

- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH WESTERN BAY OF PLENTY DEVELOPMENT CODE.
  - CO-ORDINATES IN TERMS OF BAY OF PLENTY 2000.
  - REDUCED LEVELS ARE IN TERMS OF NZVD 2016. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR SERVICES.
  - PIPE BEDDING IS 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING, GREATER THAN 20% WEAK CONCRETE BEDDING (MIPA PLUS ANTI SCOUR BLOCKS AT 6M CRS).
  - EACH CONNECTION SHALL BE MARKED BY A 60MMx60MM TREATED PINE STAKE EXTENDING 500MM ABOVE GROUND LEVEL WITH THE TOP PAINTED RED. STAKES SHALL BE INSTALLED AT THE TIME OF PRELAYING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON 'AS BUILT' PLANS.
  - APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
  - ALL MANHOLES AND FRAMES TO BE USED IN TRAFFICKED AREAS. ALL MANHOLES SHALL HAVE STAINLESS GRATES INSTALLED.
  - ALL LINES ARE TO BE 150MM Ø PVC CLASS SM16 UNLESS SHOWN OTHERWISE.
  - 150MM Ø PIPES THAT DO NOT TERMINATE IN A MANHOLE MUST BE TERMINATED WITH A 100MM Ø x 150MM Ø LUNDSN JUNCTION AND BLANK CAP.
  - ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

**LEGEND**

---	EXISTING
---	PROPOSED
---	PROPOSED BOD
---	EX WASTEWATER
---	PROPOSED WASTEWATER
---	PROPOSED WASTEWATER MAIN
---	EX PROPOSED WASTEWATER MAIN

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 WASTEWATER OVERVIEW PLAN**

Project no.	BOP0749
Scale	1:25000
Card file	BOPWA-0500.DWG
Drawing no.	C500-0-1

Rev	B
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PROPOSED 2X400 DN HDPE PRIMARY RISING MAINS TO TE PUKE WWTP

PROPOSED WASTEWATER RISING MAINS TO TE PUKE WWTP ADJACENT TO WAIARI TRUNK WATERMAIN

**FOR CONSENT**

- NOTES**
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  2. CO-ORDINATES IN TERMS OF BAY OF PLENTY 2000.
  3. REDUCED LEVELS ARE IN TERMS OF NZVD 2016. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  4. 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING GREATER THAN 20% WEAK CONCRETE BEDDING (MPA PLUS ANTI SCOUR BLOCKS AT 9M CRS).
  5. EACH CONNECTION SHALL BE MARKED BY A 50MMx50MM TREATED PINE STAKE EXTENDING 600MM ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED AT THE POINT OF CONNECTION TO THE MAIN LINE OF PIPING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON 'AS BUILT' PLANS.
  6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
  7. HEAVY DUTY MANHOLELS AND FRAMES TO BE INSTALLED TO COUNCIL STANDARDS. ALL MANHOLELS SHALL HAVE STAINLESS GRATES INSTALLED.
  8. ALL LINES ARE TO BE 150MM Ø PVC CLASS SW16 UNLESS SHOWN OTHERWISE.
  9. 150MM Ø PIPES THAT DO NOT TERMINATE IN A MANHOLE MUST BE TERMINATED WITH A 100MM Ø x 150MM Ø LUNDSIN JUNCTION AND BLANK CAP.
  10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TYPING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

