

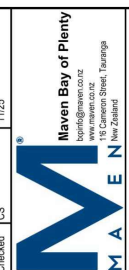
- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE.
 - MINIMUM COVER SHALL BE:
ROADS, FOOTPATHS, CROSSINGS: 1000MM
BERMS 800MM
SERVICE CONNECTIONS: 350MM
 - WATERMANS LAID ACROSS ROADS SHALL BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED IN 200MM LIFTS TO THE FINISH SURFACE.
 - ALL UPIC PIPE SHALL BE RATED MINIMUM PRESSURE RATED WITH SPOGNOT AND SOCKET RUBBER RING JOINTS.
 - ALL PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SLOTT WITH SAND OR RP20.
 - ALL UPIC PIPE SHALL BE LAD 153MM ABOVE ALL WATERMANS.
 - A YELLOW ROSSELLES TRIANGLE WITH CAT'S EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS. WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERB SHALL ALSO BE PAINTED YELLOW.
 - ALL VALVES TO BE MARKED WITH SMCUT KERB WITH APPROVED CONCRETE MARKER POST.
 - ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR, APPROVED BY THE ENGINEER.

LEGEND

- EX BDY
- PROP BDY
- STAGING BDY
- EX WATERMAIN
- PROP 560mm OD PE
- PROP 280mm OD PE
- PROP 180mm OD PE
- PROP 125mm OD PE
- PROP 63mm OD PE
- EX PROP HYDRANT
- EX PROP METER
- PROP SLUCE VALVE
- PROP PEAT VALVE

B	FOR CONSENT	DP	03/26
A	FOR REVIEW	DP	11/25
Rev	Description	By	Date
Survey	MAVEN		05/2025
Design	DP		11/25
Drawn	DP		11/25
Checked	CS		11/25

Project	Wairakei South FTA090 Development
Title	Bell Road, Papamoa Limited Partnership
Project no.	BOP0749
Scale	1:10000 @ A3
Card file	890905-0000-DWG
Drawing no.	C600-0-2
Rev	B



FOR CONSENT

- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE.
 - MINIMUM COVER SHALL BE:
 - ROADS, FOOTPATHS, CROSSINGS: 1000MM
 - BERMS 800MM
 - 350MM
 - SERVICE CONNECTIONS:
 - WATERMANS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200MM LAYERS ABOVE THE EMBEDMENT MATERIAL.
 - ALL JOINTS SHALL BE PROTECTED WITH PRESSURE RATED WITH SPOUT AND SOCKET RUBBER RING JOINTS.
 - ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SLOTT WITH SAND OR AP20.
 - METAL DETECTOR TAPE PRINTED WITH WATER PIPE SYMBOLS TO BE LAD 150MM ABOVE ALL WATERMANS.
 - A YELLOW ISSUESLES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS, WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERB SHALL ALSO BE PAINTED YELLOW.
 - ALL VALVES TO BE MARKED WITH SAWCUT KERB AND BEAD TO BE PAINTED YELLOW. ALL VALVES TO BE MARKED WITH CONCRETE MARKERS WITH WAPEROID CONCRETE MARKERS TO BE PAINTED YELLOW.
 - ALL FLANGE JOINTS TO BE PROTECTED WITH DENSIO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

---	EX BODY
---	PROP BODY
---	STAGING BODY
---	EX WATERMAIN
---	PROP 560mm OD PE
---	PROP 280mm OD PE
---	PROP 160mm OD PE
---	PROP 125mm OD PE
---	PROP 83mm OD PE
---	EXPROP HYDRANT
---	EXPROP METER
---	EXPROP SLICE VALVE
---	EXPROP PEAT VALVE

Rev	Description	By	Date
B	FOR CONSENT	DP	03/26
A	FOR REVIEW	DP	11/25

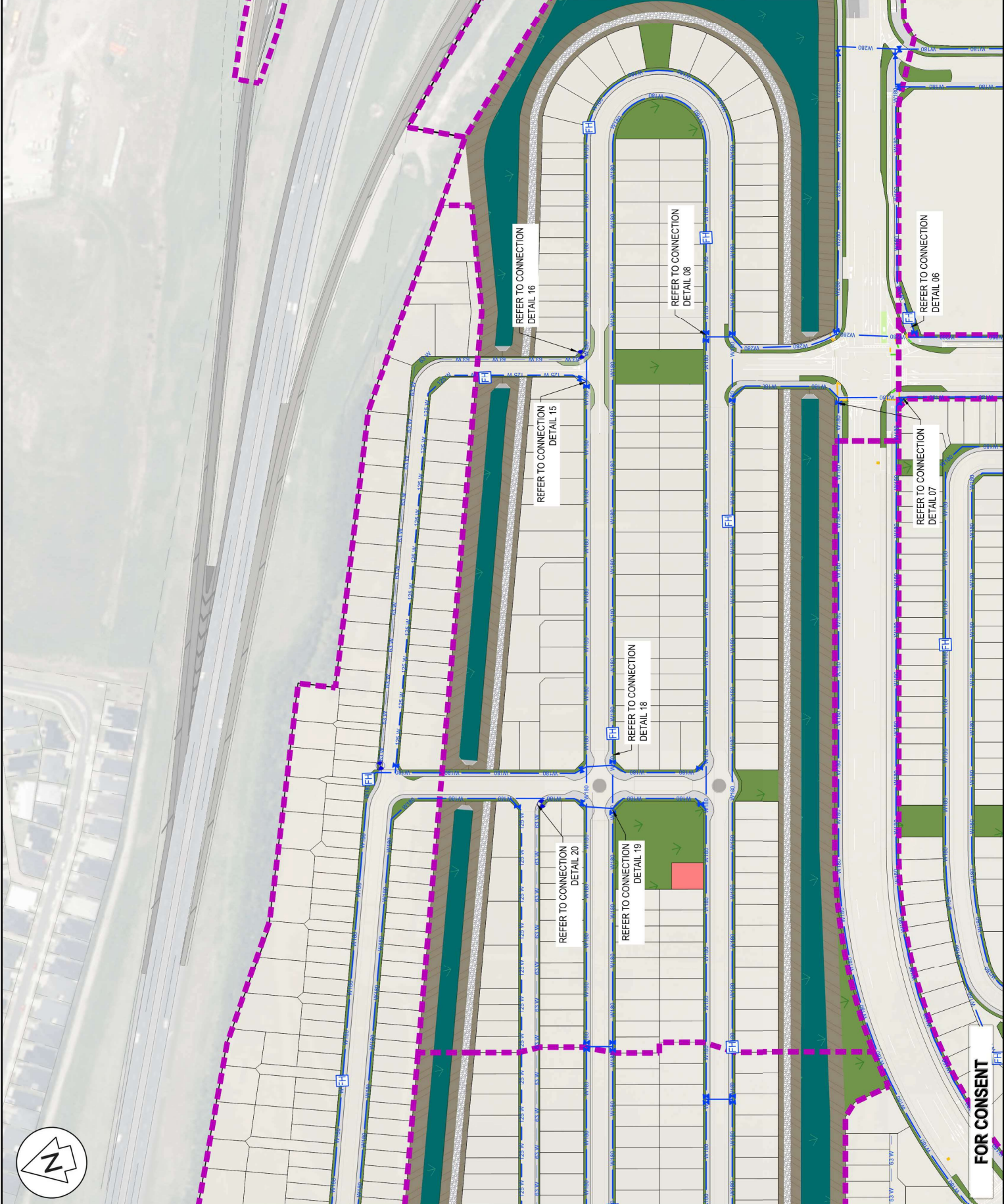
Survey	MAVEN	Date	05/2025
Design	DP	11/25	
Drawn	DP	11/25	
Checked	CS	11/25	

