

33. PRIOR TO THE COMPLETION OF THE WORKS ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A, F.R.V & E.S.B). MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND AN (RED TOPPED) WHITE POST.

34. AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWING 202.

35. ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.

36. ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINE MARKING SHALL BE IN ACCORDANCE WITH A.S.1742 - 1, 2 & 3. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD408.

37. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE IN ACCORDANCE WITH SECTION 95C OF THE HUME CITY COUNCIL SPECIFICATIONS. LATERAL WORKS AND ARROWS BEING COLORED APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.

38. ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A.S.1743 - 2001.

39. HOUSE DRAIN CONNECTIONS TO 150mm DIAMETER PIPES TO BE VIA A MANUFACTURED JUNCTION PIECE. 150mm DIAMETER STORMWATER PIPES ARE TO BE HEAVY DUTY SEWER GRADE. PVC PIPES SHALL BE BACKFILLED WITH 10mm MINUS F.C.R TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS.

40. 100mm HOUSE DRAIN CONNECTIONS TO BE LAID AT AN OFFSET OF 5.5m FROM THE LOW SIDE OF TITLE BOUNDARY ROAD FRONTAGE AND PROPERTY INLETS 1.0m FROM THE LOW SIDE OF TITLE BOUNDARY ROAD EASEMENTS UNLESS SHOWN OTHERWISE.

41. BLASTING GENERALLY IS NOT ENCOURAGED, HOWEVER BLASTING MAY BE REQUIRED AS A LAST RESORT DEPENDING ON GROUND CONDITIONS. COUNCIL IS TO BE NOTIFIED IN WRITING IF ANY BLASTING IS NECESSARY. RESIDENTS LIKELY TO BE AFFECTED BY THE BLASTING AND ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING PRIOR TO WORKS COMMENCING. COPIES OF THESE NOTIFICATIONS ARE TO BE SUBMITTED TO COUNCIL.

RESIDENT NOTIFICATION LETTER IS TO INCLUDE BLASTING GUIDELINES, FIRING AND MISFIRE PROCEDURES AND CONTRACTOR AND CONSULTANT CONTACT NAMES AND PHONE NUMBERS.

42. ALL BLASTING IS TO BE WITHIN THE LIMITS FOR AIR AND GROUND VIBRATION LEVELS AS SET DOWN IN A.S.2187.2-1993.

ALL BLASTS SHALL BE MONITORED FOR AIR AND NOISE VIBRATION AT POTENTIALLY AFFECTED RESIDENCES. "FORM A" FROM A.S. 2187.2-1993, AND WAVE TRACE COPIES ARE TO BE SUBMITTED TO COUNCIL FOR EACH BLAST.

BLASTING IS TO BE RESTRICTED TO BETWEEN 9:00am AND 3:30pm.

BLASTING IS NOT TO OCCUR ON WEEKENDS OR PUBLIC HOLIDAYS.

BLASTING AREA SIGNS ARE TO BE PLACED AT ALL ENTRANCES TO THE SITE.

42. FENCING TO BE PROVIDED ALONG LOT BOUNDARIES ABUTTING RESERVES TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY.

43. WHERE SOIC SOILS ARE ENCOUNTERED, SOIC SOIL INVESTIGATIONS SHOULD BE CARRIED OUT BY A QUALIFIED SOIL SCIENTIST AND THE RECOMMENDATIONS OF THE REPORT SHOULD BE APPLIED DURING ROAD & DRAINAGE DESIGN AND CONSTRUCTION.

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH V.P.A. AND HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.

2. COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRE-COMMENCEMENT MEETING BEING HELD BETWEEN HUME CITY COUNCIL, THE CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS AND PRIOR TO AN ONSITE PRE-COMMENCEMENT MEETING.

3. PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:

- a. SOURCE OF QUARRY MATERIAL.
- b. N.A.T.I.A. APPROVED TESTS RESULTS FOR THE F.C.R. THAT IS TO BE USED.
- c. IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED.

4. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND O.H.S. REGULATIONS 2007 HAVE BEEN AND WILL BE COMPLIED WITH ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL." APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.

6. THE DISPOSAL SITE FOR SPOIL REMOVAL FROM SITE AND TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS.

7. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND EXPOSED/PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS.

8. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

9. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.)

10. ALL CO-ORDINATES ARE TO MAP GRID OF AUSTRALIA - M.G.A. 2020 Zone 55

11. THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE EDMC MANUAL AND HUME CITY COUNCIL SPECIFICATIONS.

14. FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLAN. FILLING IS TO BE CLEAN CLAY COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.11-2003.

14. FILLING TO COMPLY WITH A.S.3798-2007, LEVEL 1 UNLESS SPECIFIED OTHERWISE.

14. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.

15. WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED.

16. NO TREE OR NATIVE VEGETATION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCIL'S SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNED ON SITE.

17. BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 15m DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA.

18. THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES / FENCES AND FOR ANY RETAINING WALLS OVER 1.0m IN HEIGHT.

19. ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATE TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER OR HIS REPRESENTATIVE.

20. PRIOR TO STATEMENT OF COMPLIANCE ALL DISTURBED AREAS (INCLUDING NATURE STRIPS, BATTERS, ALLOTMENTS WITH GRADES OF 15 AND GREATER, AND RESERVES) ARE TO BE REINSTATE TO A CLEAN, TIDY CONDITION, TOP DRESSED (100MM LOAMY TOP SOIL FREE OF RUBBISH, DEBRIS, CLUMPS, SODS AND CLAY LUMPS), LIGHTLY COMPACTED AND HYDRO MULCHED.

HYDROMULCH AND SEED MIX TO BE:

- 40KG/HA KIKUYU
- 200KG/HA TURF TYPE PERENNIAL RYE
- 100KG/HA FINE LEAF FESCUE
- 1,500KG/HA OF CELLULOSE FIBRE
- SOIL BINDER, SPECIFICALLY MANUFACTURED FOR HYDROMULCHING, USED AT MANUFACTURERS RECOMMENDED RATES. (E.G. ORGANIC GAUR TACKIFIERS @ 20 - 30 KG/GA, BASED ON, SITE CONDITIONS).

GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD, UNLESS OTHERWISE AGREED IN WRITING.

21. FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.

22. ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED.

23. ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.

24. ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20mm 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1-2003. ALL SERVICE CONDUITS TRENCHES UNDER FOOTPATH, VEHICULAR CROSSINGS, PARKING BAYS AND WITHIN 750MM OF PARKING BAYS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK.

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

26. WHERE NEW ASPHALT, CONCRETE KERB & CHANNEL, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.

27. ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.

28. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.

29. AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.

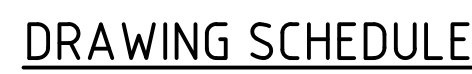
30. ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 3 F.R.C. COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1-2003. ALL DRAINS, SEWERS, GAS & WATER MAINS LAID THROUGH THE ROAD PAVEMENT (EXCEPT CONDUITS) ARE TO BE BACKFILLED WITH 20mm CLASS 2 FRC COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1-2003.

31. PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.11-2003.

32. ALL EXISTING ASSETS AFFECTED BY THE WORKS, E.G. SIGNS, VEHICLE CROSSINGS, FOOTPATHS, KERB AND LINEMARKING SHALL BE REINSTATE BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.

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BLASTING AREA SIGNS ARE TO BE PLACED AT ALL ENTRANCES TO THE SITE.
42. FENCING TO BE PROVIDED ALONG LOT BOUNDARIES ABUTTING RESERVES TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY.
43. WHERE SODIC SOILS ARE ENCOUNTERED, SODIC SOIL INVESTIGATIONS SHOULD BE CARRIED OUT BY A QUALIFIED SOIL SCIENTIST AND THE RECOMMENDATIONS OF THE REPORT SHOULD BE APPLIED DURING ROAD & DRAINAGE DESIGN AND CONSTRUCTION.

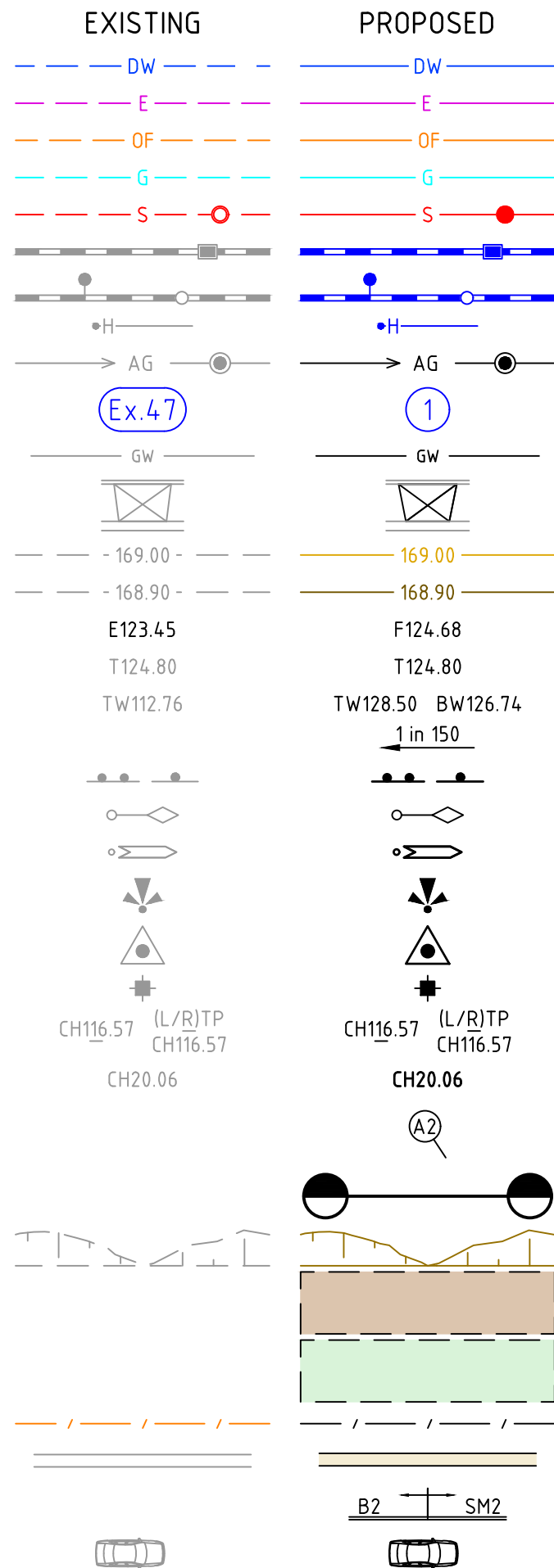
4. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS ARE INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
45. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
46. WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
47. ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH A.S.3798-2007. FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, A.S.3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
48. ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
49. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
50. T.B.M.'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 T.B.M.'S THEREAFTER.
51. AT LEAST THREE (3) DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
52. WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS 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. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION.
53. GAS AND WATER CONDUITS SIZES ARE AS FOLLOWS:
050mm CLASS 12 P.V.C. – SINGLE SERVICE
Ø100mm CLASS 12 P.V.C. – DUAL SERVICE (DRINKING AND NON DRINKING WATER)
WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
ROAD PAVEMENT – 0.80m
VERGE & FOOTPATHS – 0.45m
54. CENTRE LINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
55. WHERE CURVED PIPE ALIGNMENTS ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
56. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT.
57. TELSTRA IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
58. PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
59. WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
60. WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
61. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH A.S.1742-3.
62. THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.
63. CONTRACTOR TO ENSURE SEWER MANHOLES ARE WHOLLY LOCATED IN PROPOSED FOOTPATHS.
64. VEHICLE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH EDM 501 & 502



DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES	1	1
CR200	FACE PLAN	2	1
CR201	SERVICES PLAN	3	1
CR300	ROAD LONG SECTIONS	4	1
CR400	ROAD CROSS SECTIONS	5	1
CR500	INTERSECTION DETAILS	6	1
CR600	DRAINAGE LONG SECTIONS & PIT SCHEDULE	7	0
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	8	1
CR701	PAVEMENT AND TYPICAL DETAILS - SHEET 2	9	1
CR800	SIGNAGE AND LINEMARKING	10	1



DESCRIPTION
WATER MAIN, VALVE AND HYDRANT
UNDERGROUND ELECTRICITY
OPTIC FIBRE
GAS MAIN
SEWER & MAINTENANCE STRUCTURE
COUNCIL STORMWATER DRAIN AND PIT
STORM WATER DRAINAGE PROPERTY INLETS
HOUSE DRAIN
AG DRAIN AND FLUSHER
STORM WATER DRAINAGE PIT NUMBER
GAS & WATER CONDUITS
CONCRETE VEHICLE CROSSING
SURFACE CONTOUR MINOR
SURFACE CONTOUR MAJOR
SURFACE LEVEL
BATTER LEVEL (TOP / TOE)
RETAINING WALL LEVEL (TOP/BOTTOM)
EARTHWORKS GRADE
SIGN AND POST
LIGHT & POLE (BY OTHERS)
STREET SIGN
PERMANENT SURVEY MARK
TEMPORARY BENCH MARK
BOLLARD
ROAD CHAINAGES
LOT CHAINAGES
SETOUT POINT
LIMIT OF WORKS
BATTER
EXCAVATION GREATER THAN 0.20m
FILLING GREATER THAN 0.20m
FENCES
FOOTPATH
KERB TRANSITION
PARKED PASSENGER VEHICLE



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.

