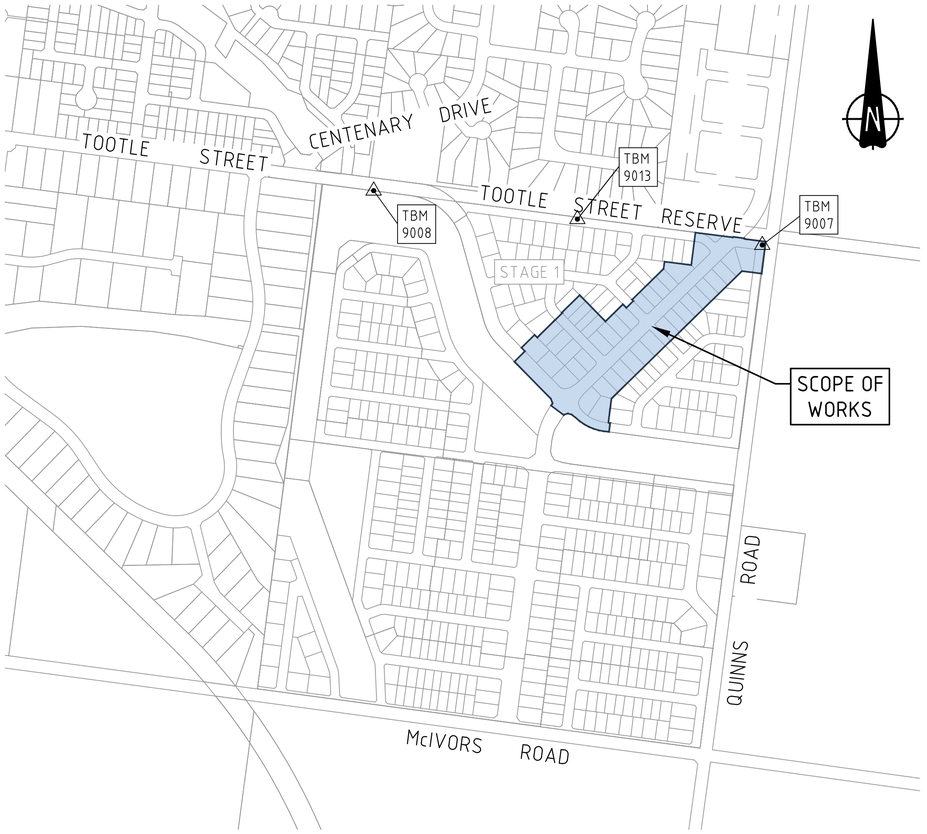
BROADSTEAD

STAGE 02

SUBDIVISIONAL WORKS

JINDING DEVELOPMENTS



LOCALITY PLAN

MELWAYS REF: 615 K10

H 1:5000 SCALE @ A1 0 100 200 300m

Sheet List Table	
Sheet Number	DESCRIPTION
3265-02-001	COVER SHEET
3265-02-010	GENERAL NOTES AND DETAILS (SHEET 1 OF 2)
3265-02-011	GENERAL NOTES AND DETAILS (SHEET 2 OF 2)
3265-02-100	LAYOUT PLAN (SHEET 1 OF 2)
3265-02-101	LAYOUT PLAN (SHEET 2 OF 2)
3265-02-020	TYPICAL CROSS SECTIONS (SHEET 1 OF 2)
3265-02-021	TYPICAL CROSS SECTIONS (SHEET 2 OF 2)
3265-02-200	ROAD LONGITUDINAL SECTION (SHEET 1 OF 5)
3265-02-201	ROAD LONGITUDINAL SECTION (SHEET 2 OF 5)
3265-02-202	ROAD LONGITUDINAL SECTION (SHEET 3 OF 5)
3265-02-203	ROAD LONGITUDINAL SECTION (SHEET 4 OF 5)
3265-02-204	ROAD LONGITUDINAL SECTION (SHEET 5 OF 5)
3265-02-250	ROAD CROSS SECTIONS (SHEET 1 OF 5)
3265-02-251	ROAD CROSS SECTIONS (SHEET 2 OF 5)
3265-02-252	ROAD CROSS SECTIONS (SHEET 3 OF 5)
3265-02-253	ROAD CROSS SECTIONS (SHEET 4 OF 5)
3265-02-254	ROAD CROSS SECTIONS (SHEET 5 OF 5)
3265-02-300	INTERSECTION DETAILS (SHEET 1 OF 7)
3265-02-301	INTERSECTION DETAILS (SHEET 2 OF 7)
3265-02-302	INTERSECTION DETAILS (SHEET 3 OF 7)
3265-02-303	INTERSECTION DETAILS (SHEET 4 OF 7)
3265-02-304	INTERSECTION DETAILS (SHEET 5 OF 7)
3265-02-305	INTERSECTION DETAILS (SHEET 6 OF 7)
3265-02-306	INTERSECTION DETAILS (SHEET 7 OF 7)
3265-02-350	SIGNAGE & LINEMARKING PLAN (SHEET 1 OF 2)
3265-02-351	SIGNAGE & LINEMARKING PLAN (SHEET 2 OF 2)
3265-02-400	DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 5)
3265-02-401	DRAINAGE LONGITUDINAL SECTIONS (SHEET 2 OF 5)
3265-02-402	DRAINAGE LONGITUDINAL SECTIONS (SHEET 3 OF 5)
3265-02-403	DRAINAGE LONGITUDINAL SECTIONS (SHEET 4 OF 5)
3265-02-404	DRAINAGE LONGITUDINAL SECTIONS (SHEET 5 OF 5)
3265-02-420	DRAINAGE PIT SCHEDULE

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

TBM SCHEDULE

TBM	Easting	Northing	Level	Description
9007	320285.268	5868446.310	391.773	PIPE
9008	319650.866	5868534.906	375.944	SPIKE
9013	319983.546	5868488.451	383.389	SPIKE

REV	DATE	DRN	CKD	APP	AMENDMENT
C	02.08.24	WS			RESERVE NO.2 FOOTPATH DETAILS ADDED
B	01.07.24	NT	KCL	B. J-MONCK	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.au

CLIENT: JINDING

APPROVED PE 0005549

DESIGNED: C. MCDONALD

SCALE: 1:5000

PROJECT: BROADSTEAD - STAGE 02

TITLE: COVER SHEET

MUNICIPALITY: MITCHELL SHIRE COUNCIL

PP No.: PLP430/22

DRAWING No.: 3265-02-001

REVISION: C

ORIGINAL SIZE: A1

C:\12651data\FES\3265-02_ES3\Design\Acad\3265-02_001 COVER.dwg 8/2/2024 9:14 AM WESLEY SANSOM

NOTES:

GENERAL

1. ALL LEVELS SHOWN ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.) AND ALL CO-ORDINATES ARE TO MAP GRID AUSTRALIA (MGA) ZONE 55.
2. THE PLAN OF SUBDIVISION PREPARED BY MNG WILL BE PEGGED BY THE SURVEYOR. FOR SPECIFIC LOT DIMENSIONS REFER TO PLAN OF SUBDIVISION NO: PS902812F LATEST VERSION.
3. ALL ROAD AND DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992, THE ROAD & DRAINAGE SPECIFICATION, IDM STANDARD DRAWINGS AND TO THE SATISFACTION OF COUNCIL.
4. THE CONTRACTOR IS TO CHECK BENCH MARKS PRIOR TO THE COMMENCEMENT OF WORKS AND IMMEDIATELY REPORT ANY DISCREPANCIES. TBM's TO BE RE-ESTABLISHED BY THE 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.
5. FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED TO WITHIN 100mm OF REQUIRED LEVEL AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. FILLING UNDER LEVEL 1 SUPERVISION TO BE CLEAN CLAY COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1289.5.1.1-1993. TESTING TO COMPLY WITH AS1289.0-2000.
6. EXISTING DAMS ARE TO BE BREACHED, DRAINED, DE-SLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED APPROVED AND LEVELLED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. FILL IS TO BE PLACED AND COMPACTED AS SPECIFIED AND TO LEVEL 1 SUPERVISION. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS OF BETWEEN 85% AND 125% OF OPTIMUM AND APPROPRIATE TO THE TYPE OF COMPACTION EQUIPMENT USED. THE FILL SHALL BE UNIFORMLY COMPACTED IN LAYERS NOT EXCEEDING 300mm DEPTH TO A MINIMUM OF 95% STANDARD DRY DENSITY.
7. BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5m DEEP, NOTICE OF SUCH PROPOSAL IS TO BE SENT TO THE CHIEF MINING INSPECTOR OCCUPATIONAL HEALTH & SAFETY AUTHORITY IN ACCORDANCE WITH THE WORK SAFE REGULATIONS - "SAFETY PRECAUTIONS IN TRENCHING OPERATIONS" CODE OF PRACTICE No.8 1988. A FOREMAN QUALIFIED AS A MINES MANAGER MUST BE IN ATTENDANCE AT ALL TIMES DURING SUCH EXCAVATIONS.
8. THE CONTRACTOR SHALL COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND ASSOCIATED CODE OF PRACTICE.
9. PRIOR TO WORKS BEING PLACED ON MAINTENANCE ALL AREAS OF THE SUBDIVISION EXPOSED BY DE-VEGETATION INCLUDING NATURE STRIPS, LOTS AND RESERVES ARE TO BE HYDRO-SEEDED UNLESS OTHERWISE SPECIFIED.
10. ALL CONCRETE TO BE 32MPa FOR PITS & 25MPa IN OTHER APPLICATIONS UNLESS SPECIFIED OTHERWISE. ALL CONCRETE OVER 125mm THICK TO BE VIBRATED USING MECHANICAL VIBRATORS.
11. FOR CONCRETE ROAD PAVEMENTS, CONCRETE JOINTING DETAILS ARE TO BE PROVIDED IN ACCORDANCE WITH "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" (1997-CCAA).
12. ALL CHAINAGES REFER TO ROAD RESERVE CENTRELINES EXCEPT, IN COURT HEADS AND KERB RETURNS CHAINAGES REFER TO LIP OF KERB.
13. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD TO A STANDARD ACCEPTABLE BY THE SUPERINTENDENT.
14. ANY BUILDINGS, TROUGHS, FENCES, DEBRIS AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER OR UNLESS OTHERWISE SPECIFIED. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
15. NO TOPSOIL IS TO BE REMOVED FROM SITE WITHOUT THE CONSENT OF THE SUPERINTENDENT.
16. FOR PAVEMENT RECOMMENDATIONS & SOIL CONDITIONS REFER TO GEOTECHNICAL REPORT.
17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SITE GRADING AND DRAINAGE AND TO PROTECT AND MAINTAIN SUBGRADES IN A SUITABLE CONDITION IN ORDER TO ACHIEVE THE COMPACTIONS SPECIFIED. SHOULD SUBGRADES BECOME SATURATED ANY UNSUITABLE MATERIAL IS TO BE REMOVED AND MADE GOOD WITH TYPE B GENERAL FILL AT THE CONTRACTORS COST.
18. IN NEW LANDSCAPE AREAS ALL REDUNDANT PAVEMENT MATERIAL SHALL BE REMOVED & REINSTATED WITH CLEAN FILL TO FINISHED SURFACE LEVEL. UNLESS NOTED OTHERWISE ON THE LANDSCAPE PLANS REINSTATEMENT OF A MINIMUM 150mm OF CLEAN TOPSOIL SHALL BE PROVIDED TO ALL NATURE STRIP AND RESERVE.
19. ALL EXISTING TREES IN THE VICINITY OF THE TRAFFICABLE AREAS THAT ARE TO BE RETAINED SHALL BE PRUNED, ROOTS CUT AND SEALED WHERE THEY EXTEND BENEATH NEW WORKS, BY APPROPRIATELY QUALIFIED PERSONNEL. TREES TO BE REMOVED SHALL HAVE ALL ROOTS GRUBBED OUT AND BE MADE GOOD WITH COMPACTED FILL.
20. PRIOR TO COMPLETION, THE CONTRACTOR SHALL ENSURE THE SITE OF WORKS IS TIDIED & OBTAIN A CLEARANCE FROM THE SUPERINTENDENT.
21. CONDITION OF EXISTING PAVEMENT SURROUNDING THE DEVELOPMENT TO BE RECORDED. ANY DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES TO BE REPAIRED TO COUNCIL'S SATISFACTION.
22. COUNCIL TO BE NOTIFIED (5) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS. A PRE-COMMENCEMENT SESSION MUST BE CONVENED WITH COUNCIL, SUPERINTENDENT AND THE CONTRACTOR.
23. HOLD POINTS SHALL COMPLY WITH MITCHELL SHIRE REQUIREMENTS INCLUDING PROVISIONS OF CCTV OF ALL ROAD DRAINAGE, PRIOR TO ANY BITUMINOUS SEAL OR CONCRETE PAVEMENTS.
24. ANY REAR OR SIDE EASEMENT DRAINAGE MUST ADOPT THE IDM SD520 STANDARD.

ROADWORKS

25. FILL BATTERS SHALL GENERALLY BE 1 IN 6 AND CUT BATTERS 1 IN 6 MAXIMUM CUT BATTERS ARE TO BE STABILISED TO THE SATISFACTION OF THE ENGINEER.
26. FOOTPATH EXPANSION JOINTS SHALL BE PLACED ON EITHER SIDE OF DRIVEWAY CROSSINGS. EACH JOINT IS TO BE DOWELLED WITH 3x10mm DIAMETER DOWELS WHICH ARE TO HAVE A GREASED SLEEVE OVER ONE END TO PERMIT SLIP. JOINTS ARE TO BE FILLED WITH AN APPROVED COMPOSITE MATERIAL OR PLASTIC FILLER.
27. ALL LINE MARKING IS TO BE APPLIED USING LONG LIFE THERMOPLASTIC PAINT, IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 1742-1 AND AS 1742-2 AND COUNCIL REQUIREMENTS UNLESS OTHERWISE SPECIFIED. RRPM's ARE TO BE INSTALLED IN ACCORDANCE WITH VICROADS AND/OR COUNCIL SPECIFICATIONS.
28. ALL TEMPORARY WARNING SIGNS DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS1742-3.
29. CONTRACTOR TO CONFIRM STREET NAME WITH COUNCIL/SUPERINTENDENT PRIOR TO MANUFACTURE OF STREET SIGNS.
30. ANY WORKS WITHIN ROADWAYS SHALL SATISFY COUNCILS REQUIREMENTS FOR OCCUPANCY OF ROAD RESERVES.
31. WHERE PAVEMENT (INCLUDING FOOTPATHS AND VEHICLE CROSSINGS) IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL; AND CONSTRUCTED IN ACCORDANCE WITH AS1289.0-2000.
32. WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUBGRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
33. WHEN WORKS ARE ON AN EXISTING ROAD THE CONTRACTOR SHALL OBTAIN ALL NECESSARY ROAD OPENING PERMITS AND AUTHORITY APPROVALS PRIOR TO COMMENCING WORKS.

DRAINAGE

34. DRAINAGE PITS ARE TO BE SET OUT FROM OFFSETS AND CO-ORDINATES.
35. PITS AT TANGENT POINTS OF KERB RADIALS ARE TO BE LOCATED IMMEDIATELY ADJACENT TO T.P.
36. ALL DRAINS WITHIN ROAD RESERVE SHALL BE BACKFILLED WITH 20mm FCR CLASS 3. DRAINS UNDER ROAD PAVEMENT TO BE BACKFILLED WITH 20mm FCR CLASS 2 AS SHOWN ON THE DRAWINGS. COMPACTION SHALL BE IN ACCORDANCE WITH SPECIFICATION.
37. ALL DRAINAGE PIPE CLASSES ARE TO BE AS PER THE DRAINAGE LONGITUDINAL SECTIONS.
38. ALL PIPES ARE TO BE RUBBER RING JOINTED REINFORCED CONCRETE UNLESS OTHERWISE NOTED.
39. 100mm DIAMETER CORRUGATED AGRICULTURAL PIPE DRAINS (AG's) ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, EDGE STRIP AND OTHER LOCATIONS WHERE SHOWN AND/OR DIRECTED BY THE ENGINEER.
40. PROPERTY INLETS WITHIN DRAINAGE EASEMENT ARE TO BE PLACED 1.00m FROM LOW CORNERS OF ALLOTMENTS UNLESS OTHERWISE SPECIFIED.
41. GRATED COLLECTION PITS ARE TO BE PROVIDED FOR PROPERTY CONNECTIONS TO EASEMENT DRAINS ON THE LOW SIDE OF LOTS IN ACCORDANCE WITH IDM SD520.
42. 100mm DIA HOUSE DRAINS IN ROADS TO BE PLACED 5.5m FROM LOW CORNER OF ALLOTMENT UNLESS OTHERWISE SPECIFIED.
43. PIPES LAID AT MINIMUM DEPTH ARE TO BE PROTECTED DURING CONSTRUCTION USING ADDITIONAL COVER OR A HIGHER CLASS PIPE IS TO BE INSTALLED.

ENVIRONMENTAL CONTROL MEASURES

44. NO NATIVE VEGETATION SHALL BE DESTROYED, FELLED, LOPPED RING BARKED OR UPROOTED WITHOUT THE CONSENT OF THE RESPONSIBLE AUTHORITY.
45. ALL TREES ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS UNLESS OTHERWISE SPECIFIED.
46. PERMISSION IN WRITING IS REQUIRED FROM THE SUPERINTENDENT PRIOR TO THE REMOVAL OF ANY TREE EVEN IF MARKED FOR REMOVAL ON PLANS.
47. PRIOR TO REMOVAL, TREES ARE TO BE MARKED BY CONTRACTOR AND APPROVED BY COUNCIL OR SUPERINTENDENT.
48. CONTRACTOR TO PROVIDE ADEQUATE PROTECTION AGAINST SILT RUNOFF FROM THE SITE AS PART OF THE ENVIRONMENTAL MANAGEMENT PLAN (EMP).

SERVICES

49. ALL GAS AND WATER CONDUITS ARE TO BE INSPECTED BY THE SUPERVISING ENGINEER PRIOR TO BACKFILLING. CONDUITS TO EXTEND ON BOTH SIDES WHERE APPLICABLE TO 500mm BEYOND THE BUILDING LINE. ALL TRENCHES SHALL BE BACKFILLED WITH 20mm CLASS "2" FCR. GAS AND WATER CONDUITS ARE TO BE LOCATED 1.4m FROM THE TITLE BOUNDARY OPPOSITE THE CROSSOVER OR 5.0m FROM THE TITLE BOUNDARY ADJACENT TO THE CROSSOVER, UNLESS OTHERWISE NOTED.
50. ELECTRICAL AND TELECOMMUNICATIONS CONDUITS TO EXTEND 500mm BEYOND BOTH SIDES OF KERB.
51. CONDUITS FOR TELECOMMUNICATIONS, GAS AND WATER SERVICES ARE TO BE POSITIONED TO AN APPROVED LOCATION UNLESS OTHERWISE NOTED AND ARE TO BE PLACED AT RIGHT ANGLES TO THE KERB AND SERVICE ALIGNMENT. TELECOMMUNICATIONS, GAS AND WATER CONDUITS ARE TO BE 50mm DIA PVC PIPES, CLASS 12. CONDUITS UNDER FOOTPATHS TO BE REFERENCED ON BACK OF PATH.
52. SERVICE TRENCHES NEAR FOOTPATH SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL.
53. ALL EXCAVATION FOR SERVICES MUST BE CONTAINED WITHIN EASEMENTS OR ROAD RESERVES. ANY EXCAVATION OUTSIDE THESE LIMITS MUST BE BACKFILLED WITH CLASS 3 OR CLASS 2 FCR AT 95% MODIFIED COMPACTION UNLESS NOTED OTHERWISE.
54. BACKFILL MATERIAL FOR CONDUITS UNDER ROADS SHALL BE CLASS 3 OR CLASS 2 FCR (20 MM NOMINAL SIZE) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
55. ALL SERVICE TRENCHES UNDER ROADS, DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH COMPACTED CLASS 3 OR CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND K&CH AND PARKING BAYS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
56. EXISTING SERVICE LOCATIONS SHOWN HAVE BEEN OBTAINED FROM DIAL BEFORE YOU DIG RECORDS AND/OR SITE PLANS. EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT. PRIOR TO THE COMMENCEMENT OF WORKS, THE CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES IN THE VICINITY OF PROPOSED WORKS AND UNDERTAKE ANY ON SITE INSPECTION WITH SERVICE AUTHORITIES AS NECESSARY. ANY DAMAGE CAUSED TO SERVICE AUTHORITIES ASSETS WHETHER SHOWN ON CONSTRUCTION PLANS OR NOT IS TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
57. ALL EXISTING PITS AND SERVICE FITTINGS THAT ARE TO REMAIN WITHIN THE PAVEMENT AREAS SHALL BE REBUILT TO MATCH PROPOSED LEVELS AND WHERE APPLICABLE FITTED WITHIN AN APPROPRIATE HEAVY DUTY, AUTHORITY APPROVED COVER. ELSEWHERE EXISTING SERVICES SHALL BE ADJUSTED TO SUIT NEW ADJACENT LEVELS. THE RELEVANT AUTHORITY IS TO BE NOTIFIED PRIOR TO ANY WORKS ON THEIR ASSETS AND SERVICES ARE TO BE ADJUSTED TO THE RELEVANT AUTHORITY REQUIREMENTS.

CONSTRUCTION MANAGEMENT

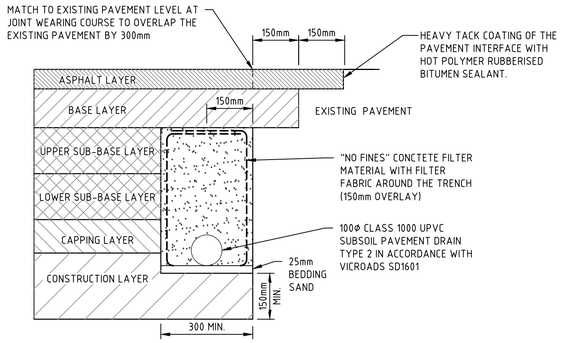
58. CONTRACTOR SHALL BE REQUIRED PRIOR TO COMMENCING WORKS TO SUBMIT THE FOLLOWING DOCUMENTS:
- PROJECT CONSTRUCTION PLAN
- ENVIRONMENTAL MANAGEMENT PLAN
- OH&S RISK ASSESSMENT
- SITE MANAGEMENT PLAN
- PROGRAM OF WORKS
- COMPACTION TEST PLAN FOR ALL PAVEMENTS, FILLED AREAS AND DRAINAGE WORKS
- AND ALL OTHER RELEVANT INSPECTION AND TEST PLANS

PAVEMENT DETAILS

- THE PAVEMENT DESIGNS SHOWN HAVE BEEN DESIGNED & PROVIDED BY SITE GEOTECHNICAL WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT.
- COSSILL & WEBLEY IS NOT RESPONSIBLE FOR THE WORK OF SITE GEOTECHNICAL.
- ALL PAVEMENT DESIGNS ARE EXTRACTS FROM THE SITE GEOTECHNICAL REPORT "SITE GEOTECH R9096-1".
- THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.
- COSSILL & WEBLEY DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTCHNICAL WORK & / OR PAVEMENT DESIGNS.
- ANY QUERIES SHOULD BE ADDRESSED TO SITE GEOTECHNICAL AND SENT TO COSSILL & WEBLEY.

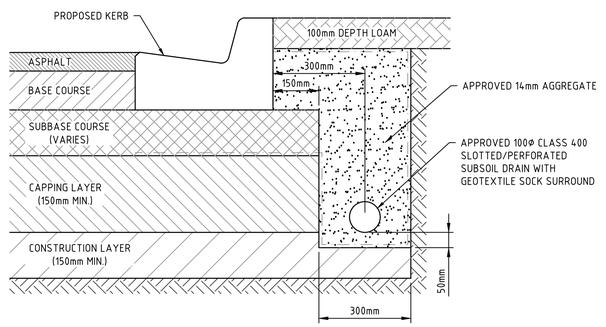
PAVEMENT PLAN

NOT TO SCALE



PAVEMENT JOINT DETAIL (EXPANSIVE SUBGRADE)

NOT TO SCALE

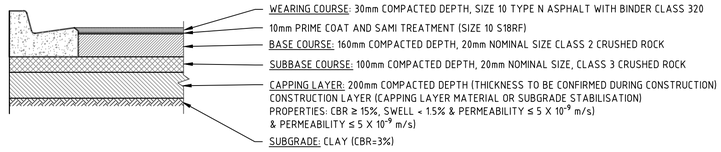


SUBSURFACE DRAIN (EXPANSIVE SOILS)

NOT TO SCALE
REFER IDM STD DWG SD 145

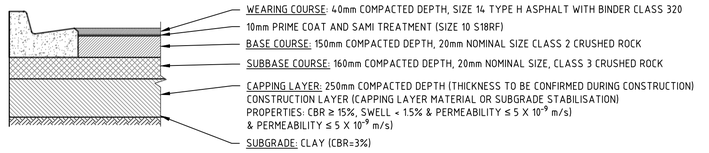
PAVEMENT PROFILE (2500-5000 VPD)

EVERGREEN BOULEVARD
TOTAL DEPTH = 600mm



PAVEMENT PROFILE (500-1000 VPD)

ORCHID GROVE, GROWER STREET, REED WAY AND EVERGREEN BOULEVARD (EAST OF WESTRINGIA APPROACH)
TOTAL DEPTH = 490mm



PAVEMENT PROFILE (1000-2500 VPD)

BURSARIA TERRACE & WESTRINGIA APPROACH
TOTAL DEPTH = 600mm

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
B	26.06.24	NT			ISSUED FOR APPROVAL
A	24.06.24	NT	FP	B. J-MONCK	INITIAL ISSUE

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

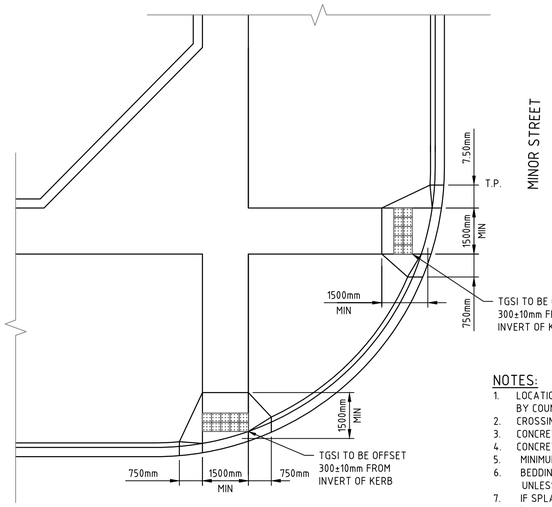
This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED: PE 0005549
DESIGNED: A. MAY
SCALE: NOT TO SCALE

PROJECT: BROADSTEAD - STAGE 02
TITLE: GENERAL NOTES AND DETAILS (SHEET 1 OF 2)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-010
REVISION: B
ORIGINAL SIZE: A1

C:\12651data\FS03\3265-02_JS3\Design\Acad\3265-02_010 NOTES.dwg 6/26/2024 5:16 PM KEN LEE



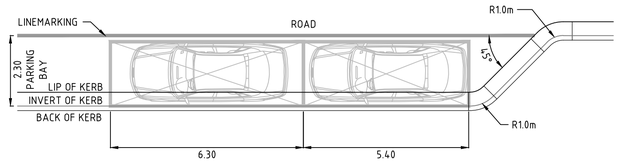
TYPICAL PRAM CROSSING DETAIL

NOT TO SCALE

REFER STD DWG IDM SD200

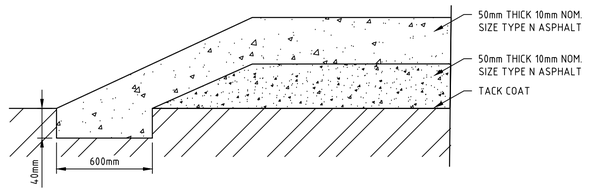
NOTES:

1. LOCATION OF CROSSINGS TO BE CASE BY CASE & TO BE APPROVED BY COUNCIL.
2. CROSSING GENERALLY TO BE LOCATED AT TANGENT POINTS.
3. CONCRETE TO BE SMOOTH TROWELLED FINISH ON TRAY.
4. CONCRETE TO BE FINE SOFT HAIR BROOM FINISH ON LAYBACK.
5. MINIMUM CONCRETE STRENGTH TO BE 25 MPA.
6. BEDDING TO BE COMPACTED CLASS 3 (OR BETTER) F.C.R. UNLESS OTHERWISE DIRECTED.
7. IF SPLAY IS NOT REQUIRED FOOTPATH IS TO CONTINUE THROUGH TO LAYBACKS.
8. TGSI'S (TILES), WHERE REQUIRED, ARE TO BE INSTALLED TO AS1428.4
9. WHERE ANY NEW CONCRETE ABUTS EXISTING CONCRETE INSTALL R16Ø DOWELS IN 125mm THICK CONCRETE OR R10Ø DOWELS IN 75mm THICK CONCRETE DOWELS @ MAX 600 CTS.
10. REFER SD 205, SD270 FOR FURTHER FOOTPATH DETAILS



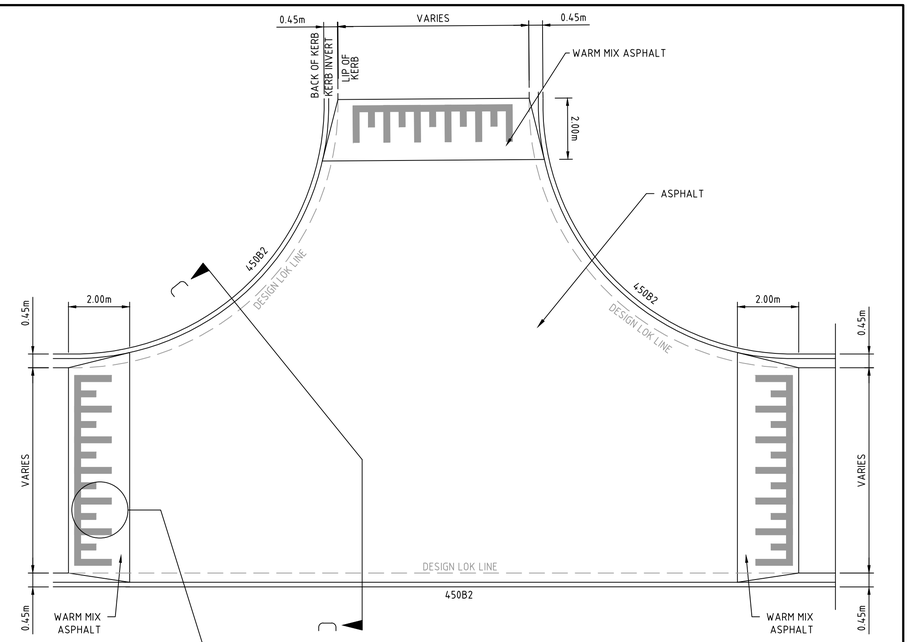
TYPICAL INDENTED BAY DETAIL

NOT TO SCALE



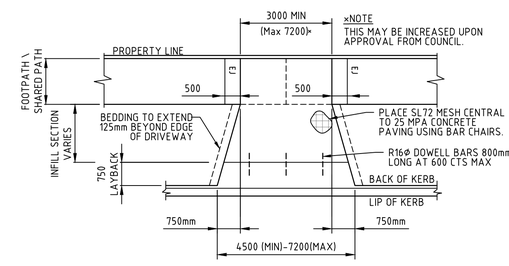
TYPICAL ASPHALT RAISED PAVEMENT

NOT TO SCALE



TYPICAL RAISED INTERSECTION DETAIL

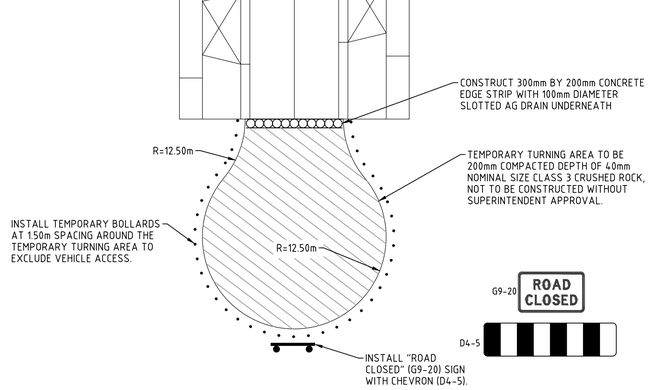
NOT TO SCALE

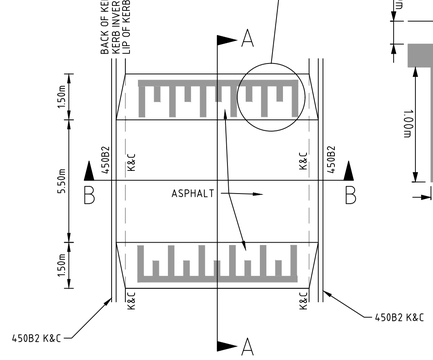


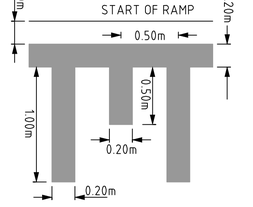
SINGLE RESIDENTIAL VEHICLE CROSSING

NOT TO SCALE

REFER STD DWG IDM SD240

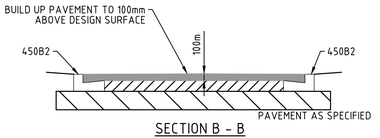






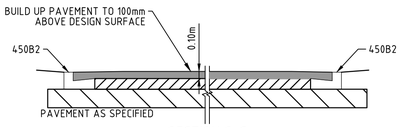
SECTION A-A

NOT TO SCALE



SECTION B - B

NOT TO SCALE

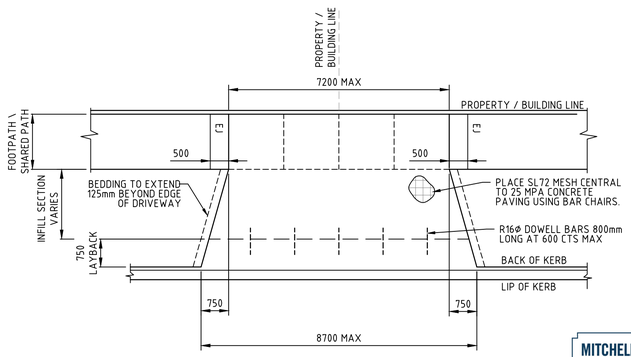


SECTION C-C

NOT TO SCALE

TYPICAL RAISED PAVEMENT DETAIL

NOT TO SCALE

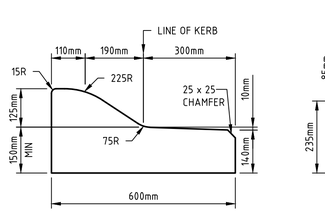


DOUBLE RESIDENTIAL VEHICLE CROSSING

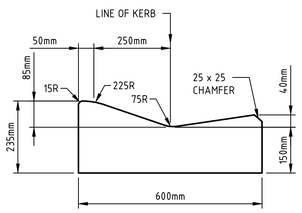
NOT TO SCALE

REFER STD DWG IDM SD245

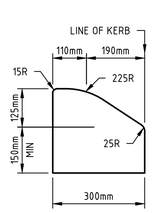
MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024



