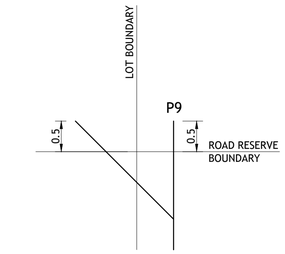
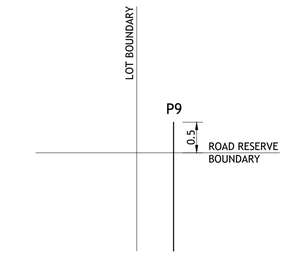


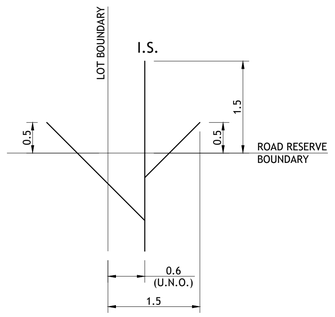
P9 WITH PROPERTY CONNECTIONS

NOT TO SCALE



SINGLE P9

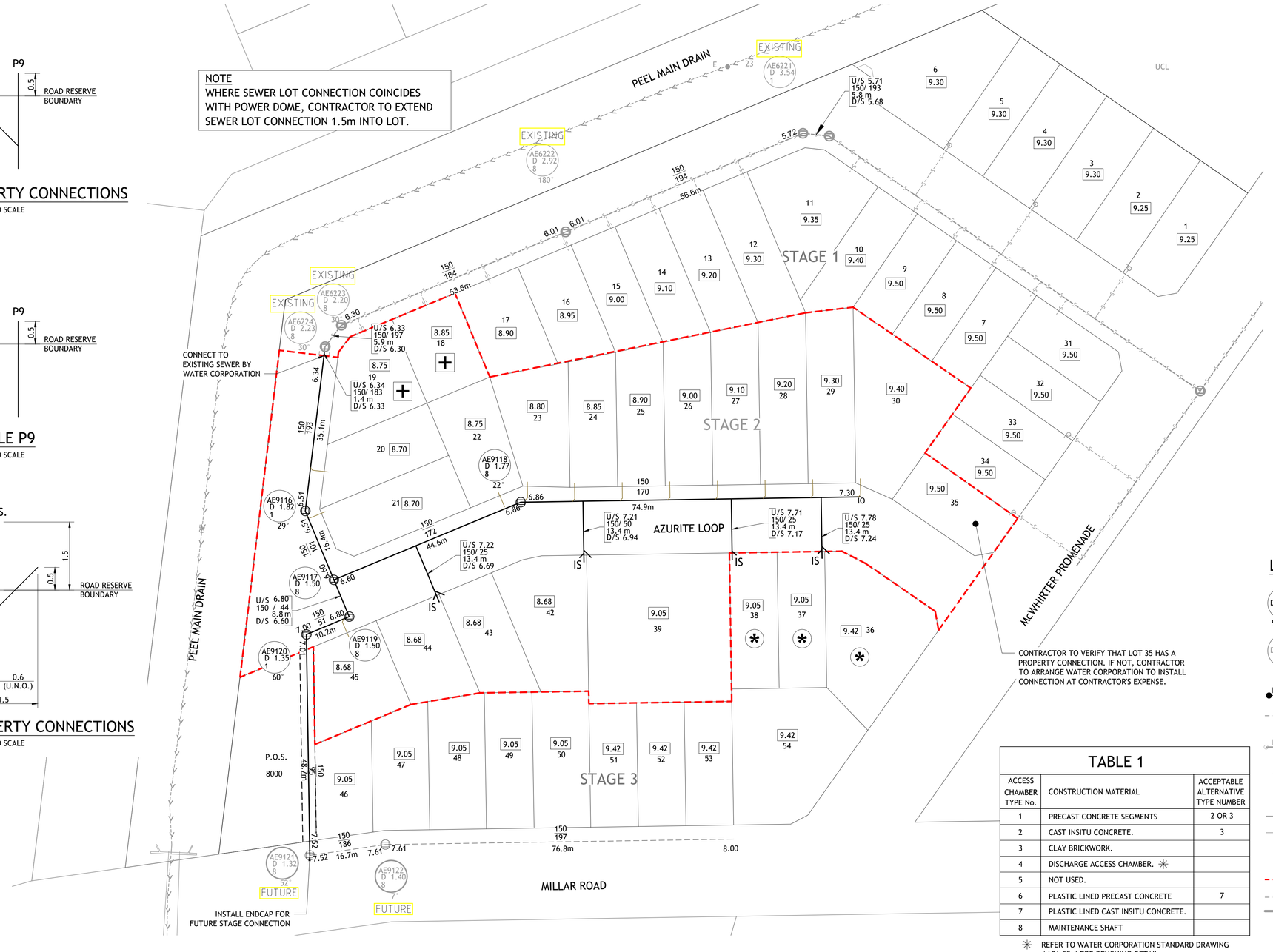
NOT TO SCALE



I.S. WITH PROPERTY CONNECTIONS

NOT TO SCALE

NOTE
WHERE SEWER LOT CONNECTION COINCIDES WITH POWER DOME, CONTRACTOR TO EXTEND SEWER LOT CONNECTION 1.5m INTO LOT.