1	DRAWING SCHEDULE AMENDED	J.P	22/07/26
0	ISSUED FOR CONSTRUCTION	L.T	14/11/25
B	AMENDED AS PER COUNCIL COMMENTS	L.T	07/11/25
A	PRELIMINARY ISSUE	J.P.P.	20/05/25
Rev	Amendments	Approved	Date

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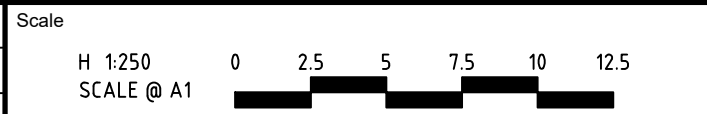
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J.POYNER
Date
20th February 2025

**REDSTONE
STAGE 11C**
ROAD AND DRAINAGE
GENERAL NOTES
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION Drg No Rev
305922-003CR100 1

File Name: 305922-003CR200.dwg, Layout: R200, Plotted: 9/17/2025, 9:50 AM by: Doreen, Project: SHEET 2 of 3, Location: C:\Users\spire\OneDrive\Documents\305922-003 - Redstone Stage 11C.dwg

1	LOTS 11101-11111, SERVICES, RESERVE FP UPDATED	J.P	22/07/26
0	ISSUED FOR CONSTRUCTION	L.T	14/11/25
B	CONCRETE HATCH AMENDED	L.T	07/11/25
A	PRELIMINARY ISSUE	J.P.P.	20/05/25
Rev	Amendments	Approved	Date



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villawood
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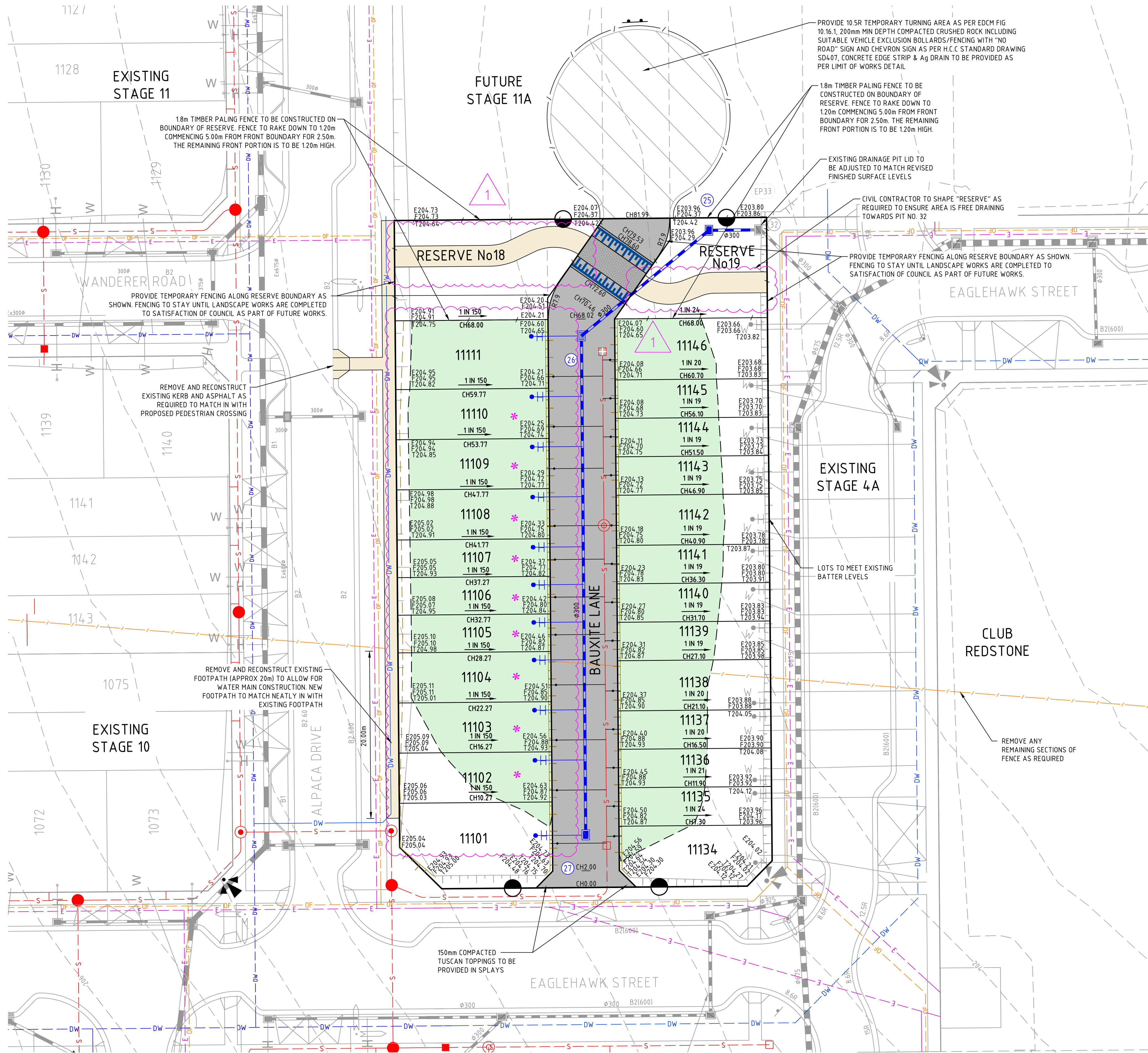
Designed
J.GIANNPOPOULOS
Authorised
J.POYNER

Redstone.
Your world awaits

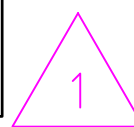
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J.POYNER
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**REDSTONE
STAGE 11C
ROAD AND DRAINAGE
FACE PLAN**
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION Drg No 305922-003CR200 Rev 1

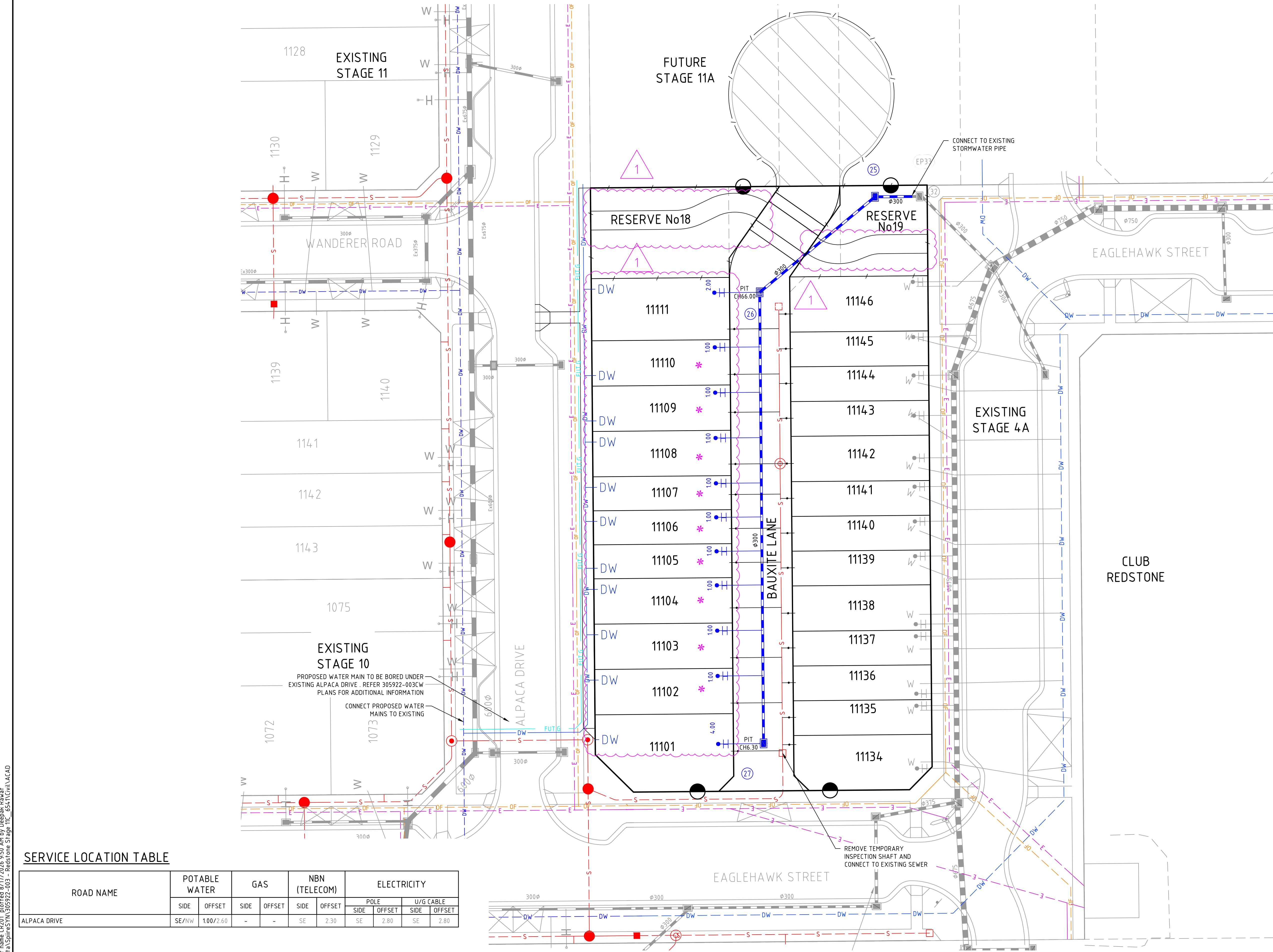


* PROVIDE FITZROY BOXES
FOR LOTS 11102 TO 11110
REFER TO DETAIL ON CR700



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.

File Name: 305922-003CR201.dwg | Plot Date: 07/07/2025 9:50 AM by: Danesh Pooet
SHEET 3 of 3 | Location: C:\Users\spire\OneDrive\Documents\305922-003 - Redstone Stage 11C\11C\11C.dwg



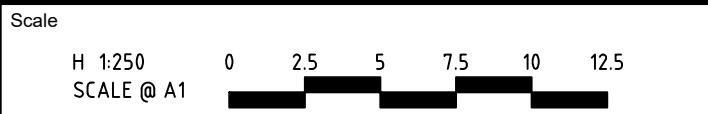
* PROVIDE FITZROY BOXES
FOR LOTS 11102 TO 11110
REFER TO DETAIL ON CR700



SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE SIDE	U/G CABLE SIDE	OFFSET	OFFSET
ALPACA DRIVE	SE/NW	1.00/2.60	-	-	SE	2.30	SE	2.80	SE	2.80

1	LOTS 11101-11111, SERVICES, RESERVE FP UPDATED	J.P	22/07/26
0	ISSUED FOR CONSTRUCTION	L.T	14/11/25
A	PRELIMINARY ISSUE	J.P.P.	20/05/25
Rev	Amendments	Approved	Date



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spiire.com.au ABN 55 050 029 635



Designed
J.GIANNPOULOS
Authorised
J.POYNER



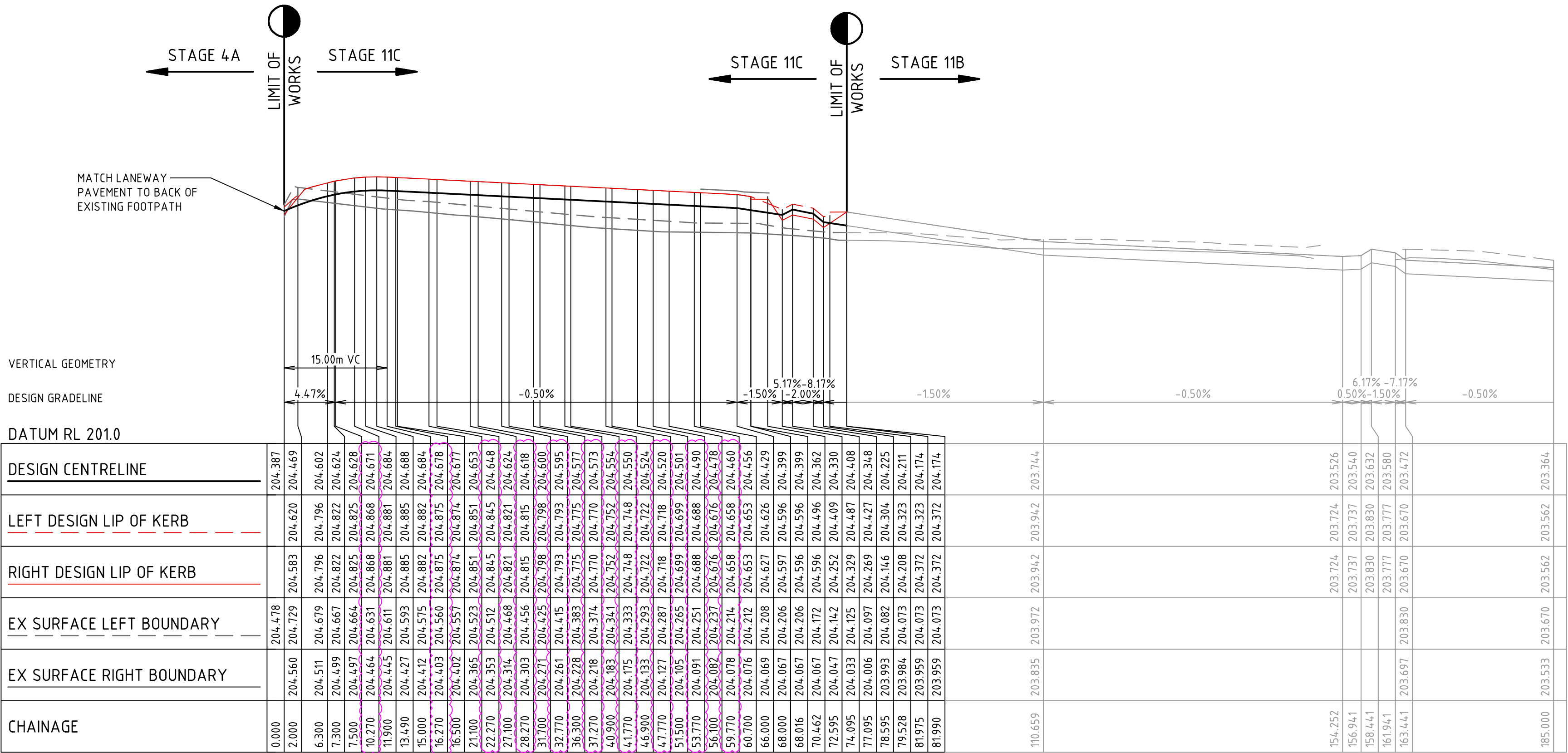
Checked
J.POYNER
Date
20th February 2025

