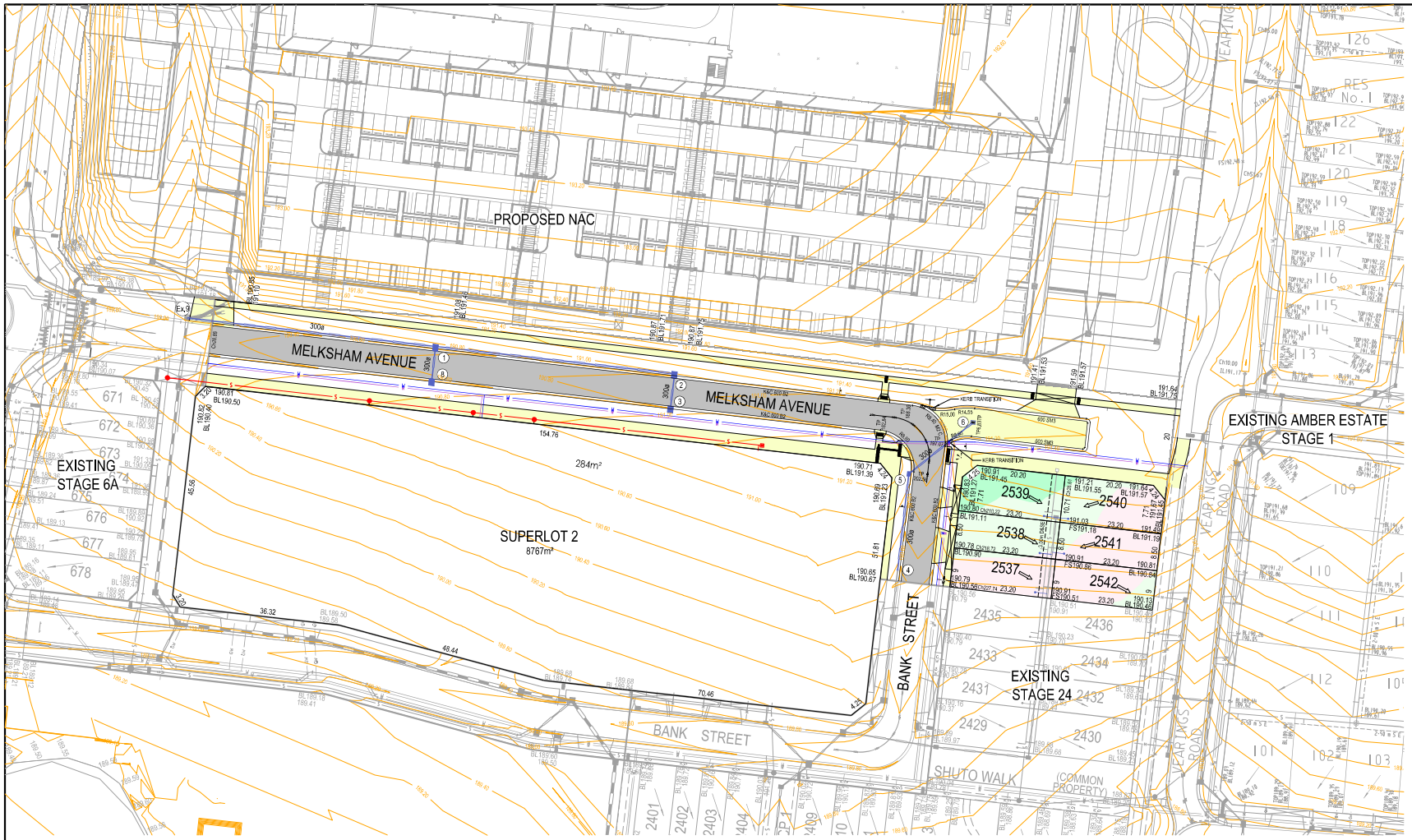


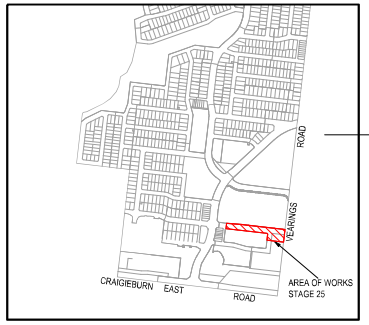
PLAN

SCALE 1:500

SCALE 1:500 @ A1

10 5 0 10 20 40

LENGTHS ARE IN METRES



LOCALITY PLAN

SCALE 1:20000

SHEET INDEX

SHT No.	VER	DESCRIPTION
1	A	DETAIL PLAN, LOCALITY PLAN, SERVICES SCHEDULE & SHEET INDEX
2	A	GENERAL NOTES & TYPICAL ROAD CROSS SECTIONS
3	A	INTERSECTION DETAIL
4	A	MELKSHAM AVENUE - LONGITUDINAL SECTION No.1
5	A	MELKSHAM AVENUE - CROSS SECTION No.1
6	A	MELKSHAM AVENUE - CROSS SECTION No.2
7	A	MELKSHAME AVENUE - LONGITUDINAL SECTION No.2 & CROSS SECTIONS
8	A	DRAINAGE LONGITUDINAL SECTION & PIT SCHEDULE
9	A	SIGNAGE & LINEMARKING PLAN
10	A	PAVEMENT DETAILS

WARNING

BEWARE OF UNDERGROUND SERVICES

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

VICTORIAN PROFESSIONAL ENGINEERS REGISTRATION ACT 2019

REGISTERED ENGINEER: ROBERT GOULD-WILLIAMS

REGISTRATION NUMBER: PE0007500

SYMBOL LEGEND

Prop / Prev Stage

Drains
Sewer < 300Ø
Sewer ≥ 300Ø
Water (DW)
Water (NDW)
House Drain
Property Inlet
Street Sign
PSM
Rock Ret Wall
Sleeper Ret Wall
Conduits 50mm
Conduits 100mm
Street Tree without/with Passive Irrigation (Refer Detail)

Ex Drains
Ex Water DW/NDW
Ex Sewer/Gas
Ex Elect/Comm

Ex/Natural/FS Level
FS @ Building Line
Top/Toe Batter Level
Top/Bottom RW Level
1% AEP Flood Level
Direction of Lot Fall
Fill Proposed (<0.3m/≥0.3m)
Cut Proposed
Asphalt Surface Prop
Concrete Surface Prop (Paths/Driveways/Slabs)
Tree To Be Removed
Tree To Be Retained with Tree Protection Zone (TPZ)

CITY OF WHITTLESEA

ENGINEERING PLANS & SPECIFICATIONS APPROVED PURSUANT TO SECTION 15 OF THE SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. PS 819166Y/S28

DEVELOPMENT ENGINEER

10 - 07 - 2024

DATE APPROVED

ATTENTION TO CONTRACTOR

1. **IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.**
2. **Contractor to ensure that the site is pegged and or set out checked by the licenced surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.**
3. Where concrete works abut a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.

SERVICES OFFSETS AND LOCATIONS

Location	Gas	Water		Communications		Electricity		BOK	Road Width	Joint Trenching	Street Classification
		NDW	DW	Cables	Pits	Cables	Poles				
BANK STREET	2.10E	2.60E	3.10E	1.80W	1.70E/1.80W	2.60W	1.00 BOK	4.20W/4.20E	16	G&W,FTTH&E	LEVEL 1
MELKSHAM AVENUE	2.30S	2.80S	3.30S	3.80N	1.80N/3.80S	4.25N	1.00 BOK	5.85S/6.55N	20	G&W,FTTH&E	LEVEL 1
MELKSHAM AVENUE	4.30S	4.80S	5.30S	3.80N	3.80N/3.80S	4.25N	1.00 BOK	6.95S/7.45N	22	G&W,FTTH&E	LEVEL 1

NOTE: a) At the court bowl where water and gas mains pass, the watermain offset is to be increased by 0.5 metres.
b) * Indicates offsets from back of kerb where services do not run parallel to title boundary.
c) * Indicates Telecommunication pits placed within concrete footpath.