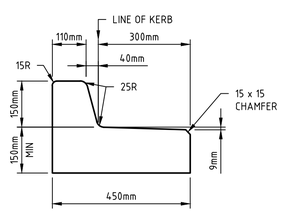
SM3



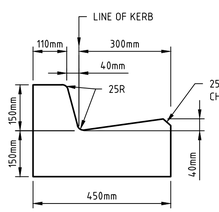
SM2-M (MODIFIED)



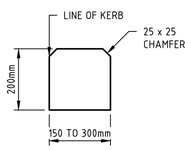
SM1



B3



B2



EDGESTRIP

KERB PROFILES

SCALE: 1:10 @ A1

REV	DATE	DRN	CKD	APP	AMENDMENT
B	26.06.24	NT			ISSUED FOR APPROVAL
A	24.06.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING

APPROVED: PE 0005549

DESIGNED: A. MAY

SCALE: AS SHOWN

PROJECT: BROADSTEAD - STAGE 02

TITLE: GENERAL NOTES AND DETAILS (SHEET 2 OF 2)

MUNICIPALITY: MITCHELL SHIRE COUNCIL

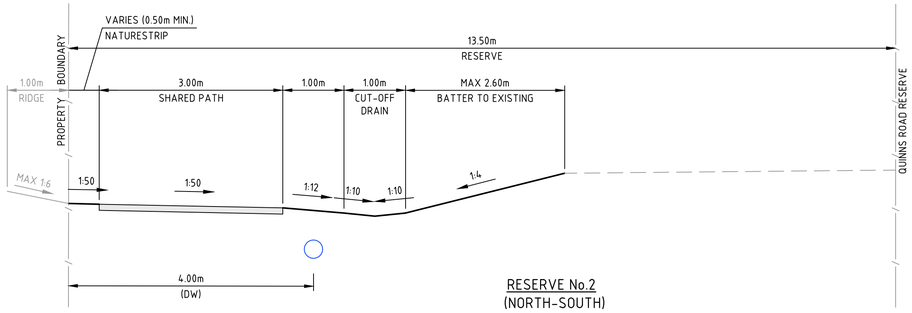
PP No.: PLP430/22

DRAWING No.: 3265-02-011

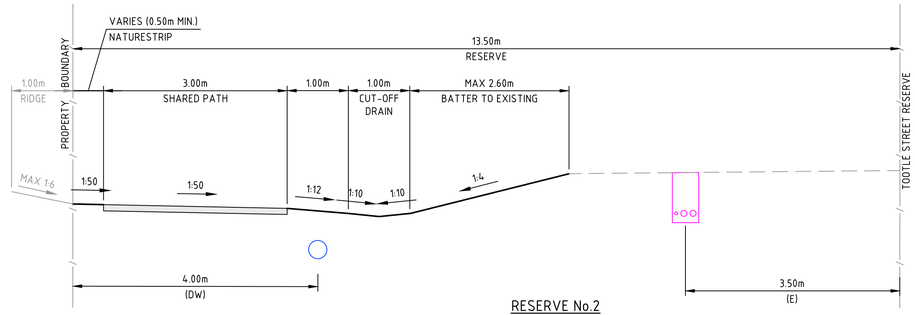
REVISION: B

ORIGINAL SIZE: A1

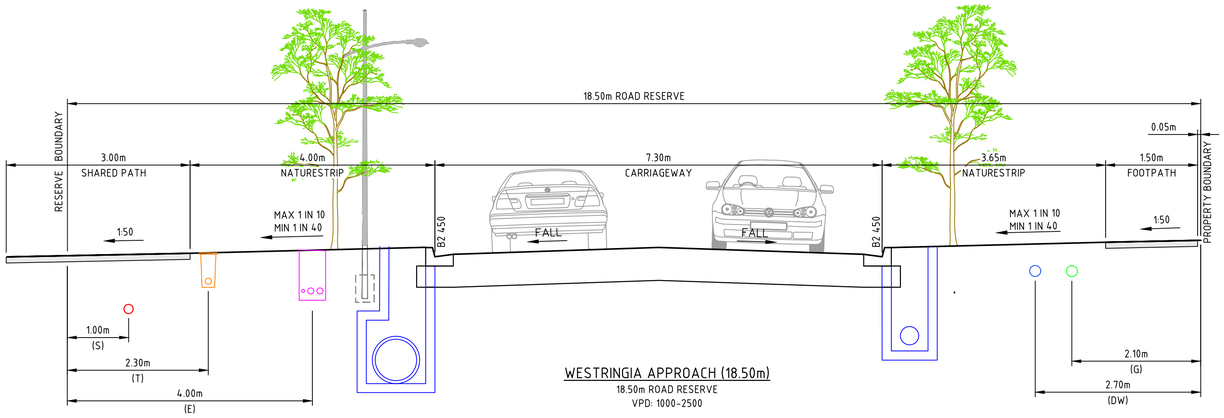
C:\3265\data\F5031 3265-02_253\Design\A4.cat\3265-02-210 NOTES.dwg 6/26/2024 5:17 PM KEN LEE



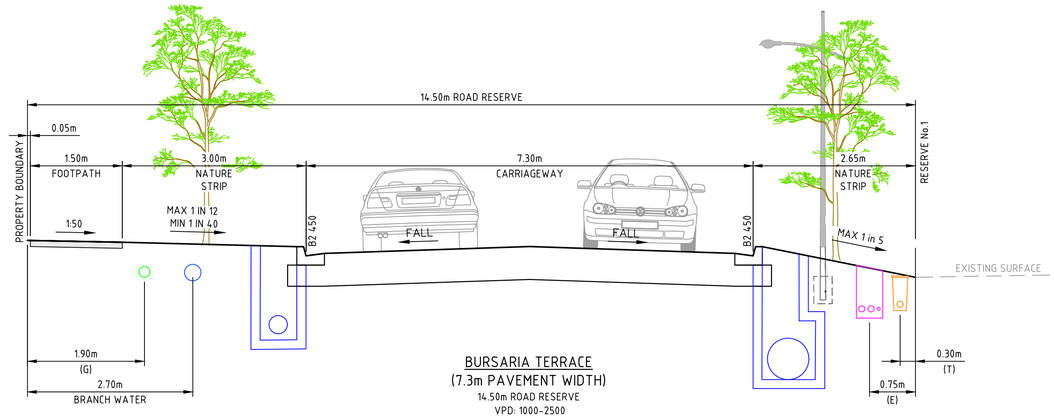
RESERVE No.2
(NORTH-SOUTH)
13.50m RESERVE



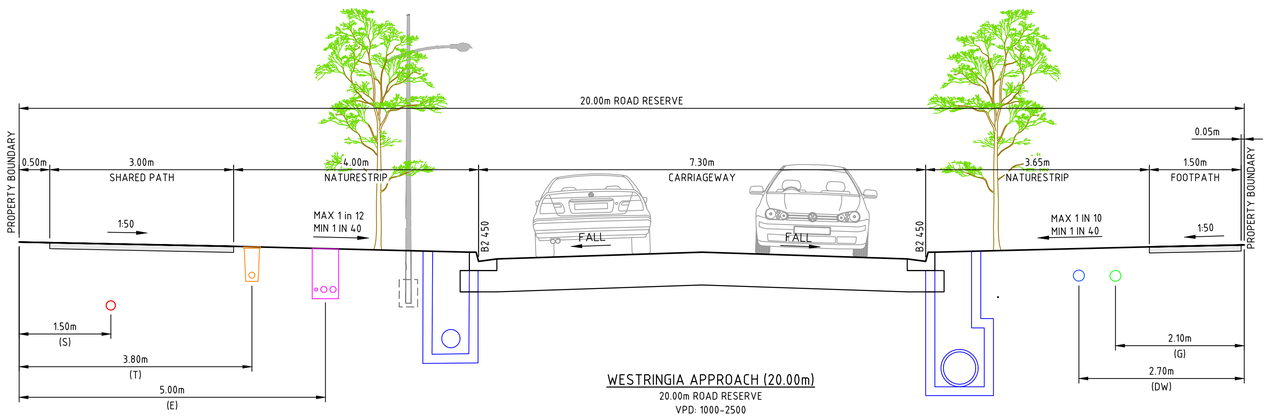
RESERVE No.2
(EAST-WEST)
13.50m RESERVE



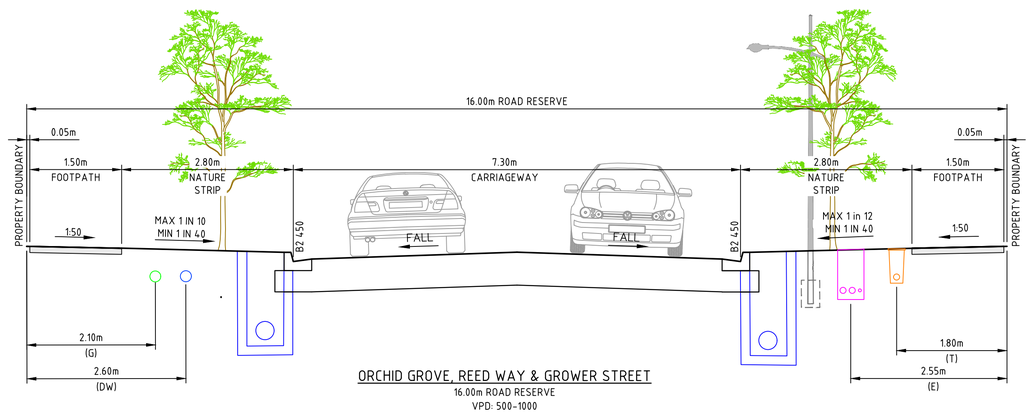
WESTRINGIA APPROACH (18.50m)
18.50m ROAD RESERVE
VPD: 1000-2500



BURSARIA TERRACE
(7.3m PAVEMENT WIDTH)
14.50m ROAD RESERVE
VPD: 1000-2500



WESTRINGIA APPROACH (20.00m)
20.00m ROAD RESERVE
VPD: 1000-2500



ORCHID GROVE, REED WAY & GROWER STREET
16.00m ROAD RESERVE
VPD: 500-1000

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
C	06.08.24	TP			ELECT. OFFSETS UPDATED; SHAREDPATH IN REVSERVE 2 MODIFIED.
B	26.06.24	NT	KCL	B. J-MONCK	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:50
SCALE @ A1 0 1 2 3m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

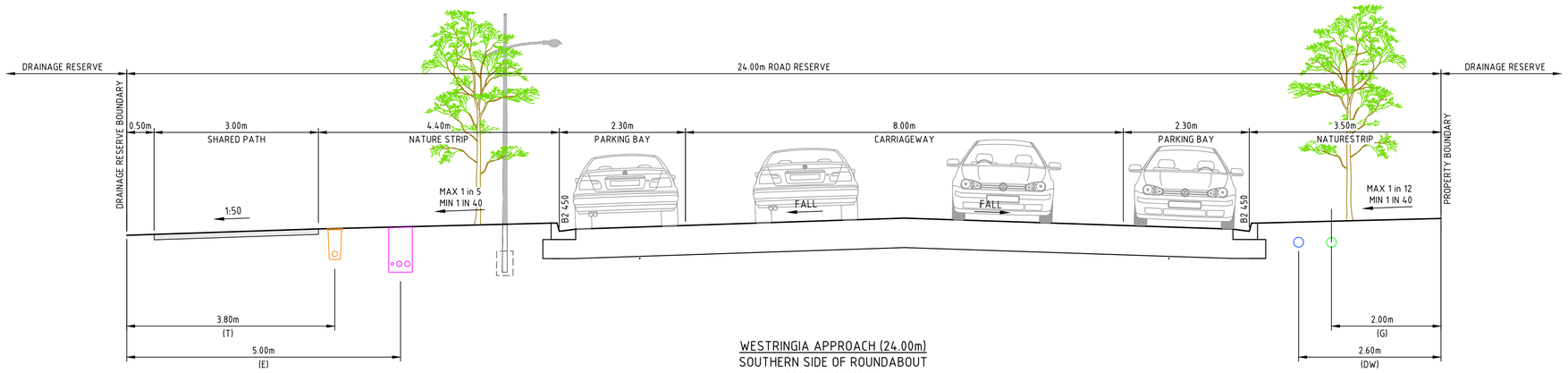
This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley
CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road
Melbourne VIC 3004
W cossillwebley.com.au
T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

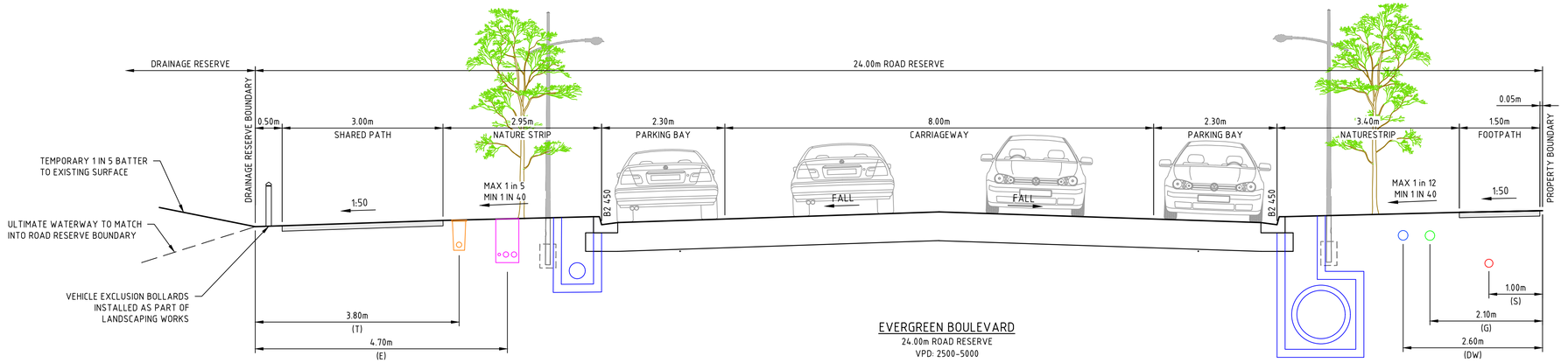
CLIENT: JINDING
APPROVED PE 0005549
DESIGNED: A. MAY
SCALE: 1:50 @ A1

PROJECT: BROADSTEAD - STAGE 02
TITLE: TYPICAL CROSS SECTIONS
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-020
REVISION: C
ORIGINAL SIZE: A1

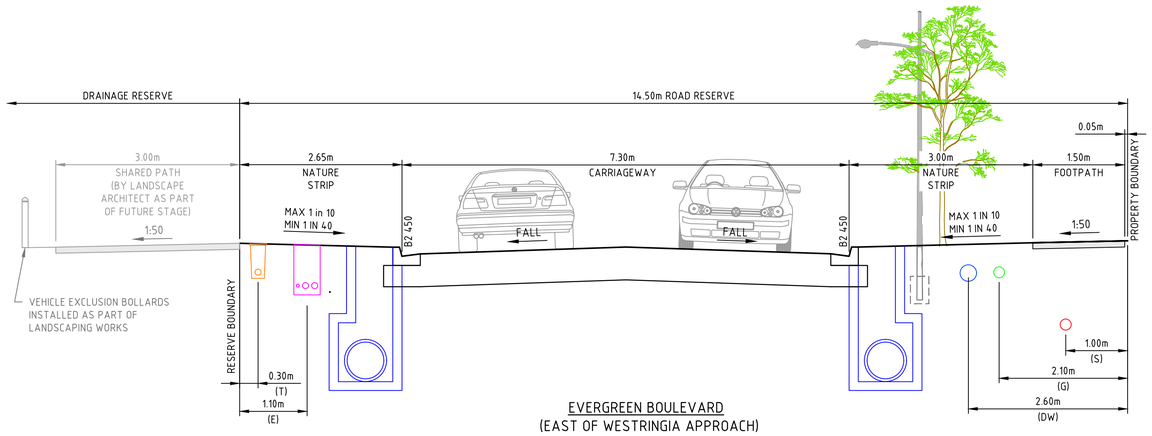
C:\12d\5.data\FSD\3265-02_JKS\Design\Acad\3265-02-020 TXS.dwg 8/6/2024, 3:47 PM KEN LEE



WESTRINGIA APPROACH (24.00m)
SOUTHERN SIDE OF ROUNDABOUT
20.00m ROAD RESERVE
VPD: 1000-2500



EVERGREEN BOULEVARD
24.00m ROAD RESERVE
VPD: 2500-5000



EVERGREEN BOULEVARD
(EAST OF WESTRINGIA APPROACH)
14.50m ROAD RESERVE
VPD: 500-1000

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
C	18.07.24	TP			ELECTRICAL ALIGNMENT OFFSETS UPDATED
B	26.06.24	NT	KCL	B. J-MONCK	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:50
SCALE @ A1 0 1 2 3m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

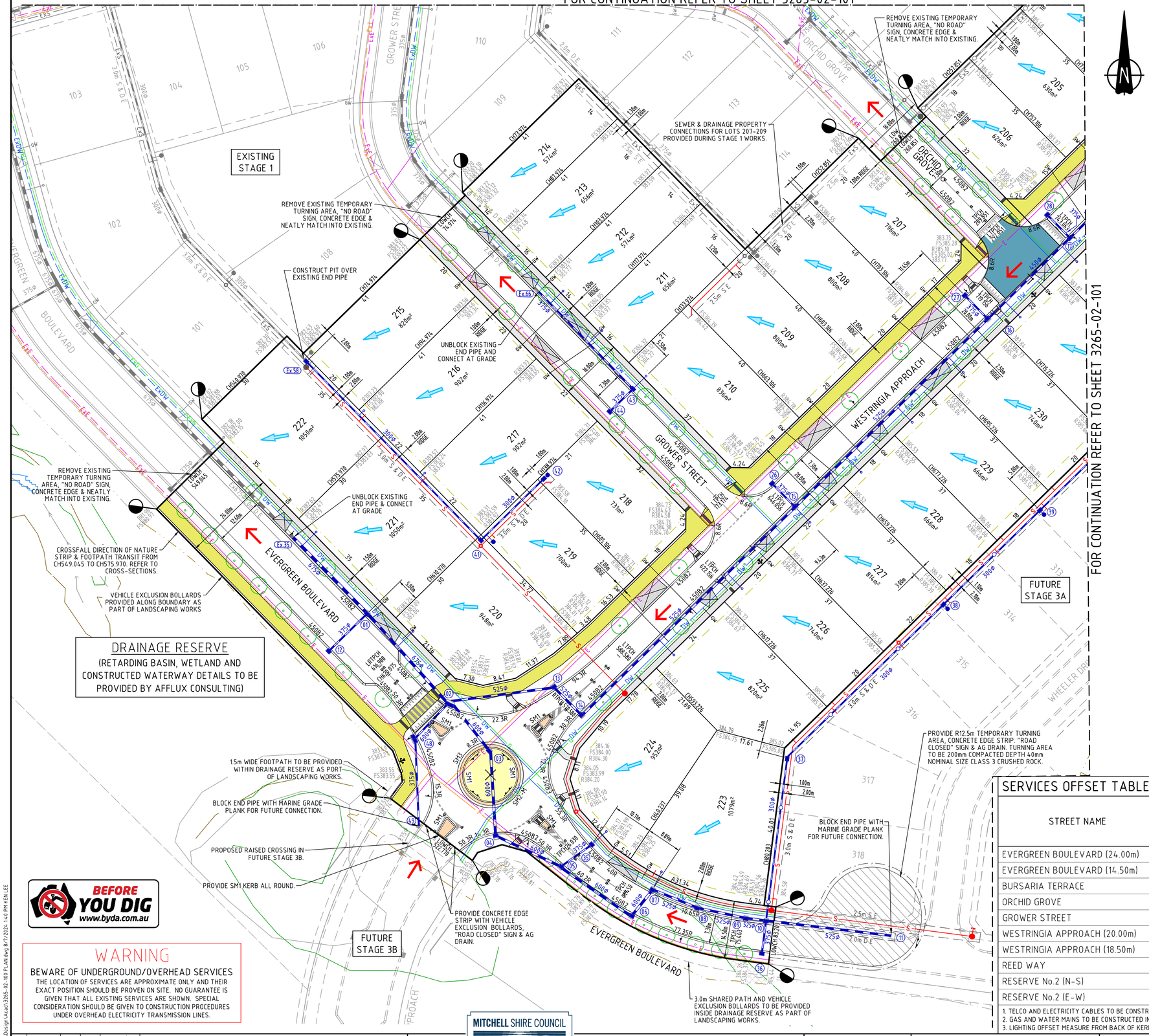
This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road
Melbourne VIC 3004
W cossillwebley.com.au
T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED PE 0005549
DESIGNED C. MCDONALD
SCALE 1:50 @ A1

PROJECT: BROADSTEAD - STAGE 02
TITLE: TYPICAL CROSS SECTIONS (SHEET 2 OF 2)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No. PLP430/22
DRAWING No. 3265-02-021
REVISION C
ORIGINAL SIZE A1

C:\3265\data\FS03\3265-02_FS3\Design\Acad\3265-02-203 TXS.dwg 7/08/2024 9:02 AM TONY PHAN



LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN – DRINKING WATER	ExNDW	DW
UNDERGROUND ELECTRICITY	ExE	E
TELECOMMUNICATIONS & SERVICE PIT	ExT	T
GAS MAIN	ExG	G
CENTRAL INVERT	>	>
BRANCH SEWER & MANHOLE	ExS	S
SEWER & MANHOLE	ExS	S
COUNCIL STORMWATER DRAIN, PIT & HOUSE DRAIN/PROPERTY INLET		
GAS & WATER CONDUITS	GW	GW
HOUSE DRAIN		
STORMWATER DRAINAGE PIT NUMBER	01	01
CONCRETE VEHICLE CROSSING		
CONCRETE FOOTPATH		
RAISED PLATFORM		
SHARED PATH		
LANDSCAPING		
CONCRETE INFILL MEDIAN		
FILLING GREATER THAN 300mm		
RIDGE / CHANGE OF GRADE LINE		
SURFACE LEVEL	43.21	F44.33
RIDGE LEVEL		R43.55
ROAD CHAINAGES	CH36.20 (L/R)TP CH36.20	CH36.20 (L/R)TP CH36.20
LOT CHAINAGE	CH28.50	CH28.50
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
FALL OF DESIGN SURFACE		
100 YEAR OVERLAND FLOW PATH		
SIGN AND POST		
LIMIT OF WORKS		
BATTER		
TREE PROTECTION ZONE HIGH / MED / LOW		
STRUCTURAL ROOT ZONE HIGH / MED / LOW		
TREE TO BE REMOVED		
VEGETATION LINE		
VEGETATION LINE TO BE REMOVED		

SERVICES OFFSET TABLE

STREET NAME	GAS		DRINKING WATER		TELCO		ELECTRICITY		SEWER		LIGHTING	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
EVERGREEN BOULEVARD (24.00m)	E	2.10	E	2.60	W	3.80	W	4.70	E	1.00	S & W	0.80
EVERGREEN BOULEVARD (14.50m)	N	2.10	N	2.60	S	0.30	S	1.10	N	1.00	S	0.80
BURSARIA TERRACE	S	1.90	S	2.70	N	0.30	N	0.75	–	–	S	0.80
ORCHID GROVE	E	2.10	E	2.60	W	1.80	W	2.55	–	–	W	0.80
GROWER STREET	E	2.10	E	2.60	W	1.80	W	2.55	–	–	W	0.80
WESTRINGIA APPROACH (20.00m)	E	2.10	E	2.70	W	3.80	W	5.00	W	1.50	W	0.80
WESTRINGIA APPROACH (18.50m)	E	2.10	E	2.70	W	2.30	W	4.00	W	1.00	W	0.80
REED WAY	E	2.10	E	2.60	W	1.80	W	2.60	–	–	W	0.80
RESERVE No.2 (N-S)	–	–	W	4.00	–	–	–	–	–	–	–	–
RESERVE No.2 (E-W)	–	–	S	4.00	–	–	N	3.50	–	–	–	–

1. TELCO AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICAL AUTHORITY STANDARD DRAWINGS.
2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
3. LIGHTING OFFSET MEASURE FROM BACK OF KERB.

BEFORE YOU DIG www.byda.com.au

WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES

THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

H 1:500 SCALE @ A1 (0, 10, 20, 30m)

REV	DATE	DRN	CKD	APP	AMENDMENT
C	07.08.24	NT			ELECT OFFSETS UPDATED; SHARED PATH SHOWN AT THE SOUTH OF ROUNDABOUT
B	02.07.24	NT	KCL	B. J-MONCK	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING

APPROVED PE 0005549

DESIGNED A. MAY

SCALE 1:500

PROJECT: BROADSTEAD - STAGE 02

TITLE: LAYOUT PLAN (SHEET 1 OF 2)

MUNICIPALITY: MITCHELL SHIRE COUNCIL

PP No. PLP430/22

DRAWING No. 3265-02-100

REVISION C

ORIGINAL SIZE A1

C:\3265\data\JFS93\3265-02_JS3\Design\Acad\3265-02-100 PLAN.dwg 8/7/2024, 1:40 PM KEN LEE

CONTRACTOR TO ENSURE ALL WORKS IN RESERVE No.1 ARE IN ACCORDANCE WITH THE NATIVE VEGETATION REPORT (INCLUDING ALL PROTECTIVE MEASURES) WITH APPROVAL TO COMMENCE OBTAINED FROM THE RELEVANT AUTHORITY AND SUPERINTENDENT

TREE REMOVAL & EXTENT OF WORKS REQUIRED WITHIN TOOTLE STREET RESERVE TO BE CONFIRMED IN DETAILED DESIGN. GENERALLY NO WORKS WITHIN RESERVE REQUIRED.

CONSTRUCT PIT OVER EXISTING END PIPE

TOOTLE STREET RESERVE

PROVE A 4m WIDE HEAVY DUTY MAINTENACE CROSSOVER AS PER IDM SD236.

12m LONG RETAINING WALL. (SUBJECT TO COUNCIL APPROVED LANDSCAPE PLANS) DETAILS TO SHEET 152.

BLOCK END PIPE WITH MARINE GRADE PLANK & PROVIDE MARKER POST.

PROVIDE CONCRETE EDGE STRIP. "ROAD CLOSED" SIGN & AG DRAIN.

EXISTING WATER MAIN AS SHOWN INCLUDING GW CONDUITS FOR LOTS 239,240 PROVIDE AS PART OF WQN WORKS.

BURSARIA TERRACE

RESERVE No.1
811m²

RESERVE No.2
989m²

CONTINUE STAGE 2 GAS & CONNECT TO EXISTING.

REMOVE EXISTING "NO ROAD" SIGN, CONCRETE EDGE & NEATLY MATCH INTO EXISTING.

CONSTRUCT REMAINING FOOTPATH BOUNDING LOT 201 WITHIN EXISTING STAGE 01.

EXISTING STAGE 1

CHAINAGES FOR CROSS-SECTIONS WITHIN RESERVE No.2.

SEWER & DRAINAGE PROPERTY CONNECTIONS FOR LOTS 202-206 PROVIDED DURING STAGE 1 WORKS.

WESTRINGIA APPROACH

QUINNS ROAD

CONNECT END OF SWALE TO CUT OFF DRAIN.

REMOVE EXISTING TEMPORARY TURNING AREA, "NO ROAD" SIGN, CONCRETE EDGE & NEATLY MATCH INTO EXISTING.

ORCHID GROVE

GROWER STREET

REED WAY

FUTURE STAGE 3A

EXISTING OPEN SWALE DRAIN CONSTRUCTED DURING BULK EARTHWORKS STAGE TO REMAIN. UNDER NO CIRCUMSTANCES IT SHALL BE FILLED OR REMOVED DURING & AFTER STAGE 2 CONSTRUCTION WITHOUT WRITTEN APPROVAL FROM THE SUPERINTENDENT.

BLOCK END PIPE WITH MARINE GRADE PLANK FOR FUTURE CONNECTION.

PROVIDE CONCRETE EDGE STRIP. "ROAD CLOSED" SIGN & AG DRAIN.

WILDFLOWER COURT

WHEELER DRIVE

FOR CONTINUATION REFER TO SHEET 3265-02-100

FOR CONTINUATION REFER TO SHEET 3265-02-100

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN – DRINKING WATER	ExNDW	DW
UNDERGROUND ELECTRICITY	ExE	E
TELECOMMUNICATIONS & SERVICE PIT	ExT	T
GAS MAIN	ExG	G
CENTRAL INVERT		
BRANCH SEWER & MANHOLE	ExS	S
SEWER & MANHOLE	ExS	S
COUNCIL STORMWATER DRAIN, PIT & HOUSE DRAIN/PROPERTY INLET		
GAS & WATER CONDUITS	GW	GW
HOUSE DRAIN		
STORMWATER DRAINAGE PIT NUMBER	01	01
CONCRETE VEHICLE CROSSING		
CONCRETE FOOTPATH		
RAISED PLATFORM		
SHARED PATH		
LANDSCAPING		
CONCRETE INFILL MEDIAN		
FILLING GREATER THAN 300mm		
RIDGE / CHANGE OF GRADE LINE		
SURFACE LEVEL	43.21	F44.33
RIDGE LEVEL		R43.55
ROAD CHAINAGES	CH36.20 (L/R)TP CH36.20	CH36.20 (L/R)TP CH36.20
LOT CHAINAGE	CH28.50	CH28.50
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
FALL OF DESIGN SURFACE		
100 YEAR OVERLAND FLOW PATH		
SIGN AND POST		
LIMIT OF WORKS		
BATTER		
TREE PROTECTION ZONE HIGH / MED / LOW		
STRUCTURAL ROOT ZONE HIGH / MED / LOW		
TREE TO BE REMOVED		
VEGETATION LINE		
VEGETATION LINE TO BE REMOVED		

WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES

THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

SERVICES OFFSET TABLE

STREET NAME	GAS		DRINKING WATER		TELCO		ELECTRICITY		SEWER		LIGHTING	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
EVERGREEN BOULEVARD (24.00m)	E	2.10	E	2.60	W	3.80	W	4.70	E	1.00	S & W	0.80
EVERGREEN BOULEVARD (14.50m)	N	2.10	N	2.60	S	0.30	S	1.10	N	1.00	S	0.80
BURSARIA TERRACE	S	1.90	S	2.70	N	0.30	N	0.75	–	–	S	0.80
ORCHID GROVE	E	2.10	E	2.60	W	1.80	W	2.55	–	–	W	0.80
GROWER STREET	E	2.10	E	2.60	W	1.80	W	2.55	–	–	W	0.80
WESTRINGIA APPROACH (20.00m)	E	2.10	E	2.70	W	3.80	W	5.00	W	1.50	W	0.80
WESTRINGIA APPROACH (18.50m)	E	2.10	E	2.70	W	2.30	W	4.00	W	1.00	W	0.80
REED WAY	E	2.10	E	2.60	W	1.80	W	2.60	–	–	W	0.80
RESERVE No.2 (N-S)	–	–	W	4.00	–	–	–	–	–	–	–	–
RESERVE No.2 (E-W)	–	–	S	4.00	–	–	N	3.50	–	–	–	–

1. TELCO AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICAL AUTHORITY STANDARD DRAWINGS.
2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
3. LIGHTING OFFSET MEASURE FROM BACK OF KERB.