REDSTONE
STAGE 11C
ROAD AND DRAINAGE
SERVICES PLAN
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

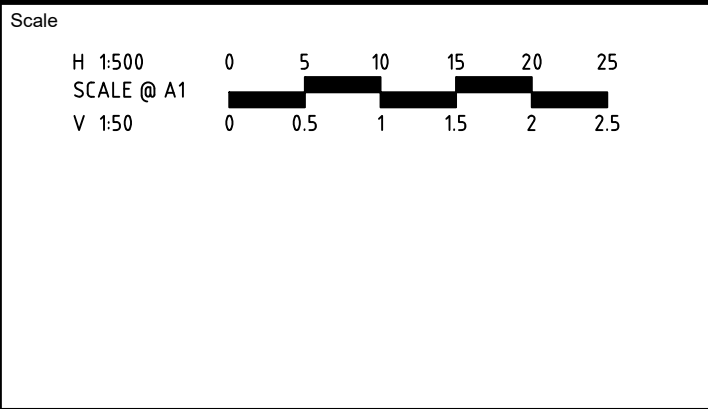
CONSTRUCTION Drg No 305922-003CR201 Rev 1

WARNING
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file name: 305922-003CR300.dwg | layout: rsm - CS300, plotted: 9/17/2025 9:59 AM by: Doreen, Project
SHEET 1 of 3 | Location: C:\Users\jgallagher\OneDrive\Documents\305922-003 - Redstone Stage 11C\11C\11C.dwg



1	LONG SECTION UPDATED	J.P	22/07/26	
0	ISSUED FOR CONSTRUCTION	L.T	14/11/25	
A	PRELIMINARY ISSUE	J.P.P.	20/05/25	
Rev	Amendments	Approved	Date	



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J.GIANNPOULOS

Authorised
J.POYNER



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J.POYNER

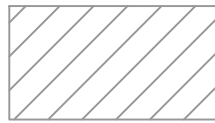
Date
20th February 2025

**REDSTONE
STAGE 11C
ROAD AND DRAINAGE
ROAD LONG SECTIONS**
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION

Drg No
305922-003CR300

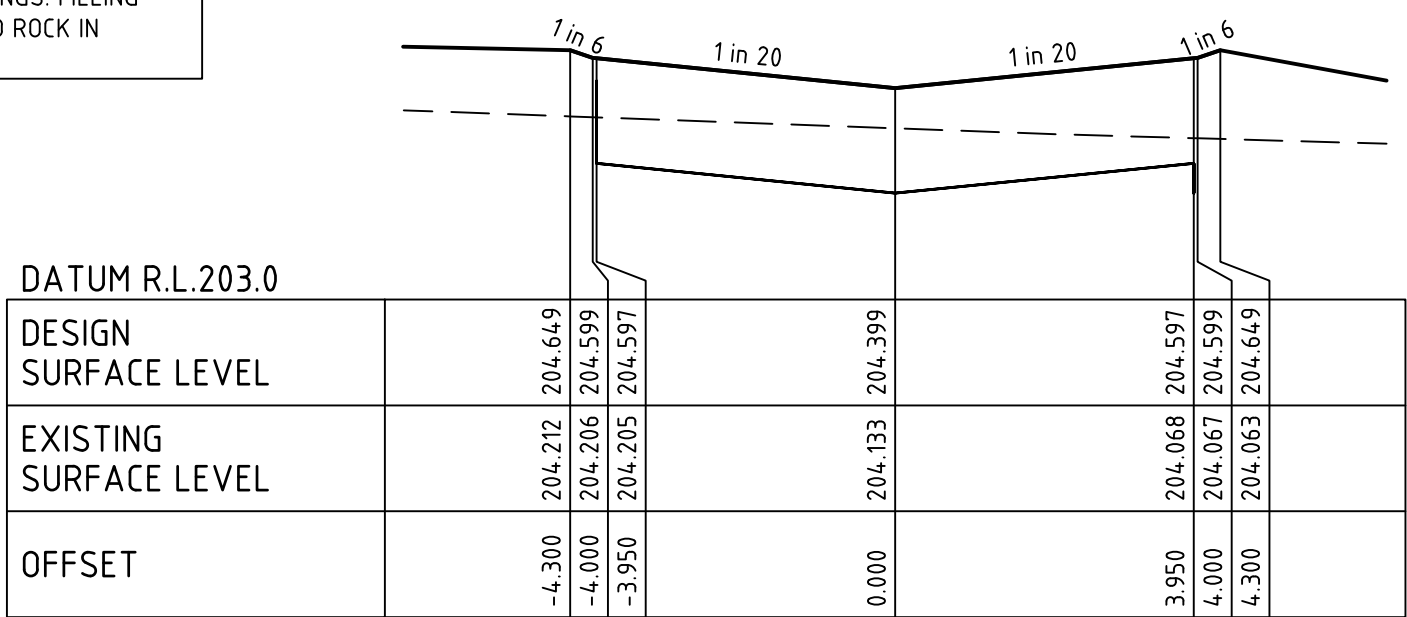
Rev
1



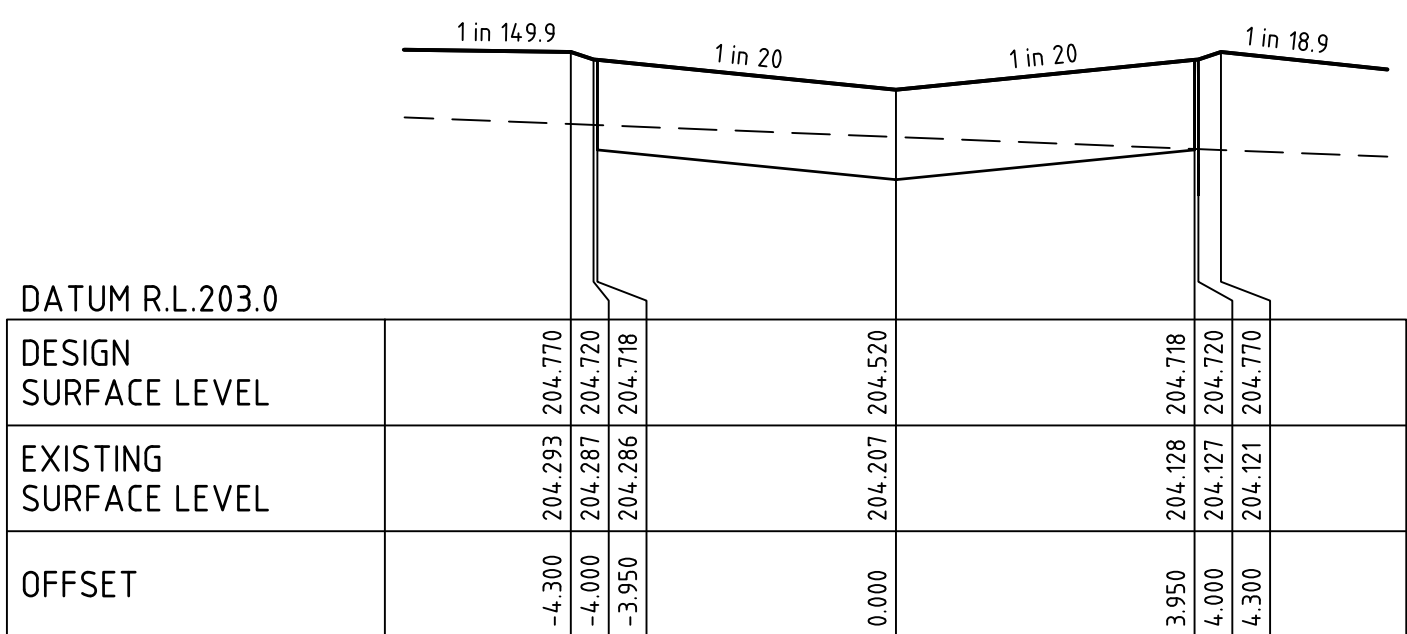
STRUCTURAL FILL (REFER TO FILLING NOTE)

FILLING NOTE

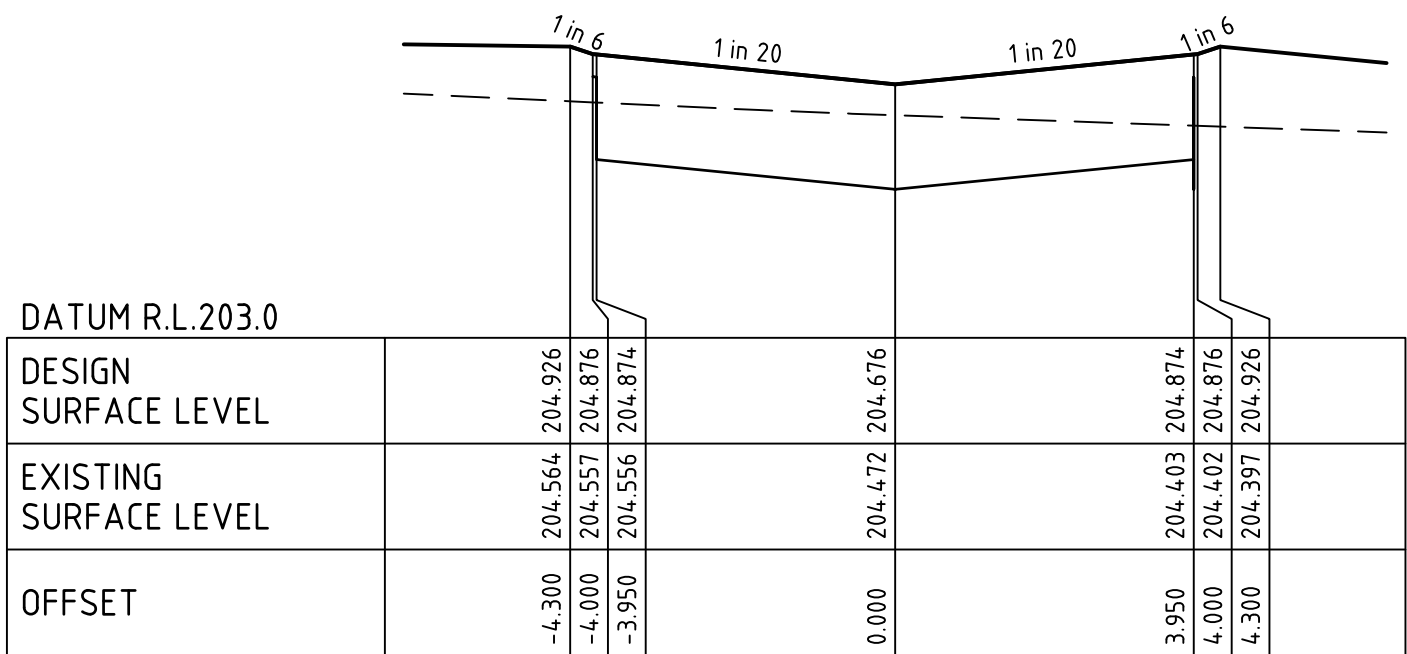
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS. FILLING UNDERNEATH FOOTPATH TO BE CLASS 3 CRUSHED ROCK IN ACCORDANCE WITH COUNCIL STANDARDS