AMENDMENTS

VER	DATE	REMARKS
A	09/07/24	ISSUE FOR CONSTRUCTION

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 388-C-10
SURVEY BPD
DESIGN RF
DRAWN RF
CHECKED RGW

RATHDOWNE ESTATE STAGE 25

DETAIL PLAN, LOCALITY PLAN & SERVICES SCHEDULE

SCALE AS SHOWN | DATUM AHD | DATE JAN '24

MUNICIPALITY: WHITTLESEA

REFERENCE: 9365E/25

SHEET 1 OF 10 A

J:\9365\Eng Stage 25\E25_R01_DTT.dgn

NOTES

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PLANS AND CURRENT CITY OF WHITTLESEA SPECIFICATIONS AND STANDARD DRAWINGS APPROVED BY COUNCIL AND TO THE SATISFACTION OF THE ENGINEER.

2. COUNCIL TO BE NOTIFIED 2 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.

3. DRAINAGE AND PITS TO BE SETOUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES. REFER EDCM601-608 FOR FURTHER DETAILS.

4. ALL PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED AND SHALL BE RRJ UP TO AND INCLUDING 750mm DIAMETER, PIPES ABOVE THIS SIZE MUST BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS. ALL DRAINS THAT CROSS UNDER ROAD PAVEMENTS ARE TO BE CLASS 4 R.C.P.

5. JOINTING FOR CURVED PIPE ALIGNMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS (RRJ'S FOR MINOR DEFLECTIONS OR COMPLETE R.C. BANDAGES)

6. PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN.

7. LOTS DENOTED THUS 416H ARE TO BE PROVIDED WITH A 100mm HOUSE DRAIN PLACED 5.5m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN. HOUSE DRAINS TO BE CONNECTED TO STREET DRAINAGE WITH 27A & CAP, CLEAR OF ANY PAVING. IF CONNECTION IS WITHIN PAVING A PIT MUST BE USED.

8. APPROVED GRANULAR BACKFILL TO BE PROVIDED WHERE PIPE TRENCHES ENCROACH UNDER ROADWAY DUE TO DEEP EXCAVATIONS IN ROCK.

9. SHALLOW CUT OFF DRAINS ARE TO BE PROVIDED ON SUBDIVISION BOUNDARY WHERE NECESSARY.

10. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORKCOVER AUTHORITY - HEALTH & SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS, DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH & SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.

11. AGRICULTURAL PIPE DRAINS TO PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER (REFER TO STD DRG EDCM202).

12. ALL DRAINAGE TRENCHES UNDER ROAD PAVEMENTS, KERB & CHANNEL, PARKING BAYS, DRIVEWAYS, FOOTPATHS AND BEHIND KERB & CHANNEL SHALL BE BACKFILLED WITH CRUSHED ROCK

13. BATTERS SHALL BE 1 IN 6 FOR CUT & FILL UNLESS OTHERWISE SHOWN, BATTERS EXCEEDING 1 IN 6 MUST BE STABILISED AS PER COUNCIL REQUIREMENTS.

14. ALL NATIVE TREES AND SHRUBS TO BE RETAINED UNLESS ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL OR REMOVAL IS DIRECTED BY THE ENGINEER.

15. LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER.

16. ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF RUBBISH AND SPOIL FROM SITE.

17. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED PRIOR TO COMMENCEMENT OF WORKS.

18. ALL MATERIAL SURROUNDING SERVICE AUTHORITY PITS LOCATED IN FOOTPATHS MUST BE ADEQUATELY COMPACTED IN 150mm LAYERS AND TESTED TO THE SATISFACTION OF THE CITY OF WHITTLESEA.PRIOR TO THE CONSTRUCTION OF FOOTPATH BAYS ADJACENT TO THESE PITS.

19. THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETER MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.

20. ALL GAS AND WATER CONDUITS FOR RESIDENTIAL LOTS TO BE PVC CLASS 12, 50mm DIAMETER.

21. TELSTRA/NBN Co TO BE NOTIFIED 7 DAYS PRIOR TO CONCRETE BEING PLACED.

22. CONDUITS ARE TO BE EXTENDED 450mm BEHIND FACE OF KERB AND TO BE REFERENCED ON FACE OF KERB.

23. ALL STREET SIGNS TO BE CONSTRUCTED AND ERECTED TO CURRENT CITY OF WHITTLESEA STANDARDS. STREET NAME PLATES TO BE IN ACCORDANCE WITH STANDARD DRAWING SD825, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.

24. TRAFFIC CONTROL SIGNS, MARKINGS & DELINEATORS TO BE INSTALLED IN ACCORDANCE WITH AS1742.2. ALL LINE MARKING IS TO BE LONG LIFE ROAD MARKING, WITH LONGITUDINAL LINES IN THERMOPLASTIC & TRANSVERSE MARKINGS IN COLD APPLIED.

25. ALL DRIVEWAYS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDCM501 & 502 AND ARE TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN.

26. ALL DRIVEWAY RAMPS INTO PROPERTIES ARE TO BE CUT IN AT A MAXIMUM GRADE OF 1 IN 6.

27. ALL PEDESTRIAN CROSSINGS ARE TO BE CONSTRUCTED GENERALLY IN ACCORDANCE WITH EDCM403. ALL PRAM CROSSING SPLAYS MUST BE 600mm WIDE AND NO GREATER.

28. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL. FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. FILLING TO BE CLEAN CLAY COMPACTED TO A DRY DENSITY NOT LESS THAN THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1289.5.2.1-2003. CONTROL TESTING TO COMPLY WITH AS3798-2007 APPENDIX B, LEVEL 1.

29. 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 (SEPT 95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.

30. FILL REQUIRED UNDER ROADWAY KERB AND CHANNEL AND FOOTPATH TO BE UNDERTAKEN AS PER COUNCIL'S CONSTRUCTION SPECIFICATION FOR ROAD & DRAINAGE WORKS 20.6 (TYPE A MATERIAL AS PER VICROADS STANDARD SPECIFICATION 204) AND COMPACTED TO 98% AASHO IN 150mm LAYERS.

31. PAVEMENT DEPTH MAY NOT BE ALTERED WITHOUT WRITTEN APPROVAL FROM CITY OF WHITTLESEA DEVELOPMENT ENGINEERING UNIT PRIOR TO THE COMMENCEMENT OF WORKS. ADDITIONAL COSTS WILL NOT BE CONSIDERED POST TENDER.

32. THE CONTRACTOR IS TO ORGANISE AND PAY FOR TESTING OF PAVEMENT BASE COURSE MATERIAL AND FINAL LAYER OF CRUSHED ROCK. A COPY OF RESULTS IS TO BE FORWARDED TO THE DIRECTOR OF ENGINEERING OR HIS REPRESENTATIVE. THE RESULTS MUST MEET THE REQUIREMENTS OF THE CITY OF WHITTLESEA SPECIFICATION BEFORE ANY FURTHER WORKS ARE REQUIRED.

33. THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBM.s AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DEVELOPER'S CONSULTANT TO ARRANGE RE-INSTATEMENT AT THE CONTRACTORS EXPENSE.

34. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MW SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS. THE SMP SHALL BE APPROVED BY CITY OF WHITTLESEA DEVELOPMENT ENGINEERING UNIT PRIOR TO THE COMMENCEMENT OF WORKS.

35. ALL FOOTPATHS IN ROADS TO BE OFFSET 50mm FROM PROPERTY BOUNDARY. FOOTPATHS CONSTRUCTED ABOVE EXISTING LEVEL TO BE CONSTRUCTED ON APPROVED FILL (TO AS-3798) OF F.C.R. INTO NATURAL GROUND.