Maven Bay of Plenty
 115 Cameron Street, Tauranga
 www.maven.co.nz

Project
WAIRAKEI SOUTH FTA090 DEVELOPMENT
BELL ROAD, PAPAMOA
FOR BELL ROAD LIMITED PARTNERSHIP

Title
PROPOSED WATER SUPPLY LAYOUT PLAN

Project no.	BOP0749
Scale	1:2000 @ A3
Clad file	BP0749-0000.DWG
Drawing no.	C600-1-1
Rev	B



ORIGINAL SIZE: A3

FOR CONSENT

- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE.
 - MINIMUM COVER SHALL BE:
ROADS, FOOTPATHS, CROSSINGS: 1000MM
BERMS 800MM
300MM
 - SERVICE CONNECTIONS:
WATERMANS LAID ACROSS ROADS SHALL BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED IN 200MM LIFTS TO THE FINISHED ROAD SURFACE.
 - ALL PIPES SHALL BE 800MM MINIMUM PRESSURE RATED WITH SPIGOT AND SOCKET RUBBER RING JOINTS.
 - ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SLOTT WITH SAND OR #20. ALL EXPOSED WATER PIPE SHALL BE LAD 150MM ABOVE ALL WATERMANS.
 - A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS, WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERB SHALL ALSO BE PAINTED YELLOW.
 - ALL VALVES TO BE MARKED WITH SAUCUIT KERB WITH APPROVED CONCRETE MARKER POST.
 - ALL FLANGE JOINTS TO BE PROTECTED WITH DENS-O-TAPE OR SIMILAR APPROVED BY THE ENGINEER.



LEGEND

- EX BDY
- PROP BDY
- STAGING BDY
- EX WATERMAIN
- PROP 90mm OD PE
- PROP 125mm OD PE
- PROP 150mm OD PE
- PROP 180mm OD PE
- PROP 225mm OD PE
- PROP 275mm OD PE
- EX PROP HYDRANT
- EX PROP METER
- PROP SLUICE VALVE
- PROP PEAT VALVE

Rev	Description	By	Date
B	FOR CONSENT	DP	03/26
A	FOR REVIEW	DP	11/25

Survey	MAVEN	Date	05/2025
Design	DP	11/25	
Drawn	DP	11/25	
Checked	CS	11/25	

M A V E N

Naven Bay of Plenty
 115 Cameron Street, Tauranga
 New Zealand

Project
 WAIRAKEI SOUTH FTA090
 DEVELOPMENT
 BELL ROAD, PAPAMOA
 FOR BELL ROAD
 LIMITED PARTNERSHIP

Title
 PROPOSED
 WATER SUPPLY LAYOUT
 PLAN

Project no. BOP0749
Scale 1:2000 @ A3
Client BOP/14-0000.DWG
Drawing no. C600-1-2
 Rev B

FOR CONSENT

- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE.
 - MINIMUM COVER SHALL BE:
 - ROADS, FOOTPATHS, CROSSINGS: 1000MM
 - BERMS 800MM
 - SERVICE CONNECTIONS: 350MM
 - WATERMANS LAID ACROSS ROADS SHALL BE 100MM ABOVE THE EMBANKMENT MATERIAL, 200MM ABOVE THE ROAD SURFACE.
 - ALL UPIC PIPE SHALL BE PN9 MINIMUM PRESSURE RATED WITH SPAGNOT AND SOCKET RUBBER RING JOINTS.
 - ALL PE PIPE SHALL BE PN2.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 - PIPS SHALL BE BEDED AND SURROUNDED TO COUNCIL STANDARDS.
 - METAL DETECTOR PIPE PRINTED WITH WATER PIPE BELOW SHALL BE LAD 150MM ABOVE ALL WATERMANS.
 - A YELLOW SOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS. WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERB SHALL ALSO BE PAINTED YELLOW.
 - ALL VALVES MARKED WITH SWICHT KERS AND BLUE PAINT. ALL VALVES SHALL BE MARKED WITH APPROVED CONCRETE MARKER POST.
 - ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

---	EX BODY
---	PROP BODY
---	STAGING BODY
---	EX WATERMAIN
---	PROP 500mm OD PE
---	PROP 280mm OD PE
---	PROP 180mm OD PE
---	PROP 125mm OD PE
---	PROP 63mm OD PE
---	EX/PROP HYDRANT
---	EX/PROP METER
---	PROP SLIICE VALVE
---	PROP PEAT VALVE

Rev	Description	By	Date
B	FOR CONSENT	DP	03/26
A	FOR REVIEW	DP	11/25

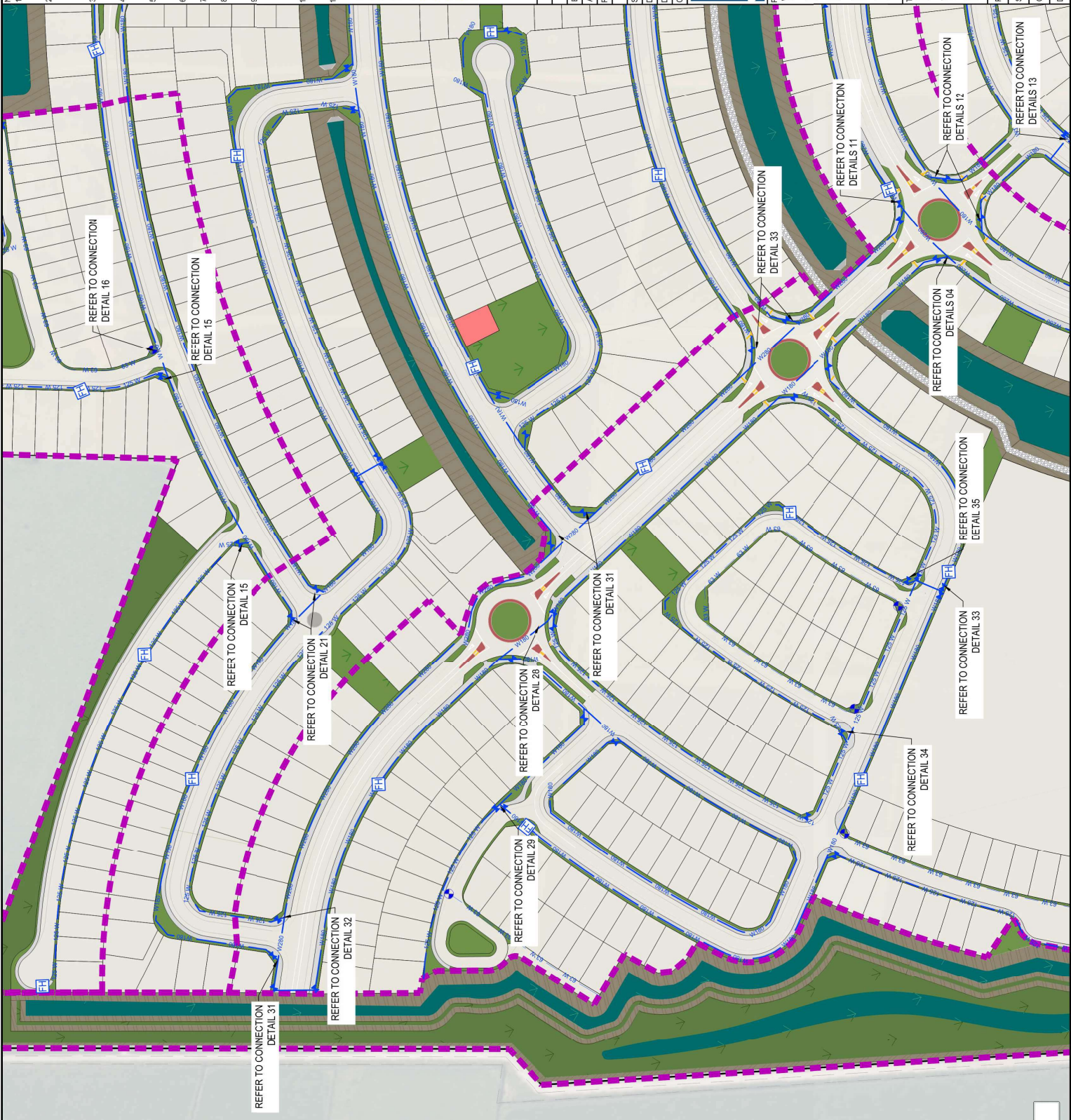
Survey	MAVEN	05/2025
Design	DP	11/25
Drawn	DP	11/25
Checked	CS	11/25