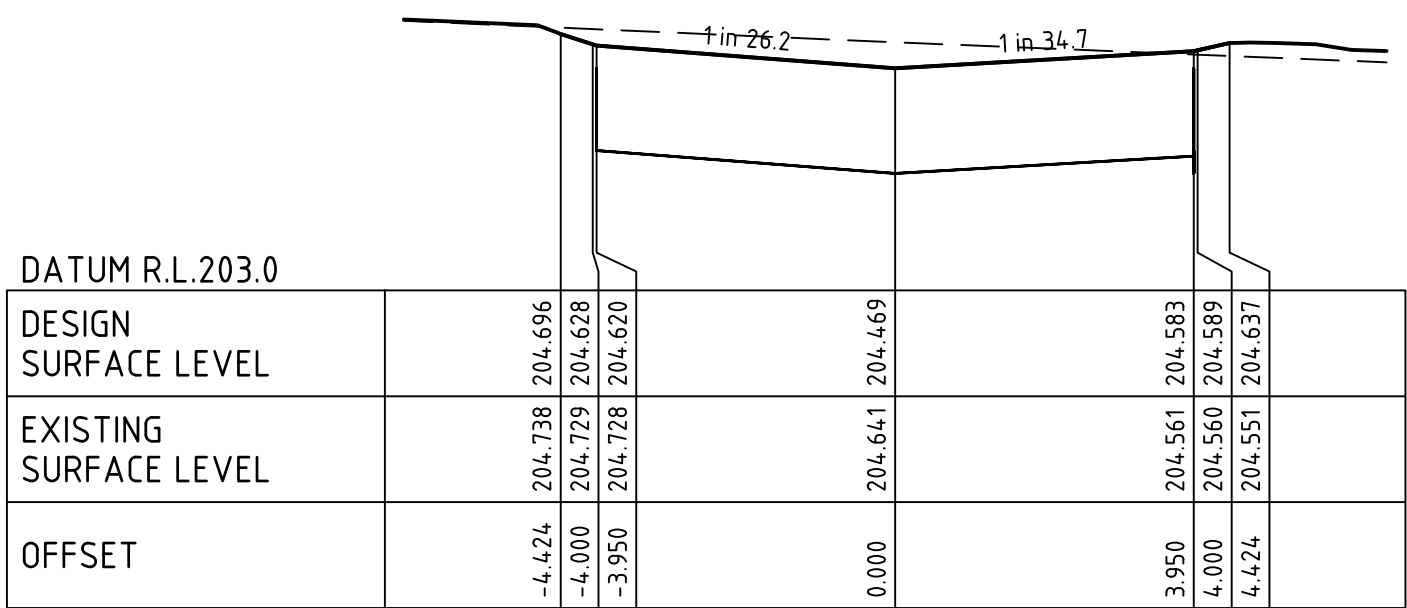
BAUXITE LANE CH 68.00



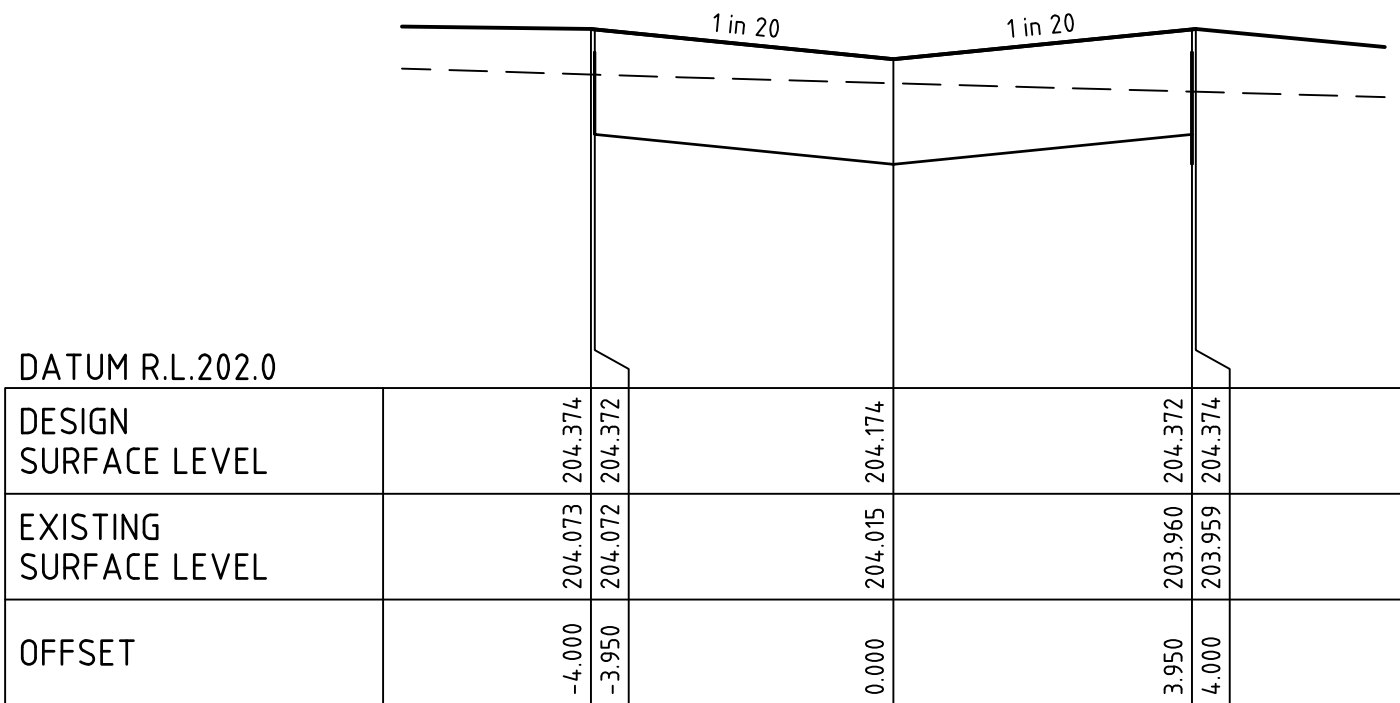
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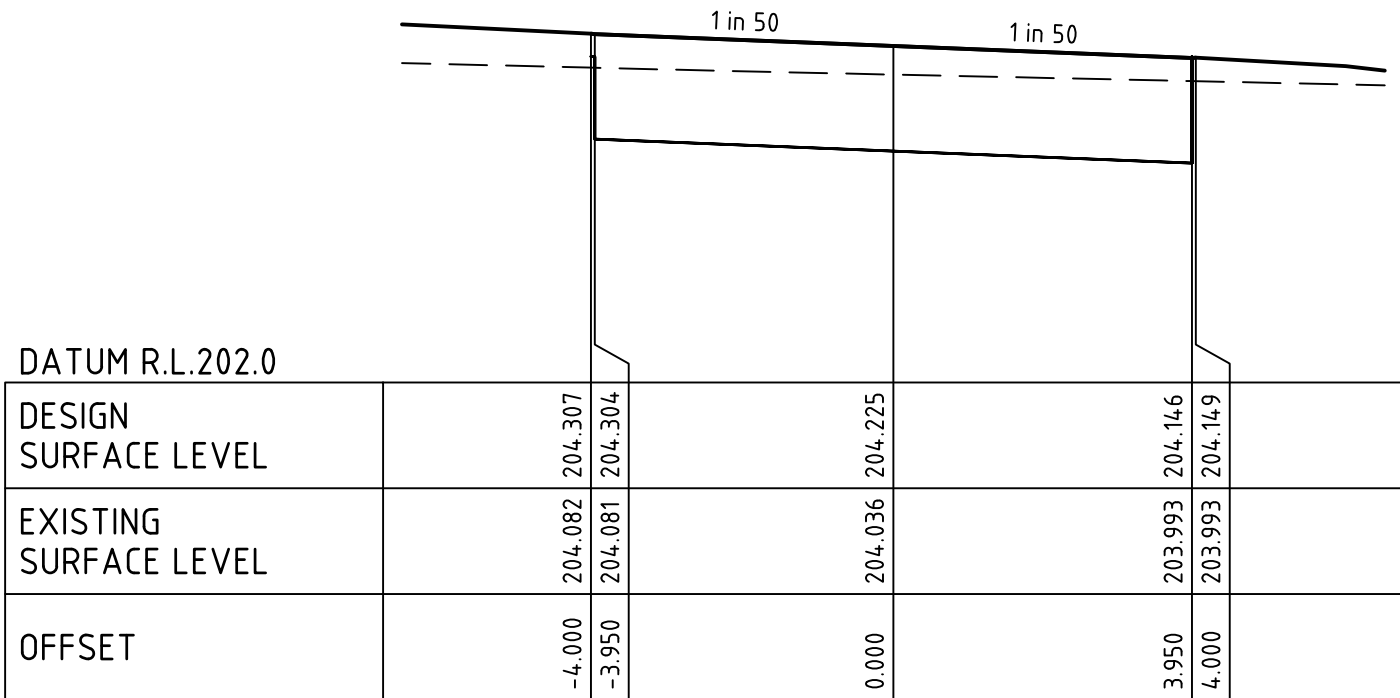
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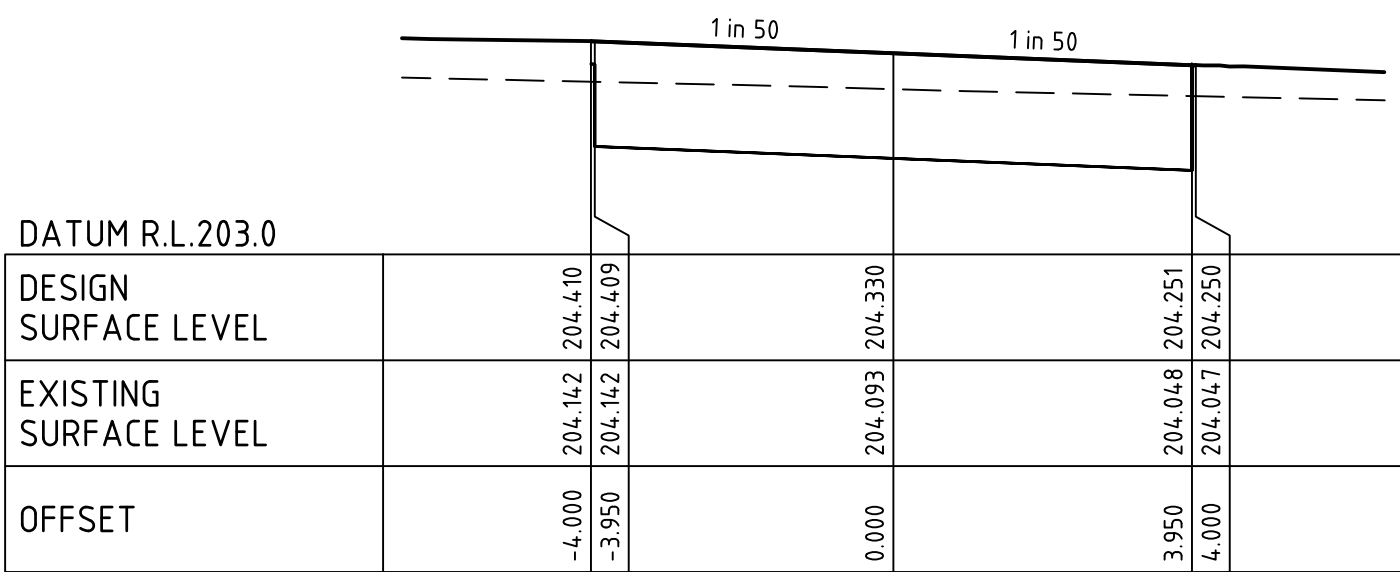
BAUXITE LANE CH 2.00



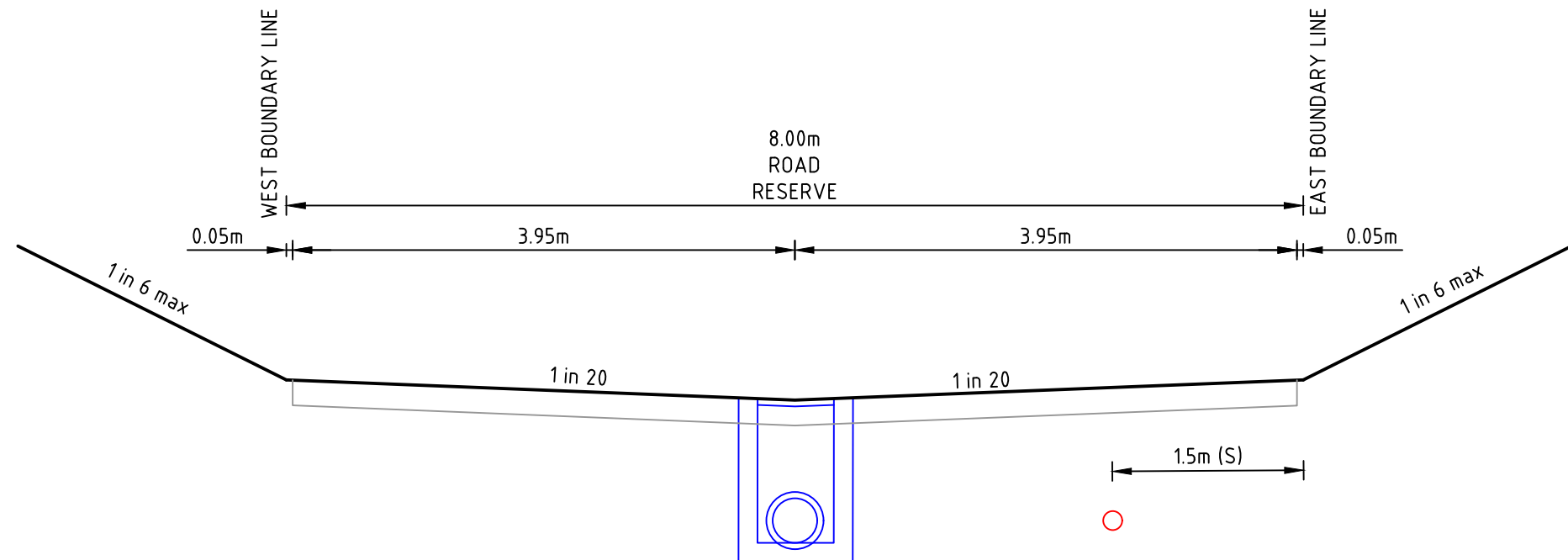
BAUXITE LANE CH 81.99



BAUXITE LANE CH 78.60



BAUXITE LANE CH 72.60

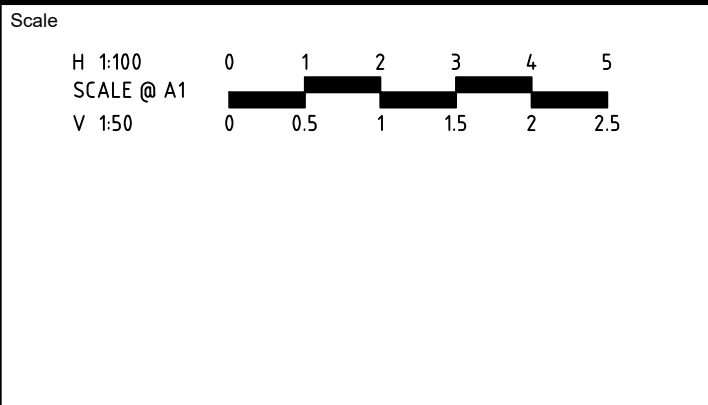


BAUXITE LANE - TYPICAL CROSS SECTION

8m WIDE RESIDENTIAL ROAD
SCALE 1:50 @ A1

File Name: 305922-003CR400.dwg | Layout Name: CR400 | Plotted: 9/17/2025 9:50 AM by: Deepak Raut
SHEET 5 of 3 | Location: C:\Users\deepa\OneDrive\Documents\305922-003 - Redstone Stage 11C\5541\DWG\ACAD