REV	DATE	DRN	CKD	APP	AMENDMENT
C	07.08.24	NT			HD CROSSOVER AT THE RES. No.1 ADDED & SHARED PATH AT RES. No.2 REVISED
B	02.07.24	NT	KCL	B. J-MONCK	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:500
SCALE @ A1 0 10 20 30m

BEFORE YOU DIG www.byda.com.au

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING

APPROVED PE 0005549

DESIGNED A. MAY

SCALE 1:500

PROJECT: BROADSTEAD - STAGE 02

TITLE: LAYOUT PLAN (SHEET 2 OF 2)

MUNICIPALITY: MITCHELL SHIRE COUNCIL

PP No. PLP430/22

DRAWING No. 3265-02-101

REVISION C

ORIGINAL SIZE A1

C:\3265\data\F5933\3265-02_F5933Design\Acad\3265-02-100 PLAN.dwg 8/7/2024, 1:49 PM KEN LEE

FOR CONTINUATION REFER TO SHEET 3265-02-151

LEGEND

DESCRIPTION	EXISTING	PROPOSED
TEMPORARY CUTOFF SWALE		
RIDGE / CHANGE OF GRADE LINE		
SURFACE CONTOUR MAJOR	-385.00-	385.00
SURFACE CONTOUR MINOR		
FINISHED SURFACE LEVEL	43.21	FS44.33
RIDGE LEVEL	R43.55	R43.55
TOP OF WALL LEVEL	TW43.55	TW43.55
BOTTOM OF WALL LEVEL	BW42.55	BW42.55
TEMPORARY BENCH MARK		
BATTER		
FILLING GREATER THAN 300mm		

BEFORE YOU DIG www.byda.com.au

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES

THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

REV	DATE	DRN	CKD	APP	AMENDMENT
B	02.07.24	NT			ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:500 SCALE @ A1 — 0 10 20 30m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING

APPROVED PE 0005549

DESIGNED: A. MAY

SCALE: 1:500 @ A1

PROJECT: BROADSTEAD - STAGE 02

TITLE: EARTHWORKS PLAN (SHEET 1 OF 2)

MUNICIPALITY: MITCHELL SHIRE COUNCIL

PP No. PLP430/22

DRAWING No. 3265-02-150

REVISION B

ORIGINAL SIZE A1

C:\TDES\data\FS\03\3265-02_153\Design\Acad\3265-02-150 EW.dwg 7/2/2024, 2:46 PM KEN LEE

TOOTLE STREET RESERVE

DESIGN OF RETAINING WALL WITHIN RESERVE SECTION IS SUBJECT TO COUNCIL APPROVED LANDSCAPE PLANS.

RETAINING WALL WITH PEDESTRIAN SAFETY FENCE FIXED TO TOP

E320228.550
N5868459.804

E320220.093
N5868451.544

RESERVE No.1

RESERVE No.2

BURSARIA TERRACE

EXISTING STAGE 1

WESTRINGIA APPROACH

QUINNS ROAD

REED WAY

WILDFLOWER COURT

WHEELER DRIVE

FUTURE STAGE 3A

EXISTING OPEN SWALE DRAIN CONSTRUCTED DURING BULK EARTHWORKS STAGE TO REMAIN. UNDER NO CIRCUMSTANCES IT SHALL BE FILLED OR REMOVED DURING & AFTER STAGE 2 CONSTRUCTION WITHOUT WRITTEN APPROVAL FROM THE SUPERINTENDENT.

FOR CONTINUATION REFER TO SHEET 3265-02-150

FOR CONTINUATION REFER TO SHEET 3265-02-150

LEGEND

DESCRIPTION	EXISTING	PROPOSED
TEMPORARY CUTOFF SWALE		
RIDGE / CHANGE OF GRADE LINE		
SURFACE CONTOUR MAJOR	-385.00-	385.00
SURFACE CONTOUR MINOR		
FINISHED SURFACE LEVEL	43.21	FS44.33
RIDGE LEVEL	R43.55	R43.55
TOP OF WALL LEVEL	TW43.55	TW43.55
BOTTOM OF WALL LEVEL	BW42.55	BW42.55
TEMPORARY BENCH MARK		
BATTER		
FILLING GREATER THAN 300mm		
RETAINING WALL - CONCRETE		

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

BEFORE YOU DIG
www.byda.com.au

WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

REV	DATE	DRN	CKD	APP	AMENDMENT
C	07.08.24	NT			NOTES FOR RETAINING WALL ADDED
B	02.07.24	NT	KCL	B. J-MONCK	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:500
SCALE @ A1
0 10 20 30m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING

APPROVED PE 0005549

DESIGNED: A. MAY

SCALE: 1:500 @ A1

PROJECT: BROADSTEAD - STAGE 02

TITLE: EARTHWORKS PLAN (SHEET 2 OF 2)

MUNICIPALITY: MITCHELL SHIRE COUNCIL

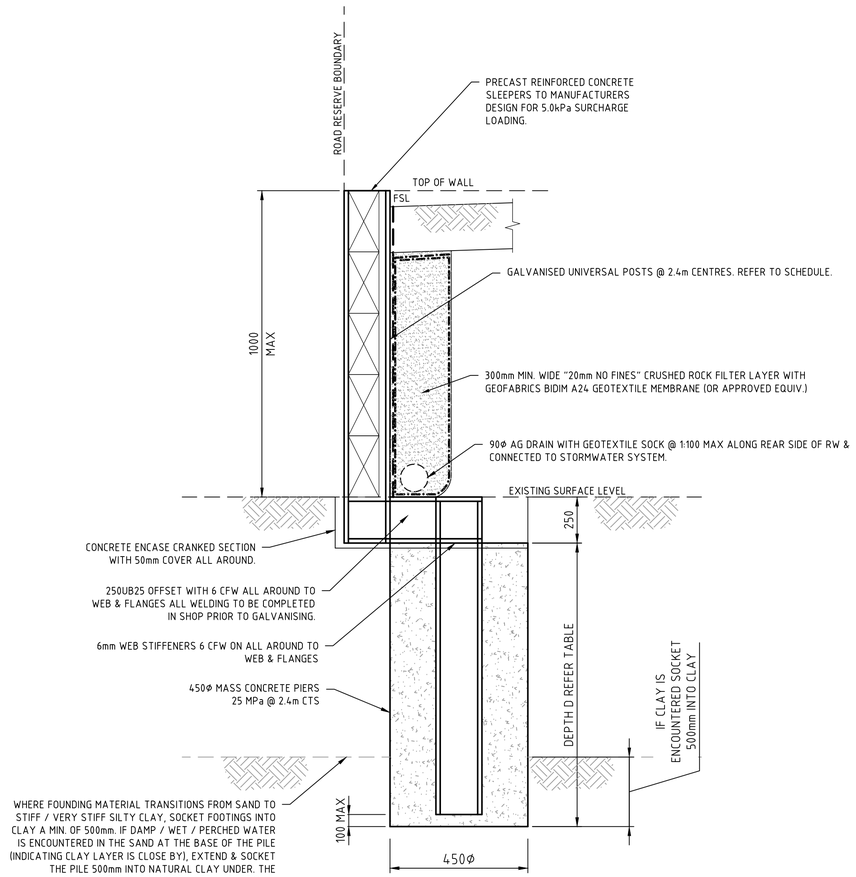
PP No.: PLP430/22

DRAWING No.: 3265-02-151

REVISION: C

ORIGINAL SIZE: A1

C:\12d\5\data\FES\3\3265-02_ES3\Design\Acad\3265-02-150 Ew.dwg 8/8/2024 9:42 AM KEN LEE



RETAINING WALL DETAIL (CONCRETE SLEEPER WITH OFFSET FOOTING)

SCALE 1:10 @ A1

RETAINING WALL SCHEDULE (CONCRETE SLEEPER):		
RETAINED HEIGHT H (mm)	DEPTH D (mm)	GALVANISED POST SIZE
200 - 600	900	150 UB 14
601 - 800	1200	150 UB 14
801 - 1000	1500	150 UB 14
1001 - 1200	1800	150 UB 14
1201 - 1400	2100	150 UB 14
1401 - 1600	2400	150 UB 18

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
A	01.07.24	NT			INITIAL ISSUE

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road
Melbourne VIC 3004
W cossillwebley.com.au
T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING

APPROVED PE 0005549

DESIGNED: A. MAY

SCALE: 1:500 @ A1

PROJECT: BROADSTEAD - STAGE 02

TITLE: RETAINING WALL DETAILS

MUNICIPALITY: MITCHELL SHIRE COUNCIL

PP No.: PLP430/22

DRAWING No.: 3265-02-152

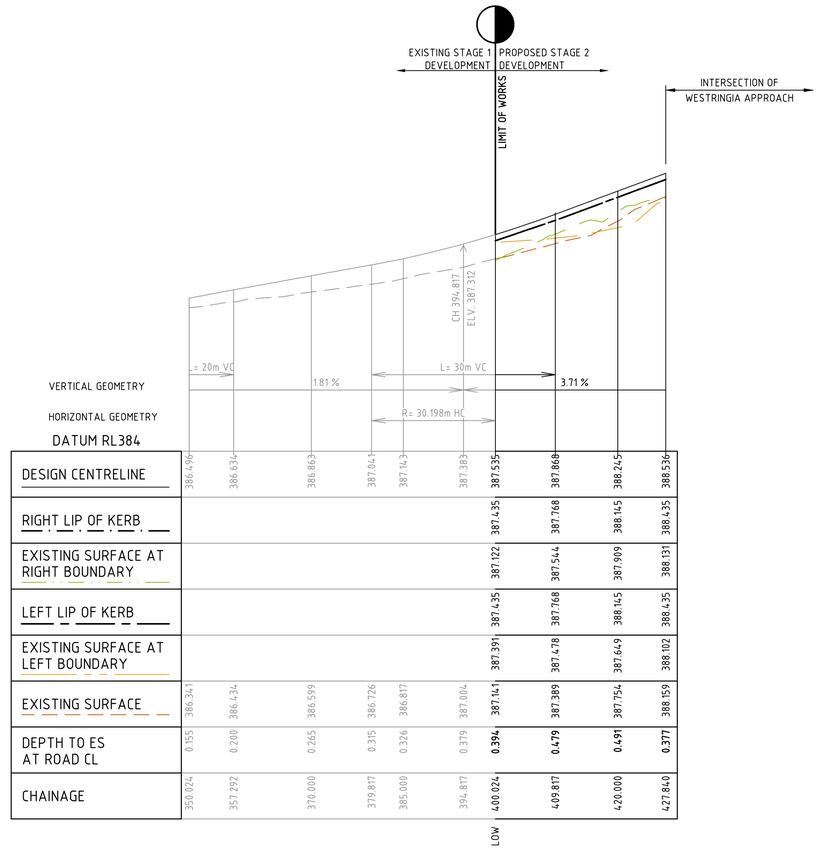
REVISION: A

ORIGINAL SIZE: A1

C:\12d\5\data\FSD\3265-02_IS30\design\Acad\3265-02-150 Ext.dwg 7/1/2024 9:14 AM ADAM MAY

LEGEND

DESCRIPTION	LINETYPE
EXISTING SURFACE	
DESIGN LINE	
FUTURE DESIGN LINE	
EXISTING SURFACE AT RIGHT BOUNDARY	
RIGHT LIP OF KERB	
EXISTING SURFACE AT LEFT BOUNDARY	
LEFT LIP OF KERB	



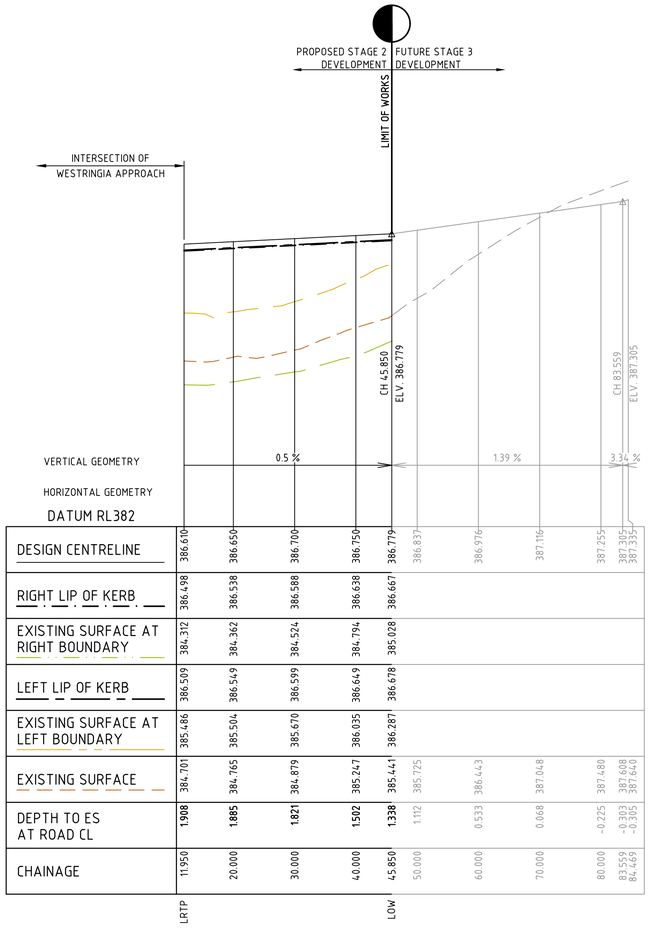
VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL384

DESIGN CENTRELINE	386.496	386.634	386.863	387.041	387.143	387.383	387.535	387.868	388.245	388.536		
RIGHT LIP OF KERB							387.435	387.768	388.145	388.435		
EXISTING SURFACE AT RIGHT BOUNDARY							387.122	387.544	387.909	388.131		
LEFT LIP OF KERB							387.435	387.768	388.145	388.435		
EXISTING SURFACE AT LEFT BOUNDARY							387.391	387.478	387.649	388.102		
EXISTING SURFACE	386.341	386.434	386.599	386.726	386.817	387.004	387.141	387.389	387.754	388.159		
DEPTH TO ES AT ROAD CL	0.155	0.200	0.265	0.315	0.326	0.379	**0.394**	**0.479**	**0.491**	**0.377**		
CHAINAGE	350.024	357.292	370.000	379.817	385.000	394.817	400.024	409.817	420.000	427.840		
							LOW					

BURSARIA TERRACE LONGITUDINAL SECTION



VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL382

DESIGN CENTRELINE	386.610	386.650	386.700	386.750	386.779	386.837	386.976	387.116	387.255	387.305	387.335	
RIGHT LIP OF KERB	386.498	386.538	386.588	386.638	386.667							
EXISTING SURFACE AT RIGHT BOUNDARY	384.312	384.362	384.524	384.794	385.028							
LEFT LIP OF KERB	386.509	386.549	386.599	386.649	386.678							
EXISTING SURFACE AT LEFT BOUNDARY	385.486	385.504	385.670	386.035	386.287							
EXISTING SURFACE	384.701	384.765	384.879	385.247	385.441	385.725	386.443	387.048	387.480	387.608	387.640	
DEPTH TO ES AT ROAD CL	**1.908**	**1.885**	**1.821**	**1.502**	**1.338**	1.112	0.533	0.068	-0.225	-0.303	-0.305	
CHAINAGE	11.950	20.000	30.000	40.000	45.850	50.000	60.000	70.000	80.000	83.559	84.469	
	LR TP				LOW							

REED WAY LONGITUDINAL SECTION

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
B	26.06.24	NT			ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:500 V 1:50
SCALE @ A1
0 10 20 30m
0 1 2 3m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING

APPROVED:PE 0005549

DESIGNED: A. MAY

SCALE: H 1:500 V 1:50

PROJECT: BROADSTEAD - STAGE 02

TITLE: ROAD LONGITUDINAL SECTION (SHEET 1 OF 5)

MUNICIPALITY: MITCHELL SHIRE COUNCIL

PP No.: PLP430/22

DRAWING No.: 3265-02-200

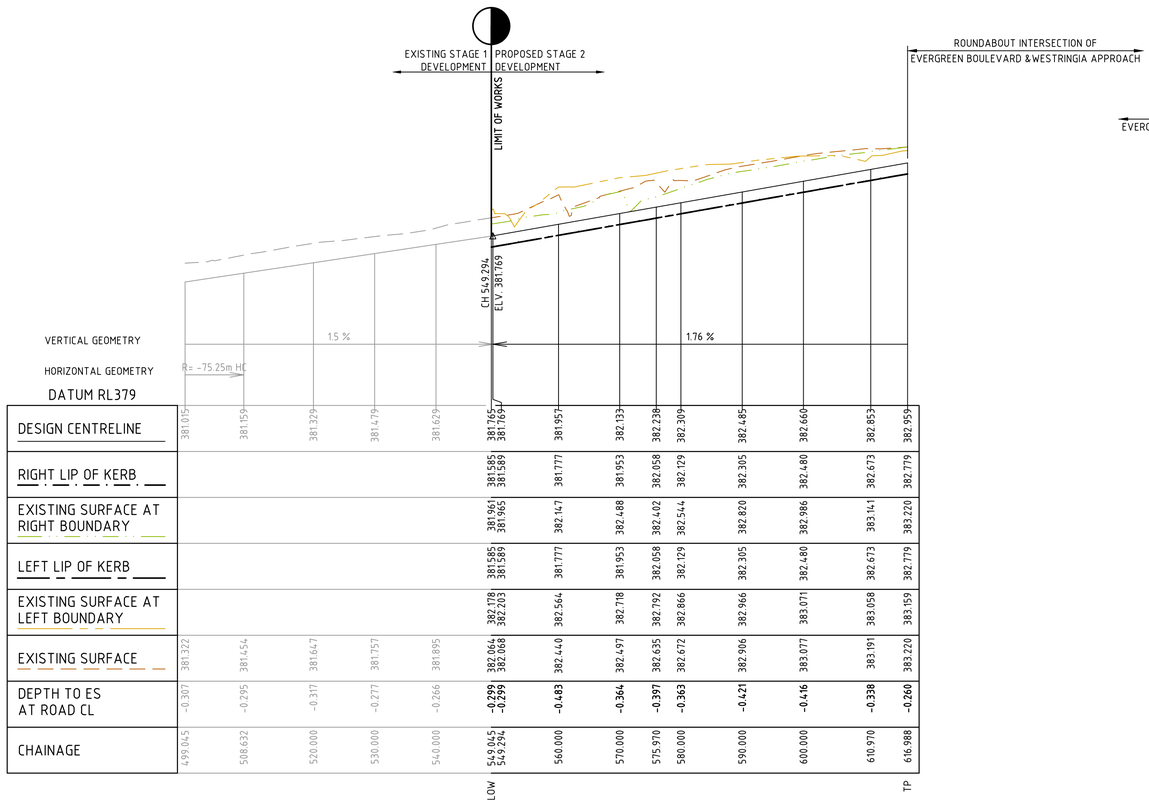
REVISION: B

ORIGINAL SIZE: A1

C:\12dSdata\FS\3265-02_FS\3Design\Arcad\3265-02-200 RLS.dwg 6/26/2024 5:37 PM KEN LEE

LEGEND

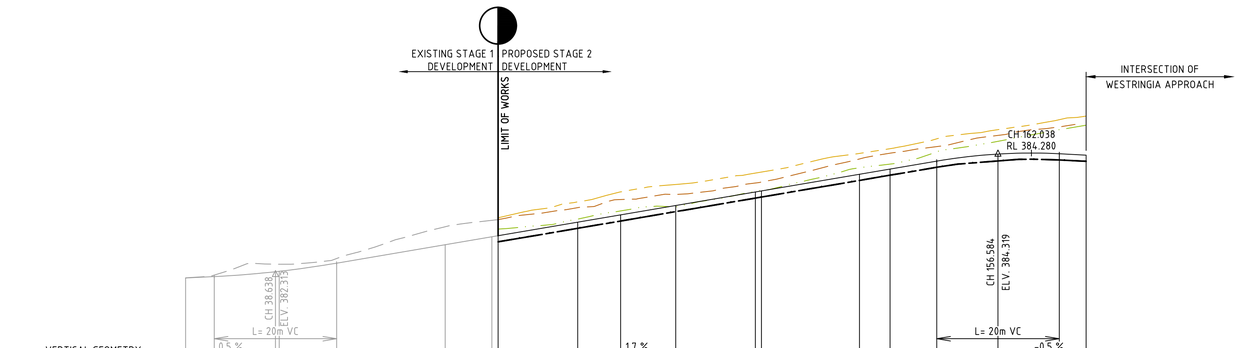
DESCRIPTION	LINETYPE
EXISTING SURFACE	
DESIGN LINE	
FUTURE DESIGN LINE	
EXISTING SURFACE AT RIGHT BOUNDARY	
RIGHT LIP OF KERB	
EXISTING SURFACE AT LEFT BOUNDARY	
LEFT LIP OF KERB	



| | | |

LEGEND

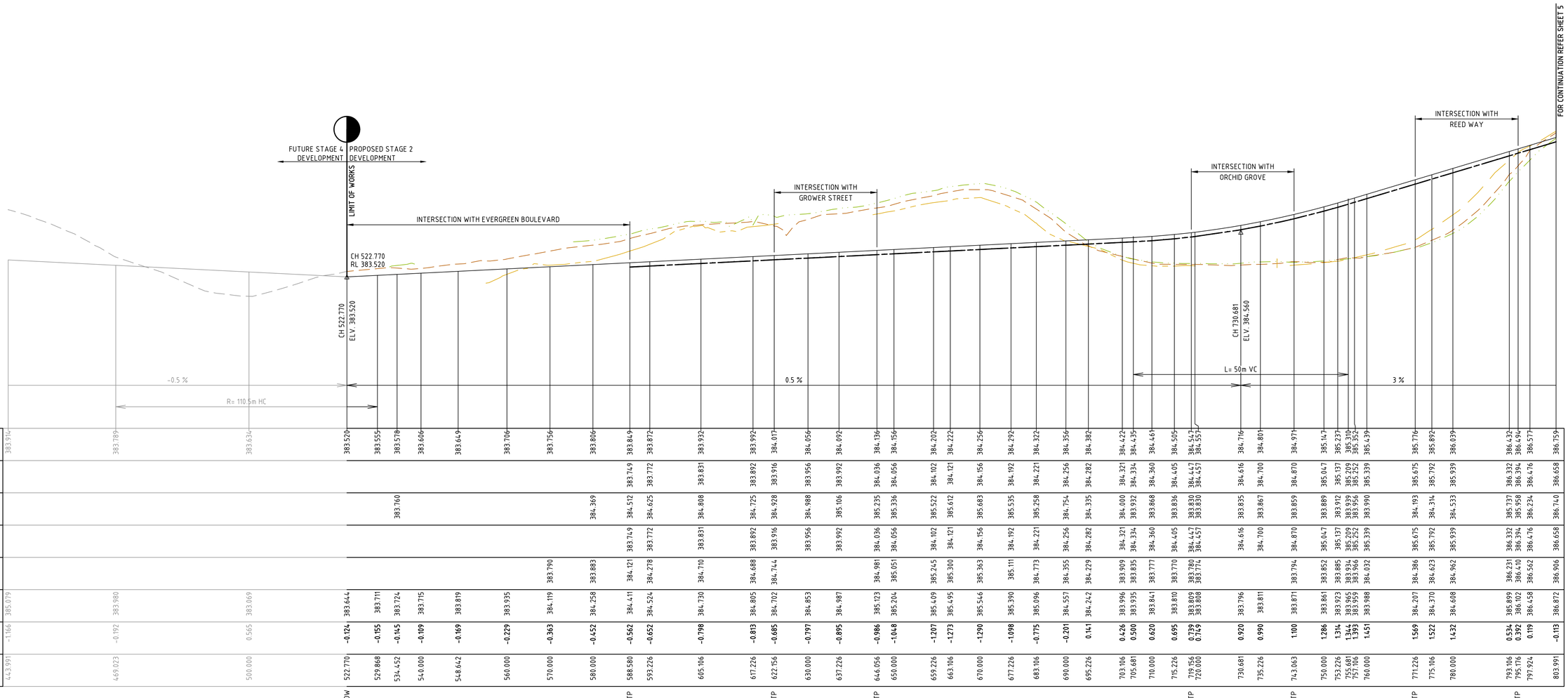
DESCRIPTION	LINETYPE
EXISTING SURFACE	
DESIGN LINE	
FUTURE DESIGN LINE	
EXISTING SURFACE AT RIGHT BOUNDARY	
RIGHT LIP OF KERB	
EXISTING SURFACE AT LEFT BOUNDARY	
LEFT LIP OF KERB	



| | | |

LEGEND

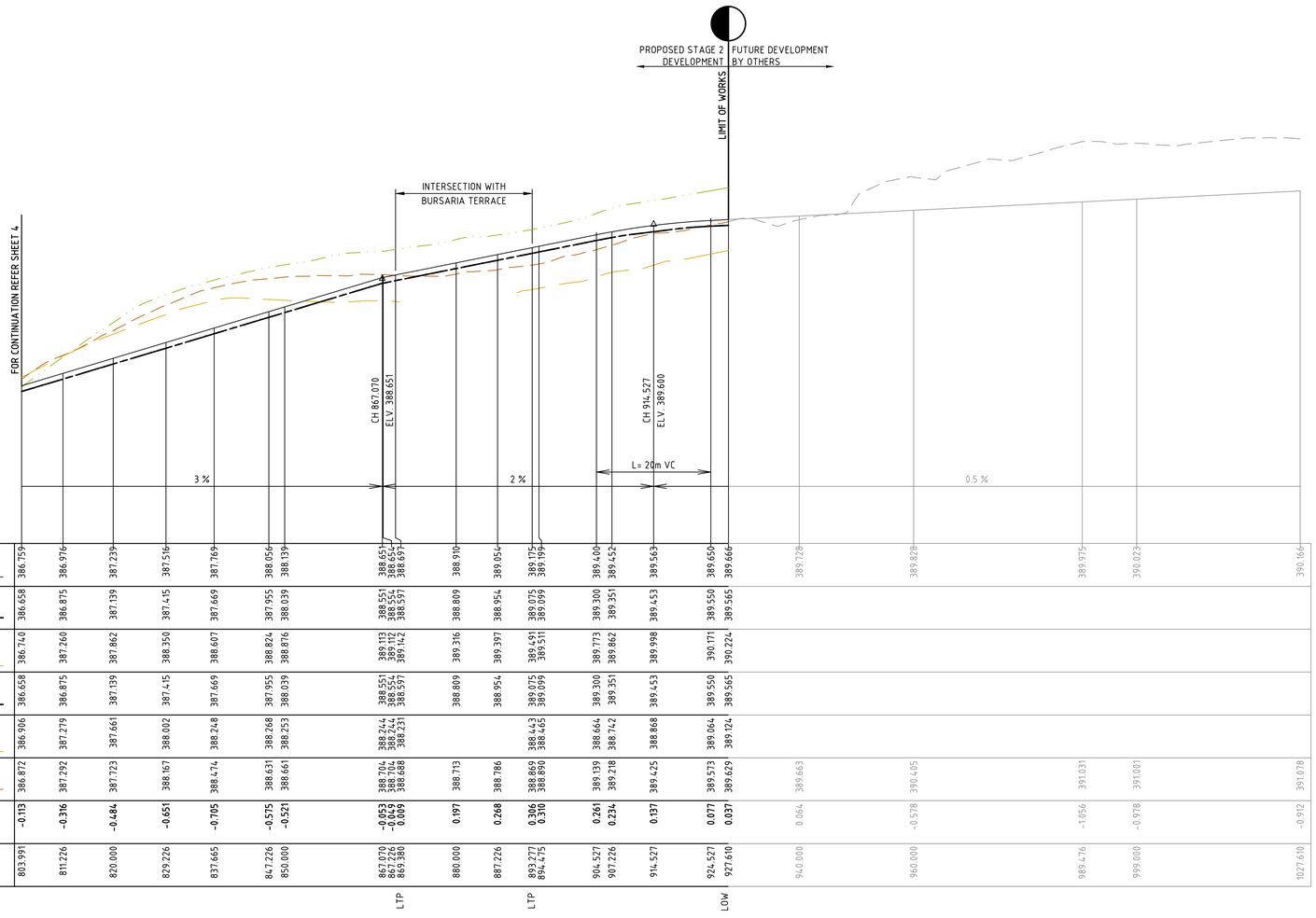
DESCRIPTION	LINETYPE
EXISTING SURFACE	
DESIGN LINE	
FUTURE DESIGN LINE	
EXISTING SURFACE AT RIGHT BOUNDARY	
RIGHT LIP OF KERB	
EXISTING SURFACE AT LEFT BOUNDARY	
LEFT LIP OF KERB	



| | | |

LEGEND

DESCRIPTION	LINETYPE
EXISTING SURFACE	
DESIGN LINE	
FUTURE DESIGN LINE	
EXISTING SURFACE AT RIGHT BOUNDARY	
RIGHT LIP OF KERB	
EXISTING SURFACE AT LEFT BOUNDARY	
LEFT LIP OF KERB	



| | | |

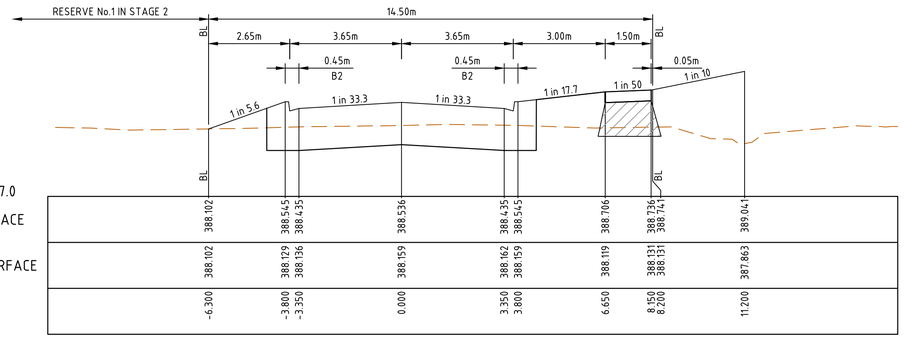
LEGEND

EXISTING SURFACE

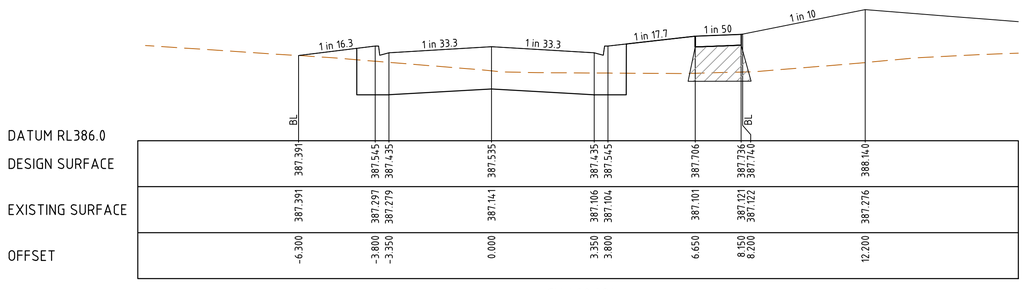
DESIGN SURFACE

COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH THE RELEVANT SPECIFICATION