Project
WAIRAKEI SOUTH FTA090 DEVELOPMENT
BELL ROAD, PAPAMOA
FOR BELL ROAD LIMITED PARTNERSHIP

Title
PROPOSED WATER SUPPLY LAYOUT PLAN

Project no. BOP0749
 Scale 1:2000 @ A3
 Cad file BOP0749-0000.DWG
 Drawing no. C600-1-3
 Rev B



<p>NOTES</p> <ol style="list-style-type: none"> ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE. MINIMUM COVER SHALL BE: <ul style="list-style-type: none"> ROADS, FOOTPATHS, CROSSINGS: 1000MM BERMS 800MM 350MM WATERMANS LAID ACROSS ROADS SHALL BE LAYERS ABOVE THE EMERGENCY MATERIAL LAYERS ABOVE THE EMERGENCY MATERIAL. ALL UPC PIPE SHALL BE RING MINIMUM PRESSURE RATED WITH SPOKNOT AND SOCKET RUBBER RING JOINTS. ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE. ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS. PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SLOTT WITH SAND OR GP20. ALL EXPOSED WATERMANS SHALL BE LAD 150MM ABOVE ALL WATERMANS. A YELLOW ISOGRIFES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS. WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERB SHALL ALSO BE PAINTED YELLOW. ALL VALVES TO BE MARKED WITH SLOTT KEBB WITH YELLOW ISOGRIFES TRIANGLE. VALVES TO BE MARKED WITH APPROVED CONCRETE MARKER POST. ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER. 													
<p>LEGEND</p> <ul style="list-style-type: none"> EX BDY PROP BDY STAGING BDY EX WATERMAIN <ul style="list-style-type: none"> PROP 500mm OD PE PROP 280mm OD PE PROP 180mm OD PE PROP 125mm OD PE PROP 63mm OD PE EX/PROP HYDRANT EX/PROP METER PROP SLUICE VALVE PROP PEAT VALVE 													
<table border="1"> <tr> <td>Rev</td> <td>Description</td> <td>By</td> <td>Date</td> </tr> <tr> <td>B</td> <td>FOR CONSENT</td> <td>DP</td> <td>03/26</td> </tr> <tr> <td>A</td> <td>FOR REVIEW</td> <td>DP</td> <td>11/25</td> </tr> </table>		Rev	Description	By	Date	B	FOR CONSENT	DP	03/26	A	FOR REVIEW	DP	11/25
Rev	Description	By	Date										
B	FOR CONSENT	DP	03/26										
A	FOR REVIEW	DP	11/25										
<table border="1"> <tr> <td>Survey</td> <td>MAVEN</td> <td>05/2025</td> </tr> <tr> <td>Design</td> <td>DP</td> <td>11/25</td> </tr> <tr> <td>Drawn</td> <td>DP</td> <td>11/25</td> </tr> <tr> <td>Checked</td> <td>CS</td> <td>11/25</td> </tr> </table>		Survey	MAVEN	05/2025	Design	DP	11/25	Drawn	DP	11/25	Checked	CS	11/25
Survey	MAVEN	05/2025											
Design	DP	11/25											
Drawn	DP	11/25											
Checked	CS	11/25											