36. PRIOR TO COMMENCEMENT OF WORKS TREE PROTECTION ZONES (TPZ) ARE TO BE INSTALLED AS SPECIFIED IN THE ANNOTATED DETAILS FORMING PART OF THE PLANNING PERMIT TO TREES NOTED "TO BE RETAINED". THIS INCLUDES THE FOLLOWING
   - RING LOCK WIRE MESH MINIMUM 1.20m HIGH (STD DRG SDL.2.02)
   - MAIN POSTS 100mm TREATED PINE (TP), MINIMUM 1.80m HIGH
   - INTERMEDIATE POSTS STEEL STAR PICKETS (SP), MINIMUM 1.80m HIGH
   - THE CORNER POSTS ARE TO BE TP WITH TP STAYS
   - EVERY THIRD POST TO BE TP
   - SP TO BE PLACED INTERMEDIATELY BETWEEN THE TP AT MAX 3.0m INTERVALS
   - THE RING LOCK MESH TO ENCIRCLE THE STRUCTURE AND BE FIRMLY SECURED AT EACH POST
   - POSTS MUST BE SUNK INTO THE GROUND BY 450mm (THERE IS TO BE NO CONCRETE TO SECURE POSTS AS THIS WILL AFFECT pH LEVELS)
   - HIGH VISIBILITY HAZARD MARKER TAPE SECURELY FIXED TO TOP OF WIRE MESH FENCE WITH WIRE TIES
   - THE TREE PROTECTION ZONE IS TO BE CLEARLY SIGN POSTED IN ACCORDANCE WITH CONDITION 20 OF THE PLANNING PERMIT (STD DRG SDL.2.03)

   NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY TREE UNTIL APPROVAL IS GIVEN BY THE ENGINEER.

37. PROVIDE 1.8m HIGH PALING FENCE ALONG ANY COMMON BOUNDARY BETWEEN A LOT AND MUNICIPAL RESERVE. FENCING TO BE ERECTED BY THE DEVELOPER (OR OWNER) AT NO COST TO COUNCIL.PALINGS TO BE ON THE RESERVE SIDE AND CONSTRUCTED IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SDL.3.09 & SDL.3.10.

38. VEHICULAR EXCLUSION FENCING TO BE PROVIDED ALONG THE ROAD FRONTAGES OF ALL RESERVES. REFER LANDSCAPE PLANS FOR FENCE DETAILS. FENCING TO BE CONSTRUCTED AS PART OF LANDSCAPE WORKS.

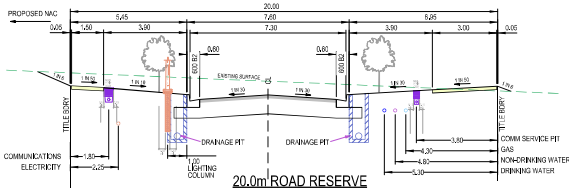
39. PROVIDE TEMPORARY SAFETY BARRIER FENCE (FARM FENCE AS PER MW STD. DWG. 7251/8/203) ALONG EDGE OF OUTFALL DRAINS. SAFETY FENCE TO REMAIN UNTIL PERMANENT UNDERGROUND DRAINAGE IS INSTALLED.

40. EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO DAMS BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL SUPERVISING ENGINEER.

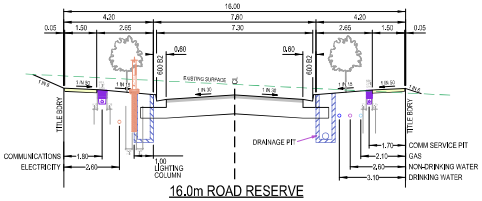
41. TACTILE GROUND SURFACE INDICATORS (TGSI) ARE TO BE INSTALLED WHERE SHOWN IN ACCORDANCE WITH COUNCIL STD DRG SD320 AND AS1428.

42. A BUILDING PERMIT MUST BE OBTAINED FOR ANY STRUCTURAL/RETAINING WALL EXCEEDING 1.0m IN HEIGHT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA. A COPY OF BUILDING PERMITS AND 'CERTIFICATE OF COMPLIANCE - CONSTRUCTION' TO BE SUBMITTED TO COUNCIL PRIOR TO STATEMENT OF COMPLIANCE.

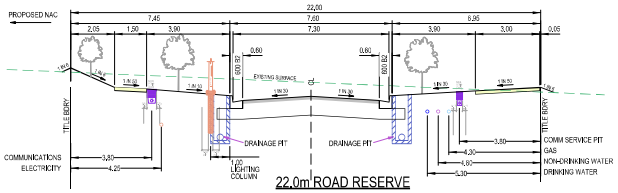
43. ALL STRUCTURAL WORKS MUST BE SUPERVISED BY A QUALIFIED STRUCTURAL ENGINEER.



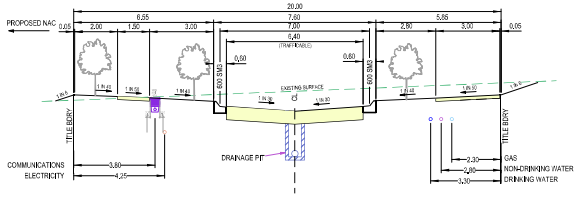
20.0m ROAD RESERVE
MELKSHAM AVENUE
ACCESS STREET TYPE 1



16.0m ROAD RESERVE
BANK STREET
ACCESS STREET TYPE 1



22.0m ROAD RESERVE
MELKSHAM AVENUE
ACCESS STREET TYPE 1



20.0m ROAD RESERVE
MELKSHAM AVENUE
NAC ACCESS LANEWAY

CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE
SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. PS 819166Y/S28