Rev	Amendments	Approved	Date
1	CROSS SECTION UPDATED	J.P	22/07/26
0	ISSUED FOR CONSTRUCTION	L.T	14/11/25
A	PRELIMINARY ISSUE	J.P.P.	20/05/25



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spiire.com.au ABN 55 050 029 635



Designed
J.GIANNPOULOS
Authorised
J.POYNER

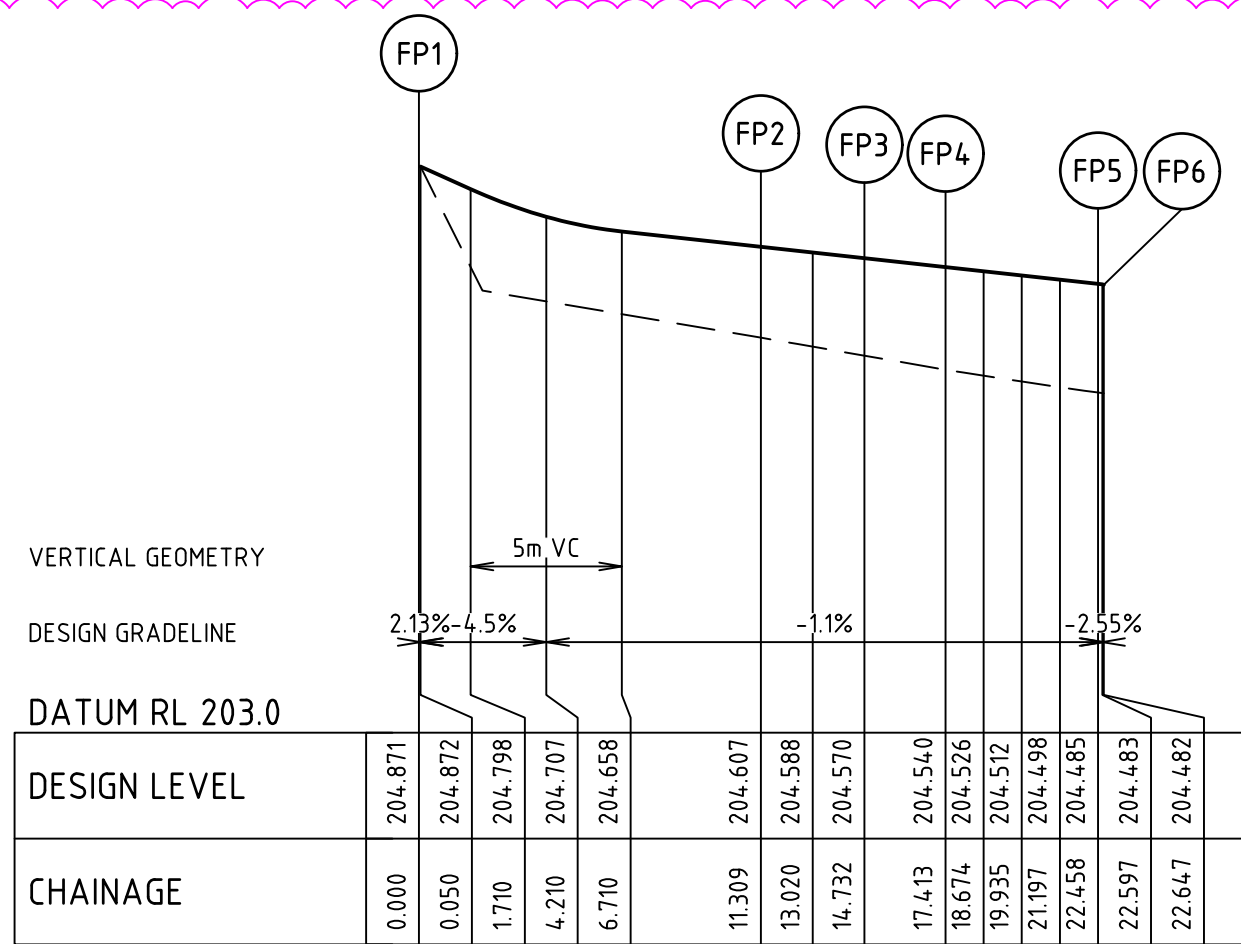


Checked
J.POYNER
Date
20th February 2025

REDSTONE
STAGE 11C
ROAD AND DRAINAGE
ROAD CROSS SECTIONS
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION Drg No 305922-003CR400 Rev 1

File Name: 305922-003CR500.dwg | Layout Name: CR500 | Plotted: 9/17/2025 9:51 AM by: Doreen Poyner
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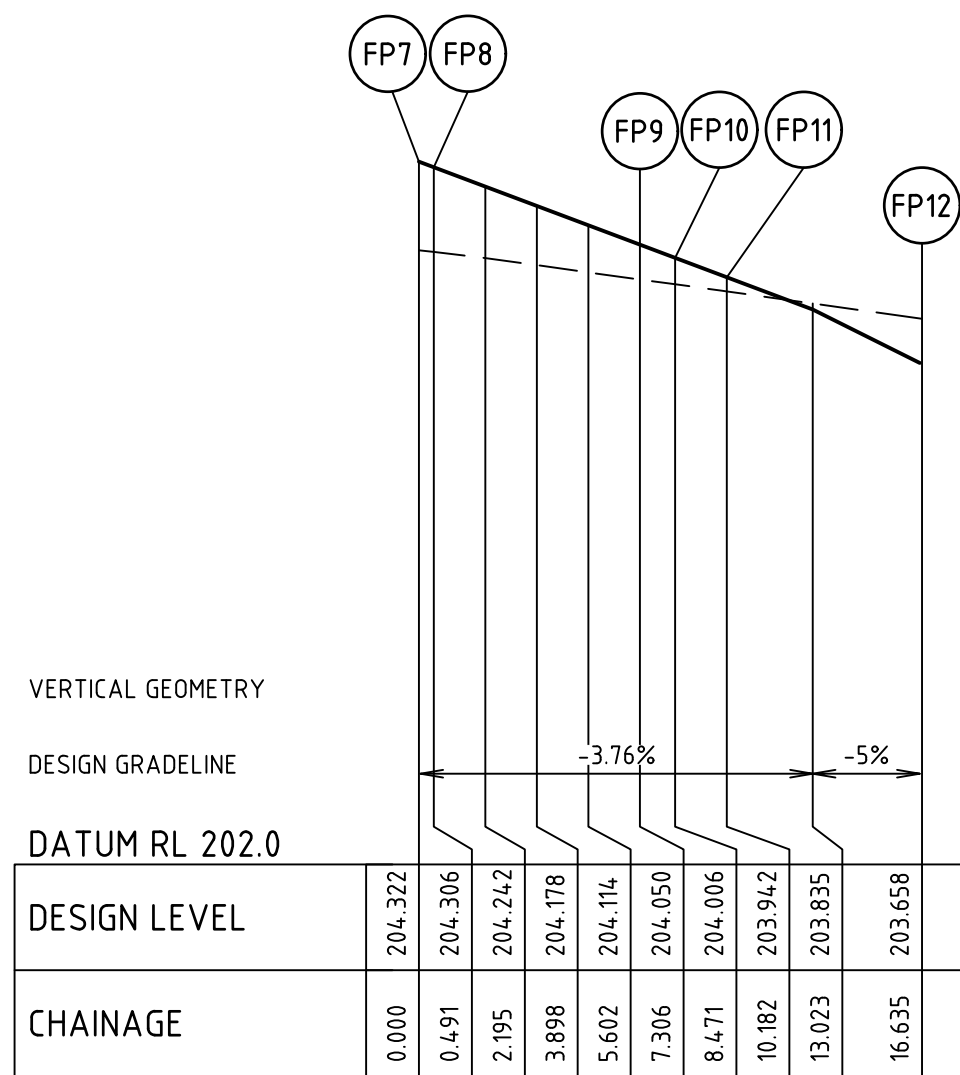


ALIGNMENT FP1-FP6

ALIGNMENT FP1-FP6

POINT NO	EASTING	NORTHING	RL
FP1	302538.836	5835832.480	204.871
FP2	302547.039	5835824.694	204.607
1/2	302548.384	5835823.641	204.588
FP3	302549.919	5835822.890	204.570
FP4	302552.463	5835822.047	204.540
1/4	302553.570	5835821.448	204.526
1/2	302554.511	5835820.612	204.512
3/4	302555.236	5835819.584	204.498
FP5	302555.708	5835818.417	204.485
FP6	302555.764	5835818.236	204.482

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
FP2-FP3	8.156	3.423	3.398	0.179	-0.045
FP4-FP5	5.480	5.045	4.869	0.570	0.144

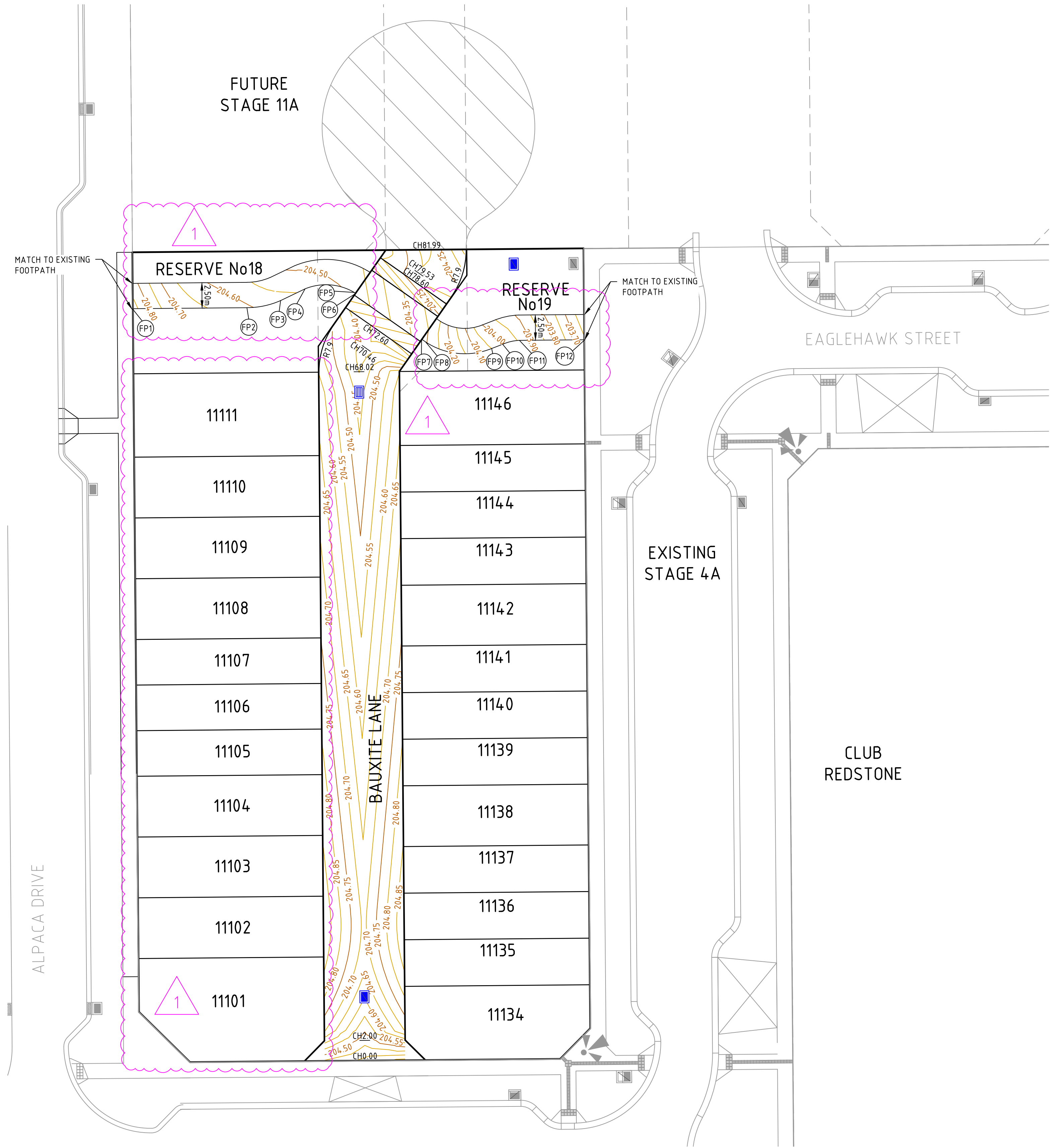


ALIGNMENT FP7-FP12

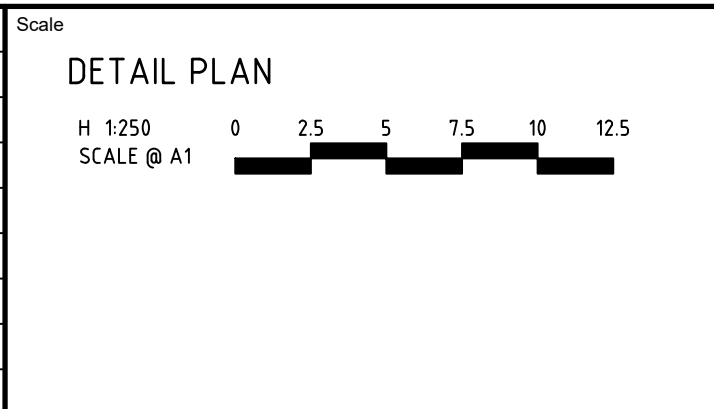
ALIGNMENT FP7-FP12

POINT NO	EASTING	NORTHING	RL
FP7	302557.286	5835810.484	204.322
FP8	302557.380	5835810.002	204.306
1/4	302557.947	5835808.400	204.242
1/2	302558.883	5835806.982	204.178
3/4	302560.133	5835805.829	204.114
FP9	302561.622	5835805.011	204.050
FP10	302562.696	5835804.559	204.006
FP11	302564.155	5835803.684	203.942
FP12	302568.836	5835799.242	203.658