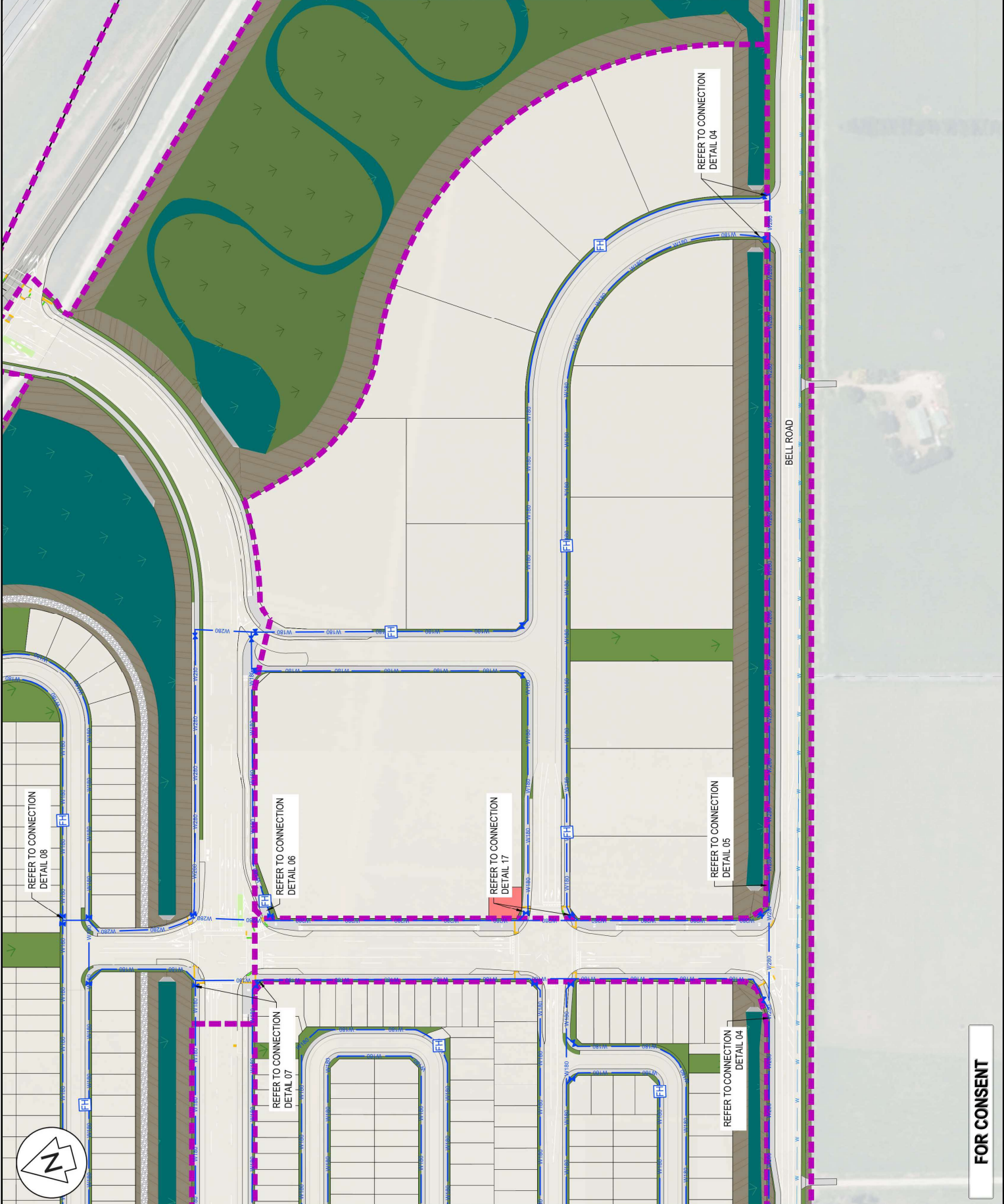
M A V E N

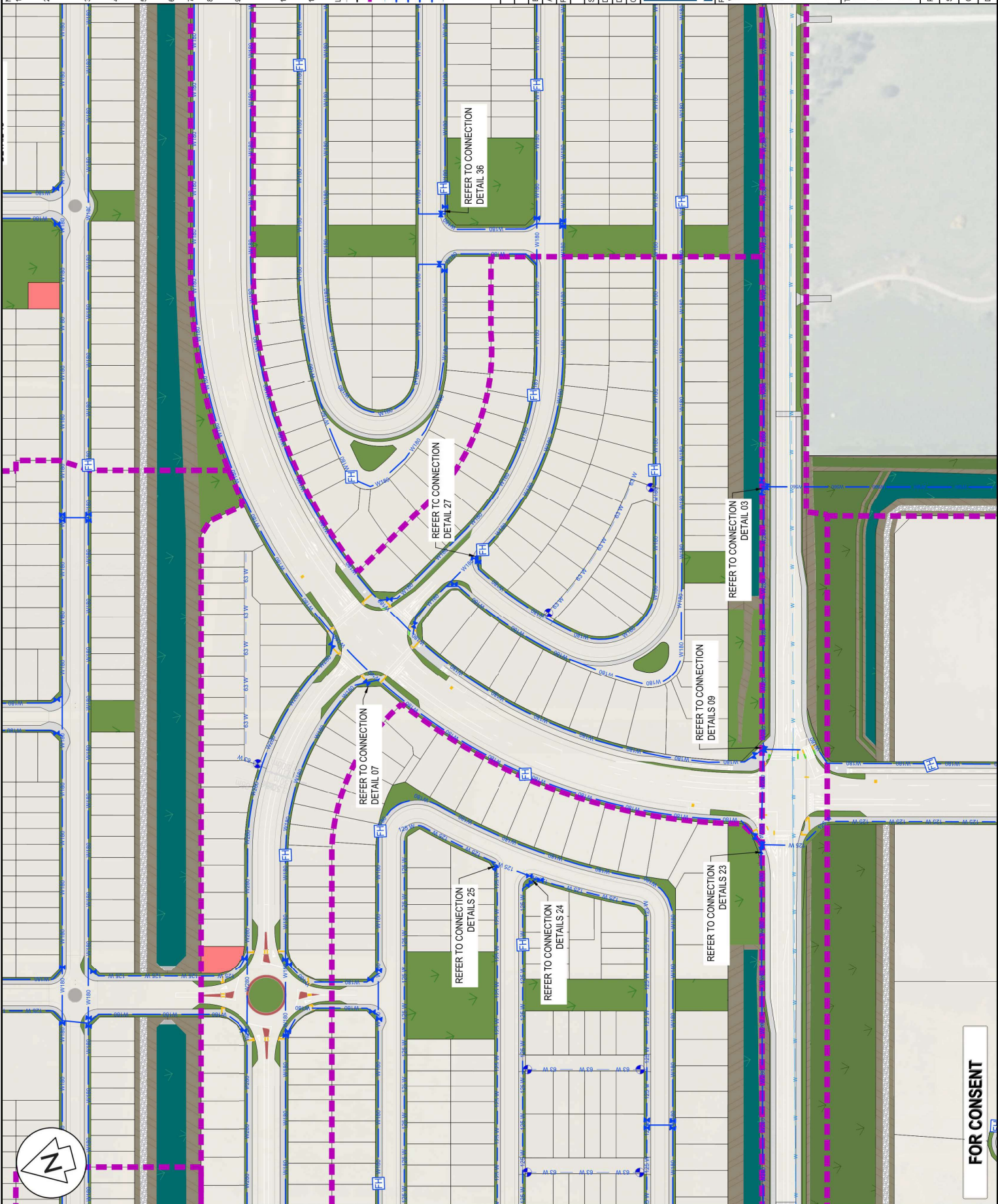
Naven Bay of Plenty
 115 Cameron Street, Tauranga
 New Zealand

Project
WAIRAKEI SOUTH FTA090 DEVELOPMENT
BELL ROAD, PAPAMOA
FOR BELL ROAD LIMITED PARTNERSHIP

Title
PROPOSED WATER SUPPLY LAYOUT PLAN

Project no.	BOP0749
Scale	1:2000 @ A3
Card file	SP0749-0000.DWG
Drawing no.	C600-1-4
Rev	B





- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE.
 - MINIMUM COVER SHALL BE:
ROADS, FOOTPATHS, CROSSINGS: 1000MM
BERMS 600MM
SERVICE CONNECTIONS:
350MM
 - WATERMANS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARPOLL COMPACTED IN 200MM LAYERS TO THE FINISH OF THE ROAD SURFACE. ALL EXPOSED PIPES SHALL BE RATED TO MINIMUM PRESSURE RATED WITH SPIGOT AND SOCKET RUBBERING JOINTS.
 - ALL PE PIPE SHALL BE PN2.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SLOTT WITH SAND OR RP20. ALL EXPOSED PIPE SHALL BE PAINTED WITH WATER PIPE WATERMANS TO BE LAD 150MM ABOVE ALL WATERMANS.
 - A YELLOW ISOCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERB SHALL ALSO BE PAINTED YELLOW.
 - ALL VALVES TO BE MARKED WITH SAMCUT KERB AND PAINTED YELLOW. ALL VALVES TO BE MARKED WITH APPROVED CONCRETE MARKER POST.
 - ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