DEVELOPMENT ENGINEER

10 - 07 - 2024
DATE APPROVED

VER	DATE	REMARKS
A	09/07/24	ISSUE FOR CONSTRUCTION

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

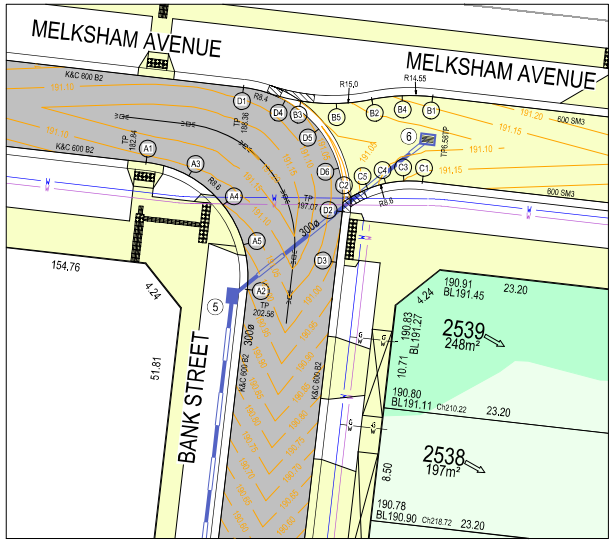
MELWAY REF. 388-C-10
SURVEY BPD
DESIGN RF
DRAWN RF
CHECKED RGW

RATHDOWNE ESTATE
STAGE 25
GENERAL NOTES & TYPICAL ROAD CROSS SECTIONS

MUNICIPALITY WHITTLESEA
REFERENCE 9365 E/25

SCALE AS SHOWN | DATUM AHD | DATE JAN '24 | SHEET 2 OF 10 | A

J:\9365\E\Eng\Stage 25\E25_R00_NOTE.dgn



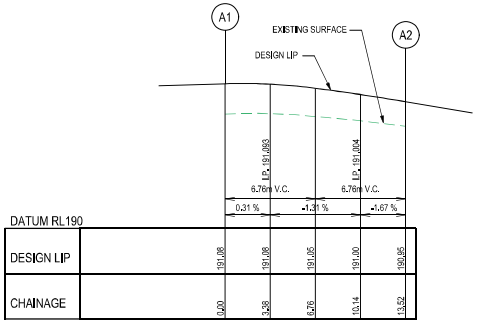
INTERSECTION DETAILS

SCALE 1:200

SCALE 1:200 @ A1

4 2 0 4 8 16

LENGTHS ARE IN METRES



Kerb A

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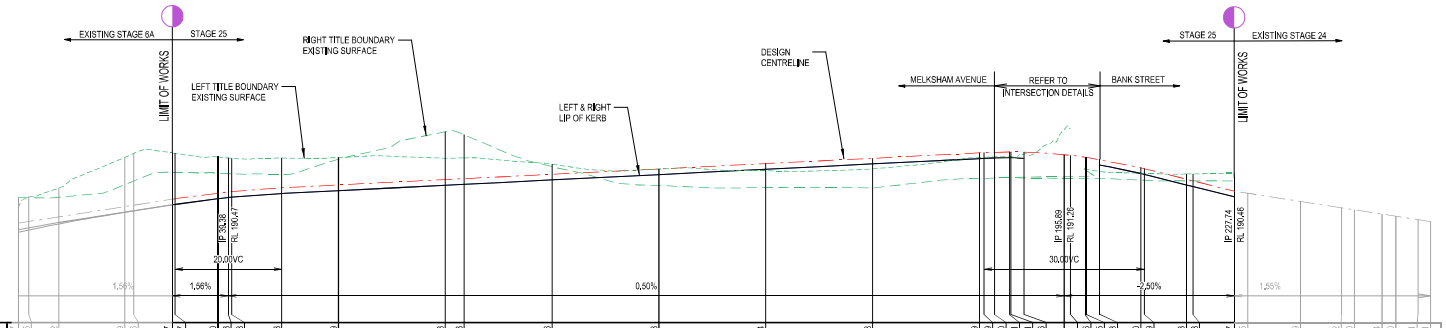
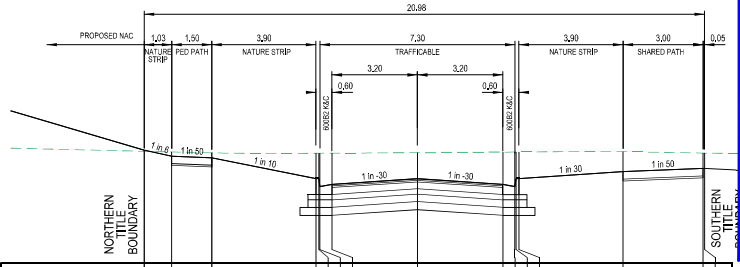


DATUM RL188.0

| | | |

CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE SUBDIVISION ACT 1988
PLAN OF SUBDIVISION No. PS 819166Y/S28
DEVELOPMENT ENGINEER
10 - 07 - 2024
DATE APPROVED



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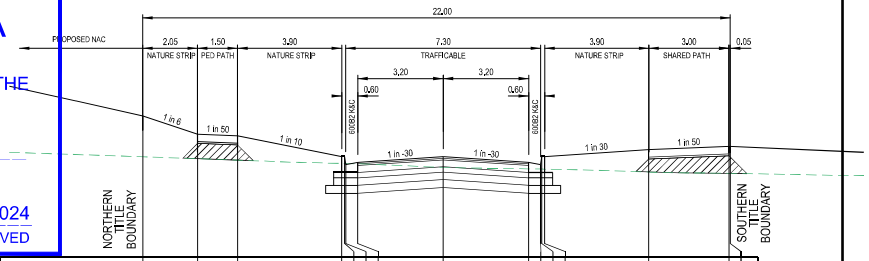
CH 60.00



DATUM RL189.0

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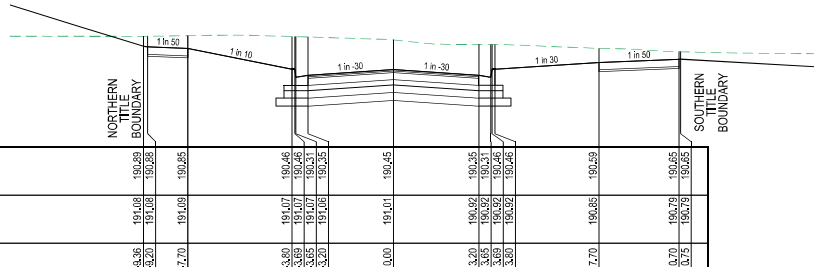
CH 120.00



DATUM RL189.0

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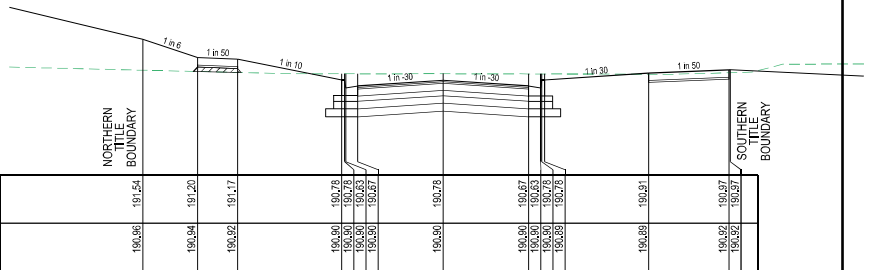
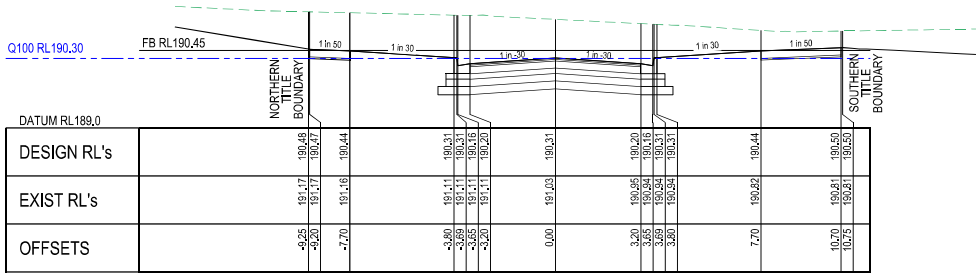
CH 40.00



DATUM RL189.0

DESIGN RL's	191.54	191.20	191.17	190.78	190.78	190.67	190.67	190.78	190.67	190.63	190.78	190.78	190.91	190.97	190.97	190.97							
EXIST RL's	190.96	190.94	190.92	190.90	190.90	190.90	190.90	190.90	190.90	190.90	190.89	190.89	190.89	190.92	190.92	190.92							
OFFSETS	-11.25	-9.20	-7.70	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	7.70	10.70	10.75	10.75							

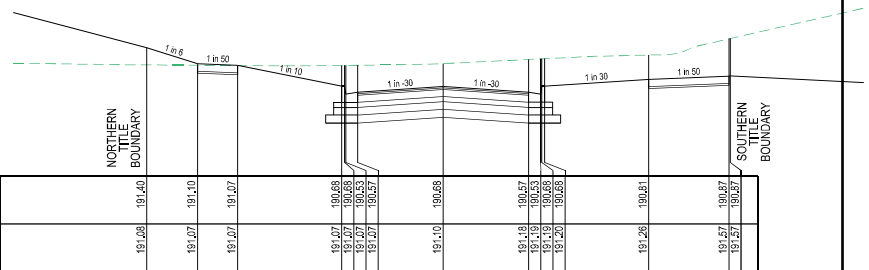
CH 100.00



DATUM RL189.0

DESIGN RL's	190.48	190.47	190.44	190.31	190.31	190.16	190.20	190.31	190.20	190.16	190.31	190.31	190.44	190.50	190.50	190.50							
EXIST RL's	191.17	191.17	191.16	191.11	191.11	191.11	191.11	191.03	190.95	190.94	190.94	190.94	190.82	190.81	190.81	190.81							
OFFSETS	-9.25	-9.20	-7.70	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	7.70	10.70	10.75	10.75							

CH 28.88



DATUM RL189.0

DESIGN RL's	191.40	191.10	191.07	190.68	190.68	190.57	190.57	190.68	190.57	190.53	190.68	190.68	190.81	190.87	190.87	190.87							
EXIST RL's	191.08	191.07	191.07	191.07	191.07	191.07	191.07	191.10	191.18	191.19	191.20	191.20	191.26	191.57	191.57	191.57							
OFFSETS	-11.10	-9.20	-7.70	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	7.70	10.70	10.75	10.75							

CH 80.00

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- TYPE A SELECTED MATERIAL FILL LEVEL 1 SUPERVISION REQUIRED

MELKSHAM AVENUE - BANK STREET
CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

SCALE H 1:100 V 1:50 @ A1

HORIZ 2 1 0 2 4 8
VERT 1 0.5 0 2 4

LENGTHS ARE IN METRES

VER	DATE	REMARKS
A	09/07/24	ISSUE FOR CONSTRUCTION

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers

1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	388-C-10
SURVEY	BPD
DESIGN	RF
DRAWN	RF
CHECKED	RGW