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

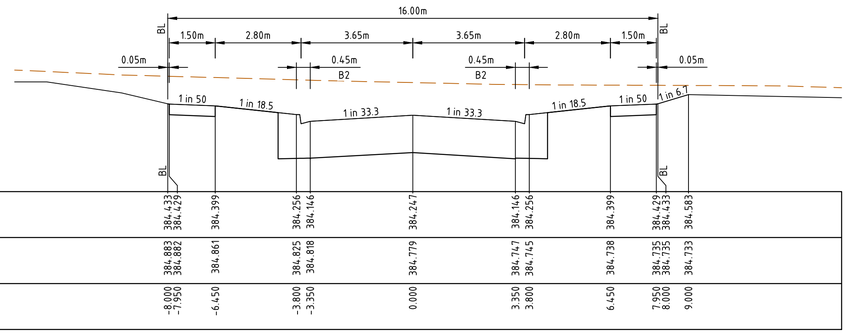


CH 427.840

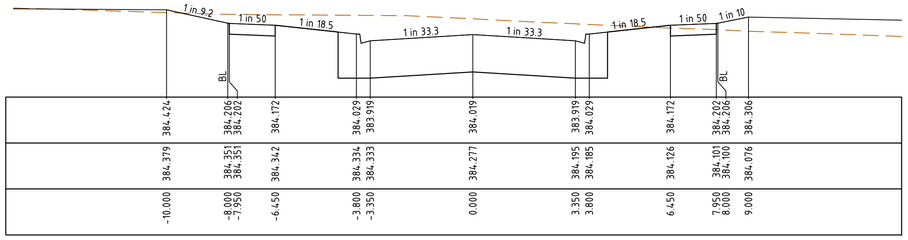


CH 400.024
(LIMIT OF WORKS)

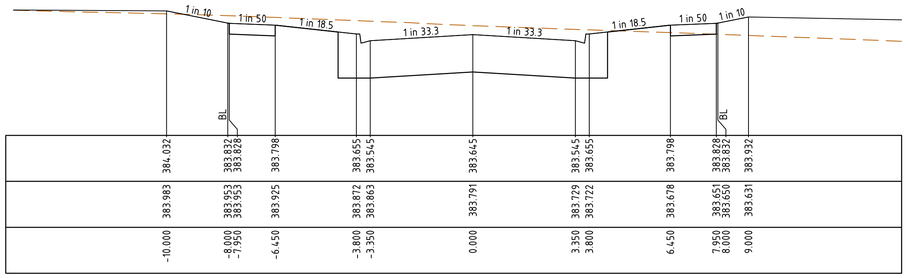
BURSARIA TERRACE - ROAD CROSS SECTIONS



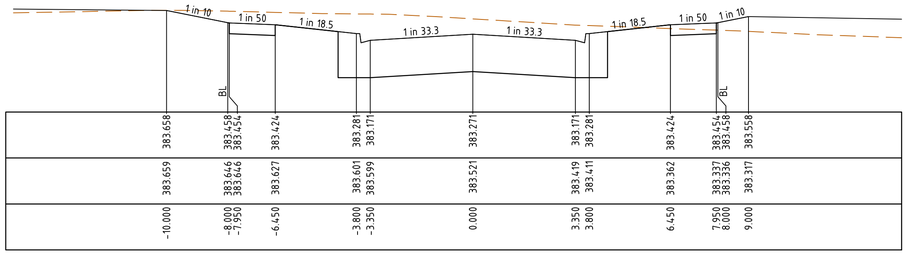
CH 170.974



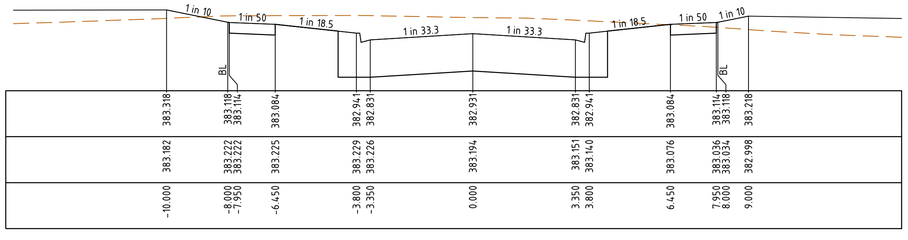
CH 138.974



CH 116.974



CH 94.974



CH 74.974
(LIMIT OF WORKS)

GROWER STREET - ROAD CROSS SECTIONS

REV	DATE	DRN	CKD	APP	AMENDMENT
B	26.06.24	NT			ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:100 V 1:50
SCALE @ A1
0 2 4 6m
0 1 2 3m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road Melbourne VIC 3004
W cossillwebley.com.au
T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING

APPROVED:PE 0005549

DESIGNED: A. MAY

SCALE: H 1:100 V 1:50

PROJECT: BROADSTEAD - STAGE 02

TITLE: ROAD CROSS SECTIONS (SHEET 1 OF 7)

MUNICIPALITY: MITCHELL SHIRE COUNCIL

PP No.: PLP430/22

DRAWING No.: 3265-02-250

REVISION: B

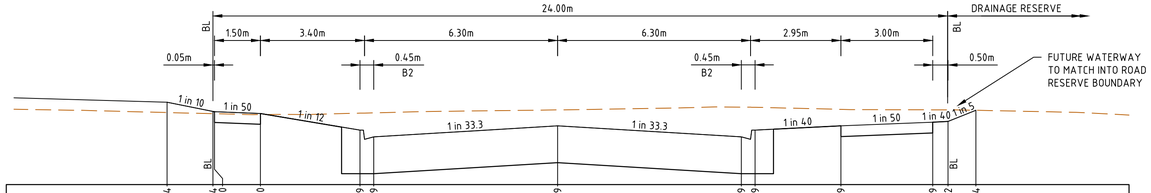
ORIGINAL SIZE: A1

C:\125\Data\F503\3265-02_P53\Design\Acad\3265-02-250 RXS.dwg 6/26/2024 5:41 PM KEN LEE

INTERFACE WITH WATERWAY SUBJECT TO UPDATED DESIGN FROM AFFLUX CONSULTING

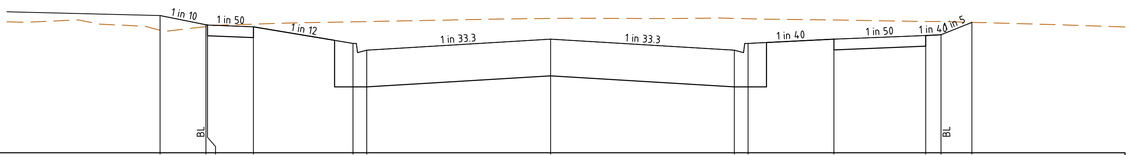
LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH THE RELEVANT SPECIFICATION



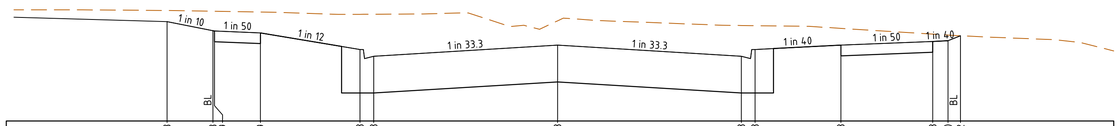
DATUM RL382.0											
DESIGN SURFACE	383.344	383.194 383.190	383.160	382.889	382.779	382.959	382.779	382.889	382.959	383.019	383.032	383.214
EXISTING SURFACE	383.177	383.159 383.158	383.144	383.166	383.172	383.220	383.265	383.263	383.228	383.221	383.220	383.214
OFFSET	-12.750	-11.250 -11.200	-9.700	-6.450	-6.000	0.000	6.000	6.450	9.250	12.250	12.750	13.660

CH 616.988



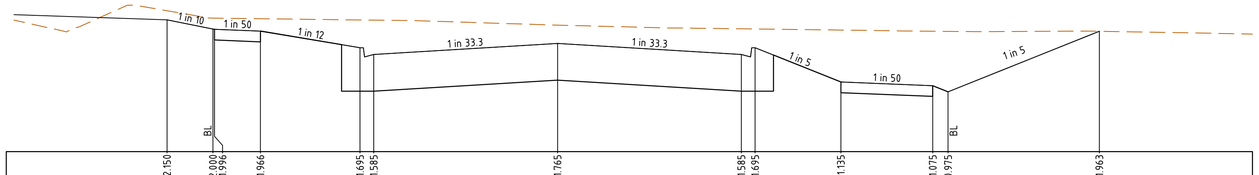
DATUM RL381.0											
DESIGN SURFACE	383.238	383.088 383.084	383.054	382.783	382.673	382.853	382.673	382.783	382.853	382.913	382.926	383.127
EXISTING SURFACE	383.000	383.058 383.061	383.098	383.136	383.140	383.191	383.192	383.186	383.166	383.142	383.141	383.127
OFFSET	-12.750	-11.250 -11.200	-9.700	-6.450	-6.000	0.000	6.000	6.450	9.250	12.250	12.750	13.757

CH 610.970



DATUM RL381.0											
DESIGN SURFACE	382.623	382.473 382.469	382.439	382.168	382.058	382.238	382.058	382.168	382.238	382.298	382.310	382.392
EXISTING SURFACE	382.804	382.792 382.791	382.780	382.741	382.743	382.635	382.559	382.556	382.512	382.418	382.402	382.392
OFFSET	-12.750	-11.250 -11.200	-9.700	-6.450	-6.000	0.000	6.000	6.450	9.250	12.250	12.750	13.156

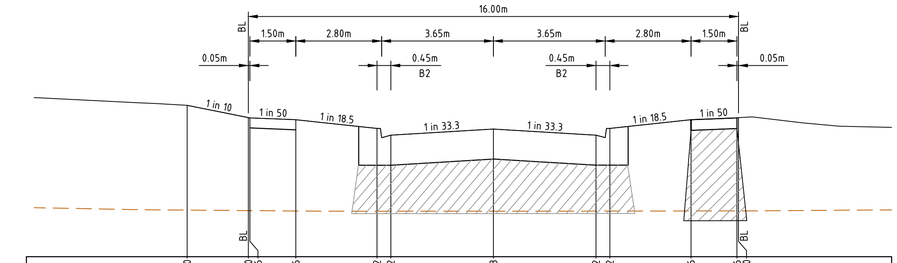
CH 575.970



DATUM RL380.0											
DESIGN SURFACE	382.150	382.000 381.996	381.966	381.695	381.585	381.765	381.585	381.695	381.135	381.075	380.975	381.963
EXISTING SURFACE	382.298	382.178 382.178	382.168	382.148	382.145	382.064	382.003	382.001	381.983	381.964	381.961	381.963
OFFSET	-12.750	-11.250 -11.200	-9.700	-6.450	-6.000	0.000	6.000	6.450	9.250	12.250	12.750	17.689

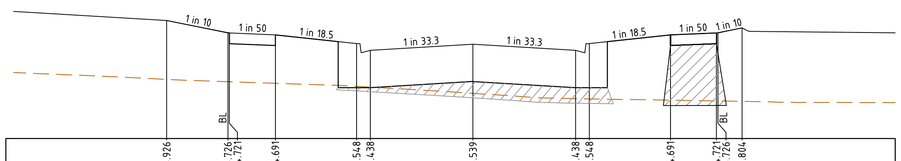
L.O.W. CH 549.045

EVERGREEN BOULEVARD - ROAD CROSS SECTIONS



DATUM RL383.0											
DESIGN SURFACE	385.470	385.270 385.266	385.236	385.092 384.982	385.083	384.982 385.092	385.236	385.266 385.270				
EXISTING SURFACE	383.760	383.752 383.752	383.746	383.742 383.742	383.743	383.744 383.744	383.746	383.747 383.747				
OFFSET	-10.000	-8.000 -7.950	-6.450	-3.800 -3.350	0.000	3.350 3.800	6.450	7.950 8.000				

CH 289.851



DATUM RL383.0											
DESIGN SURFACE	384.926	384.726 384.721	384.691	384.548 384.438	384.539	384.438 384.548	384.691	384.721 384.726	384.804			
EXISTING SURFACE	383.965	383.927 383.926	383.901	383.851 383.838	383.737	383.649 383.646	383.625	383.612 383.612	383.605			
OFFSET	-10.000	-8.000 -7.950	-6.450	-3.800 -3.350	0.000	3.350 3.800	6.450	7.950 8.000	8.784			

L.O.W. CH 260.824

ORCHID GROVE - ROAD CROSS SECTIONS

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
B	26.06.24	NT			ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:100 SCALE @ A1 V 1:50
0 2 4 6m
0 1 2 3m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED:PE 0005549
DESIGNED: A. MAY
SCALE: H 1:100 V 1:50
PROJECT: BROADSTEAD - STAGE 02
TITLE: ROAD CROSS SECTIONS (SHEET 2 OF 7)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-251
REVISION: B
ORIGINAL SIZE: A1

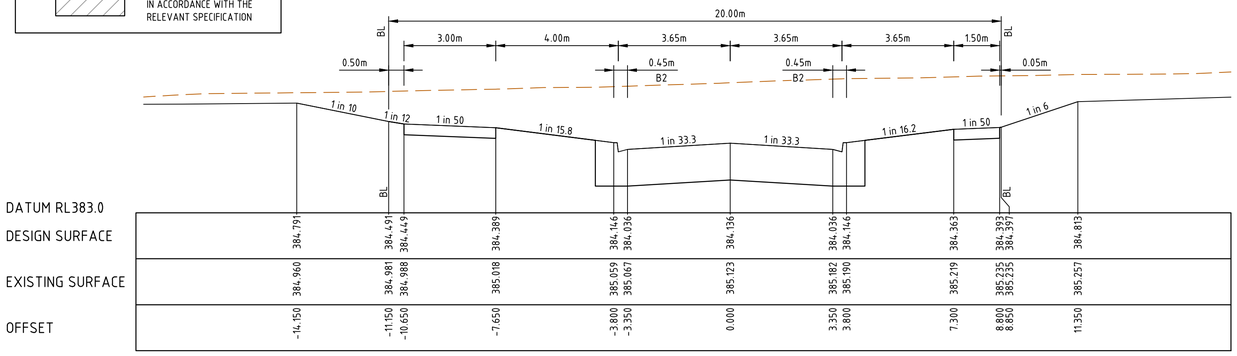
C:\3265\data\FS\03\3265-02...053\Design\Acad\3265-02-250 RXS.dwg 6/26/2024 9:13 PM KEN LEE

LEGEND

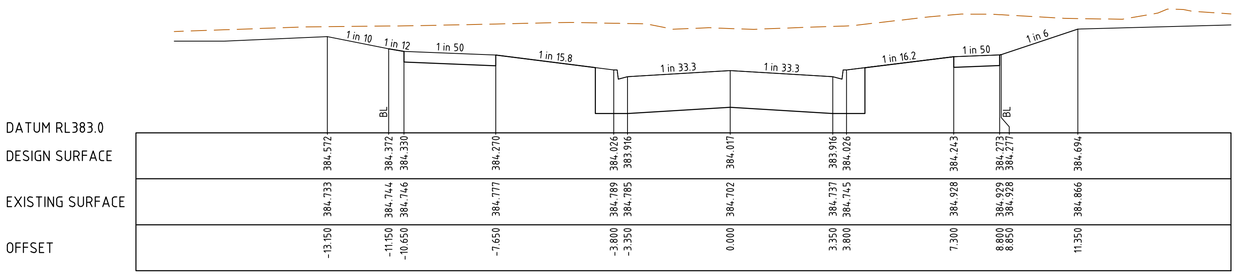
EXISTING SURFACE

DESIGN SURFACE

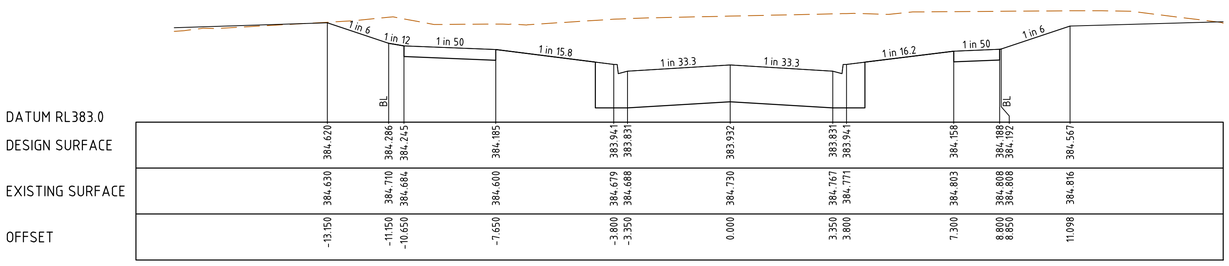
COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH THE RELEVANT SPECIFICATION



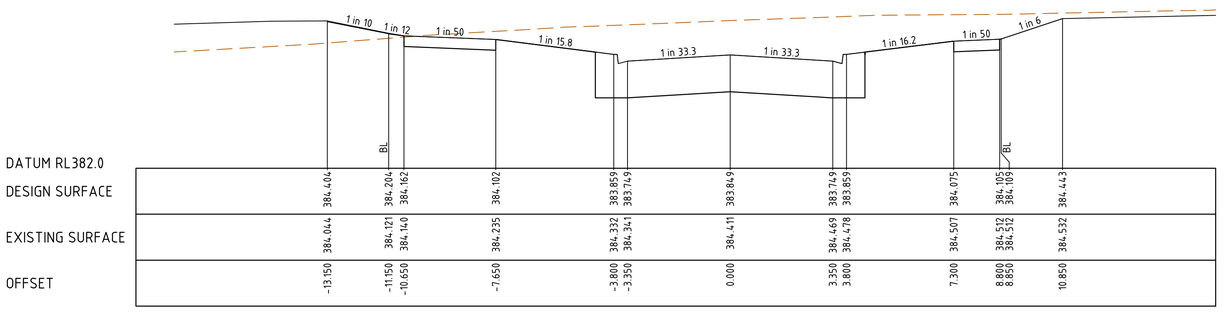
CH 646.056



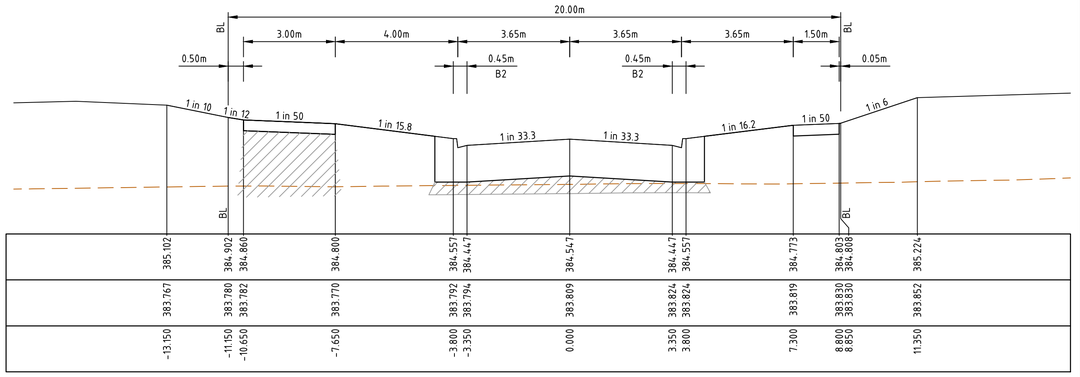
CH 622.156



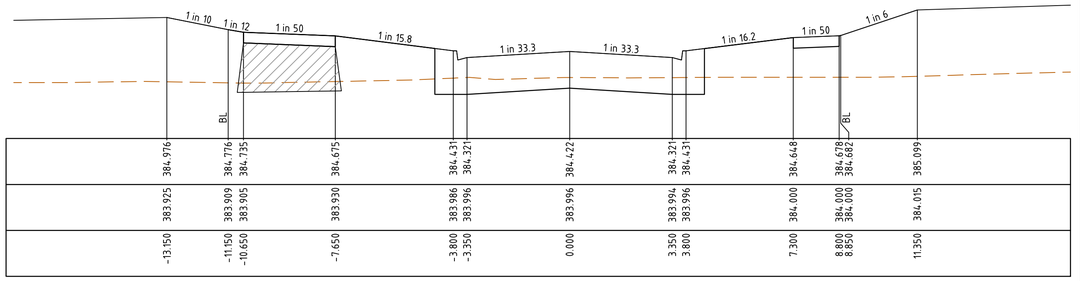
CH 605.106



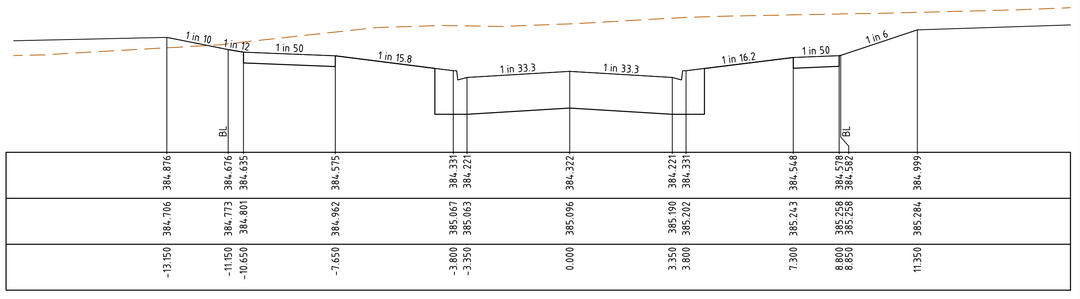
CH 588.580



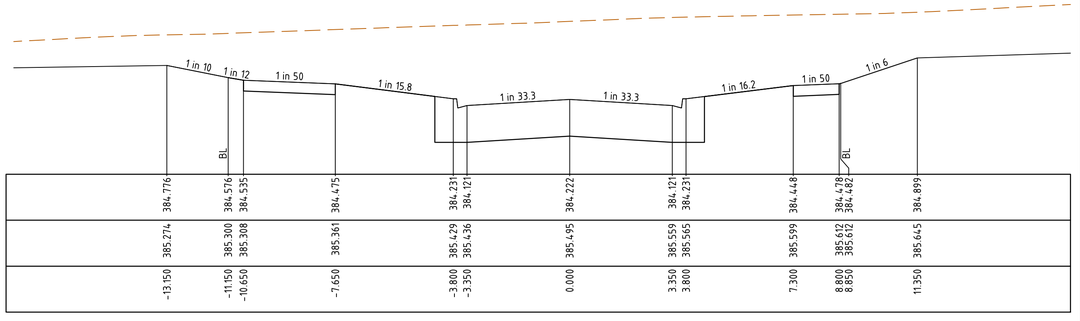
CH 719.156



CH 703.106



CH 683.106



CH 663.106

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

WESTRINGIA APPROACH - ROAD CROSS SECTIONS

REV	DATE	DRN	CKD	APP	AMENDMENT
B	26.06.24	NT			ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:100 V 1:50
SCALE @ A1
0 2 4 6m
0 1 2 3m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING

APPROVED: PE 0005549

DESIGNED: A. MAY

SCALE: H 1:100 V 1:50

PROJECT: BROADSTEAD - STAGE 02

TITLE: ROAD CROSS SECTIONS (SHEET 3 OF 7)

MUNICIPALITY: MITCHELL SHIRE COUNCIL

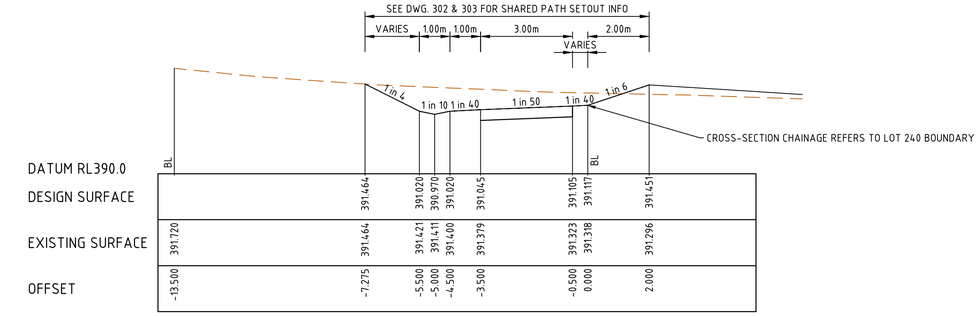
PP No.: PLP430/22

DRAWING No.: 3265-02-252

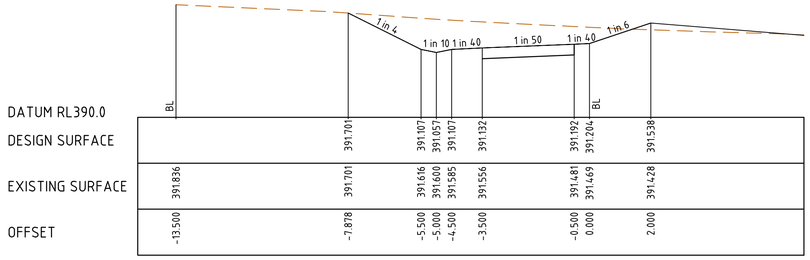
REVISION: B

ORIGINAL SIZE: A1

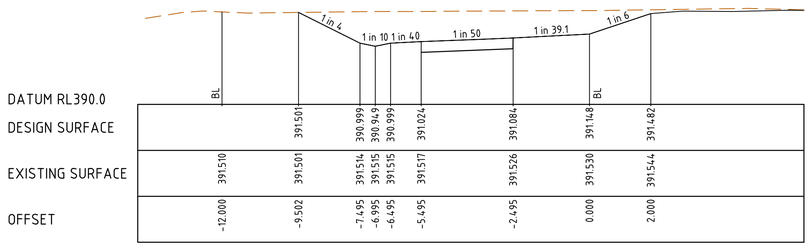
C:\12d\5\data\EF5\03\3265-02_253\Design\Acad\3265-02_259.RVS.dwg 6/26/2024 5:40 PM KEN.LEE



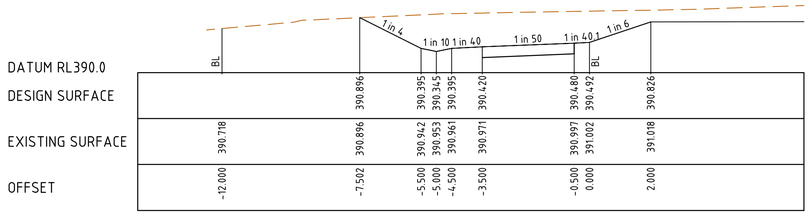
CH 67.576



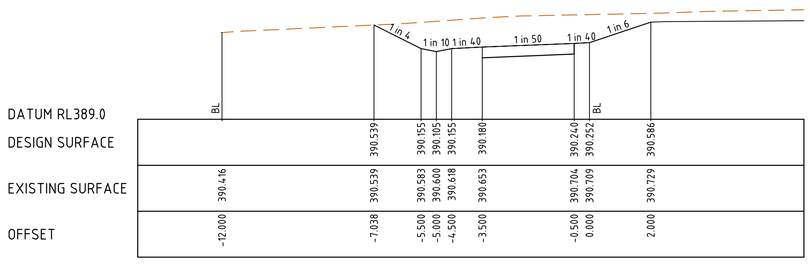
CH 50.000



CH 31.060



CH 14.782



CH 8.817

RESERVE No.2 - SHARED PATH CROSS SECTIONS

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH THE RELEVANT SPECIFICATION

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
C	06.08.24	WS			RESERVE NO.2 SHARED PATH SECTIONS ADDED
B	26.06.24	NT	KCL	B. J-MONCK	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:100 V 1:50
SCALE @ A1
0 2 4 6m
0 1 2 3m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED: PE 0005549
DESIGNED: A. MAY
SCALE: H 1:100 V 1:50

PROJECT: BROADSTEAD - STAGE 02
TITLE: ROAD CROSS SECTIONS (SHEET 4 OF 5)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-253
REVISION: C
ORIGINAL SIZE: A1

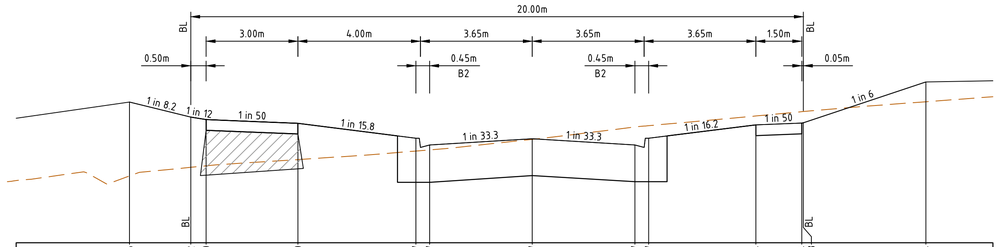
C:\12d\5\data\JFS\03\3265-02_JFS\Design\Acad\3265-02-253 RXS.dwg 8/6/2024, 10:18 PM KEN.LEE

LEGEND

EXISTING SURFACE

DESIGN SURFACE

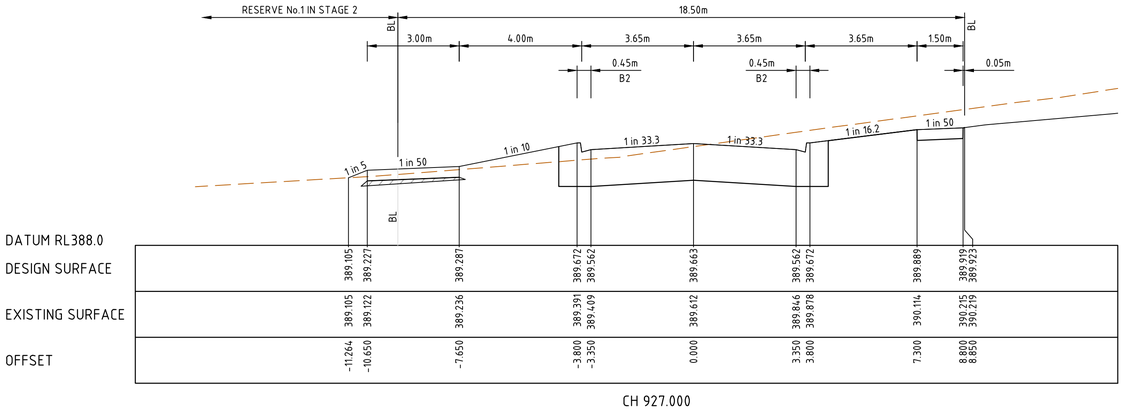
COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH THE RELEVANT SPECIFICATION



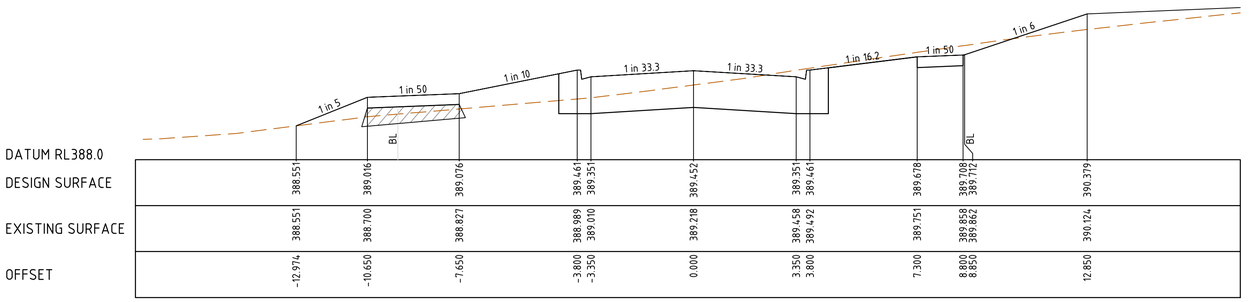
| | | |

LEGEND

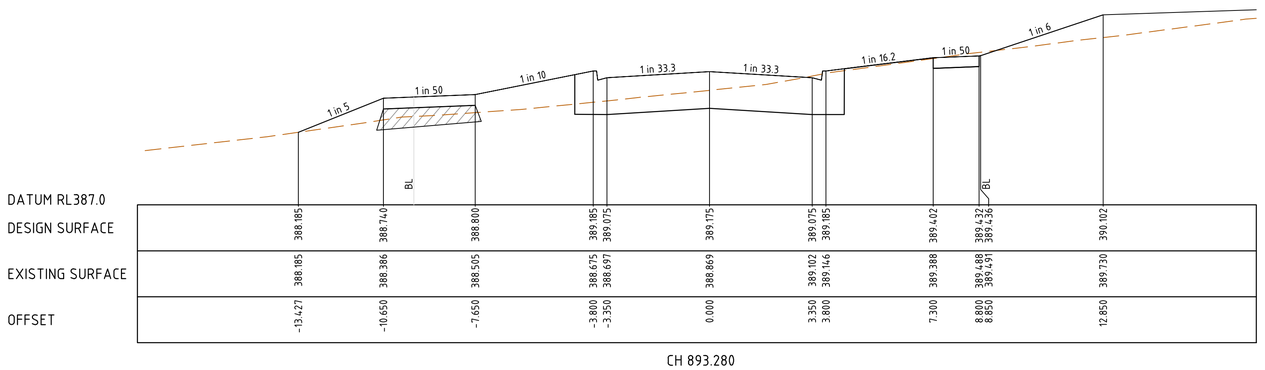
- EXISTING SURFACE
- DESIGN SURFACE
- COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH THE RELEVANT SPECIFICATION