SEWER RETICULATION PLAN

SCALE 1:500

NOTES

1. ALL SEWER RETICULATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS AND DRAWINGS WITHIN THE WATER CORPORATION DESIGN STANDARDS DS50.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SEWER NOTES ON WATER CORPORATION DRAWING AA01-3-1.
3. GENERAL:
   - 3.1. CONTOUR INTERVALS 0.25m
   - 3.2. LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
   - 3.3. MINIMUM COVER SHALL BE 0.9m IN ROAD RESERVES AND TRAFFICABLE ROW's AND 0.75m ELSEWHERE.
4. CENTRELINES OF SEWERS AT ACCESS CHAMBERS AND THE END OF I.O. LINES ARE TO BE ON THE 3.5m ALIGNMENT IN ROAD RESERVES EXCEPT WHERE OTHERWISE SHOWN.
5. CLEARING FOR SEWER EXCAVATION AND WORKS IS NOT TO EXTEND MORE THAN 5.0m EITHER SIDE OF THE PIPE CENTRELINE UNLESS DIRECTED BY THE SUPERINTENDENT. SIGNIFICANT TREES ARE TO BE PRESERVED CONTRACTOR SHALL BORE UNDER THESE. BORE PITS TO BE A SUFFICIENT DISTANCE TO AVOID TREE ROOT DAMAGE.
6. THE CONSTRUCTION OF SEWERS IN AREAS WHERE FILL IS REQUIRED SHALL NOT PROCEED UNTIL THE FILL IS PLACED AND COMPACTED. HOWEVER, IF THE SEWER IS 1.0m OR MORE BELOW THE EXISTING NATURAL SURFACE THE FILL MAY BE PLACED AFTER THE SEWER HAS BEEN LAID AND BACKFILLED. FILL SHALL BE GRADED UNIFORMLY BETWEEN THE DESIGN LEVELS SHOWN AND THE NATURAL SURFACE LEVEL AT A GRADE NOT STEEPER THAN 1 in 10.
7. ALL SEWER INSTALLED BELOW CLAY LAYER TO HAVE 19mm BLUEMETAL BEDDING.
8. THE CONTRACTOR SHALL ENSURE ADEQUATE PIPE BEDDING FOR EITHER WET, DRY OR UNSTABLE CONDITIONS. SAND BEDDING SHALL BE COMPACTED. WET BEDDING SHALL BE CRUSHED ROCK. UNSTABLE BEDDING THAT CANNOT BE STABILISED WITH EXTRA OVER DEPTH OF CRUSHED ROCK SHALL BE REFERRED TO THE SUPERINTENDENT IMMEDIATELY.
9. THE CONTRACTOR SHALL ALLOW FOR TRENCH EXCAVATION IN ALL MATERIALS AND DETERMINE THE POTENTIAL GROUNDWATER AND DEWATERING REQUIREMENTS.