RATHDOWNE ESTATE
STAGE 25
MELKSHAM AVENUE - BANK STREET
CROSS SECTIONS No.1

MUNICIPALITY: WHITTLESEA
REFERENCE: 9365 E/25

SCALE AS SHOWN | DATUM AHD | DATE JAN '24 | SHEET 5 OF 10 | A

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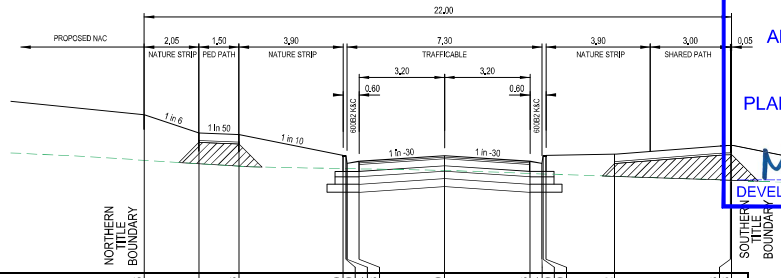
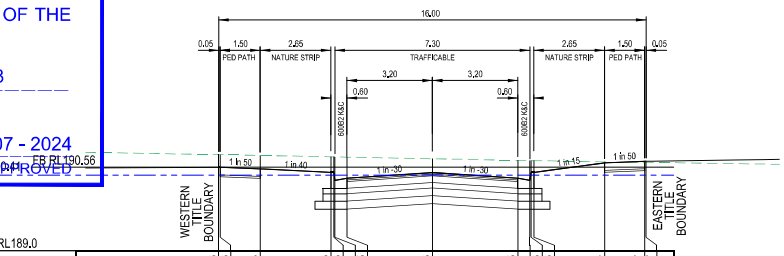
CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE SUBDIVISION ACT 1988
PLAN OF SUBDIVISION No. PS 819166Y/S28
DEVELOPMENT ENGINEER
10 - 07 - 2024
DATE APPROVED



DATUM RL189.0

DESIGN RL's	191.95	191.61	191.58	191.19	191.19	191.19	191.08	191.04	191.19	191.19	191.22	191.38	191.38
EXIST RL's	191.10	191.04	190.99	190.95	190.95	190.94	190.91	190.86	190.85	190.85	190.82	190.77	190.77
OFFSETS	-11.25	-9.20	-7.70	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.37	10.70	10.75

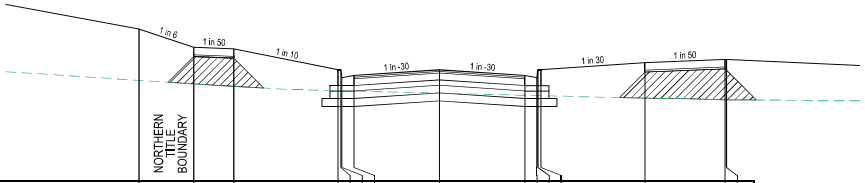
CH 182.84



DATUM RL189.0

DESIGN RL's	190.56	190.56	190.53	190.46	190.46	190.41	190.35	190.46	190.35	190.31	190.46	190.46	190.64	190.67	190.67
EXIST RL's	190.79	190.79	190.78	190.76	190.75	190.75	190.75	190.72	190.69	190.68	190.68	190.68	190.66	190.65	190.65
OFFSETS	-9.00	-7.85	-6.45	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.45	7.95	8.00

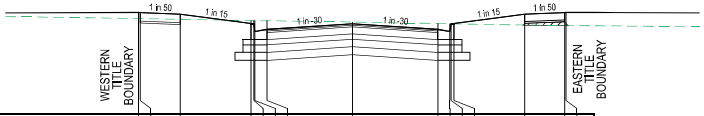
CH 227.74



DATUM RL189.0

DESIGN RL's	191.84	191.50	191.47	191.08	191.08	190.97	191.08	190.97	190.93	191.08	191.21	191.27	191.27
EXIST RL's	190.88	190.81	190.77	190.69	190.69	190.68	190.64	190.60	190.60	190.59	190.55	190.52	190.52
OFFSETS	-11.25	-9.20	-7.70	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	7.70	10.70	10.75

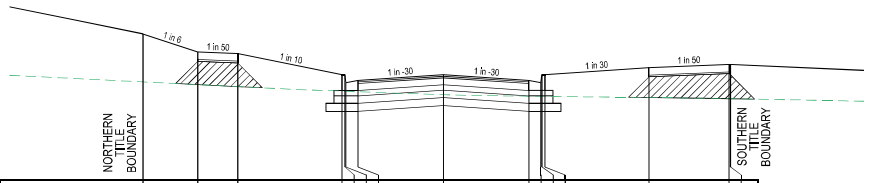
CH 160.00



DATUM RL189.0

DESIGN RL's	190.90	190.90	190.87	190.69	190.69	190.58	190.58	190.69	190.54	190.69	190.69	190.87	190.90	190.90
EXIST RL's	190.78	190.78	190.77	190.75	190.75	190.75	190.74	190.72	190.69	190.68	190.68	190.66	190.65	190.65
OFFSETS	-9.00	-7.85	-6.45	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.45	7.95	8.00

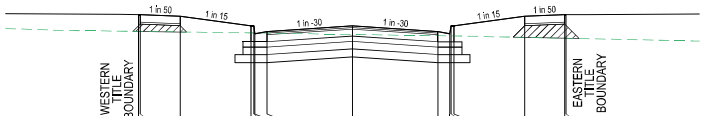
CH 218.72



DATUM RL189.0

DESIGN RL's	191.74	191.40	191.37	190.98	190.98	190.87	190.98	190.87	190.83	190.98	191.11	191.17	191.17
EXIST RL's	190.84	190.79	190.76	190.67	190.67	190.66	190.60	190.58	190.57	190.57	190.55	190.53	190.53
OFFSETS	-11.25	-9.20	-7.70	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	7.70	10.70	10.75

CH 140.00



DATUM RL189.0

DESIGN RL's	191.11	191.11	191.08	190.90	190.90	190.75	190.79	190.90	190.79	190.75	190.90	191.08	191.11	191.11
EXIST RL's	190.80	190.80	190.79	190.77	190.77	190.75	190.76	190.74	190.71	190.71	190.71	190.68	190.67	190.67
OFFSETS	-9.00	-7.85	-6.45	-3.80	-3.69	-3.65	-3.20	0.00	3.20	3.65	3.69	3.80	6.45	7.95	8.00

CH 210.22

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- TYPE A SELECTED MATERIAL FILL LEVEL 1 SUPERVISION REQUIRED

MELKSHAM AVENUE - BANK STREET
CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

SCALE H 1:100 V 1:50 @ A1

HORIZ 2 1 0 2 4 8
VERT 1 0.5 0 1 2 4

LENGTHS ARE IN METRES

AMENDMENTS		
A	09/07/24	ISSUE FOR CONSTRUCTION
VER	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	388-C-10
SURVEY	BPD
DESIGN	RF
DRAWN	RF
CHECKED	RGW

RATHDOWNE ESTATE
STAGE 25
MELKSHAM AVENUE - BANK STREET
CROSS SECTIONS No.2

MUNICIPALITY: WHITTLESEA
REFERENCE: 9365 E/25

SCALE AS SHOWN | DATUM AHD | DATE JAN '24 | SHEET 6 OF 10 | A

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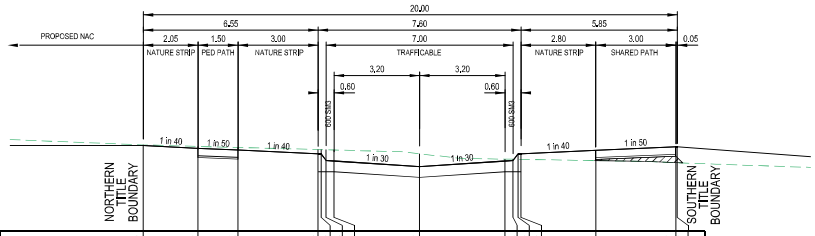
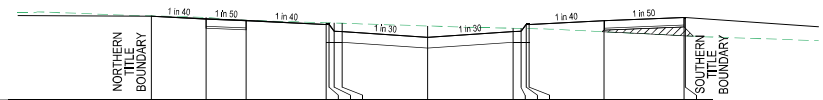