CH 927.000



CH 907.226



CH 893.280

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

WESTRINGIA APPROACH - ROAD CROSS SECTIONS

REV	DATE	DRN	CKD	APP	AMENDMENT
B	26.06.24	NT			ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:100 V 1:50
SCALE @ A1
0 2 4 6m
0 1 2 3m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

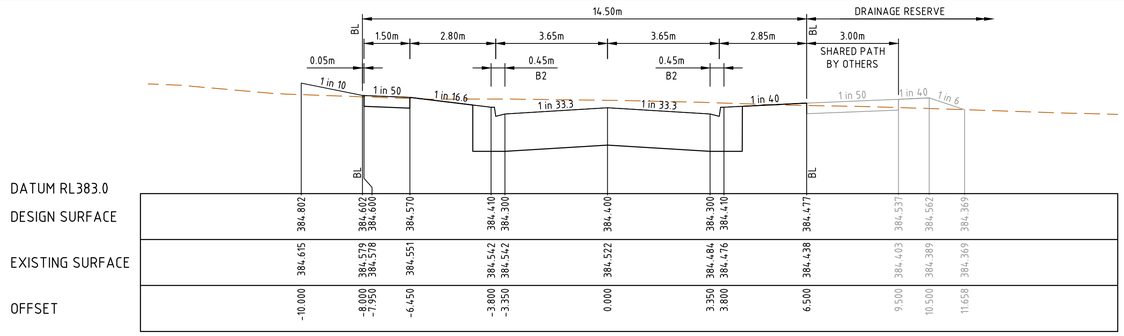
Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED: PE 0005549
DESIGNED: A. MAY
SCALE: H 1:100 V 1:50
PROJECT: BROADSTEAD - STAGE 02
TITLE: ROAD CROSS SECTIONS (SHEET 6 OF 7)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-255
REVISION: B
ORIGINAL SIZE: A1

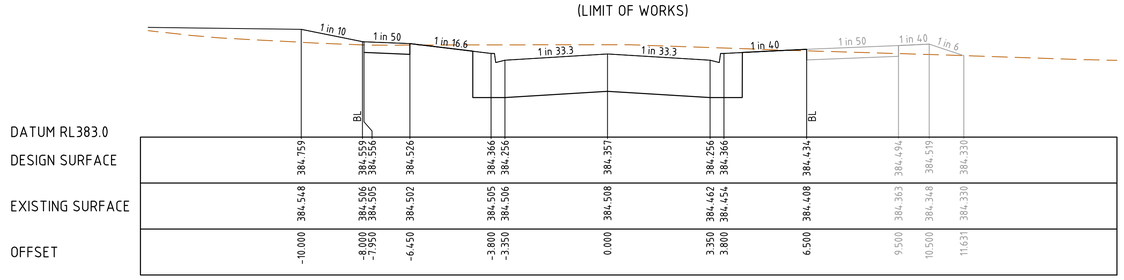
C:\12d\51data\F50\3\3265-02_153\Design\Arcad\3265-02-255.RXS 6/26/2024 5:48 PM KEN.LEE

INTERFACE WITH WATERWAY SUBJECT TO UPDATED DESIGN FROM AFFLUX CONSULTING

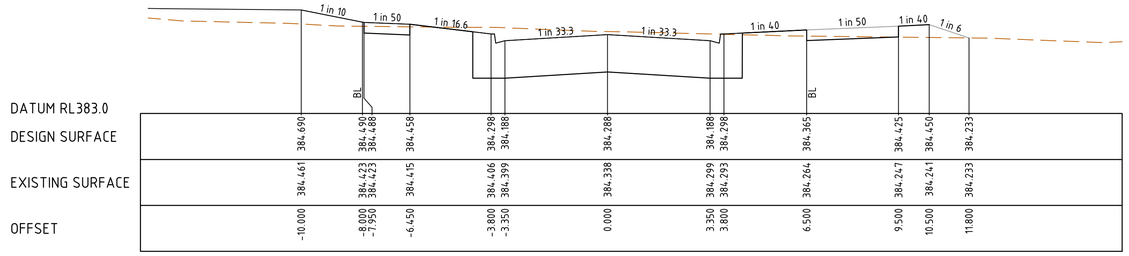
LEGEND
- EXISTING SURFACE
- DESIGN SURFACE
- COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH THE RELEVANT SPECIFICATION



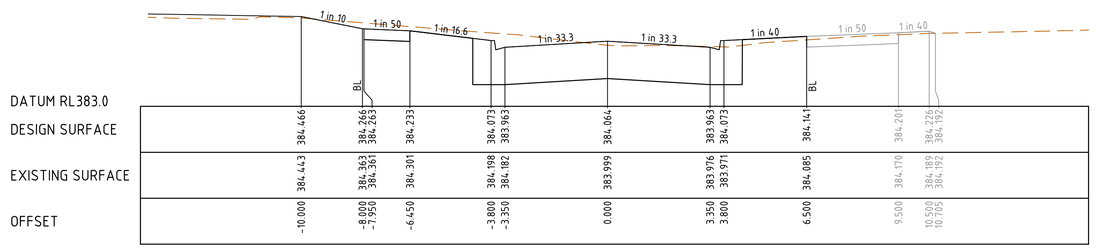
CH 83.203
(LIMIT OF WORKS)



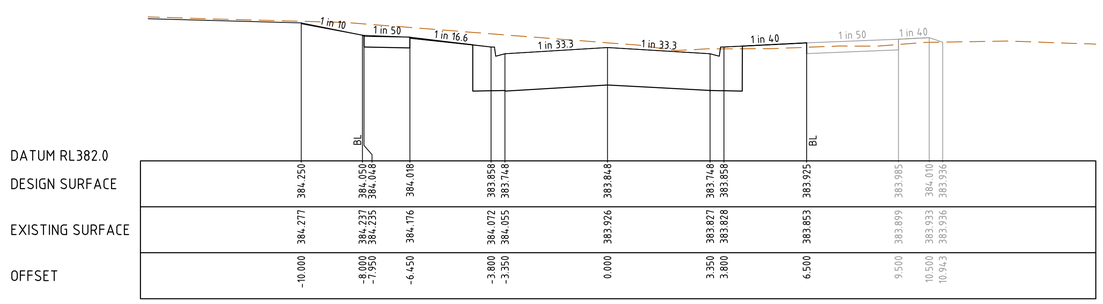
CH 80.203



CH 75.463

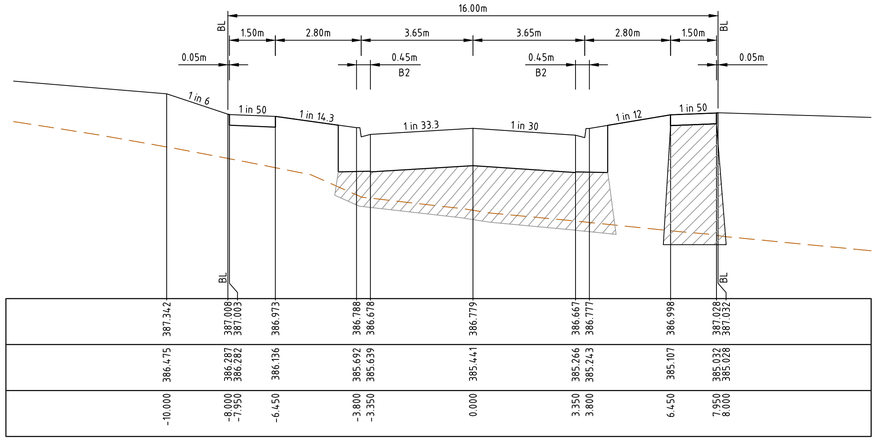


CH 60.000

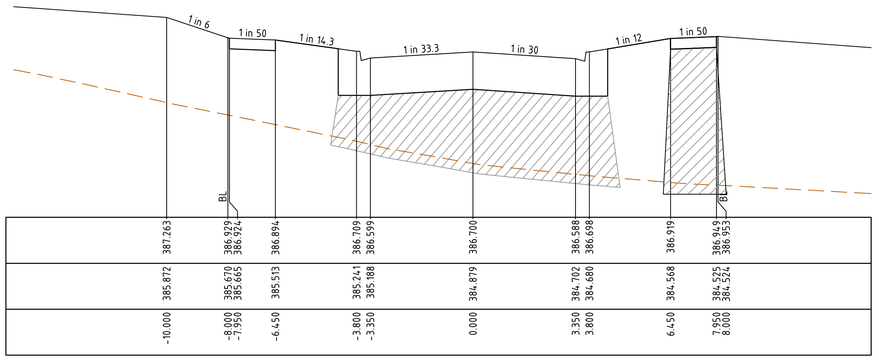


CH 41.450

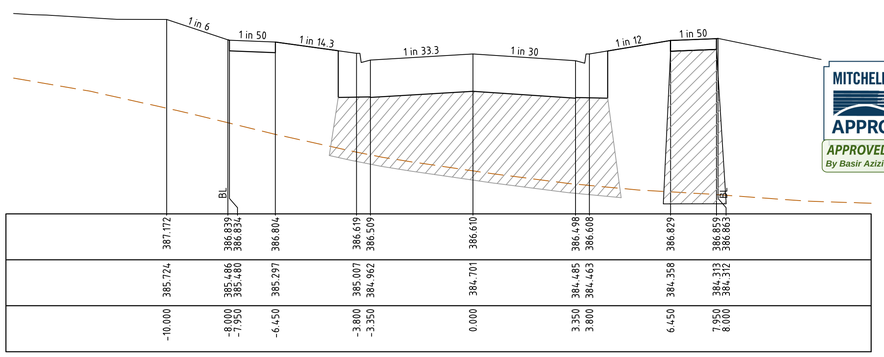
EVERGREEN BOULEVARD (EAST) - ROAD CROSS SECTIONS



CH 45.850
(LIMIT OF WORKS)



CH 30.000



CH 11.950

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REED WAY - ROAD CROSS SECTIONS

REV	DATE	DRN	CKD	APP	AMENDMENT
B	26.06.24	NT			ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:100 V 1:50
SCALE @ A1
0 2 4 6m
0 1 2 3m

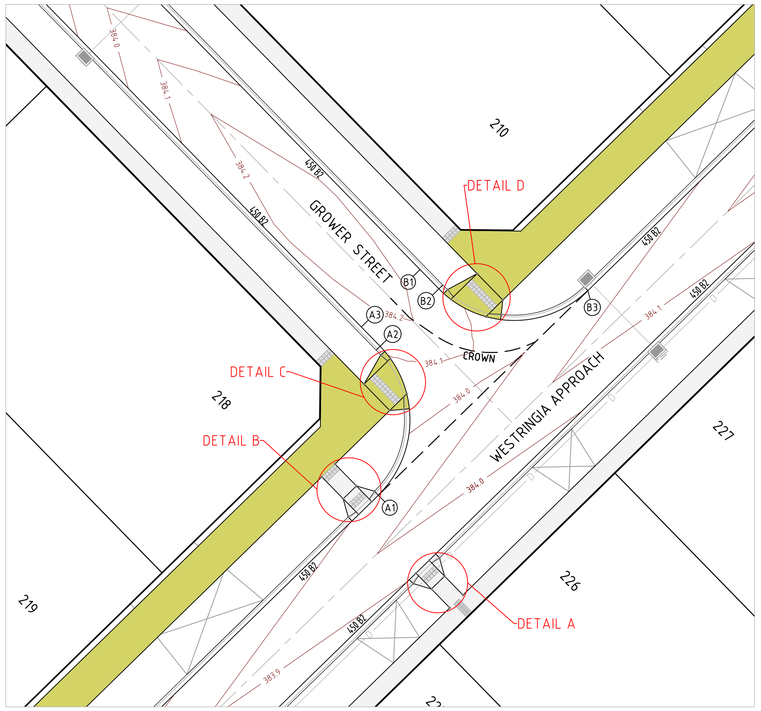
COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

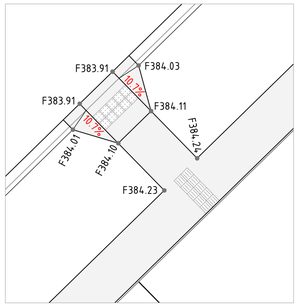
CLIENT: JINDING
APPROVED:PE 0005549
DESIGNED: A. MAY
SCALE: H 1:100 V 1:50
PROJECT: BROADSTEAD - STAGE 02
TITLE: ROAD CROSS SECTIONS (SHEET 7 OF 7)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No. PLP430/22
DRAWING No. 3265-02-256
REVISION B
ORIGINAL SIZE A1

C:\12d\Data\FS03\3265-02_253\Design\Acad\3265-02-256.RXS dwg 6/26/2024, 9:53 PM KEN LEE

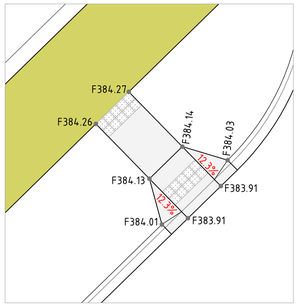


INTERSECTION OF WESTRINGIA APPROACH & GROWER STREET

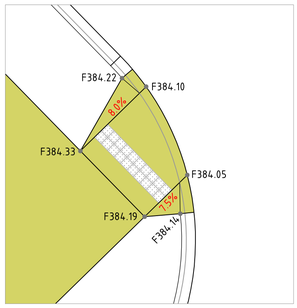
H 1:250
SCALE @ A1
0 5 10 15m



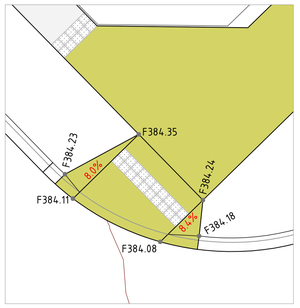
DETAIL A



DETAIL B



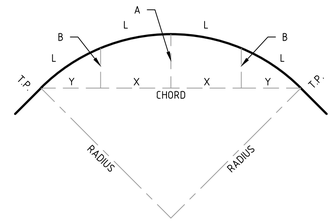
DETAIL C



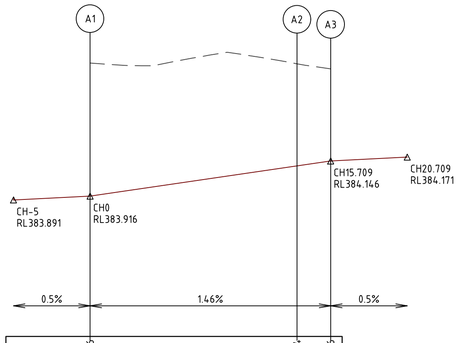
DETAIL D

H 1:100
SCALE @ A1
0 2 4 6m

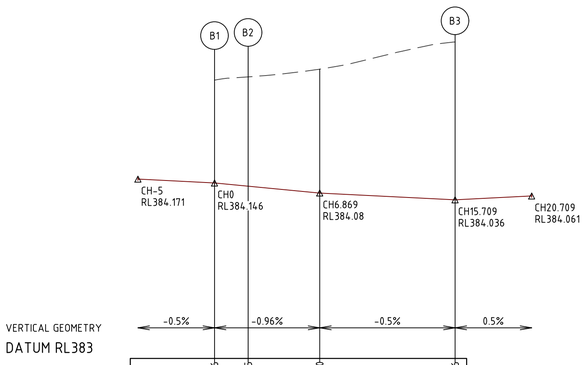
LEGEND		
DESCRIPTION	EXISTING	PROPOSED
CENTRAL INVERT		
STORMWATER DRAIN DRAINAGE		D
AG DRAIN		
PAVEMENT CONTOUR MINOR	51.20	
PAVEMENT CONTOUR MAJOR	52.00	52.00



SETOUT DETAIL
N.T.S.



LIP LINE A



LIP LINE B

H 1:200
SCALE @ A1
V 1:20
0 4 8 12m
0 0.4 0.8 1.2m

ALIGNMENT A

Point no	Easting	Northing	RL
A1	320018.941	5868244.818	383.916
A2	320019.085	5868256.979	384.114
A3	320017.548	5868258.553	384.146

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
A1 - A2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	384.015

ALIGNMENT B

Point no	Easting	Northing	RL
B1	320022.341	5868263.235	384.146
B2	320023.878	5868261.661	384.125
B3	320036.040	5868261.517	384.036

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
B2 - B3	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	384.070

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
B	26.06.24	NT			ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

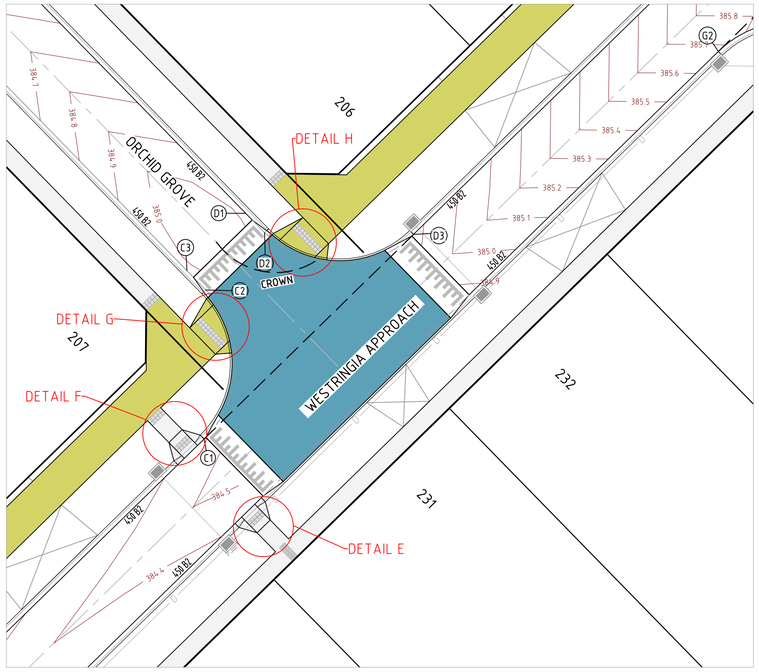
This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.au.com

CLIENT: JINDING
APPROVED: PE 0005549
DESIGNED: A. MAY
SCALE: AS SHOWN

PROJECT: BROADSTEAD - STAGE 02
TITLE: INTERSECTION DETAILS (SHEET 1 OF 7)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-300
REVISION: B
ORIGINAL SIZE: A1

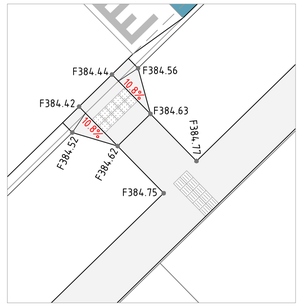
C:\12d\5\data\FSD\3265-02_JS3\Design\Acad\3265-02-300.INT.dwg 6/26/2024 5:14 PM KEN.LEE



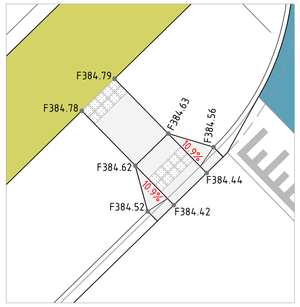
INTERSECTION OF WESTRINGIA APPROACH & ORCHID GROVE

H 1:250
SCALE @ A1

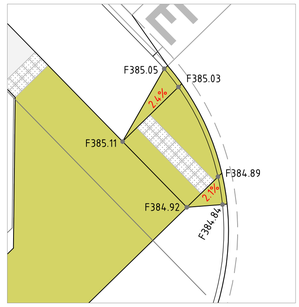
0 5 10 15m



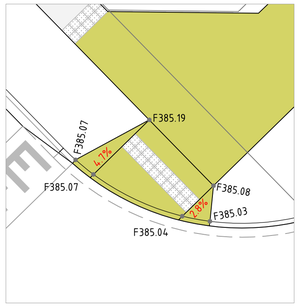
DETAIL E



DETAIL F



DETAIL G

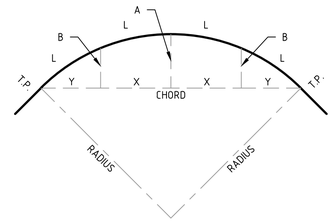


DETAIL H

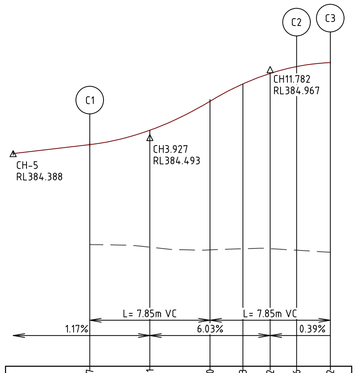
H 1:100
SCALE @ A1

0 2 4 6m

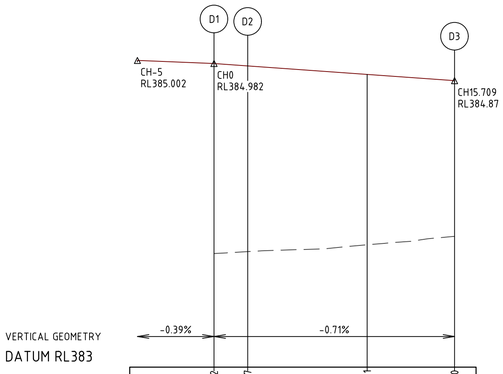
LEGEND		
DESCRIPTION	EXISTING	PROPOSED
CENTRAL INVERT		
STORMWATER DRAIN DRAINAGE		D
AG DRAIN		
PAVEMENT CONTOUR MINOR	51.20	
PAVEMENT CONTOUR MAJOR	52.00	52.00



SETOUT DETAIL
N.T.S.



LIP LINE C



LIP LINE D

H 1:200
SCALE @ A1
V 1:20

0 4 8 12m
0 0.4 0.8 1.2m

ALIGNMENT C

Point no	Easting	Northing	RL
C1	320088.336	5868312.592	384.447
C2	320088.480	5868324.753	384.956
C3	320086.943	5868326.327	384.982

Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
C1 - C2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	384.667

Alignment D

Point no	Easting	Northing	RL
D1	320091.736	5868331.009	384.982
D2	320093.274	5868329.434	384.967
D3	320105.434	5868329.290	384.870

Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
D2 - D3	90.000	8.599	13.507	2.519	1.864	3.291	2.790	3.377	384.918

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
B	26.06.24	KCL			ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING

APPROVED: PE 0005549

DESIGNED: A. MAY

SCALE: AS SHOWN

PROJECT: BROADSTEAD - STAGE 02

TITLE: INTERSECTION DETAILS (SHEET 2 OF 7)

MUNICIPALITY: MITCHELL SHIRE COUNCIL

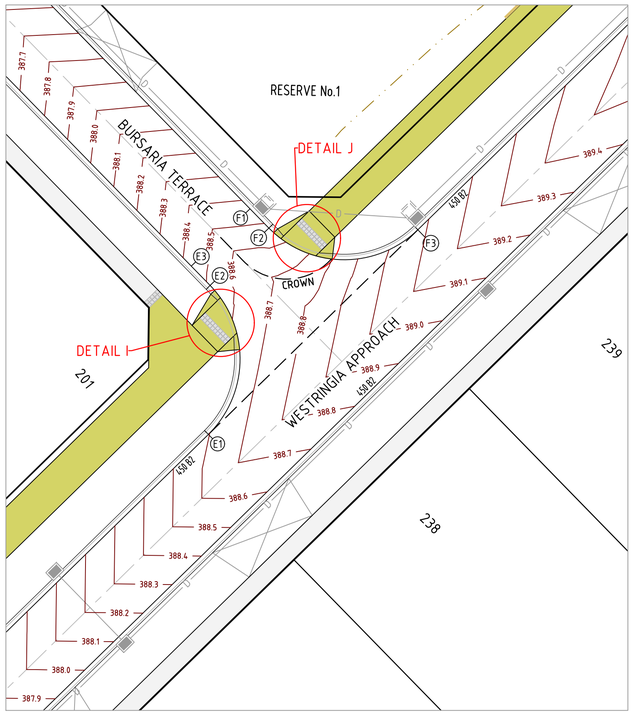
PP No.: PLP430/22

DRAWING No.: 3265-02-301

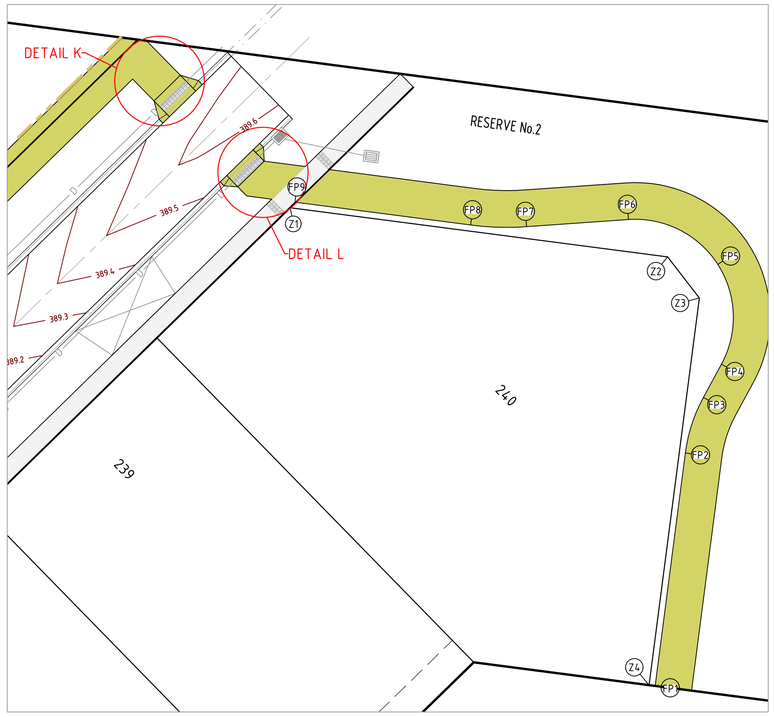
REVISION: B

ORIGINAL SIZE: A1

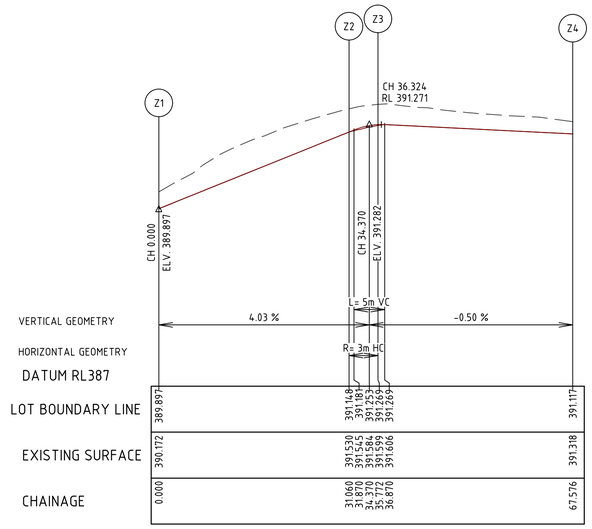
C:\12d\5\data\FSD3\3265-02_JKS\Design\Acad\3265-02-301.NT.dwg 6/26/2024, 5:26 PM KEN LEE



INTERSECTION OF WESTRINGIA APPROACH & BURSARIA TERRACE

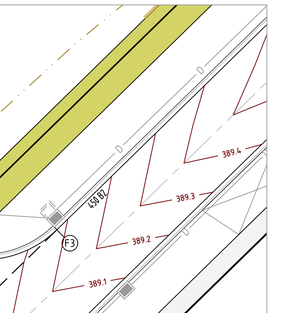


RESERVE No.2



RESERVE No.2 LONGITUDINAL SECTION

DETAIL I



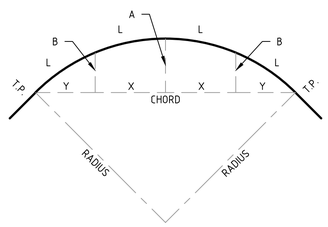
DETAIL J

DETAIL K

DETAIL L

H 1:250
SCALE @ A1
0 5 10 15m

H 1:100
SCALE @ A1
0 2 4 6m

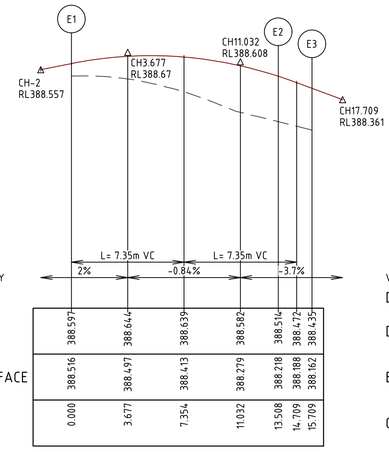


SETOUT DETAIL

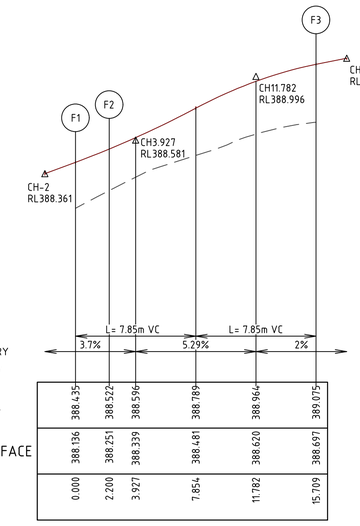
N.T.S.

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
CENTRAL INVERT		
STORMWATER DRAIN DRAINAGE		D
AG DRAIN		
PAVEMENT CONTOUR MINOR	51.20	
PAVEMENT CONTOUR MAJOR	52.00	52.00

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024



LIP LINE E



LIP LINE F

H 1:200
SCALE @ A1
0 4 8 12m
V 1:20
0 0.4 0.8 1.2m

ALIGNMENT E

Point no	Easting	Northing	RL
E1	320195.808	5868417.553	388.597
E2	320195.952	5868429.714	388.514
E3	320194.415	5868431.289	388.435

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
E1 - E2	89.997	8.600	13.508	2.519	1.864	3.291	2.790	3.377	388.644

ALIGNMENT F

Point no	Easting	Northing	RL
F1	320199.208	5868435.970	388.435
F2	320200.745	5868434.396	388.522
F3	320212.907	5868434.252	389.075

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
F2 - F3	89.999	8.600	13.509	2.519	1.864	3.291	2.790	3.377	388.844

REV	DATE	DRN	CKD	APP	AMENDMENT
C	07.08.24	WS	KCL	B. J-MONCK	RESERVE NO.2 SHARED PATH BUBBLES ADDED
B	26.06.24	NT	KCL	B. J-MONCK	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

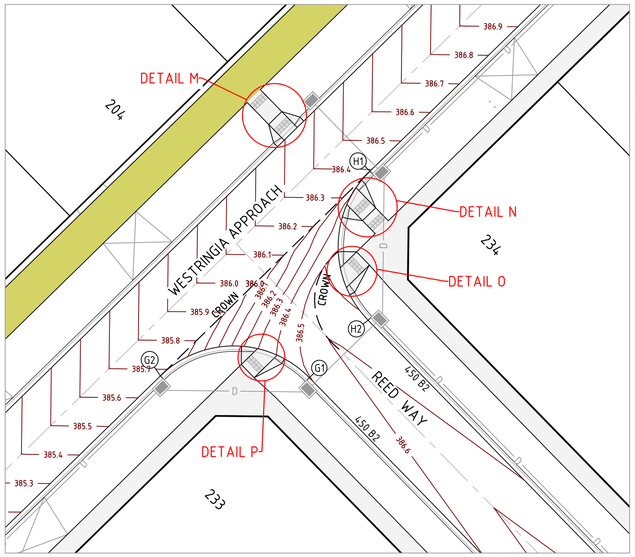
This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road
Melbourne VIC 3004
W cossillwebley.com.au
T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED:PE 0005549
DESIGNED: A. MAY
SCALE: AS SHOWN

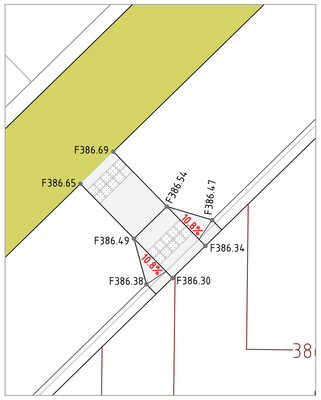
PROJECT: BROADSTEAD - STAGE 02
TITLE: INTERSECTION DETAILS (SHEET 3 OF 7)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-302
REVISION: C
ORIGINAL SIZE: A1

C:\3265\data\JFS\93\3265-02_JCS\Design\Acad\3265-02-300 INT.dwg 8/8/2024, 10:37 AM KEN LEE

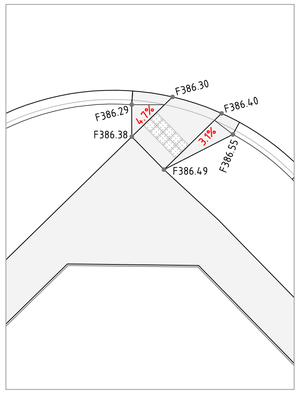


INTERSECTION OF WESTRINGIA APPROACH & REED WAY

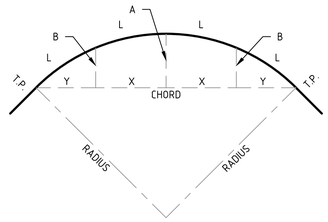
H 1:250 SCALE @ A1 — 0, 5, 10, 15m



DETAIL M



DETAIL P

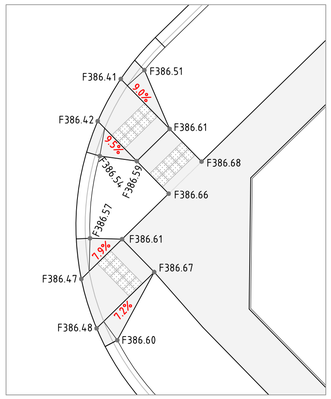


SETOUT DETAIL

N.T.S.