- EX BDDY
- PROP BDDY
- STAGING BDDY
- EX WATERMAIN
- PROP 500mm OD PE
- PROP 280mm OD PE
- PROP 180mm OD PE
- PROP 125mm OD PE
- PROP 83mm OD PE
- EXPROP HYDRANT
- EXPROP METER
- PROP SLUCE VALVE
- PROP PEAT VALVE

Rev	Description	By	Date
B	FOR CONSENT	DP	03/26
A	FOR REVIEW	DP	11/25

By	Date
Survey	05/2025
Design	11/25
Drawn	11/25
Checked	11/25

Maven Bay of Plenty
 115 Cameron Street, Tauranga
 New Zealand

Project
WAIRAKEI SOUTH FTA090 DEVELOPMENT
BELL ROAD, PAPAMOA
FOR BELL ROAD LIMITED PARTNERSHIP

Title
PROPOSED WATER SUPPLY LAYOUT PLAN

Project no.	BOP0749
Scale	1:2000 @ A3
Card file	spwpsvcs-0000.dwg
Drawing no.	C600-1-5
Rev	B

ORIGINAL SIZE: A3

FOR CONSENT

NOTES

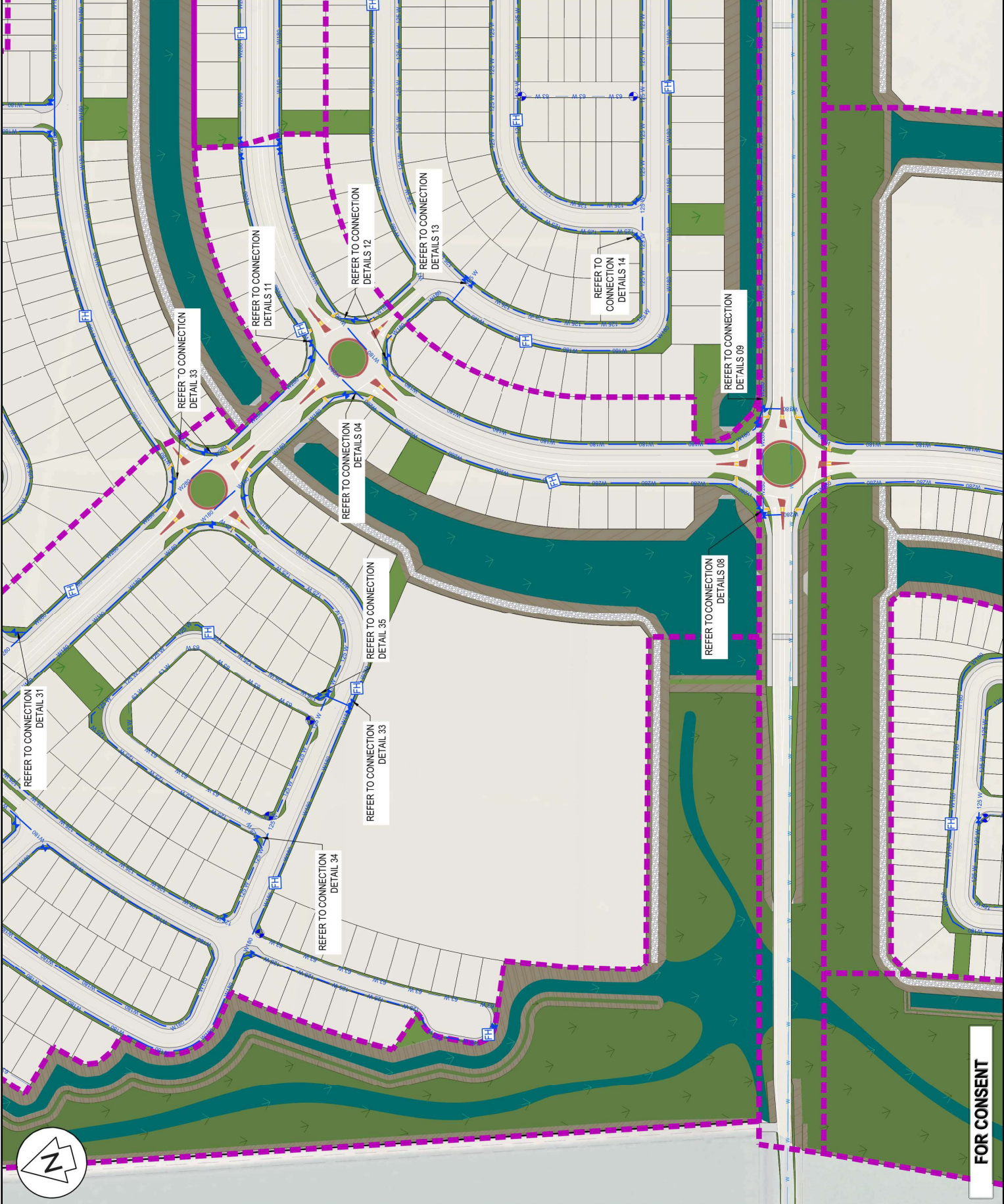
- ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE.
- MINIMUM COVER SHALL BE:
 - ROADS, FOOTPATHS, CROSSINGS: 1000MM
 - BERMIS 800MM
 - SERVICE CONNECTIONS: 350MM
- WATERMANS LAID ACROSS ROADS SHALL BE 200MM ABOVE THE FINISHED ROAD SURFACE. 200MM LAYERS ABOVE THE EMBEMENT MATERIAL.
- ALL UPVC PIPE SHALL BE PN9 MINIMUM PRESSURE RATED WITH SPAGNOT AND SOCKET RUBBER RING JOINTS.
- ALL PE PIPE SHALL BE PN2.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
- ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
- PIPES SHALL BE BEDED AND SURROUNDED TO COUNCIL STANDARDS.
- ALL METAL DETECTOR PIPE POINTED WITH WATER PIPE BELOW SHALL BE LAD 150MM ABOVE ALL WATERMANS.
- A YELLOW SOSSELLES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS. WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERB SHALL ALSO BE PAINTED YELLOW.
- ALL VALVES SHALL BE MARKED WITH SAWSWITCHES AND BLUE PAINT. ALL VALVES SHALL BE MARKED WITH APPROVED CONCRETE MARKER POST.
- ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

- EX BDY
- PROP BDY
- STAGING BDY
- EX WATERMAIN
- PROP 560mm OD PE
- PROP 280mm OD PE
- PROP 180mm OD PE
- PROP 125mm OD PE
- PROP 85mm OD PE
- EXPROP HYDRANT
- EXPROP METER
- PROP SLUCE VALVE
- PROP PEAT VALVE

Rev	Description	By	Date
B	FOR CONSENT	DP	03/26
A	FOR REVIEW	DP	11/25
Survey	MAVEN		05/2025
Design	DP		11/25
Drawn	DP		11/25
Checked	CS		11/25