DATUM RL190.0

DESIGN RL's	191.60	191.55	191.52	191.44	191.44	191.34	191.31	191.20	191.31	191.32	191.44	191.44	191.51	191.57	191.57
EXIST RL's	191.61	191.58	191.56	191.52	191.52	191.51	191.44	191.34	191.34	191.34	191.34	191.32	191.28	191.28
OFFSETS	-10.35	-8.30	-5.80	-3.80	-3.69	-3.50	-3.20	0.00	3.20	3.50	3.69	3.80	6.80	9.80	9.65

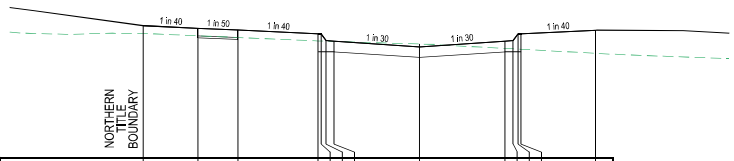
CH 32.52



DATUM RL190.0

DESIGN RL's	191.58	191.53	191.50	191.42	191.42	191.30	191.29	191.18	191.29	191.30	191.42	191.42	191.49	191.55	191.55
EXIST RL's	191.58	191.56	191.50	191.46	191.45	191.45	191.45	191.39	191.35	191.35	191.35	191.35	191.29	191.21	191.21
OFFSETS	-10.35	-8.30	-5.80	-3.80	-3.69	-3.50	-3.20	0.00	3.20	3.50	3.69	3.80	6.80	9.80	9.65

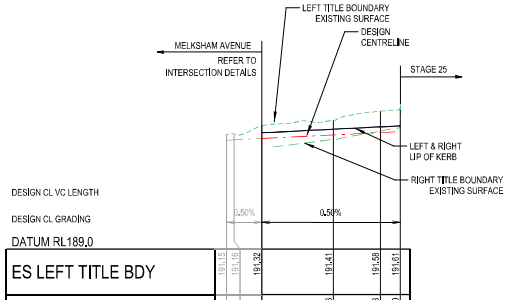
CH 28.82



DATUM RL189.0

DESIGN RL's	191.47	191.42	191.39	191.31	191.31	191.19	191.19	191.07	191.18	191.19	191.31	191.31	191.38
EXIST RL's	191.32	191.28	191.24	191.18	191.18	191.18	191.17	191.12	191.04	191.03	191.03	191.02	190.95
OFFSETS	-10.35	-8.30	-5.80	-3.80	-3.69	-3.50	-3.20	0.00	3.20	3.50	3.69	3.80	6.80

CH 6.58



DATUM RL189.0

ES LEFT TITLE BDY	191.15	191.16	191.32	191.41	191.58	191.61	
FS LEFT TITLE BDY				191.53	191.28	191.20	
LEFT LIP OF KERB				191.24	191.29	191.31	
DESIGN CL	191.04	191.04	191.07	191.14	191.18	191.20	
RIGHT LIP OF KERB			191.18	191.24	191.29	191.31	
FS RIGHT TITLE BDY				191.51	191.55	191.57	
ES RIGHT TITLE BDY	190.97			191.05	191.21	191.28	
CHAINGE CENTRE LINE	0.00	1.40	6.58	20.00	29.82	32.52	

TP

NOTE: EAST IS THE DIRECTION OF INCREASING CHAINAGE

MELKSHAM AVENUE

LONGITUDINAL SECTION

SCALE HORIZONTAL 1:500
VERTICAL 1:50

SCALE H 1:500 V 1:50 @ A1

HORIZ 10 5 0 10 20 40
VERT 1 0.5 0 1 2 4

LENGTHS ARE IN METRES

MELKSHAM AVENUE No.2

CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

SCALE H 1:100 V 1:50 @ A1

HORIZ 2 1 0 2 4 8
VERT 1 0.5 0 1 2 4

LENGTHS ARE IN METRES

LEGEND

EXISTING SURFACE

DESIGN SURFACE

TYPE A SELECTED MATERIAL FILL LEVEL 1 SUPERVISION REQUIRED

CITY OF WHITTLESEA

ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. PS 819166Y/S28

DEVELOPMENT ENGINEER

10 - 07 - 2024
DATE APPROVED

AMENDMENTS		
A	09/07/24	ISSUE FOR CONSTRUCTION
VER	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	388-C-10
SURVEY	BPD
DESIGN	RF
DRAWN	RF
CHECKED	RGW

RATHDOWNE ESTATE
STAGE 25
MELKSHAM AVENUE No.2 LONGITUDINAL SECTION & CROSS SECTIONS

MUNICIPALITY: WHITTLESEA

REFERENCE: 9365 E/25

SCALE AS SHOWN | DATUM AHD | DATE JAN '24 | SHEET 7 OF 10 | A

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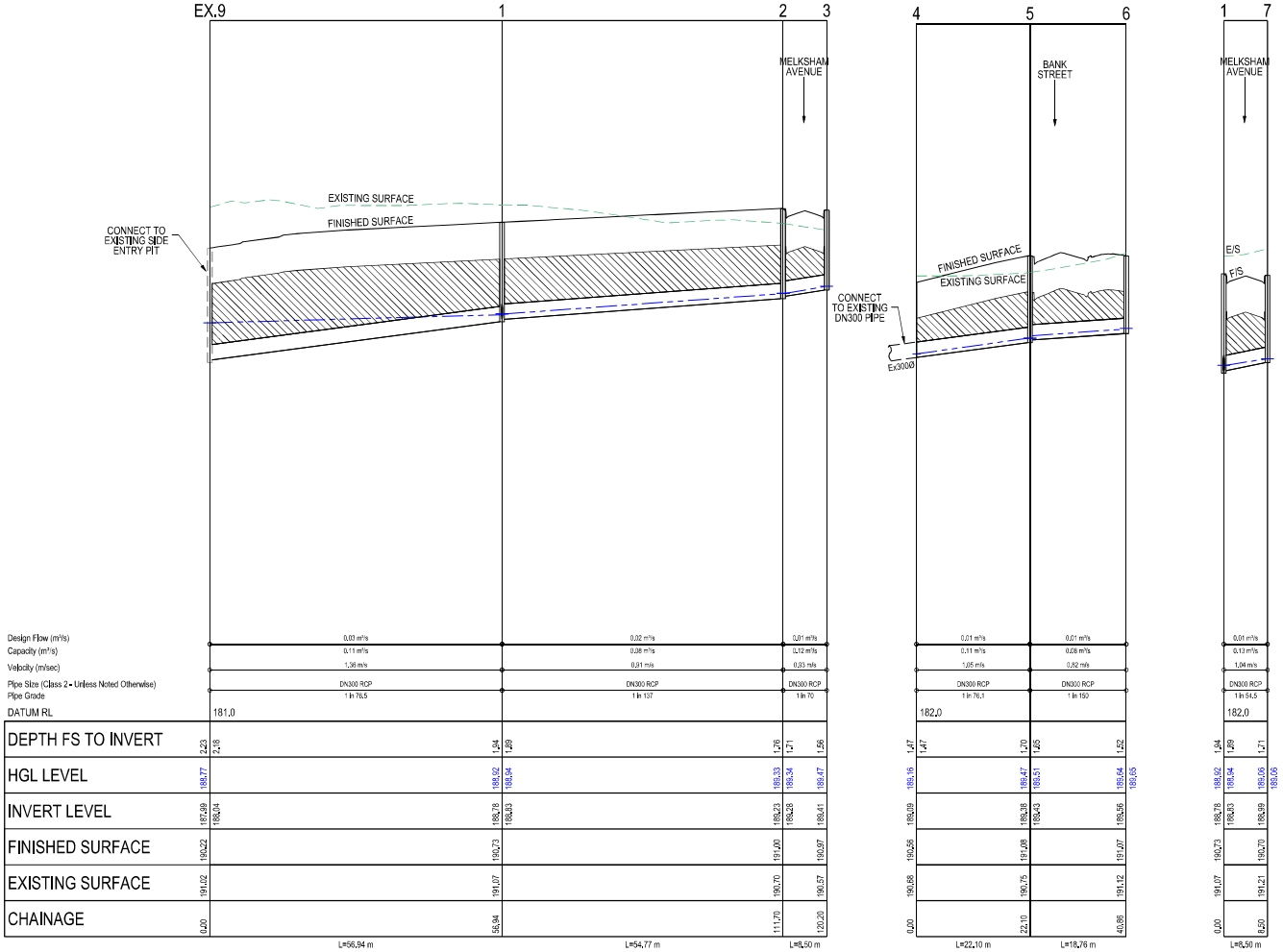