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
FP8-FP9	7.017	6.815	6.550	0.811	-0.206
FP10-FP11	4.617	1.710	1.701	0.079	0.020



Rev	Amendments	Approved	Date
1	LOTS 11101-11111 LAYOUT, FP SETOUT DETAILS ADDED	J.P	22/07/26
0	ISSUED FOR CONSTRUCTION	L.T	14/11/25
A	PRELIMINARY ISSUE	J.P.P.	20/05/25



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villawood
properties

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Designed
J. GIANNPOULOS

Authorised
J. POYNER

Checked
J. POYNER

Date
20th February 2025

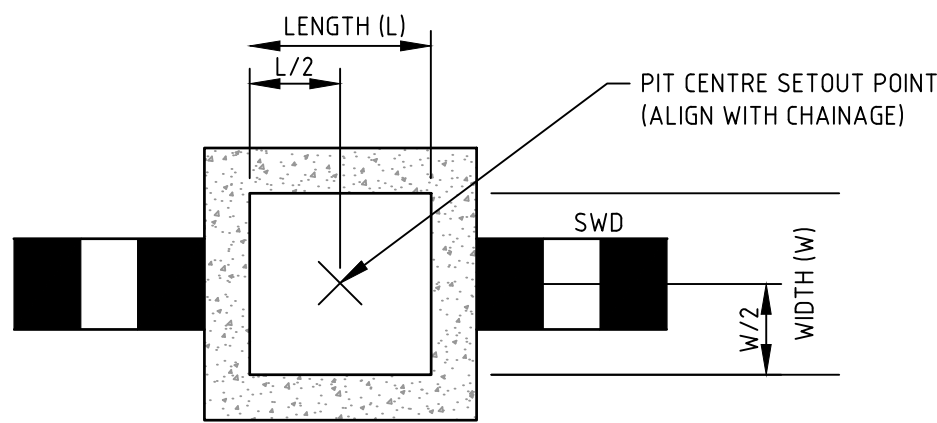
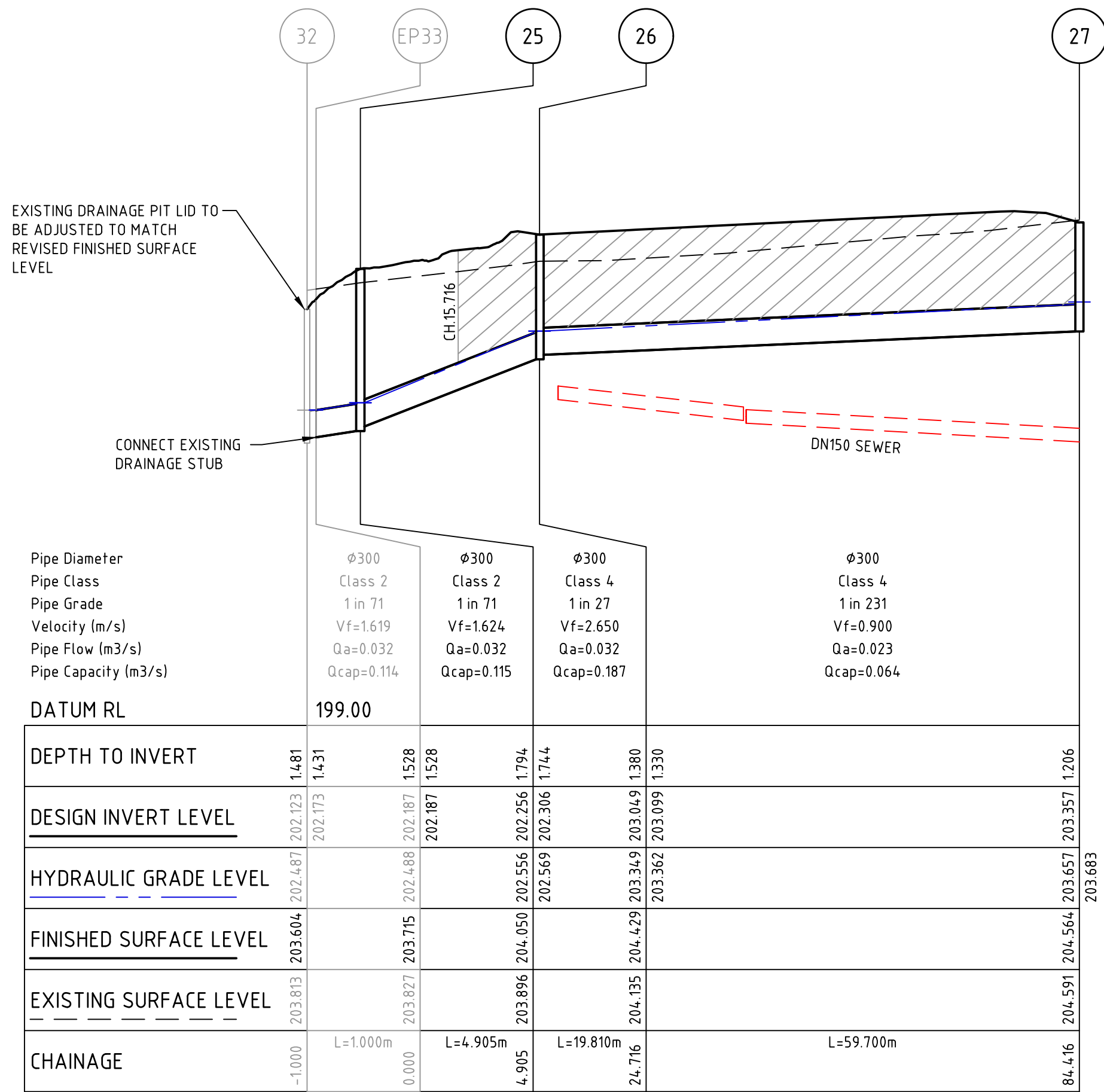
REDSTONE
STAGE 11C
ROAD AND DRAINAGE
INTERSECTION DETAILS
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION

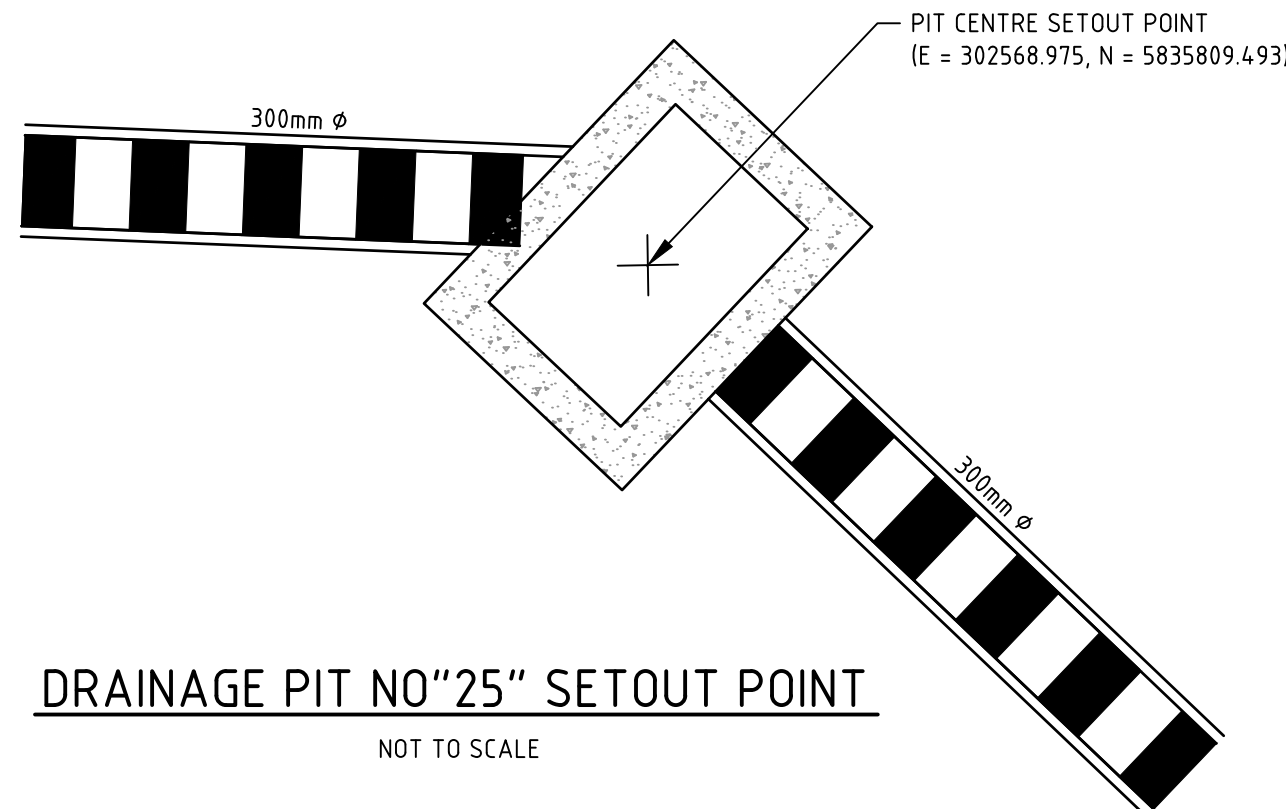
Drg No
305922-003CR500

Rev
1

CLASS 2 CRUSHED ROCK BACKFILL



TYPICAL DRAINAGE PIT SETOUT POINT 'C'
JUNCTION PIT/ EASEMENT PIT
NOT TO SCALE



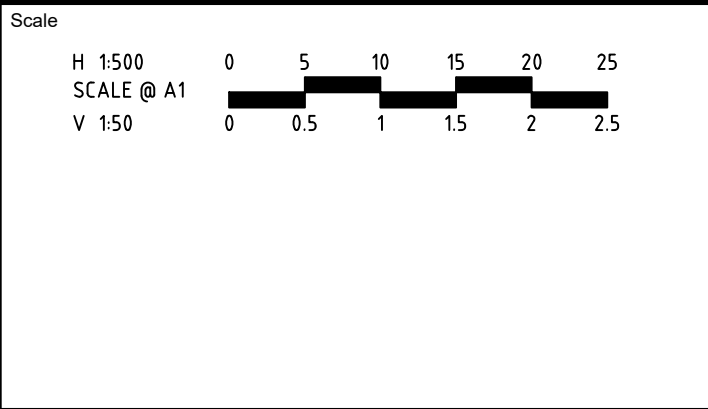
DRAINAGE PIT NO"25" SETOUT POINT
NOT TO SCALE

DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
Ex32	GRATED JUNCTION PIT	600	900	300	202.173	300	202.123	203.604	1.481	EXISTING PIT CONSTRUCTED IN REDSTONE STAGE 4A PIT FS LEVEL TO BE ADJUSTED TO MATCH FINISHED SURFACE LEVEL
EP33	EX ENDOPIPE	-	-	300	202.187	300	202.187	203.715	1.528	CONNECT TO EXISTING STUB
25	JUNCTION PIT	600	900	300	202.306	300	202.256	204.050	1.794	REFER TO EDCM-605
26	GRATED JUNCTION PIT	600	900	300	203.099	300	203.049	204.429	1.380	REFER TO EDCM-605 & HCC STD DWG 225 WITH APPROVED HEAVY DUTY GRATE COVER
27	GRATED JUNCTION PIT	600	900	-	-	300	203.357	204.564	1.206	REFER TO EDCM-605 & HCC STD DWG 225 WITH APPROVED HEAVY DUTY GRATE COVER

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Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	L.T	14/11/25
A	PRELIMINARY ISSUE	J.P.P.	20/05/25



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Designed
J.GIANNPOULOS
Authorised
J.POYNTER

Checked
J.POYNTER
Date
20th February 2025

REDSTONE
STAGE 11C
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS & PIT SCHEDULE
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION
Drg No 305922-003CR600 Rev 0