Maven Bay of Plenty
 115 Cameron Street, Tauranga
 New Zealand

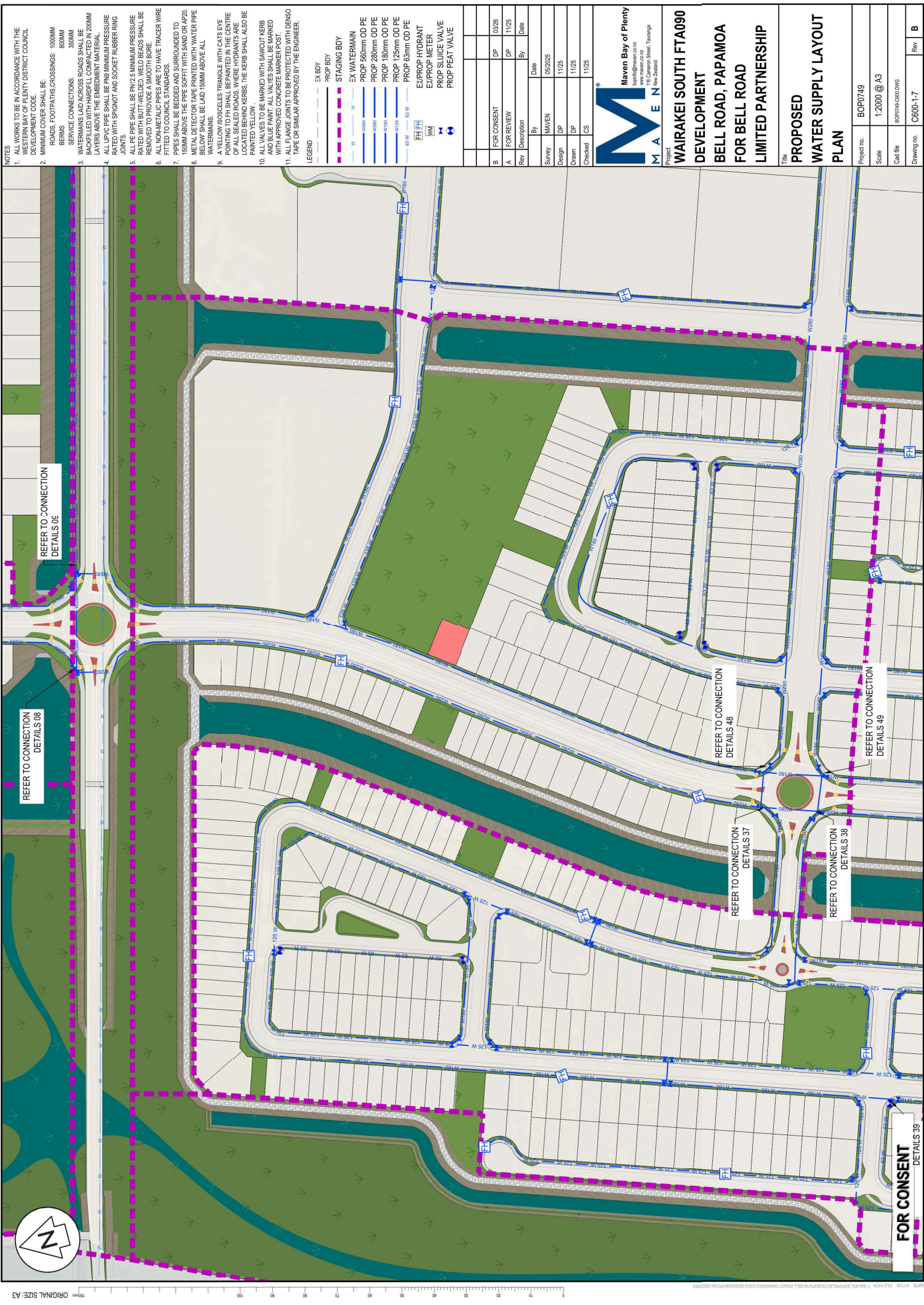


FOR CONSENT

Project no.	BOP0749
Scale	1:2000 @ A3
Card file	SP0194-0000.DWG
Drawing no.	C600-1-6
Rev	B

PROPOSED WATER SUPPLY LAYOUT PLAN

WAIRAKEI SOUTH FTA090 DEVELOPMENT
BELL ROAD, PAPAMOA
FOR BELL ROAD LIMITED PARTNERSHIP



- NOTES**
1. ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE.
 2. MINIMUM COVER SHALL BE:
ROADS, FOOTPATHS CROSSINGS: 1000MM
BERMS 600MM
SERVICE CONNECTIONS:
350MM
 3. WATERMANS LAID ACROSS ROADS SHALL BE BACKFILLED WITH GRANULES COMPACTED IN 200MM LIFTS TO THE FINISH SURFACE.
 4. ALL L.P.C. PIPE SHALL BE RING MINIMUM PRESSURE RATED WITH SPAGNOT AND SOCKET RUBBERING JOINTS.
 5. ALL L.P.C. PIPE SHALL BE RING 2.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 6. ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 7. PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SLOTT WITH SAND OR #20. BELOW SHALL BE LAD 150MM ABOVE ALL WATERMANS.
 8. A YELLOW ISOCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS, WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERB SHALL ALSO BE PAINTED YELLOW.
 9. ALL VALVES TO BE MARKED WITH SMCUT KERB WITH APPROVED CONCRETE MARKER POST WITH APPROVED CONCRETE MARKER POST.
 10. ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

	EX B.O.Y
	PROP B.O.Y
	STAGING B.O.Y
	EX WATERMAIN
	PROP 500mm OD PE
	PROP 280mm OD PE
	PROP 180mm OD PE
	PROP 125mm OD PE
	PROP 65mm OD PE
	EXPROP HYDRANT
	EXPROP METER
	PROP SLUICE VALVE
	PROP PEAT VALVE

By	Date
MAVEN	05/02/25
DP	11/25
DP	11/25
CS	11/25

Rev	Description	By	Date
B	FOR CONSENT	DP	03/26
A	FOR REVIEW	DP	11/25

Maven Bay of Plenty
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 New Zealand
 www.maven.co.nz

Project
WAIRAKEI SOUTH FTA090 DEVELOPMENT
BELL ROAD, PAPAMO A
FOR BELL ROAD LIMITED PARTNERSHIP

Title
PROPOSED WATER SUPPLY LAYOUT PLAN

Project no.	BOP0749
Scale	1:2000 @ A3
Client	lpn@lpn.co.nz
Drawing no.	0600-1-7

Rev	B
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- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE.
 - MINIMUM COVER SHALL BE:
ROADS, FOOTPATHS CROSSINGS: 1000MM
SERVICES 300MM
 - WATERMANS LAID ACROSS ROADS SHALL BE 100MM ABOVE THE ROAD SURFACE AND 200MM LAYERS ABOVE THE EMBANKMENT MATERIAL.
 - ALL UPVC PIPE SHALL BE PN10 MINIMUM PRESSURE RATED WITH SPIGOT AND SOCKET RUBBERING JOINTS.
 - ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SLOTT WITH SAND OR GP20.
 - PIPES SHALL BE BEDDED TO 150MM BELOW PIPE BELOW SHALL BE LAD 150MM ABOVE ALL WATERMANS.
 - A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS. WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERB SHALL ALSO BE PAINTED YELLOW.
 - ALL PIPES SHALL BE MARKED WITH SAUNGT KEBS AND BUSHES. ALL VALVES SHALL BE MARKED WITH APPROVED CONCRETE MARKER POST.
 - ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