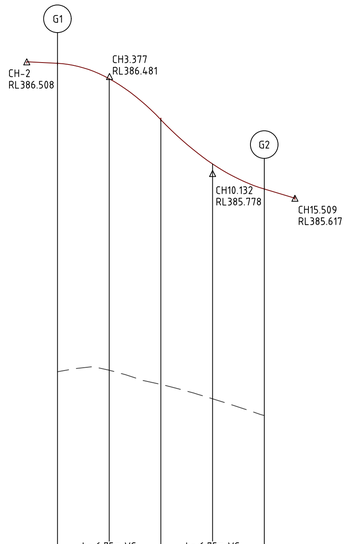
LEGEND

DESCRIPTION	EXISTING	PROPOSED
CENTRAL INVERT		
STORMWATER DRAIN DRAINAGE		D
AG DRAIN		
PAVEMENT CONTOUR MINOR	51.20	
PAVEMENT CONTOUR MAJOR	52.00	52.00

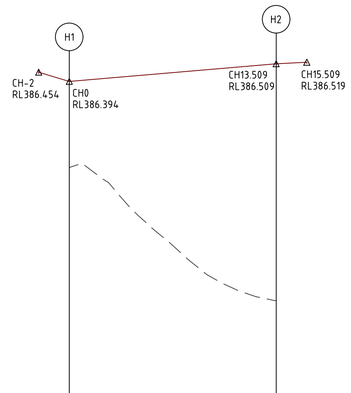


DETAIL N & O

H 1:100 SCALE @ A1 — 0, 2, 4, 6m

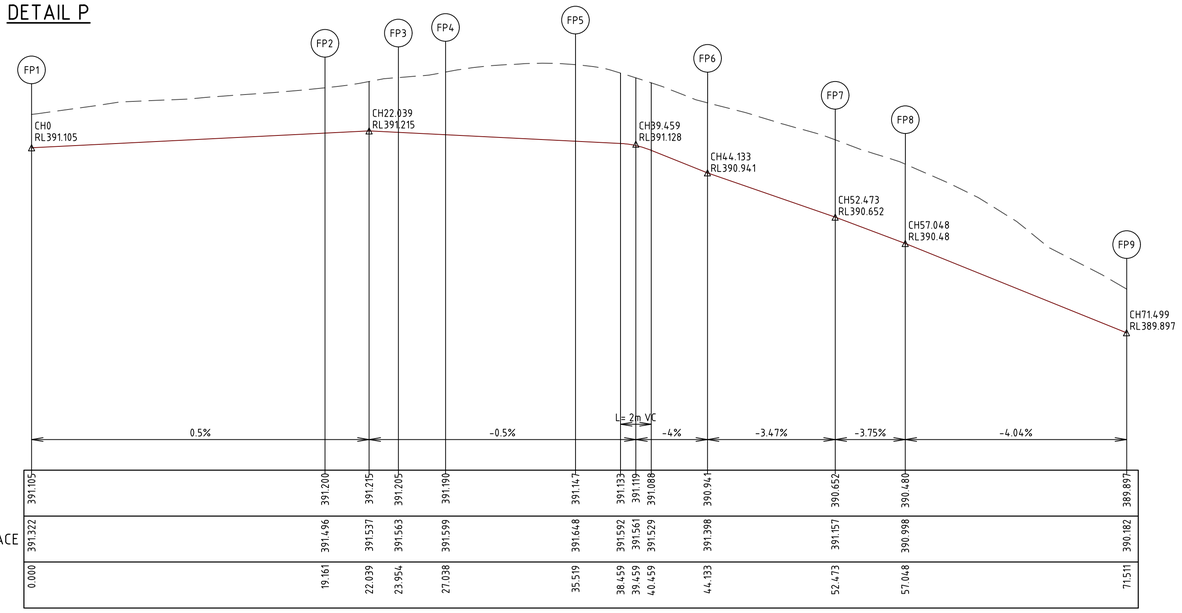


LIP LINE G



LIP LINE H

H 1:200 SCALE @ A1 — 0, 4, 8, 12m
V 1:20 — 0, 0.4, 0.8, 1.2m



LIP LINE FP

ALIGNMENT G

Point no	Easting	Northing	RL
G1	320142.466	5868344.071	386.498
G2	320130.305	5868344.215	385.677

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
G1 - G2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	386.130

ALIGNMENT H

Point no	Easting	Northing	RL
H1	320147.403	5868360.914	386.394
H2	320147.260	5868348.752	386.509

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
H1 - H2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	386.451

ALIGNMENT FP

Point no	Easting	Northing	RL
FP1	320272.062	5868406.875	391.105
FP2	320274.531	5868425.876	391.200
FP3	320276.001	5868430.410	391.205
FP4	320277.474	5868433.120	391.190
FP5	320277.175	5868441.266	391.147
FP6	320269.888	5868444.921	390.941
FP7	320261.569	5868444.341	390.652
FP8	320257.003	5868444.477	390.480
FP9	320242.673	5868446.340	389.897

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
FP2 - FP3	21.126	13.000	4.793	0.220	0.165	1.197	1.186	1.198	391.212
FP4 - FP5	61.260	8.000	8.553	1.116	0.832	2.113	1.963	2.138	391.169
FP5 - FP6	61.260	8.000	8.553	1.116	0.832	2.113	1.963	2.138	391.108
FP7 - FP8	11.398	23.000	4.575	0.114	0.085	1.143	1.141	1.144	390.565

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
C	07.08.24	WS	KL	BM	RESERVE NO.2 SHARED PATH DETAILS ADDED
B	26.06.24	NT	KCL	B. J-MONCK	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

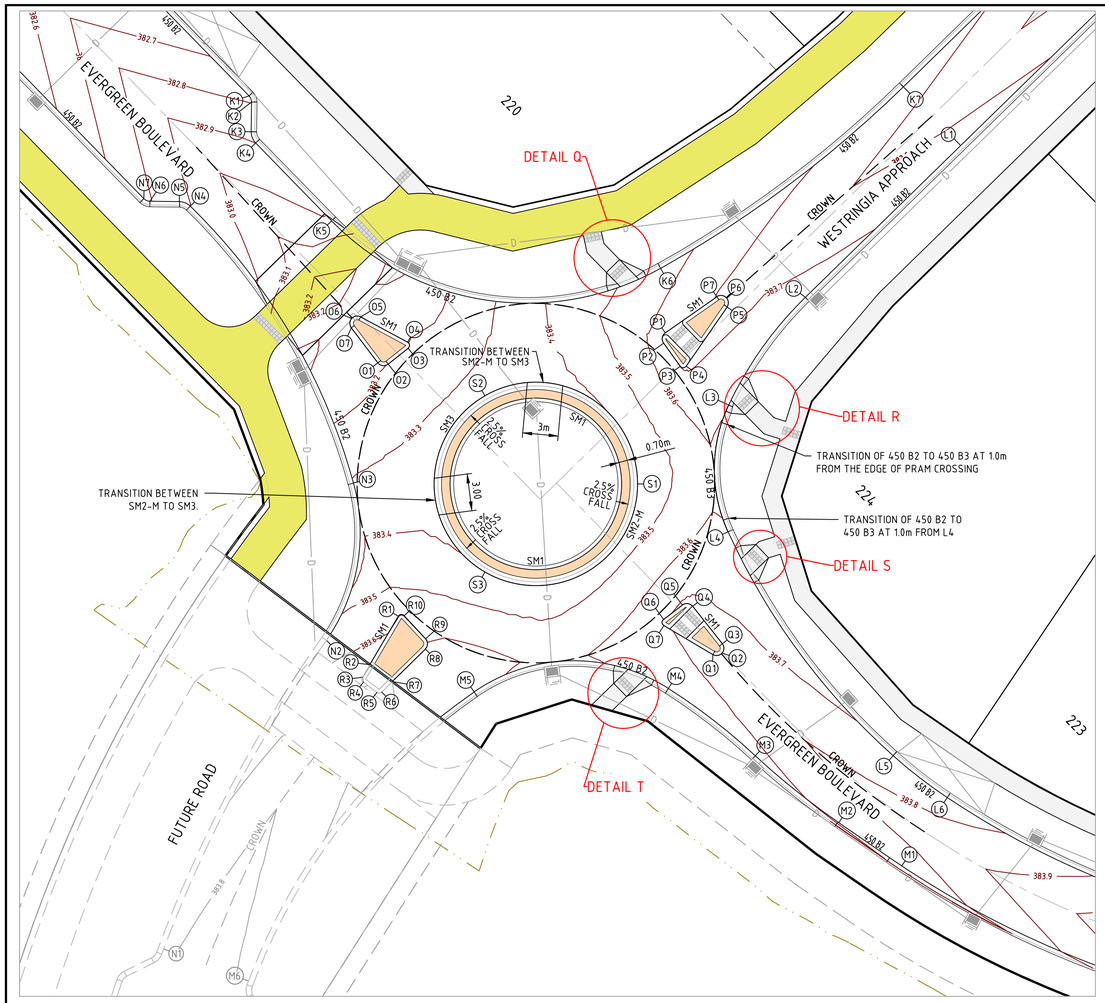
This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.au

CLIENT: JINDING
APPROVED: PE 0005549
DESIGNED: A. MAY
SCALE: AS SHOWN

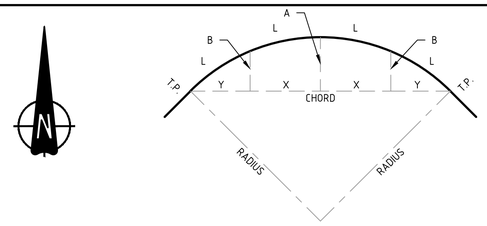
PROJECT: BROADSTEAD - STAGE 02
TITLE: INTERSECTION DETAILS (SHEET 4 OF 7)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-303
REVISION: C
ORIGINAL SIZE: A1

C:\3265\data\JFS\93\3265-02_JCS\Design\Acad\3265-02-300 NT.dwg 8/8/2024, 10:37 AM KEN LEE



INTERSECTION OF EVERGREEN BOULEVARD / WILDFLOWER VISTA & WESTRINGIA APPROACH

H 1:250 SCALE @ A1 — 0 5 10 15m

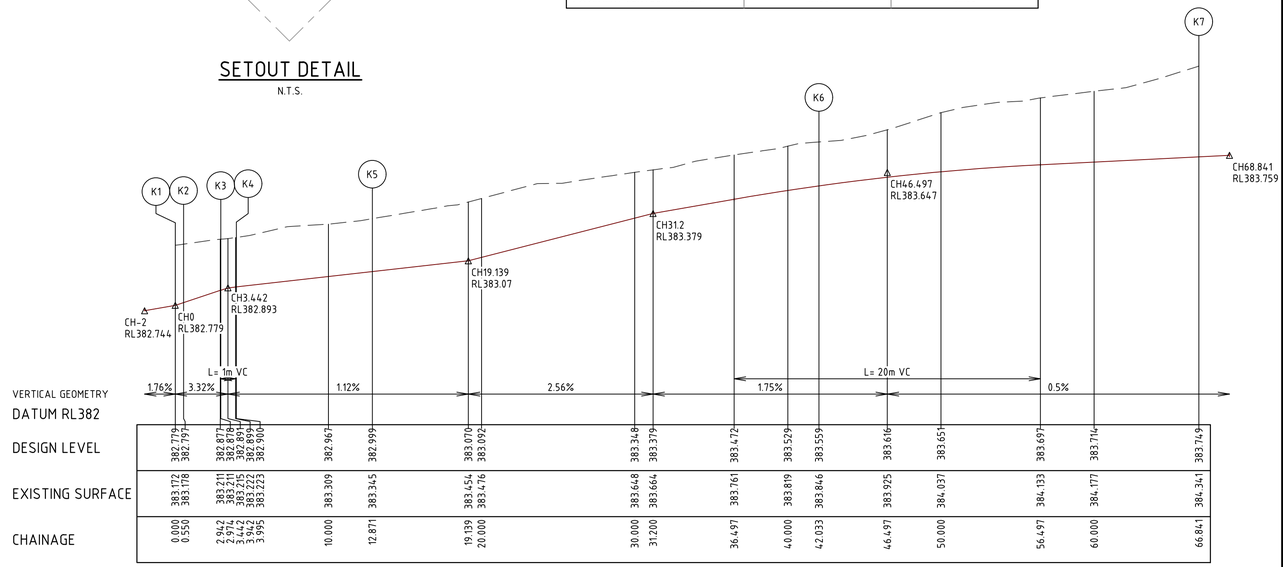


SETOUT DETAIL

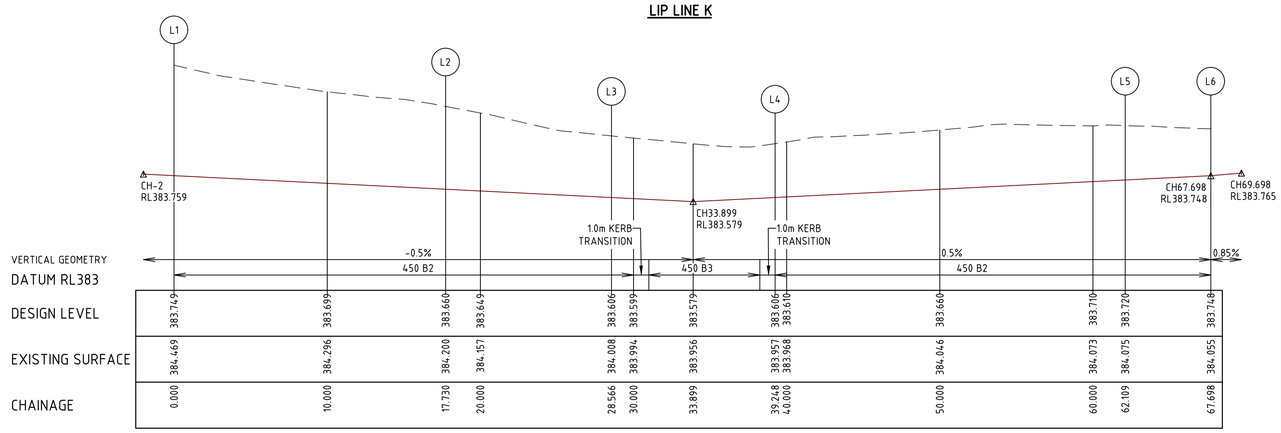
N.T.S.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
CENTRAL INVERT		
STORMWATER DRAIN DRAINAGE		D
PAVEMENT CONTOUR MINOR	51.20	
PAVEMENT CONTOUR MAJOR	52.00	52.00



LIP LINE K



LIP LINE L

H 1:200 SCALE @ A1 — 0 4 8 12m
V 1:20 — 0 0.4 0.8 1.2m

ALIGNMENT K

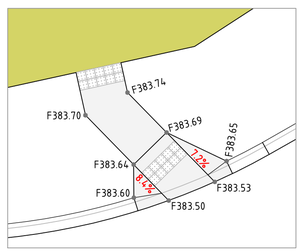
Point no	Easting	Northing	RL
K1	319941.518	5868220.616	382.779
K2	319941.717	5868220.118	382.797
K3	319941.688	5868217.694	382.878
K4	319942.058	5868216.770	382.900
K5	319948.260	5868210.421	382.999
K6	319975.110	5868206.545	383.559
K7	319994.921	5868221.358	383.749

Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
K1 - K2	45.000	0.700	0.550	0.053	0.040	0.137	0.131	0.137	382.788
K3 - K4	45.000	1.300	1.021	0.099	0.074	0.254	0.244	0.255	382.892
K5 - K6	74.927	22.300	29.162	4.600	3.418	7.161	6.403	7.291	383.283
K6 - K7	15.071	94.317	24.808	0.814	0.611	6.198	6.171	6.202	383.685

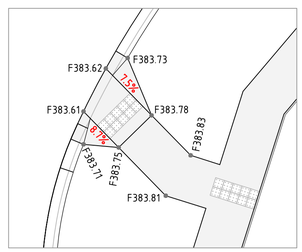
ALIGNMENT L

Point no	Easting	Northing	RL
L1	319999.602	5868216.565	383.749
L2	319986.918	5868204.177	383.660
L3	319980.669	5868195.395	383.606
L4	319980.613	5868185.046	383.606
L5	319994.087	5868166.779	383.720
L6	319998.504	5868163.361	383.748

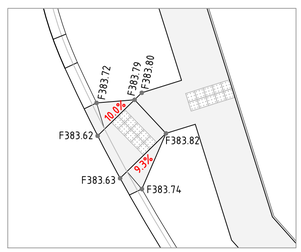
Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
L2 - L3	20.490	30.300	10.836	0.483	0.362	2.705	2.684	2.709	383.633
L3 - L4	49.757	12.300	10.682	1.141	0.853	2.650	2.525	2.670	383.579
L4 - L5	23.686	55.300	22.861	1.177	0.882	5.705	5.644	5.715	383.663
L5 - L6	8.006	39.998	5.589	0.098	0.073	1.397	1.395	1.397	383.734



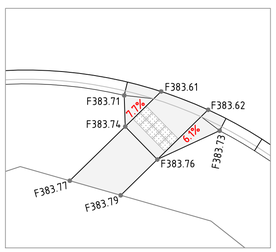
DETAIL Q



DETAIL R



DETAIL S



DETAIL T

H 1:100 SCALE @ A1 — 0 2 4 6m

REV	DATE	DRN	CKD	APP	AMENDMENT
C	08.08.24	KCL			REVISED LIP R & CONTOUR LINES
B	26.06.24	NT	KCL	B. J-MONCK	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

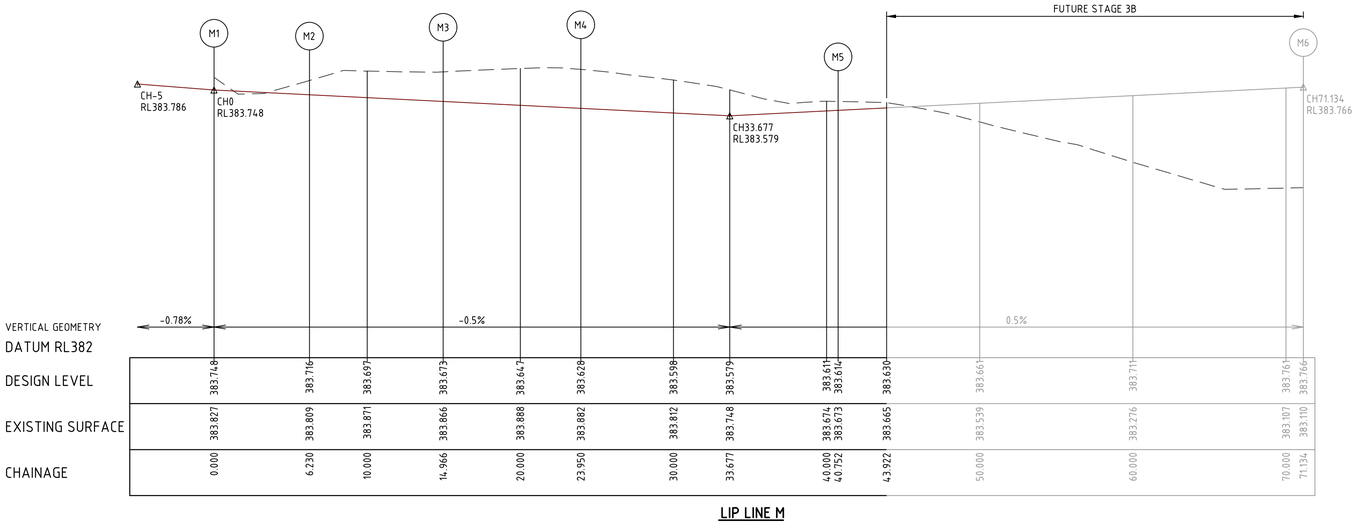
This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

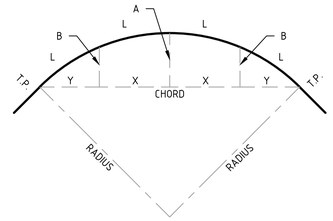
CLIENT: JINDING
APPROVED: PE 0005549
DESIGNED: A. MAY
SCALE: AS SHOWN

PROJECT: BROADSTEAD - STAGE 02
TITLE: INTERSECTION DETAILS (SHEET 5 OF 7)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-304
REVISION: C
ORIGINAL SIZE: A1

C:\3265\data\FS\03\3265-02_IS3\Design\Arcad\3265-02_300 INT.dwg 8/8/2024, 10:37 AM KEN LEE

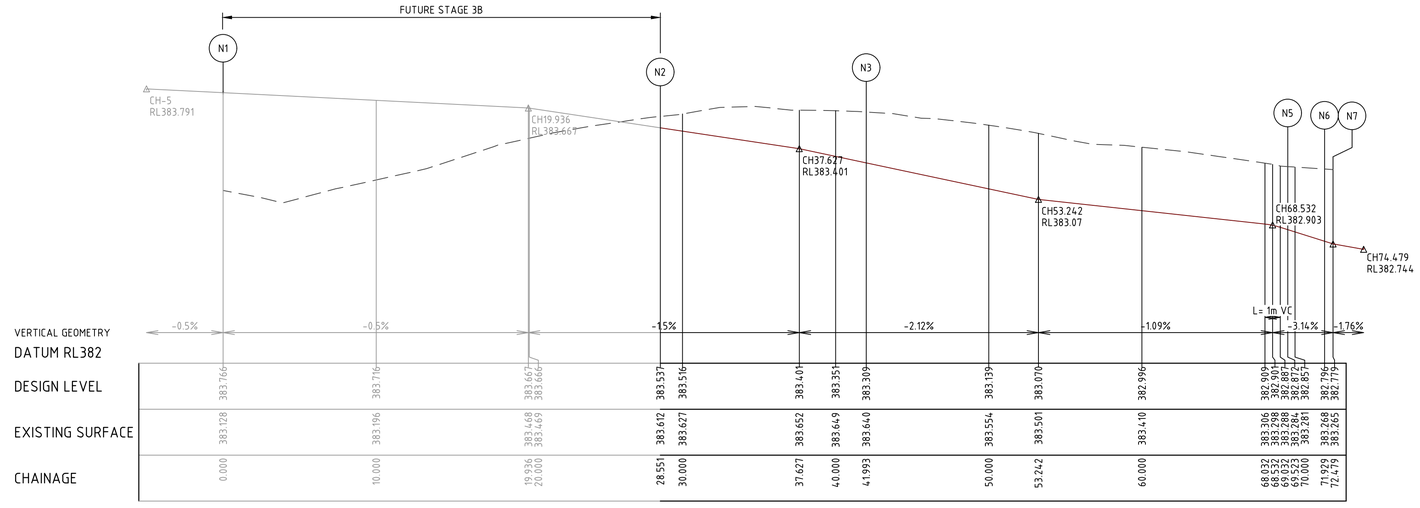


LIP LINE M



SETOUT DETAIL

N.T.S.



LIP LINE N

ALIGNMENT M

Point no	Easting	Northing	RL
M1	319994.782	5868157.789	383.748
M2	319989.650	5868161.320	383.716
M3	319982.837	5868166.777	383.673
M4	319975.741	5868172.267	383.628
M5	319959.892	5868171.978	383.614
M6	319941.475	5868148.395	383.766

Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
M2 - M3	8.315	60.200	8.736	0.158	0.119	2.184	2.181	2.184	383.695
M3 - M4	10.234	50.301	8.984	0.200	0.150	2.245	2.241	2.246	383.650
M4 - M5	67.318	14.300	16.801	2.397	1.785	4.140	3.786	4.200	383.586
M5 - M6	34.611	50.294	30.382	2.277	1.704	7.567	7.394	7.595	383.690

ALIGNMENT N

Point no	Easting	Northing	RL
N1	319934.552	5868151.009	383.766
N2	319947.838	5868176.198	383.489
N3	319950.045	5868189.022	383.309
N4	319936.725	5868211.621	382.901
N5	319935.831	5868211.992	382.872
N6	319933.426	5868212.020	382.796
N7	319932.933	5868212.231	382.779

Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
N1 - N2	14.250	114.800	28.551	0.886	0.665	7.133	7.106	7.138	383.628
N2 - N3	50.336	15.300	13.441	1.453	1.085	3.333	3.173	3.360	383.383
N3 - N4	30.229	50.302	26.539	1.740	1.303	6.616	6.501	6.635	383.048
N4 - N5	43.694	1.300	0.991	0.093	0.070	0.246	0.237	0.248	382.888
N6 - N7	45.026	0.700	0.550	0.053	0.040	0.137	0.131	0.137	382.788

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
C	08.08.24	KCL			REVISED LIP M & LIP N
B	26.06.24	NT	KCL	B. J-MONCK	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:200 SCALE @ A1
V 1:20
0 4 8 12m
0 0.4 0.8 1.2m

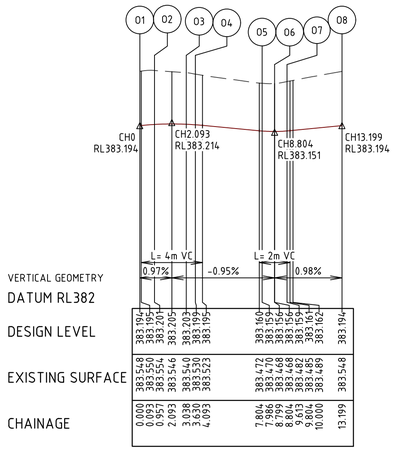
COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

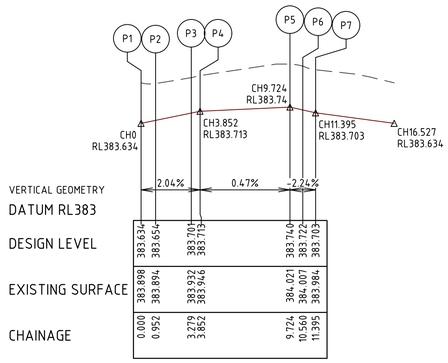
Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED: PE 0005549
DESIGNED: A. MAY
SCALE: H 1:200 V 1:20
PROJECT: BROADSTEAD - STAGE 02
TITLE: INTERSECTION DETAILS (SHEET 6 OF 7)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No. PLP430/22
DRAWING No. 3265-02-305
REVISION C
ORIGINAL SIZE A1

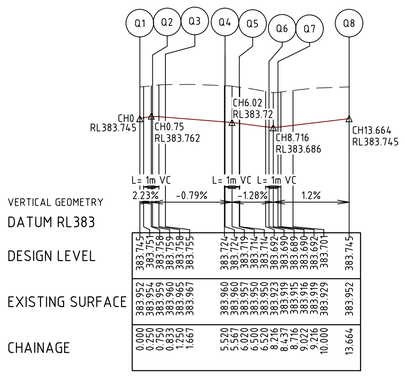
C:\3265\data\F5931\3265-02_IS3\Design\Acad\3265-02-300 INT.dwg 8/8/2024, 10:38 AM KEN.LEE



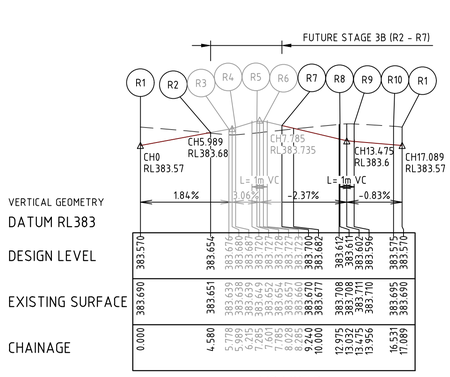
LIP LINE O



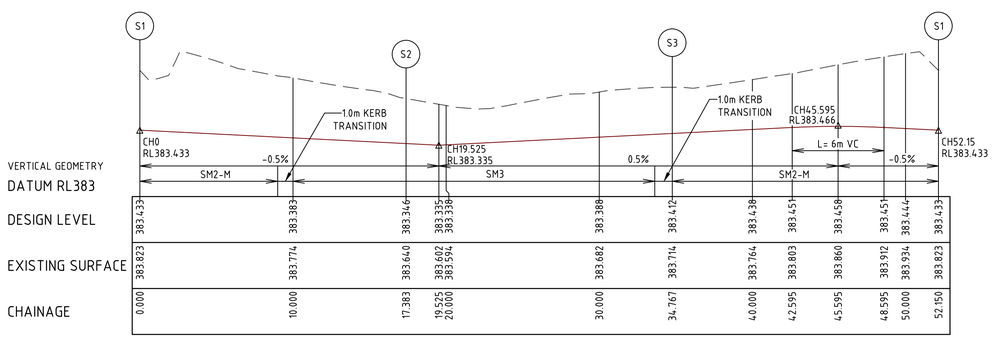
LIP LINE P



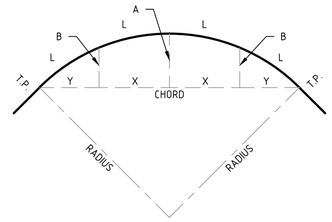
LIP LINE Q



LIP LINE R



LIP LINE S



SETOUT DETAIL

N.T.S.