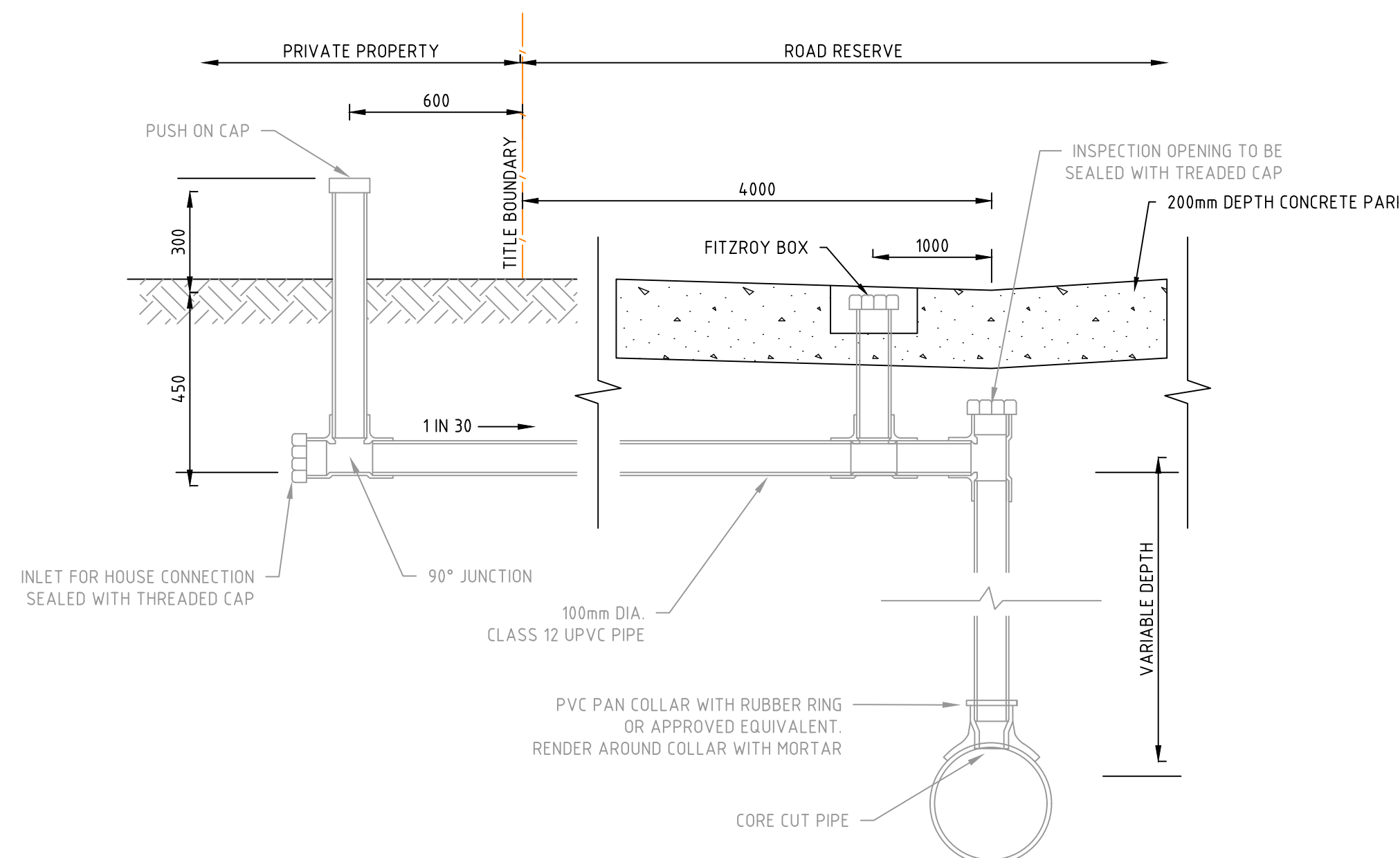
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		TYPE A*
CONCRETE BASE LAYER	JRPC - WITHOUT SHOULDERS $f_{ct} = 4.0$ Mpa	195
DEBONDING LAYER	BITUMEN SPRAYED SEAL WITH 5-7mm AGGREGATE	-
SUB-BASE COURSE	20mm NOMINAL SIZE CLASS 2 FCR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% MODIFIED DRY DENSITY RATIO AND WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT	100
CAPPING LAYER	SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO AT LEAST 98% STANDARD DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% STANDARD DRY DENSITY RATIO AND WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THAN 15% AND A MAXIMUM HYDRAULIC CONDUCTIVITY OF 5×10^{-9} M/S	150
CONSTRUCTION LAYER	SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO AT LEAST 98% STANDARD DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% STANDARD DRY DENSITY RATIO AND WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THAN 15% AND A MAXIMUM HYDRAULIC CONDUCTIVITY OF 5×10^{-9} M/S	150
TOTAL PAVEMENT DEPTH		595
SUBGRADE	NATURAL SILTY CLAY TESTED TO CONFIRM AN IN-SITU CBR OF AT LEAST 2.0% OR APPROVED FILL COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR > 3.0%) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT	

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY STANTEC WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIRE IS NOT RESPONSIBLE FOR THE WORK OF STANTEC.

THE DESIGN HAS BEEN EXTRACTED FROM THE STANTEC REPORT ON "GEOTECHNICAL INVESTIGATION FOR REDSTONE ESTATE, SUNBURY SOUTH, RIGID PAVEMENT PROFILES FOR CONCRETE LANEWAYS V180556 REPORT 09.1" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

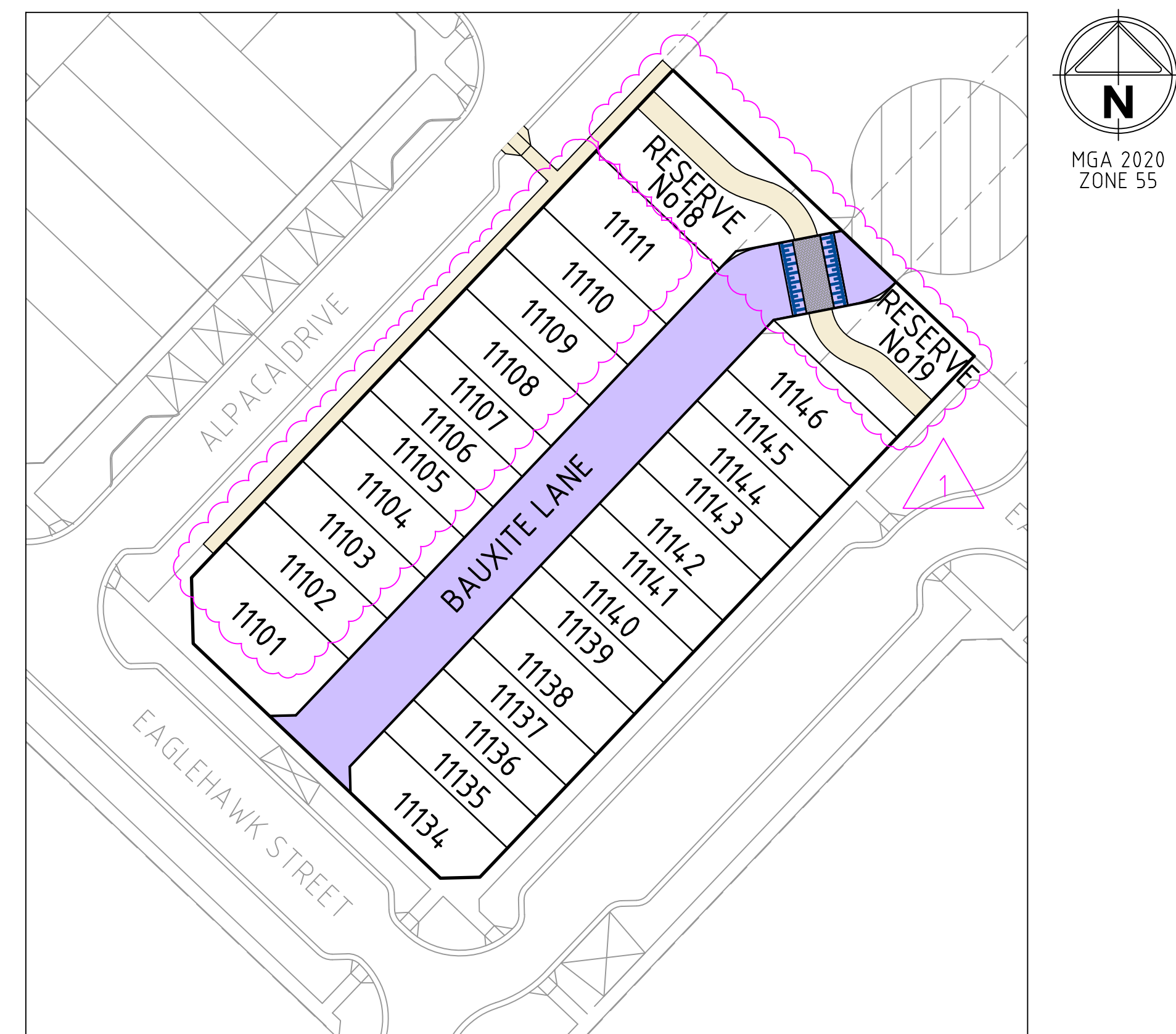
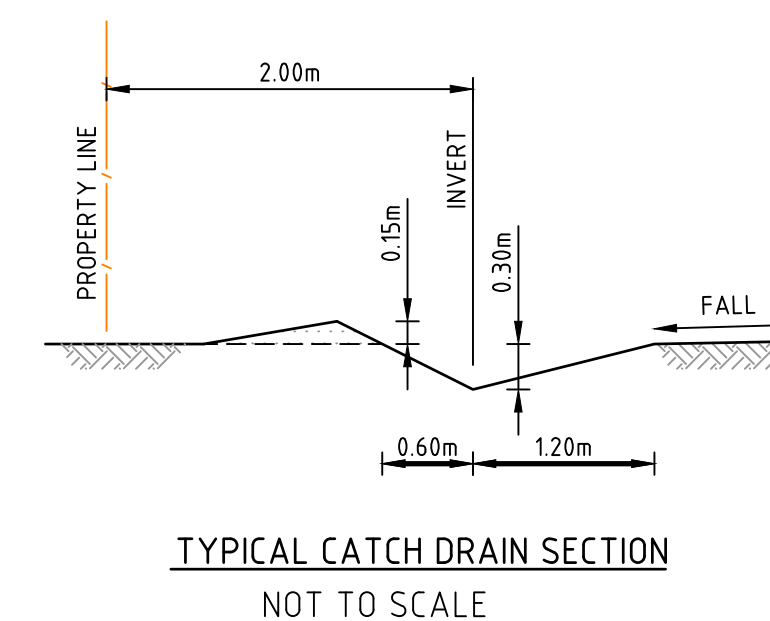
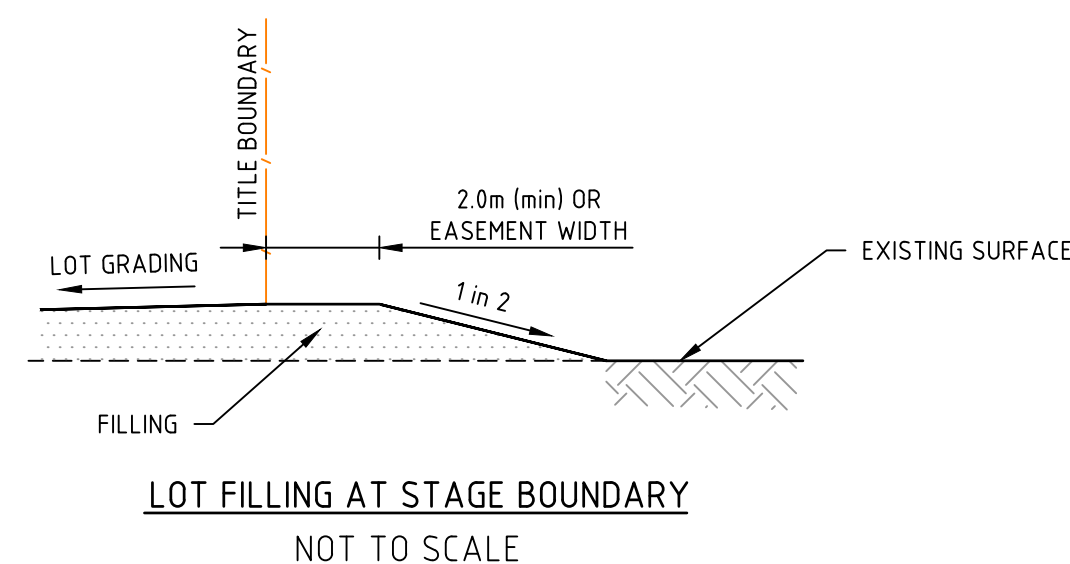
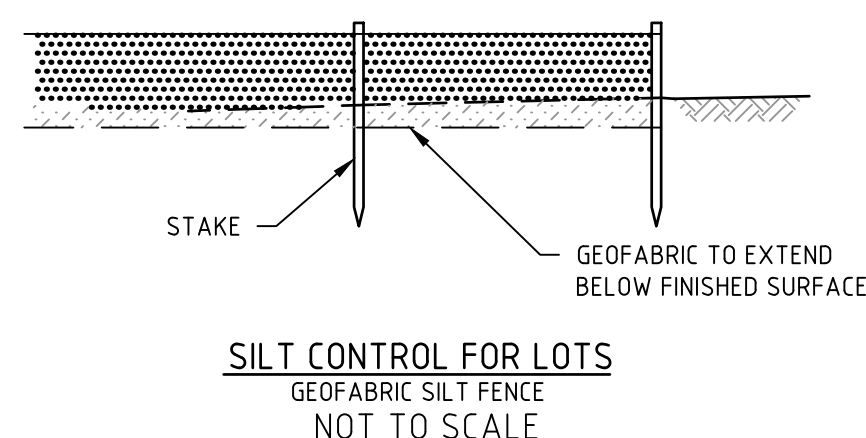
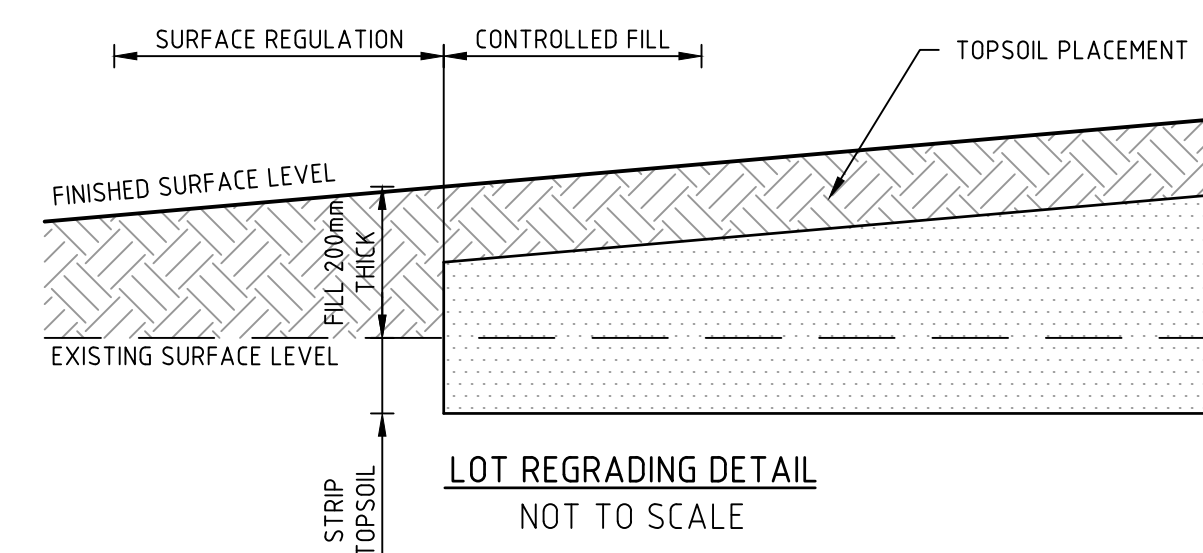
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ELEVATION
NOT TO SCALE

NOTES:
PROPERTY INLET DETAIL TO MATCH EDM 701 WITH ADDITIONAL TEE
AND INSPECTION OPENING WITH FITZROY BOX FOR MAINTENANCE.