---	EX BODY
---	PROP BODY
---	STAGING BODY
---	EX WATERMAN
---	PROP 160mm OD PE
---	PROP 150mm OD PE
---	PROP 125mm OD PE
---	PROP 63mm OD PE
---	EX/PROP HYDRANT
---	EX/PROP METER
---	PROP SLUCE VALVE
---	PROP PEAT VALVE

B	FOR CONSENT	DP	03/26
A	FOR REVIEW	DP	11/25
Rev	Description	By	Date

Survey	MAVEN	05/2025
Design	DP	11/25
Drawn	DP	11/25
Checked	CS	11/25

M A V E N
Naven Bay of Plenty
115 Cameron Street, Tauranga
New Zealand

Project
WAIRAKEI SOUTH FTA090
DEVELOPMENT
BELL ROAD, PAPAMOA
FOR BELL ROAD
LIMITED PARTNERSHIP

Title
PROPOSED
WATER SUPPLY LAYOUT
PLAN

Project no.	BOP0749
Scale	1:2000 @ A3
Card file	SP0195-0000.DWG
Drawing no.	C600-1-9
Rev	B

ORIGINAL SIZE: A3

FOR CONSENT

- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE.
 - MINIMUM COVER SHALL BE:
ROADS, FOOTPATHS, CROSSINGS: 1000MM
BERMS 800MM
SERVICE CONNECTIONS:
350MM
1000MM
 - WATERMANS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200MM LAYERS ABOVE THE WATER MAINS. THE MINIMUM PRESSURE RATED WITH SPIGOT AND SOCKET RUBBERING JOINTS.
 - ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SOFFIT WITH SAND OR #20. METALLECT OR TYPE PRINTED WITH WATER PIPE BEG. SHALL BE USED AND 150MM ABOVE ALL WATERMANS.
 - A YELLOW SOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS. WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERB SHALL ALSO BE PAINTED YELLOW.
 - ALL VALVES TO BE MARKED WITH SAWCUT KERB WITH SPIGOT AND SOCKET RUBBERING MARKED WITH APPROVED CONCRETE MARKER POST.
 - ALL FLANGE JOINTS TO BE PROTECTED WITH DENSOTAPE OR SIMILAR APPROVED BY THE ENGINEER.

- LEGEND**
- EX BDY
 - PROP BDY
 - STAGING BDY
 - EX WATERMAIN
 - PROP 560mm OD PE
 - PROP 280mm OD PE
 - PROP 180mm OD PE
 - PROP 125mm OD PE
 - PROP 63mm OD PE
 - EX PROP HYDRANT
 - EX PROP METER
 - PROP SUJICE VALVE
 - PROP PEAT VALVE

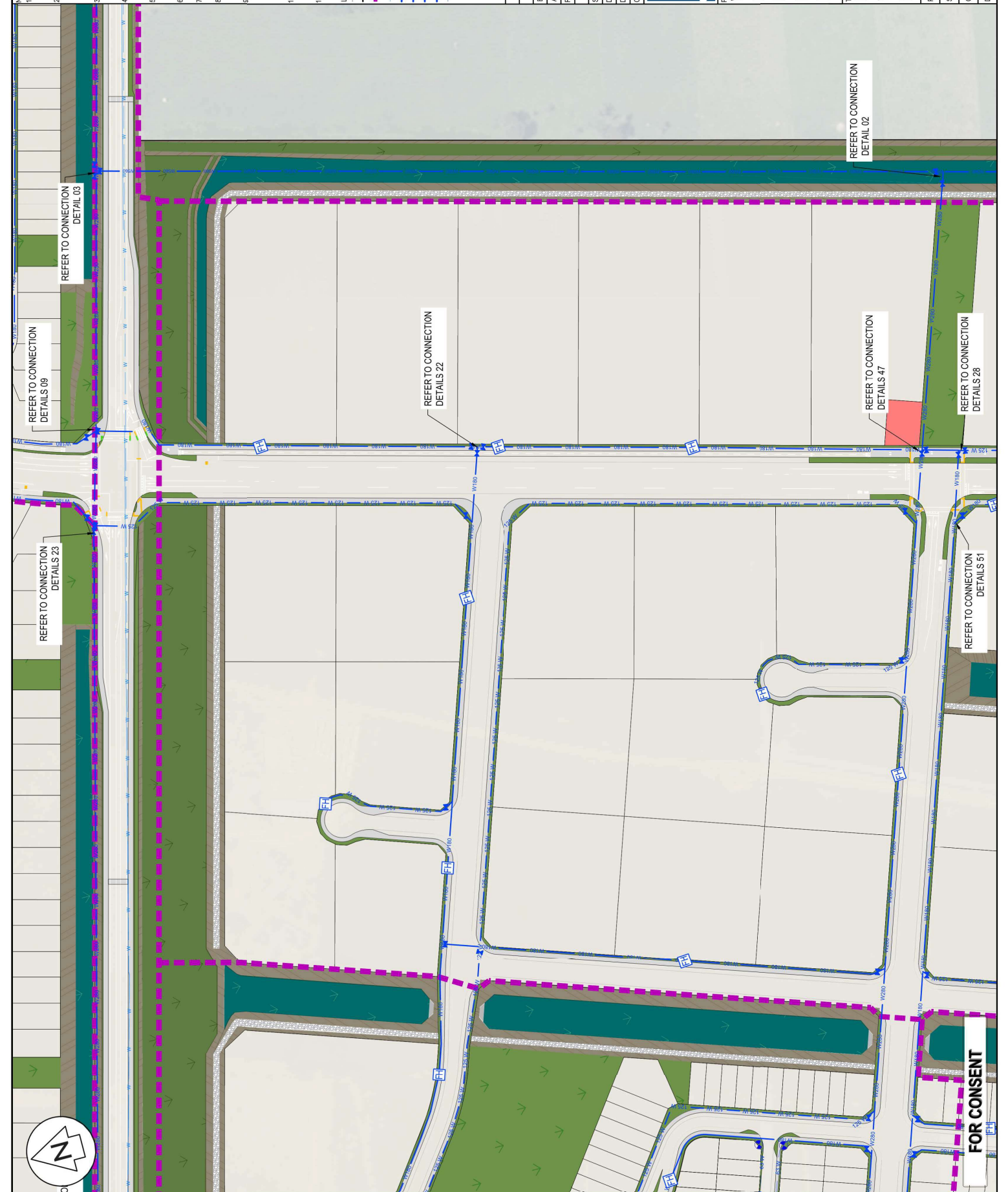
B	FOR CONSENT	DP	03/26
A	FOR REVIEW	DP	11/25
Rev	Description	By	Date
Survey	MAVEN		05/2025
Design	DP		11/25
Drawn	DP		11/25
Checked	CS		11/25



Project
WAIRAKEI SOUTH FTA090 DEVELOPMENT
BELL ROAD, PAPAMOA
FOR BELL ROAD LIMITED PARTNERSHIP

Title
PROPOSED WATER SUPPLY LAYOUT PLAN

Project no.	BOP0749
Scale	1:2000 @ A3
Cell file	spwps-000.dwg
Drawing no.	C600-1-10
Rev	B



- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE.
 - MINIMUM COVER SHALL BE:
ROADS, FOOTPATHS, CROSSINGS: 1000MM
BERMS 800MM
SERVICE CONNECTIONS:
300MM
WATERMANS LAID ACROSS ROADS SHALL BE 150MM ABOVE THE ROAD SURFACE AND IN 200MM LAYERS ABOVE THE EMBANKMENT MATERIAL.
 - ALL PVC PIPE SHALL BE RING MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBERING JOINTS.
 - ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SLOTT WITH SAND OR #920. DETAILS OF CONNECTIONS SHALL BE AS WATER PIPE WATERMANS.
 - A YELLOW ISOGRIFES TRACING F WITH CATS EYF POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS, WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERB SHALL ALSO BE PAINTED YELLOW.
 - ALL VALVES TO BE MARKED WITH SANGUIT KERB WITH APPROVED CONCRETE MARKER POST.
 - ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

- EX BODY
- PROP BODY
- STAGING BODY
- EX WATERMAIN
- PROP 160mm OD PE
- PROP 200mm OD PE
- PROP 280mm OD PE
- PROP 300mm OD PE
- PROP 400mm OD PE
- PROP 450mm OD PE
- PROP 500mm OD PE
- EX PROP HYDRANT
- EX PROP METER
- PROP SLUICE VALVE
- PROP PEAT VALVE

B	FOR CONSENT	DP	03/26
A	FOR REVIEW	DP	11/25
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Survey	MAVEN		05/2025
Design	DP		11/25
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Maven Bay of Plenty
 115 Cameron Street, Tauranga
 New Zealand
 www.maven.co.nz

Project
WAIRAKEI SOUTH FTA090
DEVELOPMENT
BELL ROAD, PAPAMOA
FOR BELL ROAD
LIMITED PARTNERSHIP

Title
PROPOSED
WATER SUPPLY LAYOUT
PLAN

Project no.	BOP0749
Scale	1:2000 @ A3
Card file	spw1916-0000.dwg
Drawing no.	C600-1-11
Rev	B



DATE: 4/12/25 FILE PATH: F:\M\ENR_20\PROJECTS\090749\BELL ROAD\090749_CAD DESIGN\090749_C000.DWG ORIGINAL SIZE: A3

FOR CONSENT



- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE.
 - MINIMUM COVER SHALL BE:
ROADS, FOOTPATHS, CROSSINGS: 1000MM
BERMS 800MM
SERVICE CONNECTIONS:
350MM
 - WATERMANS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARPILL COMPACTED IN 200MM LIFTS TO THE FINISHED ROAD SURFACE.
 - ALL PE PIPE SHALL BE RATED WITH MINIMUM PRESSURE RATED WITH SPAGNOT AND SOCKET RUBBERING JOINTS.
 - ALL PE PIPE SHALL BE RATED WITH MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SUFFIT WITH SAND OR #20. ALL EXPOSED OR TYPE 1 PIPE SHALL BE WRAPPED WITH WATER PIPE BELL END SHALL BE LAD 150MM ABOVE ALL WATERMANS.
 - A YELLOW SOSCELES TRIANGLE WITH CAT'S EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERBS SHALL ALSO BE PAINTED YELLOW.
 - ALL VALVES TO BE MARKED WITH SAWCUT KERBS AND A YELLOW TRIANGLE WITH CAT'S EYE POINTING TO THE VALVE. ALL VALVES TO BE MARKED WITH APPROVED CONCRETE MARKER POST.
 - ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

---	EX BDY
---	PROP BDY
---	STAGING BDY
---	EX WATERMAIN
---	PROP 90mm OD PE
---	PROP 280mm OD PE
---	PROP 180mm OD PE
---	PROP 125mm OD PE
---	PROP 63mm OD PE
---	EX PROP HYDRANT
---	EX PROP METER
---	PROP SLUICE VALVE
---	PROP PEAT VALVE

Rev	Description	By	Date
B	FOR CONSENT	DP	03/26
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Survey	MAVEN	05/2025
Design	DP	11/25
Drawn	DP	11/25
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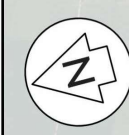
Project
WAIRAKEI SOUTH FTA090 DEVELOPMENT
BELL ROAD, PAPAMOA
FOR BELL ROAD LIMITED PARTNERSHIP

Title
PROPOSED WATER SUPPLY LAYOUT PLAN

Project no.	BOP0749
Scale	1:2000 @ A3
Card file	sp0749-000.dwg
Drawing no.	C600-1-13
Rev	B

PROPOSED CONNECTION TO WAIRAI MAIN AND CROSSING BENEATH KOPUAROA CANAL (REFER TO CONNECTION DETAIL 01)

FOR CONSENT



NOTE: FIRE HYDRANTS COVERED BASED ON MAXIMUM 135M HOSE-LAY DISTANCE MEASURED ALONG THE WALKING ROUTE IN ACCORDANCE WITH WBCDC. RADIAL DISTANCES SHOWN ARE INDICATIVE ONLY.

- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH THE WESTERN BAY OF PLENTY DISTRICT COUNCIL DEVELOPMENT CODE.
 - MINIMUM COVER SHALL BE:
 - ROADS, FOOTPATHS, CROSSINGS: 100MM
 - BERMS 80MM
 - 350MM
 - WATERMANS LAD ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200MM LAYERS ABOVE THE EMBEDED WATERMANS LAD. THE WATERMANS LAD SHALL BE PROTECTED WITH SFRIGOT AND SOCKET RUBBER RING JOINTS.
 - ALL PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED, WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 - ALL NON-METALLIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SLOTT WITH SAND OR RAP20.
 - METAL DETECTOR TAPE PRINTED WITH WATER PIPE SYMBOLS SHALL BE LAD 150MM ABOVE ALL WATERMANS.
 - A YELLOW SLOSSELES TRIANGLE WITH CAT'S EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS, WHERE HYDRANTS ARE LOCATED BEHIND KERBS, THE KERB SHALL ALSO BE PAINTED YELLOW.
 - ALL VALVES TO BE MARKED WITH SAWCUT KERB AND A YELLOW SLOSSELES TRIANGLE WITH CAT'S EYE POINTING TO THE VALVE. ALL VALVES TO BE MARKED WITH APPROVED CONCRETE MARKER POST.
 - ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

- EX B'DY
- PROP B'DY
- EX WATERMAIN
- PROP 560mm OD PE
- PROP 280mm OD PE
- PROP 180mm OD PE
- PROP 125mm OD PE
- PROP 63mm OD PE
- EX PROP HYDRANT
- EX PROP METER
- EX PROP SLUICE VALVE
- EX PROP PEAT VALVE

Rev	Description	By	Date
B	FOR CONSENT	DP	03/26
A	FOR REVIEW	DP	11/25

By	Date
Survey	MAVEN 05/2025
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Project
WAIRAKEI SOUTH FTA090 DEVELOPMENT
BELL ROAD, PAPAMOA
FOR BELL ROAD LIMITED PARTNERSHIP

Title
FIRE HYDRANT COVERAGE PLAN

Project no.	BOP0749
Scale	1:10000 @ A3
Card file	SP01914-0000.DWG
Drawing no.	C610-1
Rev	B

FOR CONSENT