020
5	-3.650	100.566	-3.200	100.606	0.020
6	-3.200	100.606	0.000	100.711	0.020
7	0.000	100.711	3.200	100.606	0.020
8	3.200	100.606	3.650	100.566	0.020
9	3.650	100.566	3.800	100.716	0.020
10	3.800	100.716	6.450	100.848	0.020
11	6.450	100.848	7.950	100.878	0.020
12	7.950	100.878	8.000	100.879	0.020

SECTION 6 (CHARAM STREET, CH204.134)

No.	REVISION	DATE	DES/DFT	APPROVED
B	SECTION 7 AMENDED	26.06.26	AA	MR
A	ISSUED FOR APPROVAL	28.11.25	AA	MR

RESIMAX GROUP

Issued for Approval
Not to be used for construction

Melway Reference
226 B4

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Designed
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Checked
M. ROSSITTO

Approved
A. GRODZKI

Date
NOVEMBER 2025

EYNESBURY TOWNSHIP
STAGE 26D
WYNDHAM CITY COUNCIL
1% AEP DRAINAGE COMPUTATIONS
FREEBOARD CHECKS

Drawing No: 24041-26D-113
Revision: B
Sheet No: 01 of 01
Scale @ A1

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file name 24041-26D-113-Q100.dwg layout name 113 file location L:\Work\Eng\24041_Eynesbury\Stage 26\Stage 26D\Drawings