ALIGNMENT O

Point no	Easting	Northing	RL
O1	319952.026	5868198.835	383.194
O2	319952.878	5868198.727	383.201
O3	319954.506	5868200.022	383.203
O4	319954.462	5868200.521	383.199
O5	319950.627	5868202.586	383.159
O6	319949.887	5868202.448	383.156
O7	319949.864	5868201.696	383.159

Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
O1 - O2	91.418	0.600	0.957	0.181	0.134	0.233	0.196	0.239	383.198
O3 - O4	113.202	0.300	0.593	0.135	0.099	0.142	0.108	0.148	383.201
O5 - O6	77.690	0.600	0.814	0.133	0.099	0.200	0.177	0.203	383.156
O6 - O7	77.690	0.600	0.814	0.133	0.099	0.200	0.177	0.203	383.156

ALIGNMENT P

Point no	Easting	Northing	RL
P1	319975.493	5868201.286	383.634
P2	319975.350	5868200.443	383.654
P3	319976.711	5868198.556	383.701
P4	319977.201	5868198.560	383.713
P5	319980.538	5868203.392	383.740
P6	319980.468	5868204.158	383.722
P7	319979.701	5868204.225	383.703

Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
P1 - P2	90.864	0.600	0.952	0.179	0.132	0.232	0.196	0.238	383.644
P3 - P4	109.574	0.300	0.574	0.127	0.093	0.138	0.107	0.143	383.707
P5 - P6	79.781	0.600	0.835	0.140	0.104	0.205	0.180	0.209	383.731
P6 - P7	79.781	0.600	0.835	0.140	0.104	0.205	0.180	0.209	383.712

ALIGNMENT Q

Point no	Easting	Northing	RL
Q1	319979.374	5868175.027	383.745
Q2	319980.132	5868175.148	383.759
Q3	319980.149	5868175.916	383.755
Q4	319977.721	5868178.969	383.724
Q5	319976.886	5868179.071	383.714
Q6	319975.351	5868177.890	383.690
Q7	319975.380	5868177.394	383.690

Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
Q1 - Q2	79.579	0.600	0.833	0.139	0.103	0.204	0.180	0.208	383.754
Q2 - Q3	79.579	0.600	0.833	0.139	0.103	0.204	0.180	0.208	383.758
Q4 - Q5	89.081	0.600	0.933	0.172	0.128	0.227	0.193	0.233	383.719
Q6 - Q7	111.760	0.300	0.585	0.132	0.097	0.141	0.108	0.146	383.689

ALIGNMENT R

Point no	Easting	Northing	RL
R1	319953.700	5868178.154	383.570
R2	319951.376	5868174.207	383.654
R3	319950.769	5868173.175	383.676
R4	319950.847	5868172.783	383.687
R5	319951.953	5868171.948	383.727
R6	319952.344	5868171.973	383.727
R7	319953.208	5868172.823	383.700
R8	319955.910	5868175.483	383.611
R9	319955.929	5868176.319	383.596
R10	319954.178	5868178.206	383.575

Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
R3 - R4	83.408	0.300	0.437	0.076	0.056	0.107	0.093	0.109	383.680
R5 - R6	81.622	0.300	0.427	0.073	0.054	0.105	0.091	0.107	383.728
R8 - R9	88.309	0.600	0.925	0.170	0.126	0.226	0.192	0.231	383.602
R10 - R1	106.664	0.300	0.558	0.121	0.089	0.135	0.106	0.140	383.572

ALIGNMENT S

Point no	Easting	Northing	RL
S1	319973.227	5868188.954	383.433
S2	319960.777	5868196.142	383.346
S3	319960.777	5868181.766	383.412

Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
S1 - S2	120.000	8.300	17.383	4.150	3.038	4.150	3.038	4.346	383.390
S2 - S3	120.000	8.300	17.383	4.150	3.038	4.150	3.038	4.346	383.368
S3 - S1	120.000	8.300	17.383	4.150	3.038	4.150	3.038	4.346	383.455

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
C	08.08.24	KCL			REVISED LIP R
B	26.06.24	NT	KCL	B. J-MONCK	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:200 V 1:20 SCALE @ A1 — 0 4 8 12m; 0 0.4 0.8 1.2m

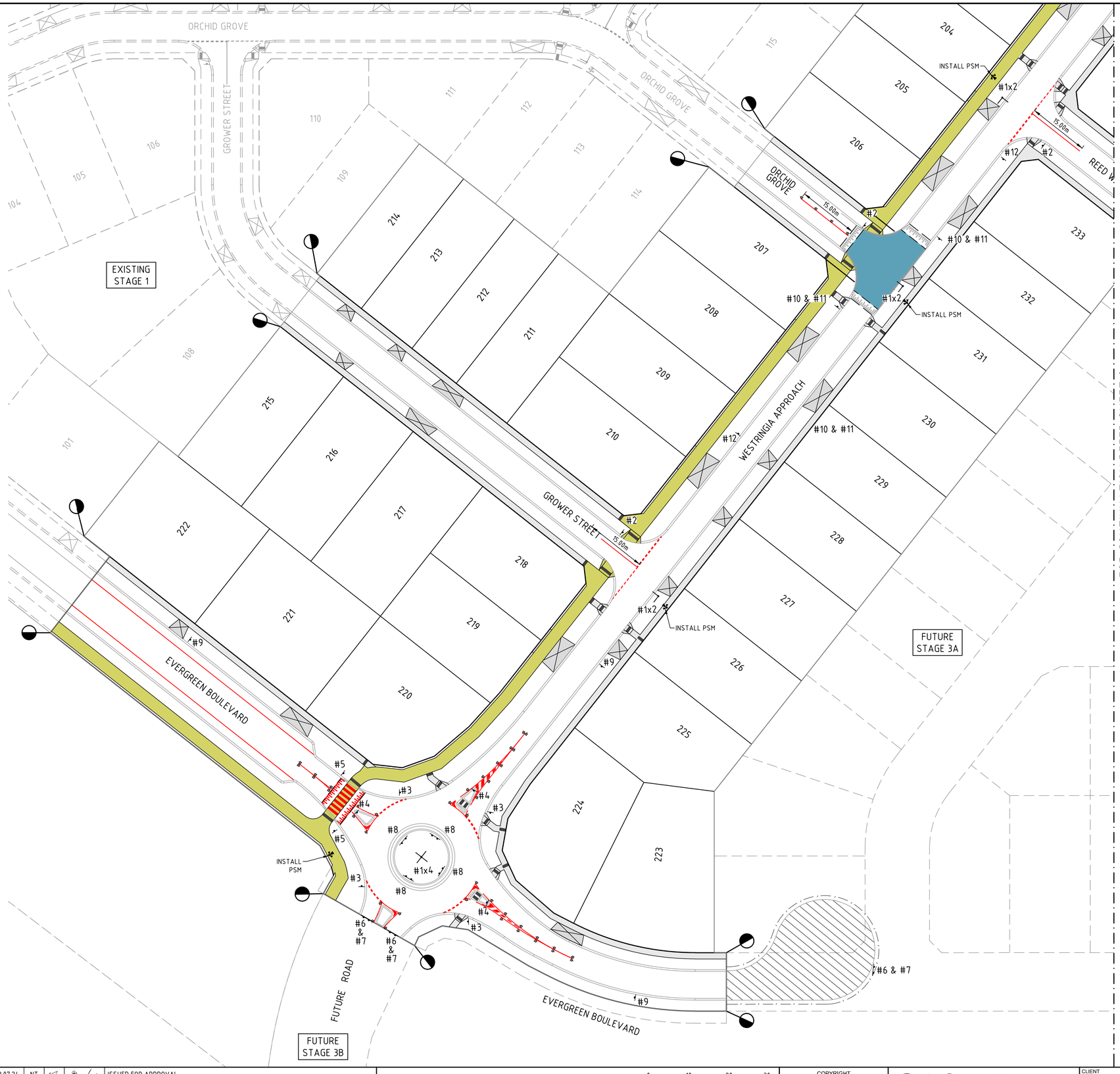
COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED: PE 0005549
DESIGNED: A. MAY
SCALE: H 1:200 V 1:20
PROJECT: BROADSTEAD - STAGE 02
TITLE: INTERSECTION DETAILS (SHEET 7 OF 7)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-306
REVISION: C
ORIGINAL SIZE: A1

C:\3265\data\FS\03\3265-02_FS3\Design\Acad\3265-02_300 INT dwg 8/8/2024, 16:38 AM KEN.LEE



FOR CONTINUATION REFER SHEET 2

SIGNAGE SCHEDULE		
NO.	SIGN CODE	SIGN
#1	STREET NAME	STREET NAME
#2	R1-2	GIVE WAY
#3	R1-3	
#4	R2-3(L)	KEEP LEFT
#5	R3-1	
#6	G9-20	ROAD CLOSED
#7	D4-5	
#8	D4-1-3(L)	
#9	W2-7	
#10	W5-10A	
#11	W8-2A	20 km/h
#12	W3-4A	

NOTES
1. RRPM'S IN INSTALLED IN ACCORDANCE WITH AS1742.2 CLAUSE 5.6.
2. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
3. LINEMARKING IN ACCORDANCE WITH AS1742.
4. TGSI TO BE INSTALLED IN ACCORDANCE WITH VICROADS RDN 06-06 - JULY 2010
5. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVENT STREET NUMBERING.
6. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
B	02.07.24	NT			ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:500 SCALE @ A1 (0, 10, 20, 30m)

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

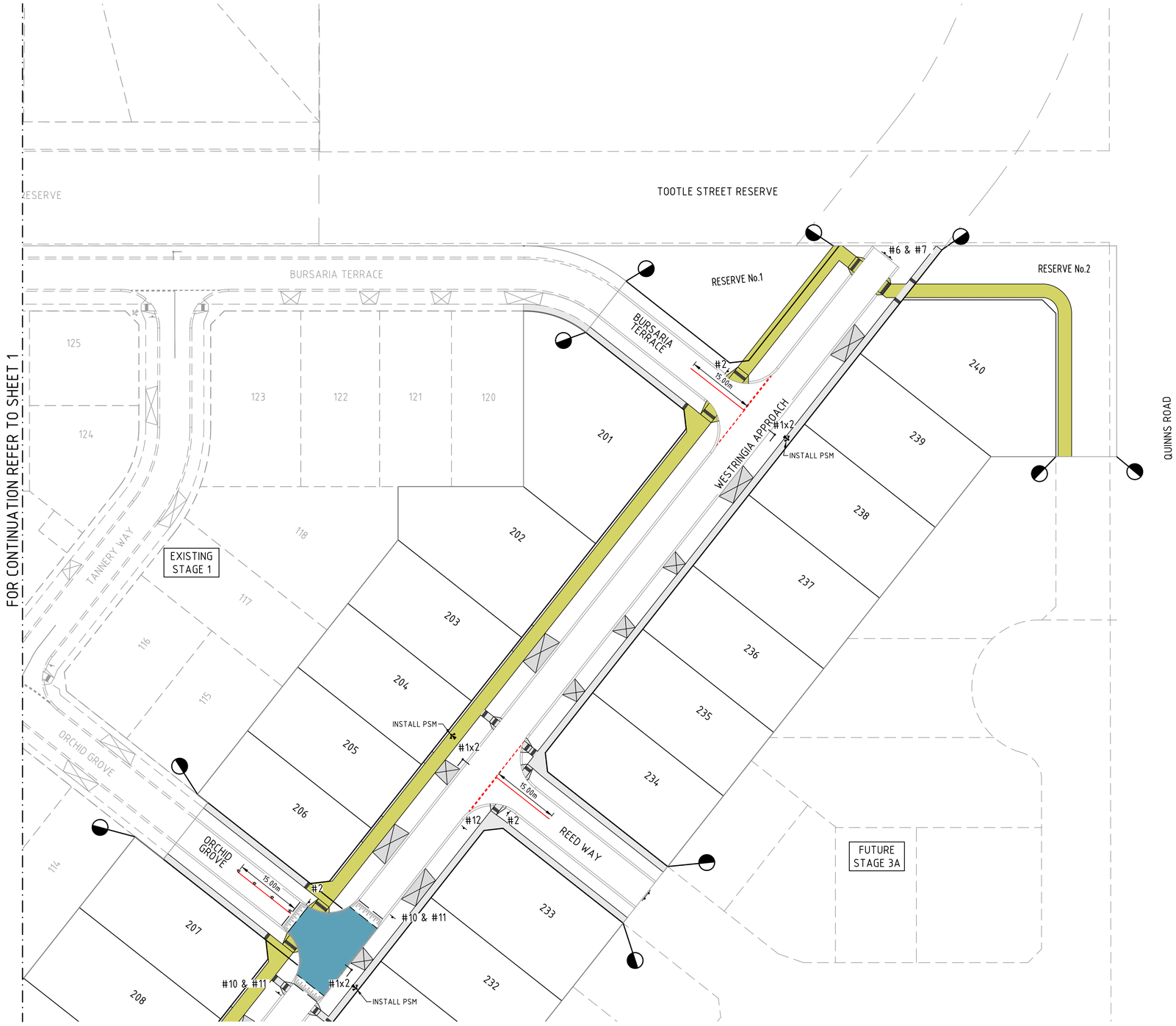
This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED: PE 0005549
DESIGNED: A. MAY
SCALE: 1:500 @ A1

PROJECT: BROADSTEAD - STAGE 02
TITLE: SIGNAGE & LINEMARKING PLAN (SHEET 1 OF 2)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-350
REVISION: B
ORIGINAL SIZE: A1

C:\3265\data\JFS\03\3265-02_JS3\Design\Acad\3265-02-350.MP dwg 7/7/2024, 2:27 PM KEN.LEE



SIGNAGE SCHEDULE

NO.	SIGN CODE	SIGN
#1	STREET NAME	STREET NAME
#2	R1-2	GIVE WAY
#3	R1-3	
#4	R2-3(L)	KEEP LEFT
#5	R3-1	
#6	G9-20	ROAD CLOSED
#7	D4-5	
#8	D4-1-3(L)	
#9	W2-7	
#10	W5-10A	
#11	W8-2A	20 km/h
#12	W3-4A	

NOTES
1. RRPM'S IN INSTALLED IN ACCORDANCE WITH AS1742.2 CLAUSE 5.6.
2. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
3. LINEMARKING IN ACCORDANCE WITH AS1742.
4. TGSI TO BE INSTALLED IN ACCORDANCE WITH VICROADS RDN 06-06 - JULY 2010
5. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVENT STREET NUMBERING.
6. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
B	26.06.24	NT	KJ	Bmerl	ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:500 SCALE @ A1 0 10 20 30m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

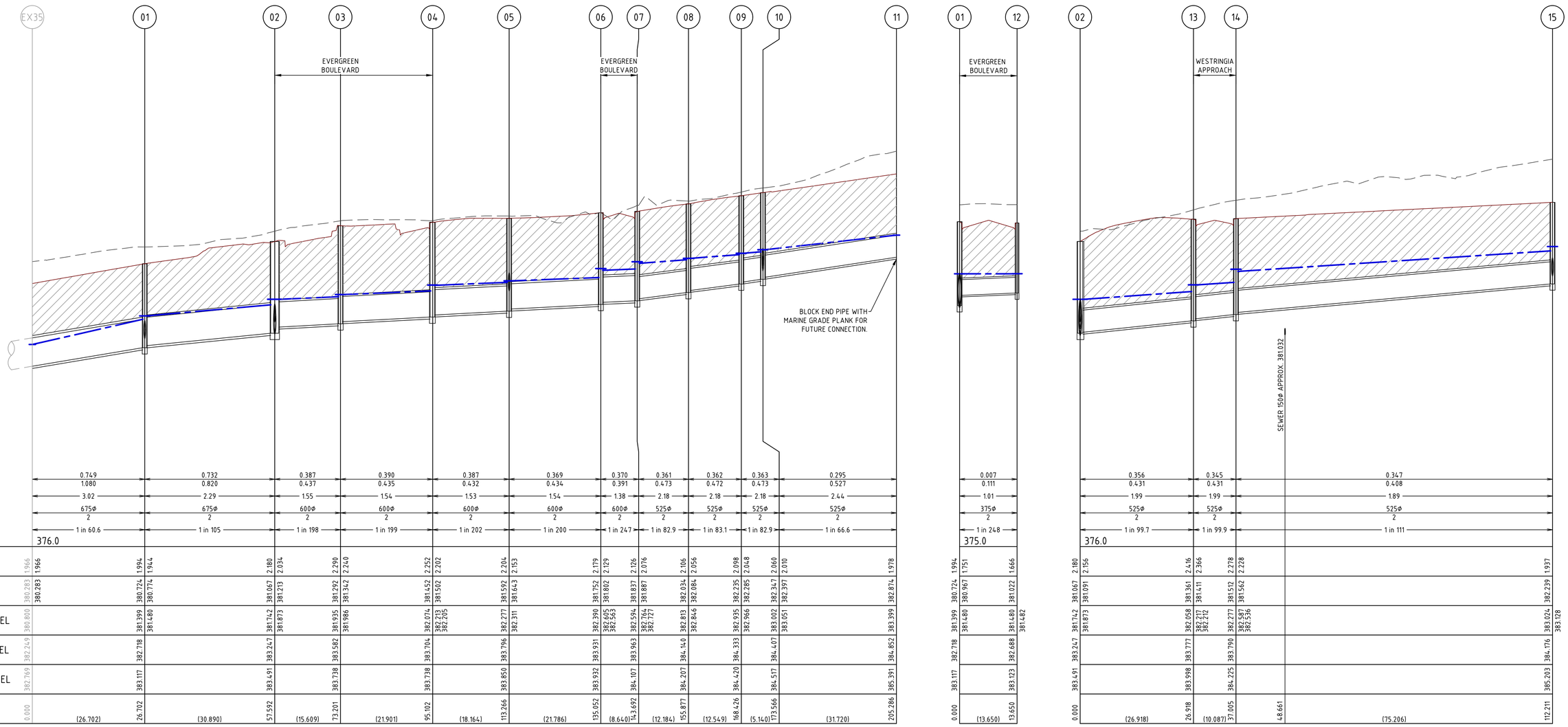
CLIENT: JINDING
APPROVED: PE 0005549
DESIGNED: A. MAY
SCALE: 1:500

PROJECT: BROADSTEAD - STAGE 02
TITLE: SIGNAGE & LINEMARKING PLAN (SHEET 2 OF 2)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-351
REVISION: B
ORIGINAL SIZE: A1

C:\3265\data\3265\3265-02_253\Design\Acad\3265-02-350.LMP dwg 6/26/2024 5:55 PM KEN LEE

DENOTES 20mm CLASS 3 FCR BACKFILL.

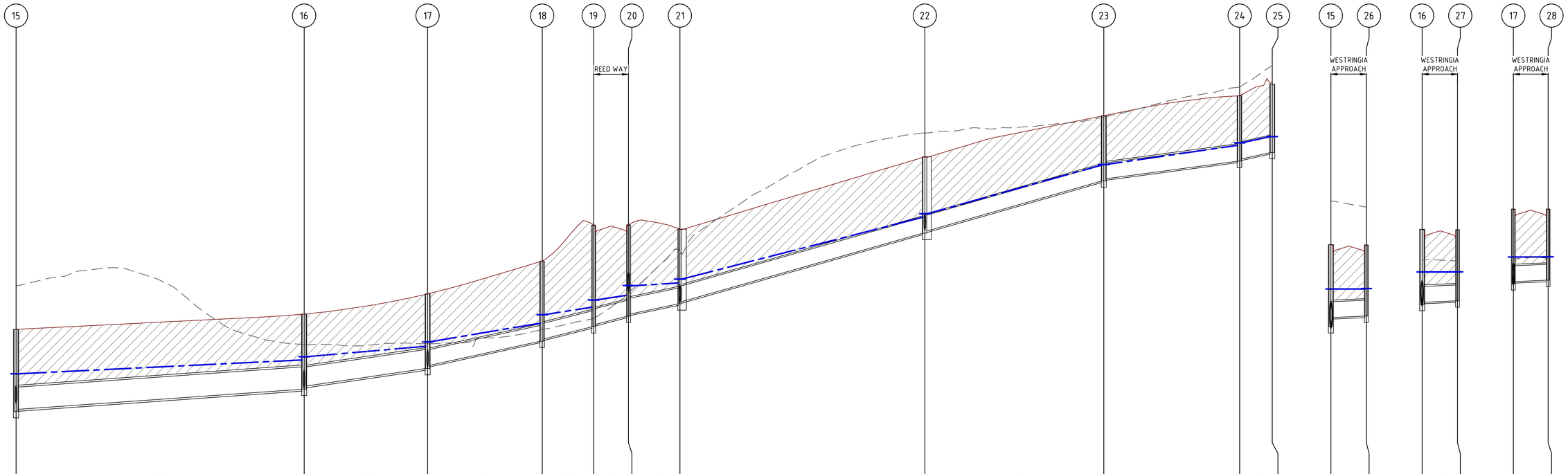
NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.



| | | |

DENOTES 20mm CLASS 3 FCR BACKFILL.

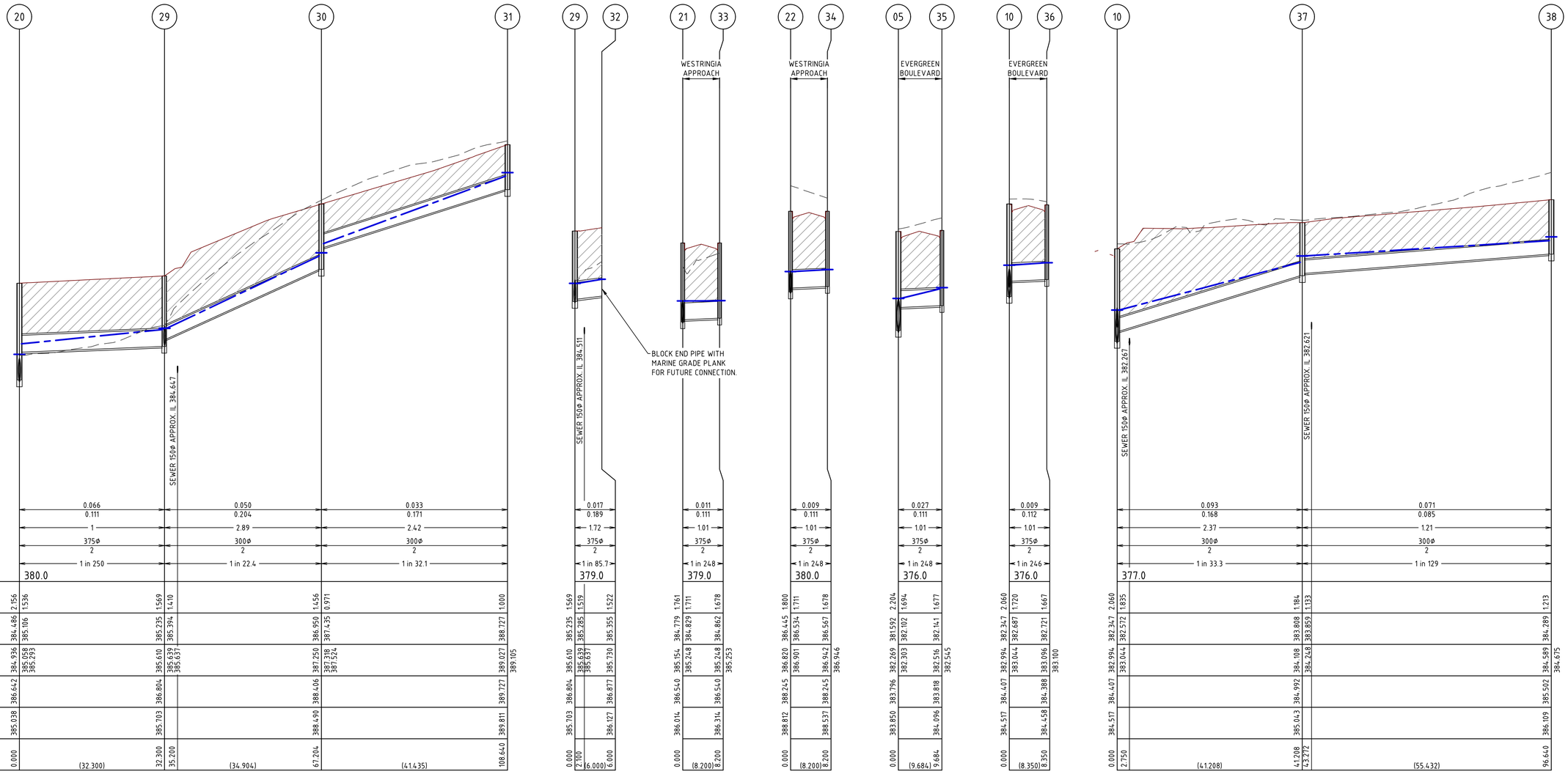
NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.



| | | |

DENOTES 20mm CLASS 3 FCR BACKFILL.

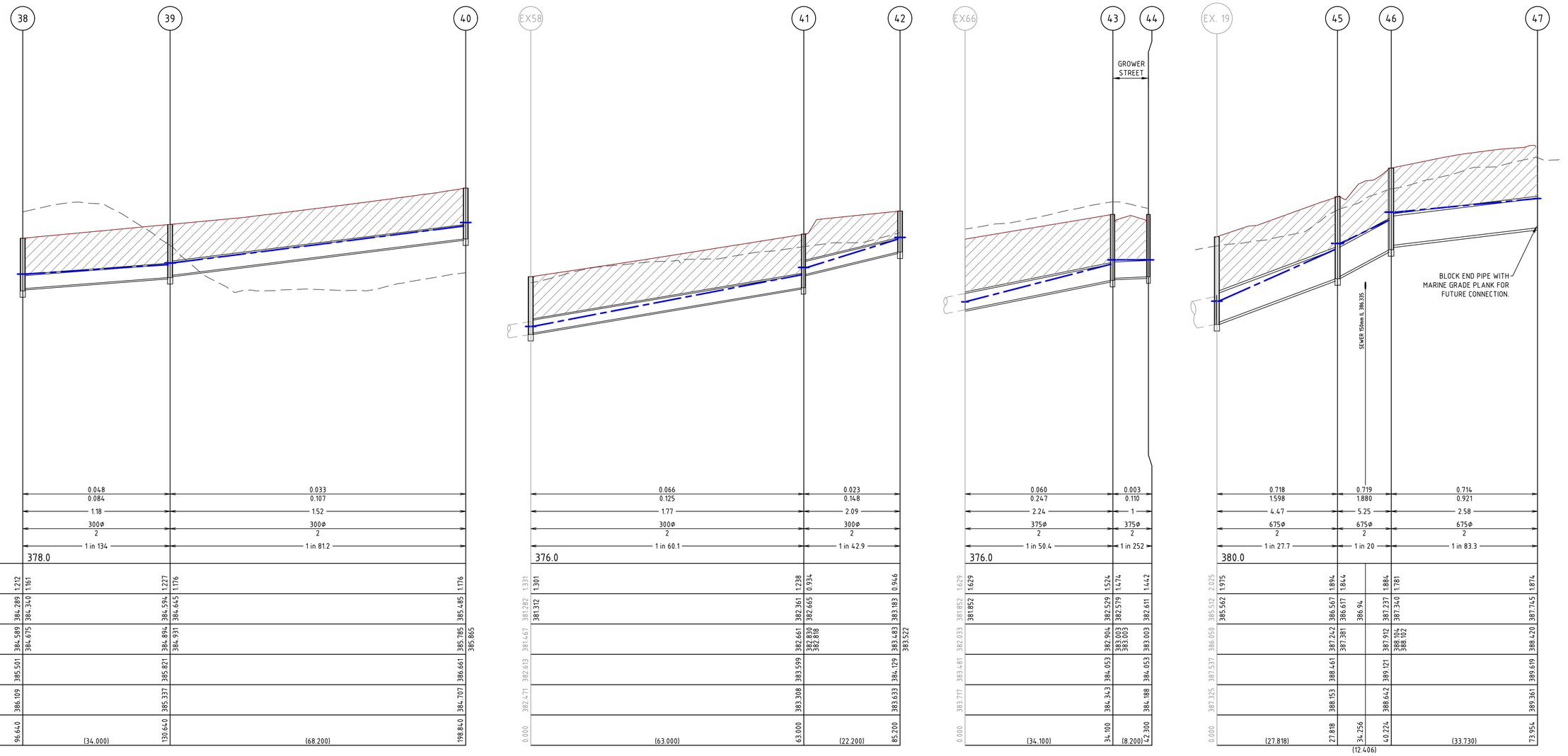
NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.



| | | |

DENOTES 20mm CLASS 3 FCR BACKFILL.

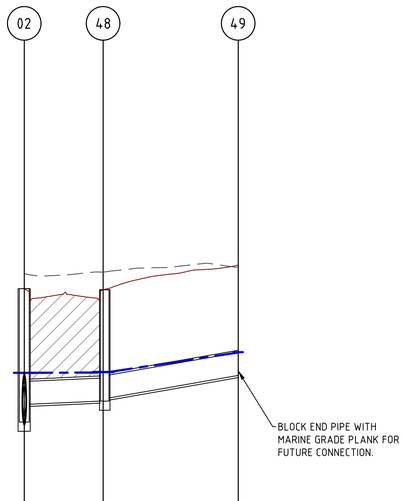
NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.



| | | |

DENOTES 20mm CLASS 3 FCR BACKFILL.

NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.



PIPE FLOW (m3/s)		0.033		0.022		
PIPE CAPACITY (m3/s)		0.111		0.227		
PIPE VELOCITY (m/s)		1.01		2.05		
PIPE DIAMETER (mm)		375ø		375ø		
PIPE CLASS		2		2		
PIPE GRADE		1 in 248		1 in 59.9		
DATUM RL		375.0				
DEPTH TO INVERT	2.180	2.187	1.818	1.768	1.799	
DESIGN INVERT LEVEL	381.067	381.360	381.472	381.462	381.830	
HYDRAULIC GRADE LEVEL	381.742	381.873	381.878	381.886	382.205	382.209
FINISHED SURFACE LEVEL	383.247		383.230		383.629	
EXISTING SURFACE LEVEL	383.491		383.515		383.596	
PIPE CHAINAGE	0.000		12.876		34.918	
(Reach Length)		(12.876)		(22.043)		

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
B	26.06.24	NT			ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

H 1:500
SCALE @ A1
V 1:50
0 10 20 30m
0 1 2 3m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED PE 0005549
DESIGNED A. MAY
SCALE AS SHOWN

PROJECT: BROADSTEAD - STAGE 02
TITLE: DRAINAGE LONGITUDINAL SECTIONS (SHEET 5 OF 5)
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No. PLP430/22
DRAWING No. 3265-02-404
REVISION B
ORIGINAL SIZE A1

C:\12d\5\data\FSD3\3265-02_JS3\Design\Acad\3265-02-400 DLS.dwg 6/26/2024 4:22 PM KEN LEE

PIT SCHEDULE

PIT NAME	TYPE	EASTING	NORTHING	INTERNAL WIDTH	INTERNAL LENGTH	INLET DIA	INLET IL	OUTLET DIA	OUTLET IL	PIT SETOUT RL	PIT DEPTH	REMARKS
Ex35	Ex ENDPIPE	319915.247	5868248.803			675	380.283			382.249	1.966	UNBLOCK EXISTING END PIPE AND CONNECT NEW DRAIN AT GRADE.
1	SIDE ENTRY PIT	319933.904	5868229.700	900	900	675	380.774	675	380.724	382.718	1.994	
						375	380.967					
2	DOUBLE SIDE ENTRY PIT	319954.721	5868206.987	1200	1900	600	381.213	675	381.067	383.247	2.180	DOUBLE SIDE ENTRY PIT ON BACK OF KERB AS PER IDM SD450. HAUNCHED TOWARDS NATURE STRIP.
						525	381.091					
						375	381.360					
3	JUNCTION PIT	319964.674	5868195.096	900	900	600	381.342	600	381.292	383.582	2.290	JUNCTION PIT WITHIN ROAD RESERVE. HAUNCHED AWAY FROM KERB. CLASS D LID.
4	SIDE ENTRY PIT	319966.292	5868173.357	1200	900	600	381.502	600	381.452	383.704	2.252	
5	SIDE ENTRY PIT	319982.667	5868165.711	900	900	600	381.643	600	381.592	383.796	2.204	
						375	382.102					
6	JUNCTION PIT	320000.544	5868153.269	900	900	600	381.802	600	381.752	383.931	2.179	JUNCTION PIT ON BACK OF KERB
7	JUNCTION PIT	320005.807	5868160.102	900	900	525	381.887	600	381.837	383.963	2.126	JUNCTION PIT ON BACK OF KERB
8	JUNCTION PIT	320017.082	5868155.492	900	900	525	382.084	525	382.034	384.140	2.106	JUNCTION PIT ON BACK OF KERB
9	JUNCTION PIT	320029.350	5868152.866	900	900	525	382.285	525	382.235	384.333	2.098	JUNCTION PIT ON BACK OF KERB
10	SIDE ENTRY PIT	320034.448	5868152.204	900	900	525	382.397	525	382.347	384.407	2.06	
						375	382.687					
						300	382.572					
11	END OF LINE	320065.903	5868148.117					525	382.874	384.852	1.978	BLOCKED END PIPE WITH MARINE GRADE PLYWOOD FOR FUTURE CONNECTION IN STAGE 03A
12	SIDE ENTRY PIT	319924.139	5868220.163	600	900			375	381.022	382.688	1.666	
13	SIDE ENTRY PIT	319980.954	5868211.183	900	900	525	381.411	525	381.361	383.777	2.416	
14	SIDE ENTRY PIT	319987.976	5868203.952	900	900	525	381.562	525	381.512	383.790	2.278	
15	SIDE ENTRY PIT	320041.779	5868256.499	900	900	525	382.289	525	382.239	384.176	1.937	
						375	382.455					
16	SIDE ENTRY PIT	320090.356	5868303.941	900	900	450	382.840	525	382.765	384.536	1.771	
						375	382.815					
17	SIDE ENTRY PIT	320111.069	5868324.380	600	900	375	383.327	450	383.252	385.013	1.761	
						375	383.302					
18	JUNCTION PIT	320130.400	5868343.259	600	900	375	383.947	375	383.897	385.787	1.890	JUNCTION PIT ON BACK OF KERB
19	SIDE ENTRY PIT	320142.349	5868343.118	600	900	375	384.289	375	384.239	386.635	2.396	
20	SIDE ENTRY PIT	320148.215	5868348.847	600	900	375	384.536	375	384.486	386.642	2.156	
						375	385.106					
21	SIDE ENTRY PIT	320148.356	5868360.796	600	900	375	384.829	375	384.779	386.540	1.761	
						375	384.829					
22	SIDE ENTRY PIT	320189.014	5868400.504	600	900	375	386.495	375	386.445	388.245	1.800	
						375	386.534					
23	SIDE ENTRY PIT	320218.541	5868429.342	600	900	375	387.726	375	387.676	389.215	1.539	
24	JUNCTION PIT	320241.458	5868451.723	600	900	375	388.193	375	388.143	389.685	1.542	JUNCTION PIT ON BACK OF KERB
25	GRATED PIT	320248.897	5868450.069	600	900			375	388.346	389.960	1.614	FIT WITH GRATED BIKE SAFE LID TO RECEIVE DISCHARGE FROM OPEN SWALE.
26	SIDE ENTRY PIT	320035.945	5868262.473	600	900			375	382.489	384.167	1.678	