INDICATES CRUSHED ROCK BACKFILL
INDICATES 0.2EY (5YR ARI) HGL

DRAINAGE LONGITUDINAL SECTIONS No.1

SCALE HORIZONTAL 1:500
VERTICAL 1:50

SCALE H 1:500 V 1:50 @ A1

HORIZ 10 5 0 10 20 40
VERT 1 0.5 0 1 2 4

LENGTHS ARE IN METRES

PIT SCHEDULE

PIT No.	PIT DESCRIPTION	LENGTH	WIDTH	INLET INVERT	INLET DIA	OUTLET INVERT	OUTLET DIA	TOP PIT RL	DEPTH INVERT	REMARKS
Ex.9	GRATED SIDE ENTRY PIT	900	900	188.04	300	187.99	675	190.22	2.23	CONNECT TO EXISTING SIDE ENTRY PIT AT THE EASTERN WALL AT IL 109.23 & REPLACE EXISTING COVER WITH HEAVY DUTY CLASS D COVER
1	GRATED SIDE ENTRY PIT	900	600	188.83	300	188.78	300	190.72	1.94	GAA STD DWG EDCM 601 & 605
				188.83	300					
2	GRATED SIDE ENTRY PIT	900	600	189.29	300	189.24	300	190.99	1.76	GAA STD DWG EDCM 601 & 605
3	GRATED SIDE ENTRY PIT	900	600			189.41	300	190.96	1.55	GAA STD DWG EDCM 601 & 605
4	END OF PIPE			189.09	300			190.55	1.46	CONNECT TO EX PIPE
5	JUNCTION PIT	900	600	189.43	300	189.38	300	191.07	1.69	GAA STD DWG EDCM 605
6	GRATED PIT	900	600			189.56	300	191.07	1.52	GAA STD DWG EDCM 605 & PROVIDE HEAVY DUTY GRATED COVER
7	GRATED SIDE ENTRY PIT	900	600			188.99	300	190.69	1.70	GAA STD DWG EDCM 601 & 605

CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. PS 819166Y/S28

DEVELOPMENT ENGINEER

10 - 07 - 2024
DATE APPROVED

AMENDMENTS

VER	DATE	REMARKS
A	09/07/24	ISSUE FOR CONSTRUCTION

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 388-C-10
SURVEY BPD
DESIGN RF
DRAWN RF
CHECKED RGW

RATHDOWNE ESTATE
STAGE 25
DRAINAGE LONGITUDINAL SECTION & PIT SCHEDULE

MUNICIPALITY WHITTLESEA
REFERENCE 9365 E/25

SCALE AS SHOWN DATUM AHD DATE JAN '24 SHEET 8 OF 10 A

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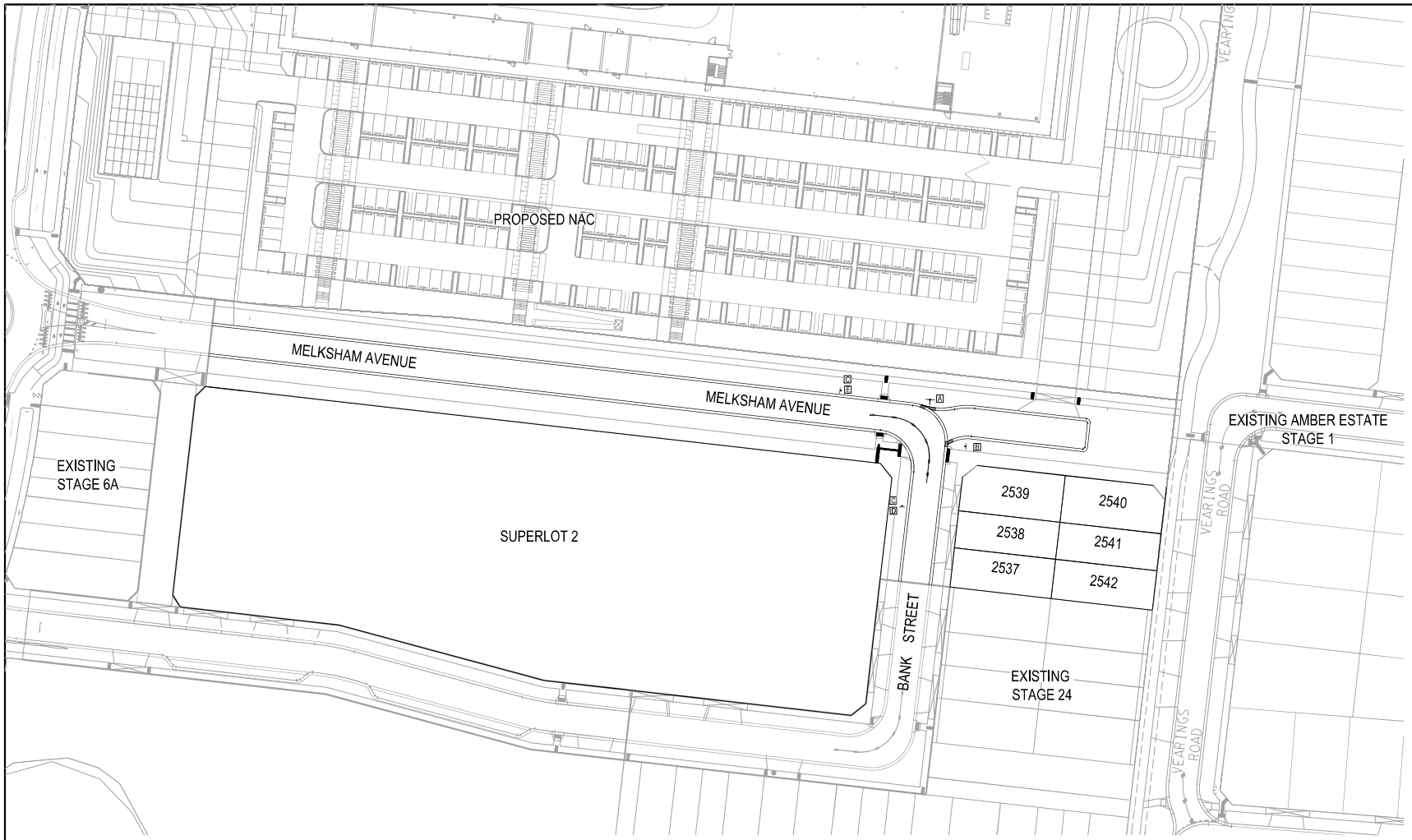

PLAN

SCALE 1:500

SCALE 1:500 @ A1

10 5 0 10 20 40

LENGTHS ARE IN METRES

SIGNAGE LEGEND

- A STREET SIGNS (2 No) AT CENTRE OF ROUNDABOUT
- B GIVE WAY SIGN (R1-2A) - CLASS 1 — R1-2
- C TRAFFIC (WARNING) "20 km/hr" (W8-2A) ALUMINIUM REFLECTIVE CLASS 1 - 600mm x 400mm — W8-2
- D SIDE ROAD JUNCTION ON CURVE LEFT (W2-9L) — W2-9L
- E SIDE ROAD JUNCTION ON CURVE RIGHT (W2-9R) — W2-9R

PERMANENT SURVEY MARK

NOTES

A) HAZARD / DIRECTIONAL TGSI'S SHOWN THUS / AND FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WHITTLESEA SD320.