10. ALL HOUSE CONNECTIONS TO BE BROUGHT UP TO WITHIN 1.0m OF THE FINISHED SURFACE LEVEL.
11. SEWER PIPES AT A GRADE OF 1 IN 5 OR STEEPER MUST HAVE PLAIN CONCRETE ANCHOR BLOCKS AT A DISTANCE APART IN METRES OF 0.6 TIMES THE GRADE.
12. THE BACKFILL SHALL BE CLEAN SAND COMPACTED TO 95% MMDD. THE CONTRACTOR SHALL SUBMIT COMPACTION TEST RESULTS TO THE SUPERINTENDENT. THE CONTRACTOR SHALL REMOVE ANY EXCESS UNSUITABLE TRENCH SPOIL OFF SITE.
13. ALL LOT JUNCTIONS SHALL BE 150x100 UNLESS OTHERWISE SHOWN. THE JUNCTIONS ARE TO BE PLACED AS SHOWN IN ACCORDANCE WITH WATER CORP STANDARD DRG. NO. AA01-61-1 & AA01-62-1
14. WHERE A CONNECTION IS TO BE MADE TO AN EXISTING PIPE OR ACCESS CHAMBER, THE CONTRACTOR MUST CHECK THE EXISTING I.L. BEFORE ANY CONSTRUCTION COMMENCES. ANY DISCREPANCIES WITH DESIGN I.L.'S SHALL IMMEDIATELY BE REPORTED TO THE SUPERINTENDENT. THE CONTRACTOR SHALL NOT ENTER LIVE ACCESS CHAMBERS.
15. CONNECTION TO ALL EXISTING ACCESS CHAMBERS OR SEWER LINES, TO BE MADE BY THE WATER CORPORATION AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL ARRANGE SAFE AND DEWATERED ACCESS.
16. FUTURE CONNECTIONS AND INSPECTION OPENINGS (I.O.) TO BE SEALED OFF WITH APPROVED SEALING PLUG OR CAP.
17. RC ACCESS CHAMBERS MAY BE ALTERNATIVELY CONSTRUCTED IN BRICK WITH THE APPROVAL OF THE SUPERINTENDENT AND THE WATER CORPORATION INSPECTOR.
18. FINISHED ACCESS CHAMBER COVER LEVELS SHALL BE 50mm ABOVE THE FINISHED GROUND LEVELS WHEN LOCATED WITHIN LOTS. ACCESS CHAMBER COVERS LOCATED WITHIN THE ROAD RESERVE SHALL BE FINISHED FLUSH WITH VERGE.
19. THE ABOVE AND BELOW GROUND 'AS CONSTRUCTED' SURVEY SHALL BE CARRIED OUT BY THE CONTRACTORS SURVEYOR TO ENSURE THAT THE SURVEY IS COMPLETED AT THE APPROPRIATE TIME.
20. PROPOSED LOT CONNECTIONS TO EXISTING SEWER MAIN. CONNECTION BY WATER CORP. AT CONTRACTORS EXPENSE.
21. THE CONTRACTOR SHALL COMPLETE ALL REINSTATEMENT OF THE WORK AREA PRIOR TO FTI.