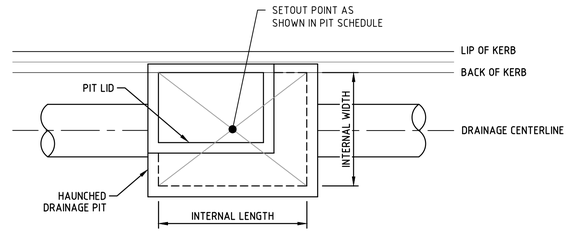
PIT SCHEDULE

PIT NAME	TYPE	EASTING	NORTHING	INTERNAL WIDTH	INTERNAL LENGTH	INLET DIA	INLET IL	OUTLET DIA	OUTLET IL	PIT SETOUT RL	PIT DEPTH	REMARKS
27	SIDE ENTRY PIT	320084.521	5868309.915	600	900			375	382.849	384.527	1.678	
28	SIDE ENTRY PIT	320105.34	5868330.247	600	900			375	383.335	385.014	1.679	
29	JUNCTION PIT	320170.783	5868325.739	600	900	300	385.394	375	385.235	386.804	1.569	JUNCTION PIT ON BACK OF KERB
						375	385.285					
30	JUNCTION PIT	320195.754	5868350.127	600	900	300	387.435	300	386.950	388.406	1.456	JUNCTION PIT IN EASEMENT
31	JUNCTION PIT	320225.398	5868379.078	600	900			300	388.727	389.727	1.000	JUNCTION PIT IN EASEMENT
32	END OF LINE	320174.976	5868321.447					375	385.355	386.873	1.518	BLOCK END PIPE WITH MARINE GRADE PLYWOOD FOR FUTURE CONNECTION IN STAGE 03A
33	SIDE ENTRY PIT	320142.627	5868366.663	600	900			375	384.862	386.540	1.678	
34	SIDE ENTRY PIT	320183.284	5868406.370	600	900			375	386.567	388.245	1.678	
35	SIDE ENTRY PIT	319990.477	5868171.418	600	900			375	382.141	383.818	1.677	
36	SIDE ENTRY PIT	320033.372	5868143.924	600	900			375	382.721	384.388	1.667	
37	JUNCTION PIT	320039.757	5868193.069	600	900	300	383.859	300	383.808	384.991	1.183	JUNCTION PIT IN EASEMENT
38	JUNCTION PIT	320079.159	5868231.922	600	900	300	384.340	300	384.289	385.501	1.212	JUNCTION PIT IN EASEMENT
39	JUNCTION PIT	320103.483	5868255.678	600	900	300	384.645	300	384.594	385.821	1.227	JUNCTION PIT IN EASEMENT
40	JUNCTION PIT	320152.274	5868303.329	600	900			300	385.485	386.661	1.176	JUNCTION PIT IN EASEMENT
Ex. 58	JUNCTION PIT	319918.510	5868293.221	600	900	300	381.312			382.613	1.331	CONSTRUCT JUNCTION PIT IN EASEMENT OVER EXISTING END PIPE
41	JUNCTION PIT	319962.514	5868248.137	600	900	300	382.665	300	382.361	383.599	1.238	JUNCTION PIT IN EASEMENT
42	JUNCTION PIT	319978.396	5868263.648	600	900			300	383.183	384.129	0.946	JUNCTION PIT IN EASEMENT
Ex.66	END PIPE	319977.150	5868310.795			375	381.852			383.481	1.629	UNBLOCK EXISTING END PIPE AND CONNECT NEW DRAIN AT GRADE.
43	SIDE ENTRY PIT	320000.869	5868286.294	600	900	375	382.579	375	382.529	384.053	1.524	
44	SIDE ENTRY PIT	319995.002	5868280.565	600	900			375	382.611	384.053	1.442	
Ex. 19	JUNCTION PIT	320180.835	5868456.070	900	900	675	385.512			387.537	2.025	UNBLOCK EXISTING END PIPE AND CONSTRUCT JUNCTION PIT ON BACK OF KERB OVER EXISTING PIPE
45	SIDE ENTRY PIT	320200.379	5868436.274	900	1200	675	386.617	675	386.567	388.461	1.894	
46	SIDE ENTRY PIT	320212.497	5868435.530	900	1500	675	387.340	675	387.237	389.121	1.884	
47	END OF LINE	320236.724	5868458.999					675	387.745	389.619	1.581	BLOCK END PIPE WITH MARINE GRADE PLYWOOD & PROVIDE MARKER POST FOR FUTURE CONNECTION BY UPSTREAM DEVELOPER
48	DOUBLE SIDE ENTRY PIT	319945.592	5868198.042	900	1900	375	381.462	375	381.412	383.230	1.818	DOUBLE SIDE ENTRY PIT ON BACK OF KERB AS PER IDM SD450
49	END OF LINE	319946.885	5868176.120					375	381.830	383.629	1.799	BLOCKED END PIPE WITH MARINE GRADE PLYWOOD FOR FUTURE CONNECTION IN STAGE 03A. PROVIDE MARKER POST.

NOTES:

1. ALL DRAINAGE WORKS TO BE IN ACCORDANCE WITH THE INFRASTRUCTURE DESIGN MANUAL (IDM) AND ASSOCIATED STANDARD DRAWINGS AS REFERENCED WITHIN THE PIT SCHEDULE.
2. STANDARD DRAWINGS REFER TO IDM UNLESS SPECIFIED OTHERWISE.
   A. JUNCTION PITS ON BACK OF KERB/WITHIN ROAD RESERVES AS PER IDM SD420.
   B. JUNCTION PITS IN EASEMENTS AS PER IDM SD425.
   C. SIDE ENTRY PITS IN B2 KERBS AS PER IDM SD430.
3. PITS DEEPER THAN 1.00m SHALL BE FITTED WITH STEP IRONS AS PER VICROADS SD 1041.
4. COVER LEVELS ARE TO BE SET TO MATCH THE FINISHED SURFACE PROFILES AND ADJACENT CONSTRUCTION. COVER TYPE IS TO BE AS PER STANDARD DRAWING REFERENCED UNLESS SPECIFIED OTHERWISE.
5. PITS ARE TO BE HAUNCHED TOWARDS THE NATURE STRIP, TO THE INTERNAL WIDTH/LENGTH SPECIFIED IN THE PIT SCHEDULE IN ACCORDANCE WITH IDM SD410 UNLESS SPECIFIED OTHERWISE.
6. END PIPES ARE TO BE BLOCKED TO COUNCIL SATISFACTION WITH MARINE GRADE PLYWOOD OR SIMILAR.
7. SET OUT COORDINATES PROVIDED ARE TO THE CENTRE OF THE PIT BASE AS PER SETOUT DETAIL.

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024



TYPICAL AT BACK OF KERB SETOUT DETAIL - FOR DRAINAGE PITS
WHERE SPECIFIED 'AT BOK'
NOT TO SCALE

REV	DATE	DRN	CKD	APP	AMENDMENT
B	01.07.24	NT			ISSUED FOR APPROVAL
A	16.05.24	NT	KCL	B. J-MONCK	INITIAL ISSUE

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

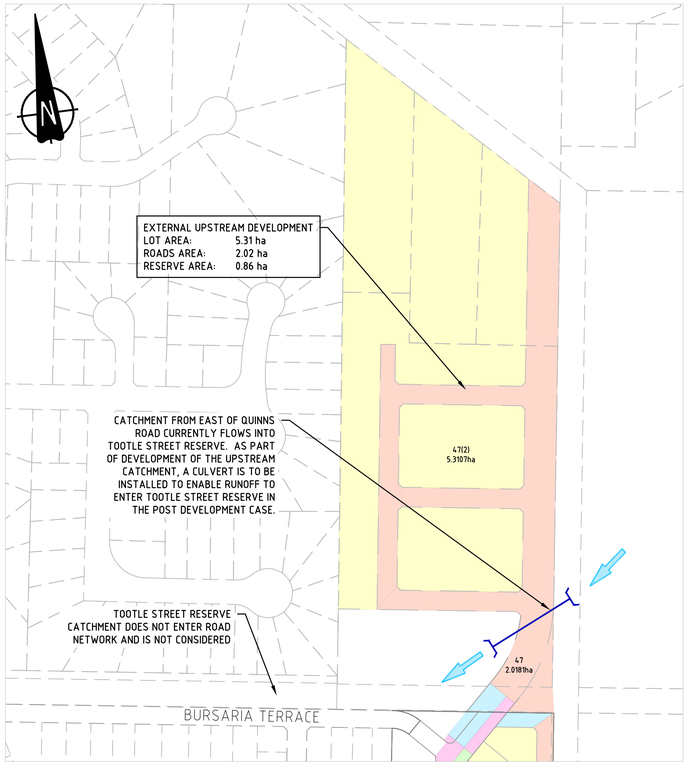
Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED PE 0005549
DESIGNED: A. MAY
SCALE: N.T.S.

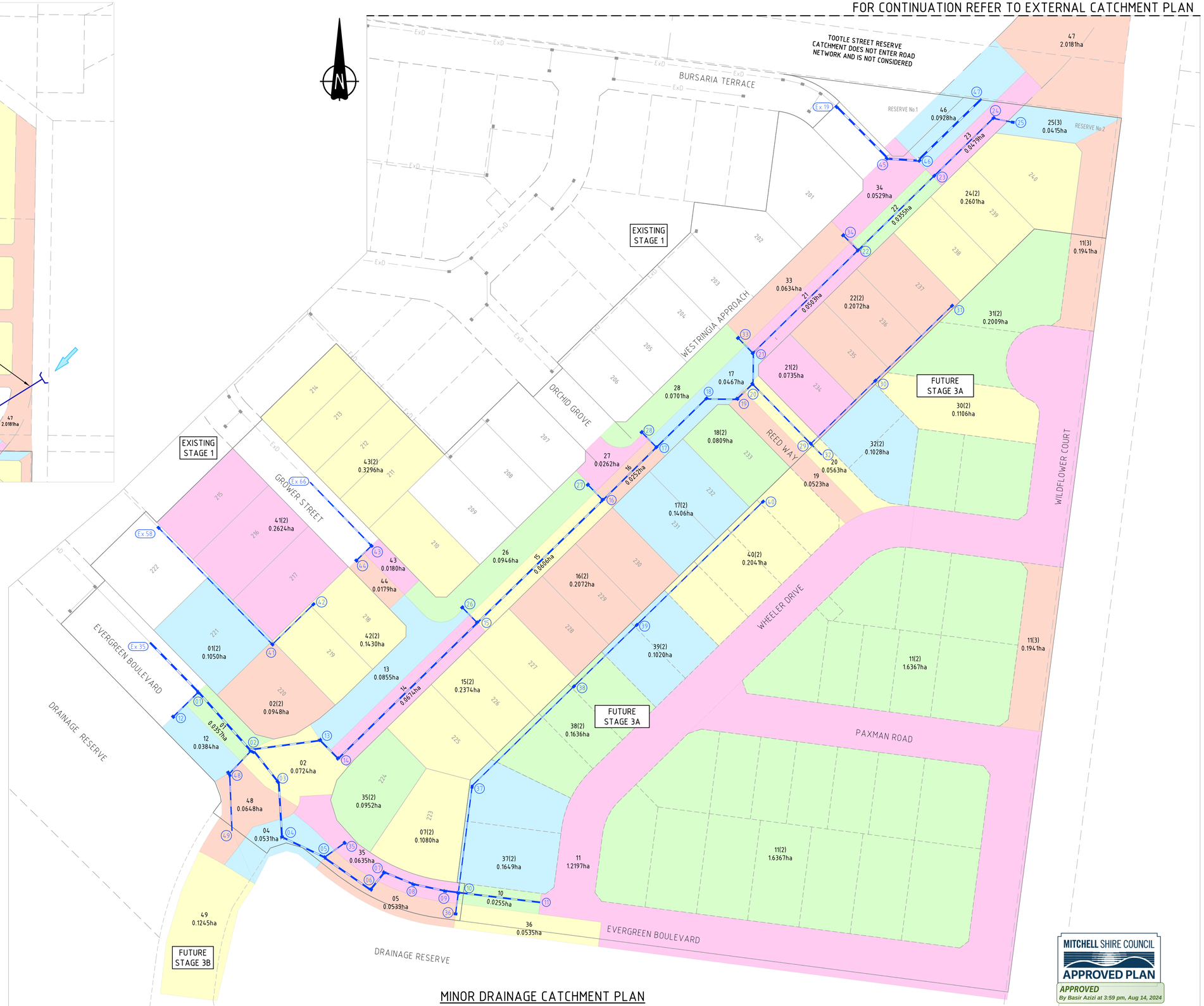
PROJECT: BROADSTEAD - STAGE 02
TITLE: DRAINAGE PIT SCHEDULE
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No. PLP430/22
DRAWING No. 3265-02-420
REVISION B
ORIGINAL SIZE A1

C:\12651\data\F50\3265-02_1530\Design\Arcet\3265-02-420 DLS.dwg 7/1/2024, 8:20 AM ADAM MAY

FOR CONTINUATION REFER TO EXTERNAL CATCHMENT PLAN



EXTERNAL CATCHMENT PLAN
SCALE 1:2500 @ A1



MINOR DRAINAGE CATCHMENT PLAN
SCALE 1:750

MINOR RUNOFF COEFFICIENTS	
ROAD RESERVES	0.750
LOTS (2)	0.700
COUNCIL RESERVES (3)	0.350
AS PER IDM VERSION 5.4	

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
A	01.07.24	NT			INITIAL ISSUE

FOR INFORMATION ONLY

H 1:750 SCALE @ A1 — 0 15 30 45
H 1:2500 SCALE @ A1 — 0 50 100 150m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road Melbourne VIC 3004
W cossillwebley.com.au
T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED PE 0005549
DESIGNED: A. MAY
SCALE: AS SHOWN

PROJECT: BROADSTEAD - STAGE 02
TITLE: 5 YEAR ARI CATCHMENT
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-430
REVISION: A
ORIGINAL SIZE: A1

C:\1Dfs\data\Fs\93\3265-02_fs\3\Design\Arcad\3265-02-430 5YR.dwg 7/1/2024 8:10 AM ADAM MAY

BROADSTEAD STAGE 02

MINOR DRAINAGE COMPUTATIONS

AEP 20%

DESIGNED BY A. MAY

DATE 14.05.24

Cossill & Webley CONSULTING ENGINEERS

Pit Number	D/S Structure	CATCHMENT								Pipe Size	Pipe Length	Pipe Grade	Tc	Intensity	Pipe Flow	Pipe Velocity	Pipe Capacity	Q/Qf	Pit K	Pipe Vel Head	HGL Grade	Pipe Total Loss	Freeboard
		Area 1	CofR1	Area 2	CofR2	Area 3	CofR3	Ae	Sum Ae														
		(ha)		(ha)		(ha)		(ha)	(ha)	(mm)	(m)	(1 in)	(min)	(mm/hr)	(l/s)	(m/s)	(l/s)			(m)	(1 in)	(m)	(m)
Ex35																							
1	Ex35	0.0360	0.75	0.105	0.70			0.1000	5.0860	675	26.702	60.6	19.61	47.33	748.90	3.02	1080.20	0.69	0.36	0.2230	44.6	0.491	1.238
2	1	0.0720	0.75	0.095	0.70			0.1210	4.9570	675	30.890	105.3	19.39	47.70	732.20	2.29	819.70	0.89	0.61	0.2140	117.5	0.263	1.374
3	2							0.0000	2.9020	600	15.609	197.6	19.22	47.98	386.80	1.55	437.00	0.89	0.53	0.0950	252.3	0.062	1.596
4	3	0.0530	0.75					0.0400	2.9020	600	21.901	199.1	18.98	48.37	389.90	1.54	435.30	0.90	1.35	0.0970	248.2	0.088	1.491
5	4	0.0540	0.75					0.0400	2.8620	600	18.164	201.8	18.79	48.69	387.10	1.53	432.40	0.90	0.36	0.0960	251.8	0.072	1.485
6	5							0	2.707	600	21.786	199.9	18.55	49.08	369.1	1.536699	434.5	0.85	1.99	0.087	277	0.079	1.326
7	6			0.108	0.7			0.076	2.707	600	8.64	246.9	18.45	49.25	370.4	1.382766	391	0.95	1.52	0.088	275	0.031	1.199
8	7							0	2.632	525	12.184	82.9	18.35	49.4	361.2	2.183051	472.6	0.76	0.23	0.142	141.9	0.086	1.294
9	8							0	2.632	525	12.549	83.1	18.26	49.56	362.3	2.180178	472	0.77	0.21	0.143	141	0.089	1.367
10	9	0.025	0.75					0.019	2.632	525	5.14	82.9	18.22	49.62	362.8	2.182747	472.5	0.77	0.34	0.143	140.6	0.037	1.356
11	10	1.22	0.75	1.637	0.7	0.194	0.35	2.128	2.128	525	31.72	66.6	18	49.98	295.5	2.436239	527.4	0.56	0	0.095	91.2	0.348	1.453
12	1	0.038	0.75					0.029	0.029	375	13.65	248.2	6	84.3	6.7	1.0081	111.3	0.06	9.7	0	67714.6	0	1.206
13	2	0.086	0.75					0.064	1.792	525	26.918	99.7	9.06	70.9	356.2	1.990518	430.9	0.83	1.12	0.138	145.9	0.185	1.56
14	13	0.067	0.75					0.051	1.728	525	10.087	99.9	8.97	71.2	344.8	1.988818	430.5	0.8	2	0.129	155.7	0.065	1.213
15	14	0.061	0.75	0.237	0.7			0.212	1.677	525	75.206	111.1	8.31	73.73	346.6	1.885716	408.2	0.85	0.8	0.131	154.1	0.488	1.048
16	15	0.025	0.75	0.207	0.7			0.164	1.395	525	67.9	142.6	7.63	76.54	298.6	1.664081	360.2	0.83	0.79	0.097	207.6	0.327	1.005
17	16	0.047	0.75	0.141	0.7			0.133	1.211	450	29.1	70.6	7.4	77.54	262.1	2.133905	339.4	0.77	0.76	0.139	118.4	0.246	1.131
18	17			0.081	0.7			0.057	1.025	375	27.02	47.4	7.21	78.39	223.9	2.306672	254.8	0.88	0.95	0.21	61.4	0.44	1.265
19	18	0.052	0.75					0.039	0.969	375	12.126	41.5	7.12	78.76	212.4	2.464471	272.2	0.78	0.9	0.189	68.2	0.178	1.767
20	19	0.056	0.75					0.042	0.929	375	8.2	41.6	7.07	79	204.5	2.461584	271.9	0.75	1.26	0.175	73.6	0.111	1.431
21	20	0.05	0.75	0.074	0.7			0.089	0.597	375	12.126	49.9	6.98	79.41	132.2	2.248206	248.3	0.53	1.27	0.073	176	0.069	1.178
22	21	0.035	0.75	0.207	0.7			0.172	0.46	375	57.73	35.7	6.62	81.22	104.2	2.657465	293.5	0.35	1.78	0.045	39.6	1.458	1.344
23	22	0.048	0.75					0.036	0.249	375	42.173	35.7	6.35	82.54	57.3	2.657465	293.5	0.2	0.86	0.014	36.7	1.15	1.152
24	23			0.26	0.7			0.182	0.213	375	32.033	76.9	6.06	84.02	49.9	1.810757	200	0.25	5.58	0.01	70.5	0.453	1.109
25	24					0.041	0.75	0.031	0.031	375	7.673	50	6	84.3	7.3	2.245966	248.1	0.03	7	0	52.8	0.145	1.237
26	15	0.095	0.75					0.071	0.071	375	8.35	245.6	6	84.3	16.6	1.013409	111.9	0.15	8.45	0.001	11150	0.001	1.029
27	16	0.026	0.75					0.02	0.02	375	8.35	245.6	6	84.3	4.6	1.013409	111.9	0.04	7.97	0	144860	0	0.995
28	17	0.07	0.75					0.053	0.053	375	8.2	248.5	6	84.3	12.3	1.007485	111.3	0.11	9.7	0.001	20302.4	0	1.125
29	20							0	0.29	375	32.3	250.4	6.49	81.86	65.9	1.00365	110.8	0.59	1.51	0.018	101.9	0.262	1.165
30	29			0.111	0.7			0.077	0.218	300	34.904	22.4	6.29	82.87	50.2	2.889663	204.3	0.25	2.25	0.026	21.6	1.604	1.088
31	30			0.201	0.7			0.141	0.141	300	41.435	32.1	6	84.3	32.9	2.416723	170.8	0.19	7	0.011	27.6	1.336	0.622
32	29			0.103	0.7			0.072	0.072	375	6	85.7	6	84.3	16.8	1.715386	189.5	0.09	0	0.001	64.8	0.093	1.143
33	21	0.063	0.75					0.048	0.048	375	8.2	248.5	6	84.3	11.1	1.007485	111.3	0.1	9.7	0.001	24842.6	0	1.173
34	22	0.053	0.75					0.04	0.04	375	8.2	248.5	6	84.3	9.3	1.007485	111.3	0.08	9.7	0	201.2	0.041	1.299
35	5	0.064	0.75	0.095	0.7			0.114	0.114	375	9.684	248.3	6	84.3	26.8	1.007834	111.3	0.24	9.7	0.003	47.2	0.199	1.273
36	10	0.054	0.75					0.04	0.04	375	8.35	245.6	6	84.3	9.4	1.013408	111.9	0.08	9.7	0	185.4	0.045	1.288
37	10			0.165	0.7			0.115	0.444	300	41.208	33.3	7.99	74.93	92.7	2.370272	167.5	0.55	1.6	0.088	39	1.057	0.743
38	37			0.164	0.7			0.115	0.329	300	55.432	128.9	7.23	78.3	71.5	1.205418	85.2	0.84	1.64	0.052	162.6	0.341	0.826
39	38			0.102	0.7			0.071	0.214	300	34	133.9	6.75	80.56	47.9	1.182931	83.6	0.57	1.56	0.023	155.2	0.219	0.89
40	39			0.204	0.7			0.143	0.143	300	68.2	81.2	6	84.3	33.5	1.5189	107.4	0.31	7	0.011	79.8	0.854	0.796
Ex. 58																							
41	Ex. 58			0.262	0.7			0.184	0.284	300	63	60.1	6.18	83.42	65.8	1.765993	124.8	0.53	3.56	0.044	52.8	1.075	0.769
42	41			0.143	0.7			0.1	0.1	300	22.2	42.9	6	84.3	23.4	2.090597	147.8	0.16	7	0.006	33.4	0.649	0.607
Ex.66																							
43	Ex.66	0.018	0.75	0.33	0.7			0.244	0.258	375	34.1	50.4	6.14	83.62	60.3	2.23753	247.1	0.24	6.51	0.015	39.2	0.82	1.05
44	43	0.018	0.75					0.013	0.013	375	8.2	252	6	84.3	3.2	1.000402	110.5	0.03	9.7	0	309799.6	0	1.05
Ex. 19																							
45	Ex. 19							0	5.301	675	27.818	27.7	18.76	48.74	717.6	4.466769	1598.4	0.45	0.68	0.205	23.3	1.055	1.08
46	45	0.093	0.75					0.07	5.301	675	12.406	20	18.72	48.8	718.6	5.254788	1880.4	0.38	0.92	0.206	23.4	0.531	1.017
47	46	2.018	0.75	5.311	0.7			5.231	5.231	675	33.73	83.3	18.5	49.16	714.3	2.575057	921.5	0.78	0	0.203	106	0.318	1.199
48	2	0.065	0.75					0.049	0.142	375	12.876	247.6	6.18	83.4	32.9	1.009268	111.5	0.3	1.83	0.005	2841.2	0.005	1.344
49	48	0.125	0.75					0.093	0.093	375	22.043	59.9	6	84.3	21.9	2.052007	226.6	0.1	2	0.002	69.1	0.319	1.42

MITCHELL SHIRE COUNCIL APPROVED PLAN

APPROVED By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
A	02.07.24	NT			INITIAL ISSUE

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT JINDING

APPROVED PE 0005549

DESIGNED A. MAY

SCALE AS SHOWN

PROJECT BROADSTEAD - STAGE 02

TITLE 5 YEAR DRAINAGE CALCULATIONS

MUNICIPALITY MITCHELL SHIRE COUNCIL

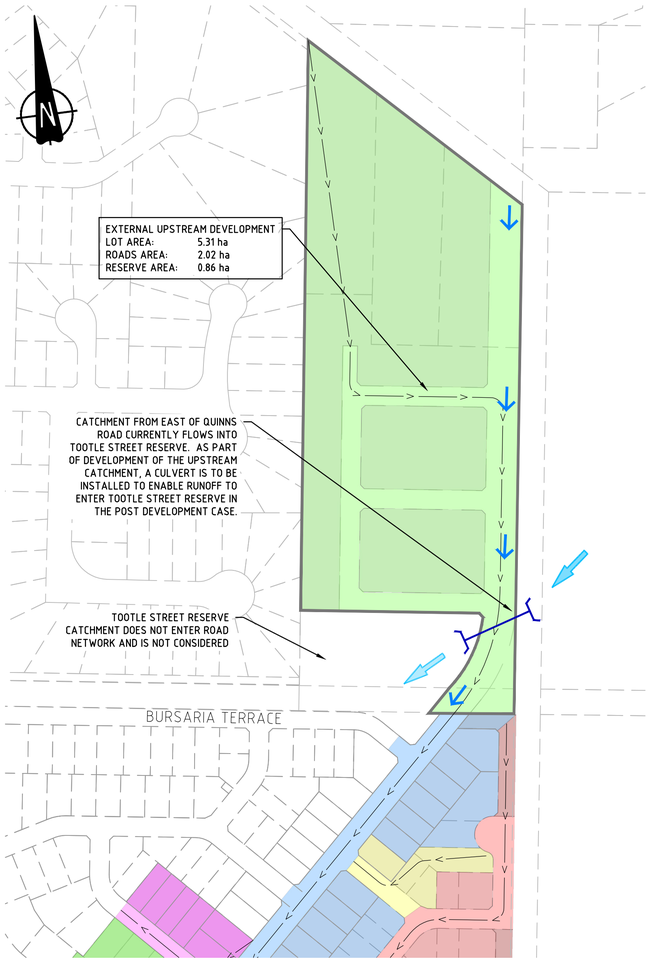
PP No. PLP430/22

DRAWING No. 3265-02-440

REVISION A

ORIGINAL SIZE A1

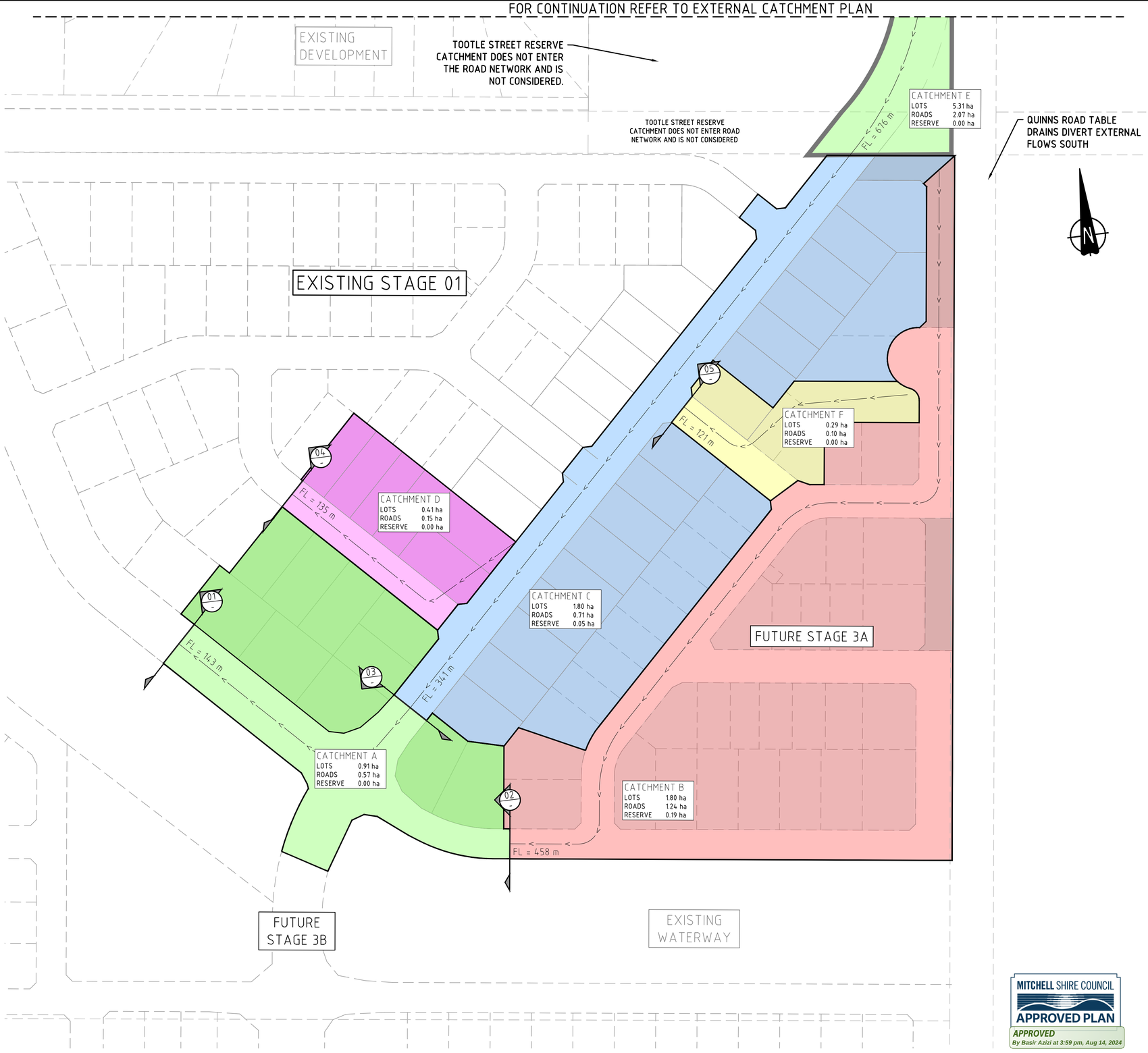
C:\3265\data\FS\03\3265-02_FS3\Design\Arcad\3265-02-435 SYR.dwg 7/2/2024, 2:43 PM KEN.LEE



EXTERNAL CATCHMENT PLAN

SCALE 1:2500 @ A1

MAJOR RUNOFF COEFFICIENTS	
ROAD RESERVES	0.750
LOTS (2)	0.700
COUNCIL RESERVES (3)	0.350
AS PER IDM VERSION 5.4	



MAJOR DRAINAGE CATCHMENT PLAN

SCALE 1:1000

MITCHELL SHIRE COUNCIL
APPROVED PLAN
APPROVED
By Basir Azizi at 3:59 pm, Aug 14, 2024

REV	DATE	DRN	CKD	APP	AMENDMENT
A	01.07.24	NT			INITIAL ISSUE

H 1:1000 SCALE @ A1 — 0 20 40 60m
H 1:2500 SCALE @ A1 — 0 50 100 150m

COPYRIGHT
The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright.

This plan is not to be used for construction unless issued as revision 0 or higher

Cossill & Webley CONSULTING ENGINEERS
Street Address
Level 20, 390 St Kilda Road W cossillwebley.com.au
Melbourne VIC 3004 T (03) 8548 1560
E Melbourne.Reception@cosweb.com.au

CLIENT: JINDING
APPROVED: PE 0005549
DESIGNED: A. MAY
SCALE: AS SHOWN
PROJECT: BROADSTEAD - STAGE 02
TITLE: 100 YEAR ARI CATCHMENT
MUNICIPALITY: MITCHELL SHIRE COUNCIL
PP No.: PLP430/22
DRAWING No.: 3265-02-450
REVISION: A
ORIGINAL SIZE: A1

C:\3265\data\F5031\3265-02_F53\Design\Arcad\3265-02-450 100YR.dwg 1/2/2024 9:33 AM ADAM.MAY