B) INDICATES UNIDIRECTIONAL & BIDIRECTIONAL RRPM'S PLACED AT 3.00m CTS

CITY OF WHITTLESEA

ENGINEERING PLANS & SPECIFICATIONS APPROVED PURSUANT TO SECTION 15 OF THE SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. PS 819166Y/S28

DEVELOPMENT ENGINEER

10 - 07 - 2024
DATE APPROVED

AMENDMENTS

VER	DATE	REMARKS
A	09/07/24	ISSUE FOR CONSTRUCTION

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	388-C-10
SURVEY	BPD
DESIGN	RF
DRAWN	RF
CHECKED	RGW

RATHDOWNE ESTATE
STAGE 25
SIGNAGE & LINEMARKING PLAN

MUNICIPALITY: WHITTLESEA

REFERENCE: 9365 E/25

SCALE AS SHOWN | DATUM AHD | DATE JAN '24 | SHEET 9 OF 10 | A

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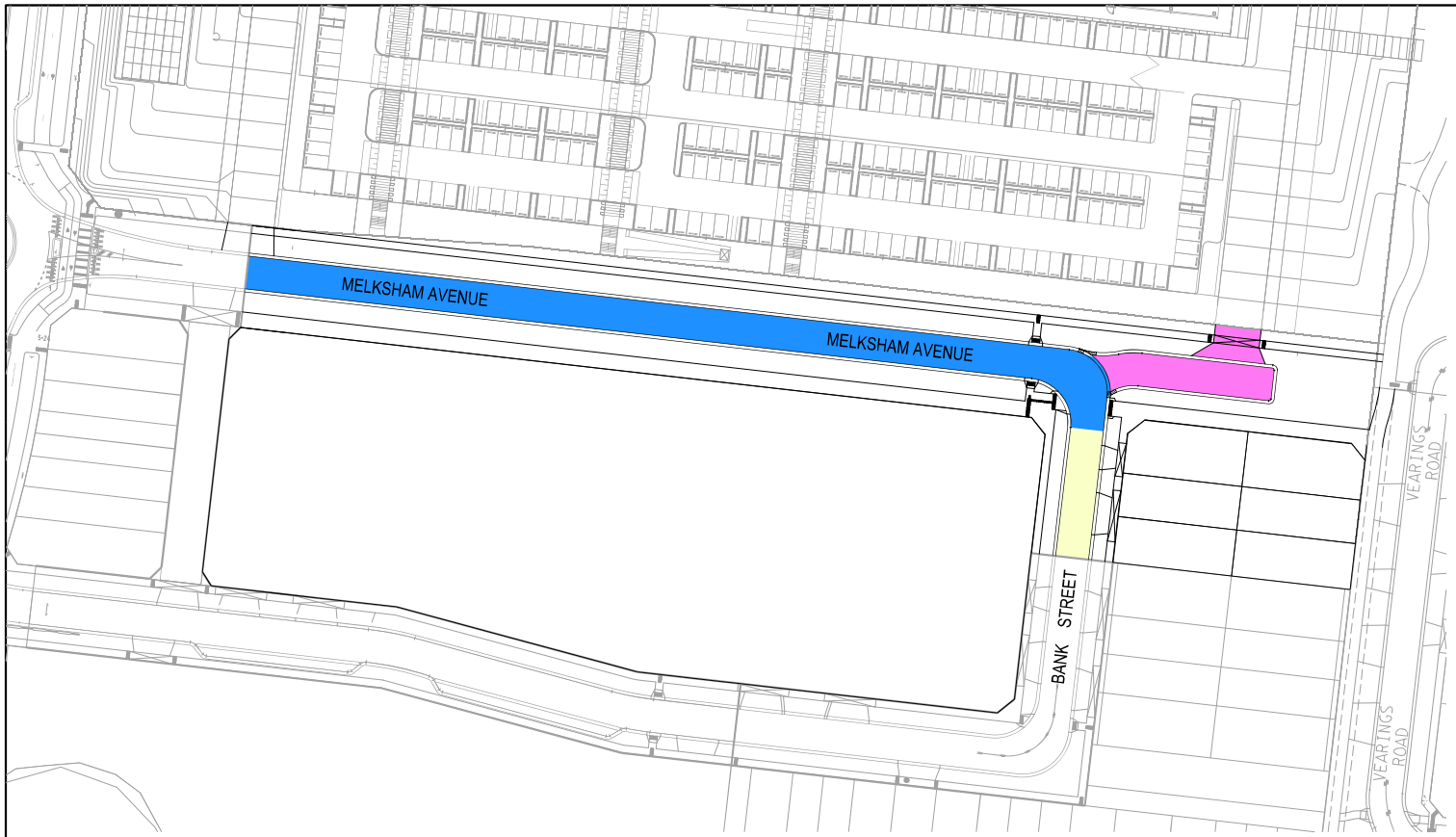
Plotted: 8/07/2024



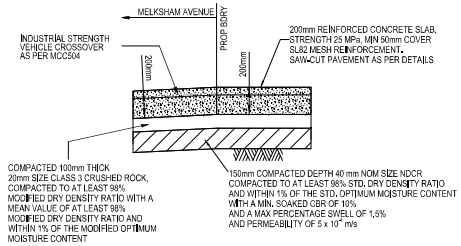
CITY OF WHITTLESEA

ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE
SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. PS 819166Y/S28

DEVELOPMENT ENGINEER

10 - 07 - 2024
DATE APPROVED



MELKSHAM AVENUE
- 450mm DEPTH

PAVEMENT COMPOSITION

NOT TO SCALE

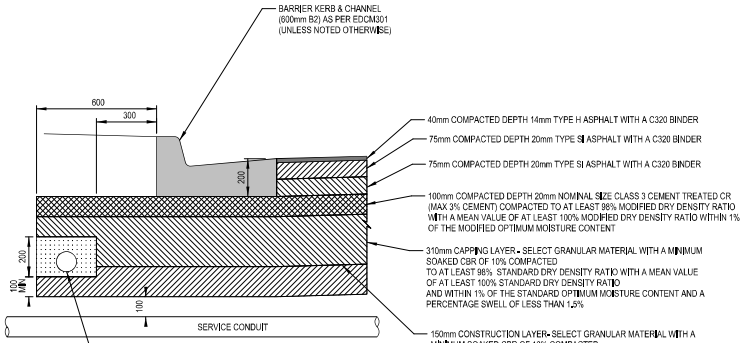
PLAN

SCALE 1:500

SCALE 1:500 @ A1

10 5 0 10 20 40

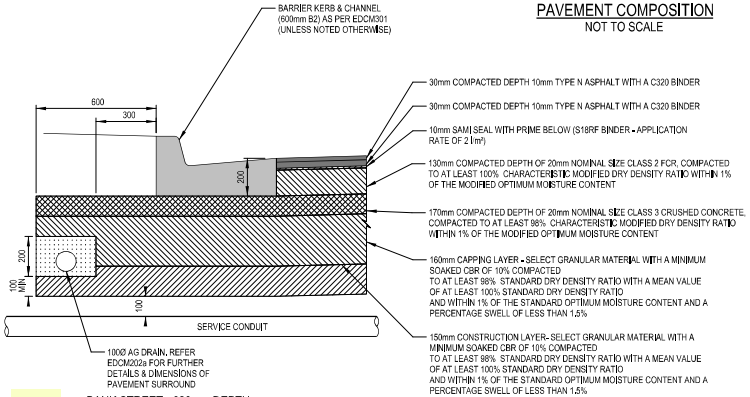
LENGTHS ARE IN METRES



MELKSHAM AVENUE - 750mm DEPTH

PAVEMENT COMPOSITION

REFER EDCM202a FOR ADDITIONAL DETAILS
(Dimensions in Millimetres)
N.T.S.



BANK STREET - 680mm DEPTH

PAVEMENT COMPOSITION

REFER EDCM202a FOR ADDITIONAL DETAILS
(Dimensions in Millimetres)
N.T.S.

LEGEND

TYPE 1 < 2000 VPD

TYPE 5 < 7000 VPD

AMENDMENTS		
A	09/07/24	ISSUE FOR CONSTRUCTION
VER	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	388-C-10
SURVEY	BPD
DESIGN	RF
DRAWN	RF
CHECKED	RGW

RATHDOWNE ESTATE
STAGE 25
PAVEMENT DETAILS

MUNICIPALITY: WHITTLESEA

REFERENCE: 9365 E/25

SCALE AS SHOWN | DATUM AHD | DATE JAN '24 | SHEET 10 OF 10 | A

Plotted: 9/07/2024

J:\H9365\Eng\Stage 25\E25_R10_PAV.dgn