LEGEND

- CAST IRON OR DUCTILE IRON COVER, ACCESS CHAMBER/MAINTENANCE SHAFT NUMBER, ACCESS CHAMBER COVER CLASS AND DEPTH, ACCESS CHAMBER TYPE No. REFER TABLE 1, D = DROP, ANGLE OF INLETS (T9326 D 2.8 1 D 90°/180°) — PROPOSED ACCESS CHAMBER
- CAST IRON OR DUCTILE IRON COVER, ACCESS CHAMBER/MAINTENANCE SHAFT NUMBER, ACCESS CHAMBER COVER CLASS AND DEPTH, ACCESS CHAMBER TYPE No. REFER TABLE 1, D = DROP (T9326 D 2.8 1 D) — EXISTING/FUTURE ACCESS CHAMBER
- PIPE DIA. I.L. GRADE I.L. LENGTH(m) — PROPOSED SEWERS WITH NOTATION
- FUTURE SEWERS
- PIPE DIA. I.L. GRADE I.L. LENGTH(m) — EXISTING SEWERS WITH NOTATION
- U/S 11.79, 150/100, 13.9m, D/S 11.65 — UPSTREAM PIPE INVERT LEVEL; PIPE SIZE/GRADE; DISTANCE FROM C PIT TO C PIT; DOWNSTREAM PIPE INVERT LEVEL
- 24.00 — FINISHED SURFACE CONTOUR (1.0m INTERVAL)
- FINISHED SURFACE CONTOUR (0.25m INTERVAL)
- 14.65 — FINISHED LOT LEVEL
- 14.67 — EXISTING FINISHED LOT LEVEL
- RETICULATION AREA BOUNDARY
- EASEMENT
- RETAINING WALL
- + — PREVIOUSLY SERVED BUT RELEASED IN THIS STAGE
- * — LOTS TO BE RELEASED IN FUTURE BUT SERVICES LAID IN THIS STAGE

TABLE 1

ACCESS CHAMBER TYPE No.	CONSTRUCTION MATERIAL	ACCEPTABLE ALTERNATIVE TYPE NUMBER
1	PRECAST CONCRETE SEGMENTS	2 OR 3
2	CAST INSITU CONCRETE.	3
3	CLAY BRICKWORK.	
4	DISCHARGE ACCESS CHAMBER. ✳	
5	NOT USED.	
6	PLASTIC LINED PRECAST CONCRETE	7
7	PLASTIC LINED CAST INSITU CONCRETE.	
8	MAINTENANCE SHAFT	

✳ REFER TO WATER CORPORATION STANDARD DRAWING AA01-50-4 FOR BENCHING DETAIL.

WARNING

BEWARE OF UNDERGROUND SERVICES

The location of existing services are approximate only and their exact position should be checked on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of work. Refer to Worksafe Regulation 3.21.

DIAL1100 BEFORE YOU DIG
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GENERAL NOTE

ALL CO-ORDINATES SHOWN ON THIS SET OF DRAWINGS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

10 0 10 20 30 Meters
SCALE 1 : 500

PLAN N°: MU65-203-001-01A

FILE N°: JT1 2018 00506 VO1

This plan is accepted as complying with overall Scheme Planning.

Compliance with relevant manuals remains the responsibility of the Consulting Engineer.

No works are to commence on site until startup arrangements have been made with the relevant Works Inspector. See Developers Manual for contact details.

For: Manager Land Servicing — Wayne Smith (Name) — Dec 17, 2018 (Date)

DRAWING NUMBER	DESCRIPTION
DRAWING REFERENCE	

REV	DATE	REVISION DESCRIPTION	DRAWN	CHECKED	ENGINEER	APPROVED
B	13.12.2018	ISSUED FOR FINAL APPROVAL	EW	DH	GT	MM
A	27.07.2017	ISSUED FOR APPROVAL	YV	KW	KW	SW

IN THE ABSENCE OF THE APPROVED SIGNATURE, THIS DRAWING SHALL BE TREATED AS PRELIMINARY

DRAWN	Y VERMAAK	27.07.2017
DESIGNED	Y VERMAAK	27.07.2017
CHECKED	K WHITE	27.07.2017
ENGINEER	K WHITE	27.07.2017
APPROVED		

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CLIENT: YOLK PROPERTY GROUP
PROJECT: LOT 1, 2 & 10 JOHNSON ROAD WELLARD
TITLE: STAGE 2 SEWER RETICULATION PLAN

DRAWING STATUS: ISSUED FOR APPROVAL
WAPC 153017

SCALE	GRID	DATUM	SIZE
1:500	PCG 94	AHD	A1

DWG NO: 3803-40-DWG-CI-52401 REV: B

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