* HOUSE DRAIN INSPECTION OPENINGS TO BE LOCATED IN FITZROY BOX FOR LOTS 11102 TO 11110. REFER DETAIL ABOVE FOR PROPERTY CONNECTION TO UNDERGROUND DRAIN.



PAVEMENT PLAN

H 1:500
SCALE @ A1



1	LOTS 11101-11111 LAYOUT, RESERVE FP UPDATED	J.P.	22/07/26
0	ISSUED FOR CONSTRUCTION	L.T	14/11/25
B	PAVEMENT PROFILE AMENDED	L.T	07/11/25
A	PRELIMINARY ISSUE	J.P.P.	20/05/25
Rev	Amendments	Approved	Date

Scale

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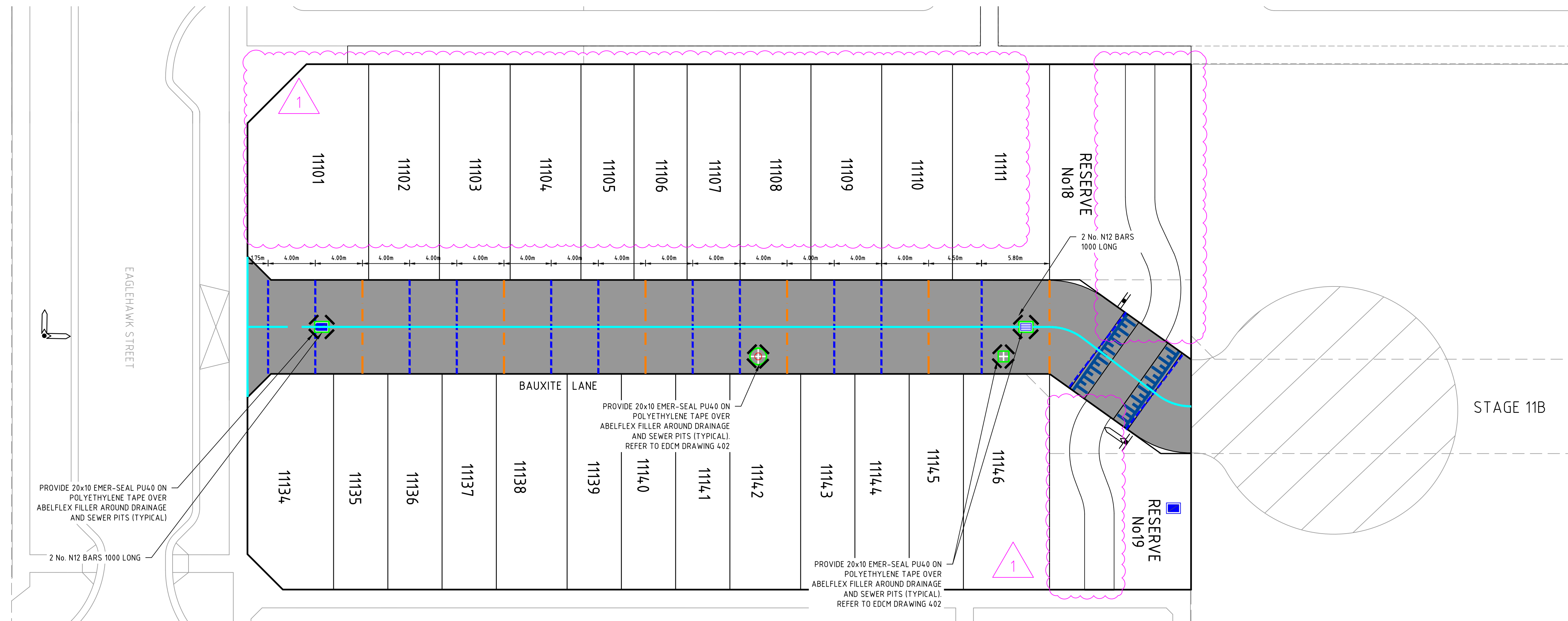
Designed
J.GIANNPOULOS
Authorised
J.POYNER

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Checked
J.POYNER
Date
20th February 2025

**REDSTONE
STAGE 11C
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS - SHEET 1
HUME CITY COUNCIL
VILLAWOOD PROPERTIES**

CONSTRUCTION Drg No Rev
305922-003CR700 1



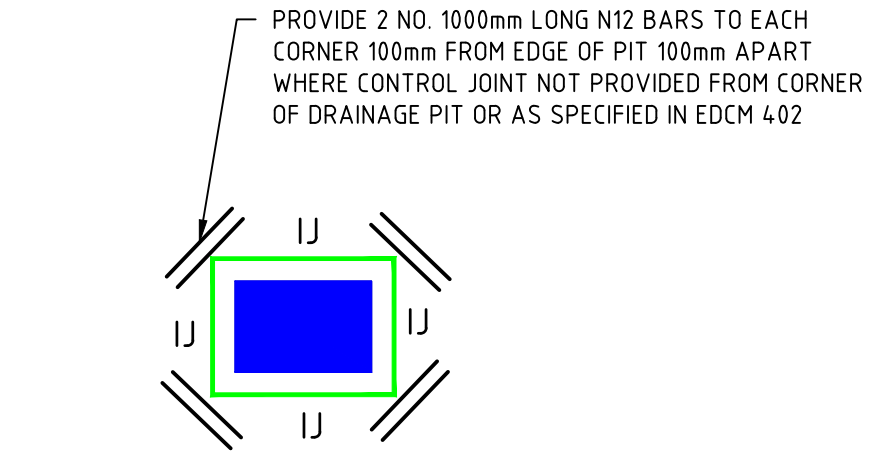
TRIBUTARY LANE - CONCRETE JOINTING PLAN
SCALE 1:200

CONCRETE PAVEMENT NOTES:

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA- "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.
- VARIATION TO JOINT LAYOUT BY CONTRACTOR WILL NOT BE ACCEPTED WITHOUT SPECIFIC WRITTEN APPROVAL OF SUPERINTENDENT & COUNCIL.
- DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL PIT/ACCESS HOLE JOINT DETAILS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDMC STANDARD DRAWINGS EDM402.
- REFER TO H.C.C STANDARD DRAWING SD306 FOR CONSTRUCTION JOINTS (CJ), EXPANSION JOINTS (EJ) & CONTRACTION JOINTS (SC). REFER TO EDMC SD401 & SD402 FOR ISOLATION JOINTS (IJ)

PAVEMENT JOINT LEGEND:

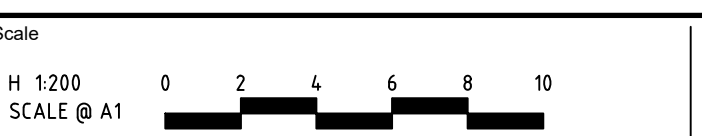
- TRANSVERSE CONSTRUCTION JOINT (CJ)
- EXPANSION JOINT (EJ)
- WEAKENED PLANE JOINT (SAW CUT JOINT) (WJ)
- ISOLATION JOINT (IJ)



CONCRETE PAVEMENT PIT
INTERFACE DETAIL

file name: 305922-003CR701.dwg layout: aspx, GSD01, plotted: 8/17/2025 9:51 AM by: Doreen, Project: SHEET 9 of 9 Location: C:\Users\spire\OneDrive\spire\305922-003 - Redstone Stage 11C\55A1\Civil\ACAD

Rev	Amendments	Approved	Date
1	LOTS 11101-11111 LAYOUT, RESERVE FP UPDATED	J.P	22/07/26
0	ISSUED FOR CONSTRUCTION	L.T	14/11/25
A	PRELIMINARY ISSUE	J.P.P.	20/05/25



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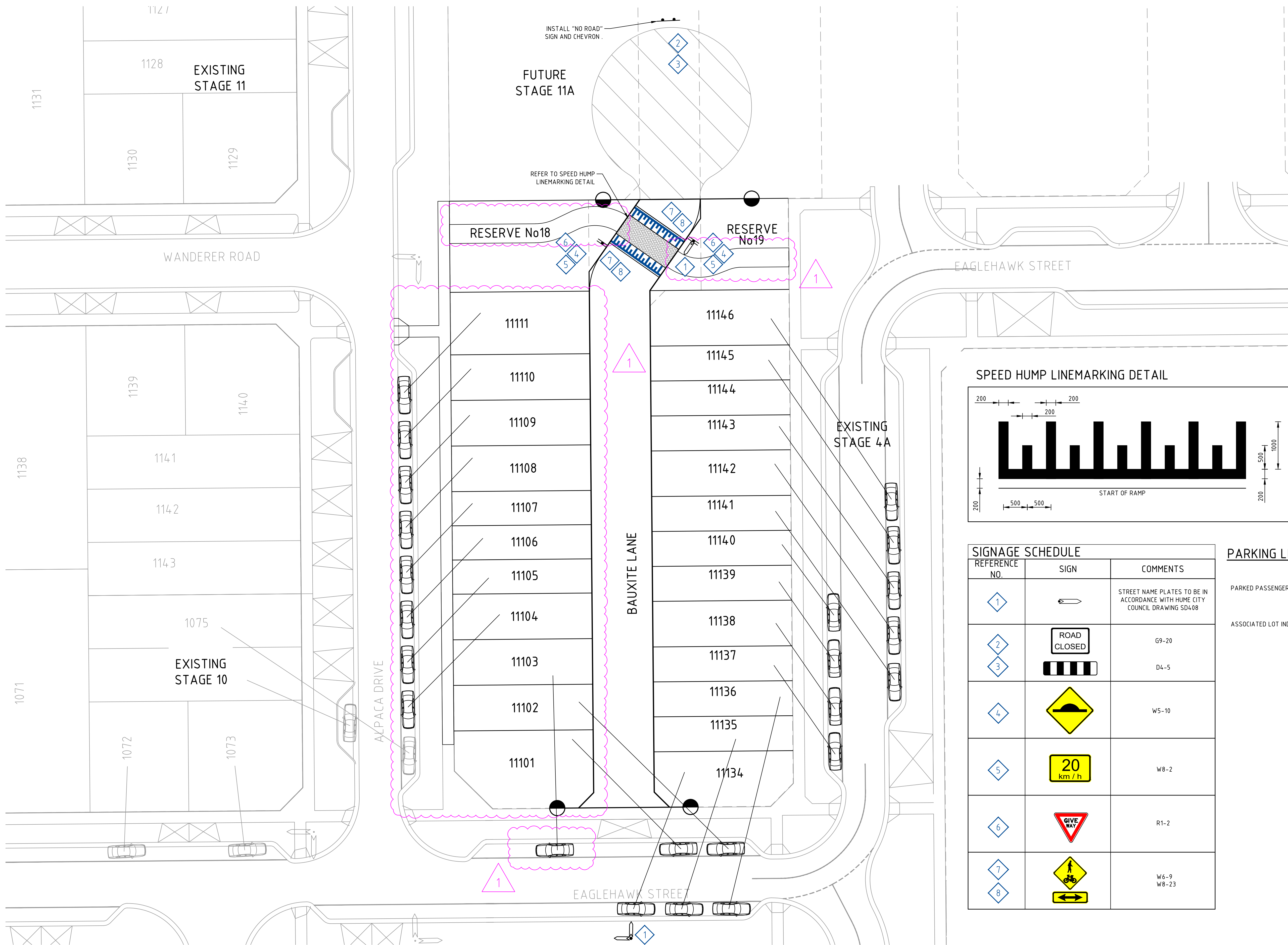
L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE
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Designed J. GIANNPOULOS	Checked J. POYNER
Authorised J. POYNER	Date 20th February 2025

REDSTONE
STAGE 11C
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS - SHEET 2
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

File Name: 305922-003CR800.dwg, Layout Name: CR800, Plotted: 9/17/2025 9:51 AM by: Danesh, Sheet: SHEET 10 OF 9, Location: C:\Users\jg\OneDrive\Documents\305922-003 - Redstone Stage 11C\11C\11C\11C.dwg



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Designed
J.GIANNPOULOS
Authorised
J.POYNER



Checked
J.POYNER
Date
20th February 2025

**REDSTONE
STAGE 11C
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING**
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION Drg No 305922-003CR800 Rev 1