**LEGEND**

- PROP BDY
- EX WASTEWATER
- PROP WASTEWATER
- PROP WW RISING MAIN
- STAGE BOUNDARY
- EXPROP WWHH

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

**M A V E N**

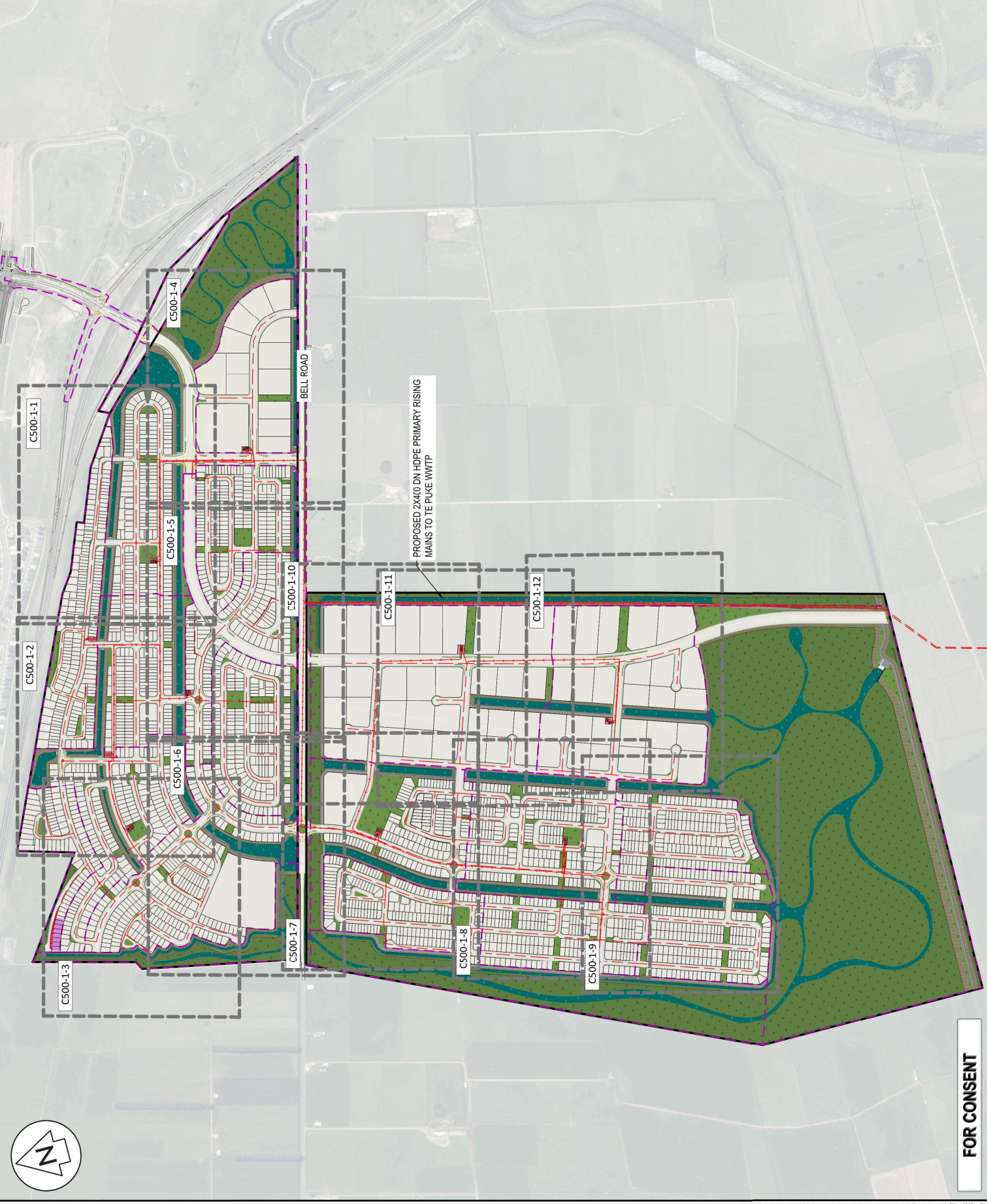
Naven Bay of Plenty  
 115 Cameron Street, Tauranga  
 www.naven.co.nz  
 New Zealand

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

**Title**

**PROPOSED WASTEWATER OVERVIEW PLAN**

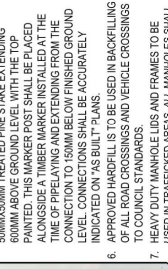
Project no.	BOP0749
Scale	1:10000
Cell file	spw19-c500.dwg
Drawing no.	C500-0-2
Rev	B



ORIGINAL SIZE: A3

**FOR CONSENT**

- NOTES
- ALL WORKS TO BE IN ACCORDANCE WITH WESTERN BAY OF PLENTY DEVELOPMENT CODE.
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  - REDUCED LEVELS ARE IN TERMS OF NZVD 2016. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  - THE PROPOSED 150MM GRANULAR BEDDING, 10-20% WEAK CONCRETE BEDDING (MPA PLUS ANTI SCOUR BLOCKS AT 9M CRS).
  - EACH CONNECTION SHALL BE MARKED BY A 50MMX50MM TREATED PINE STAKE EXTENDING 600MM ABOVE GROUND LEVEL WITH THE TOP PAINTED THIS MARKER POST SHALL BE PLACED 150MM FROM THE CENTERLINE OF THE PIPE. THE TIME OF PRELAYSING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL CONNECTIONS SHALL BE ACCURATELY INDICATED ON 'AS BUILT' PLANS.
  - APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
  - HEAVY DUTY MANHOLE COVERS AND FRAMES TO BE USED FOR ALL MANHOLES. MANHOLES SHALL HAVE STAINLESS GRATES INSTALLED.
  - ALL LINES ARE TO BE 150MM Ø PVC CLASS SW16 UNLESS SHOWN OTHERWISE.
  - 150MM Ø PIPES THAT DO NOT TERMINATE IN A MANHOLE MUST BE TERMINATED WITH A 100MM Ø ON A 150MM Ø LUNDSIN JUNCTION AND BLANK CAP.
  - ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF SEALING TO BE COORDINATED WITH COUNCIL STAFF.



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

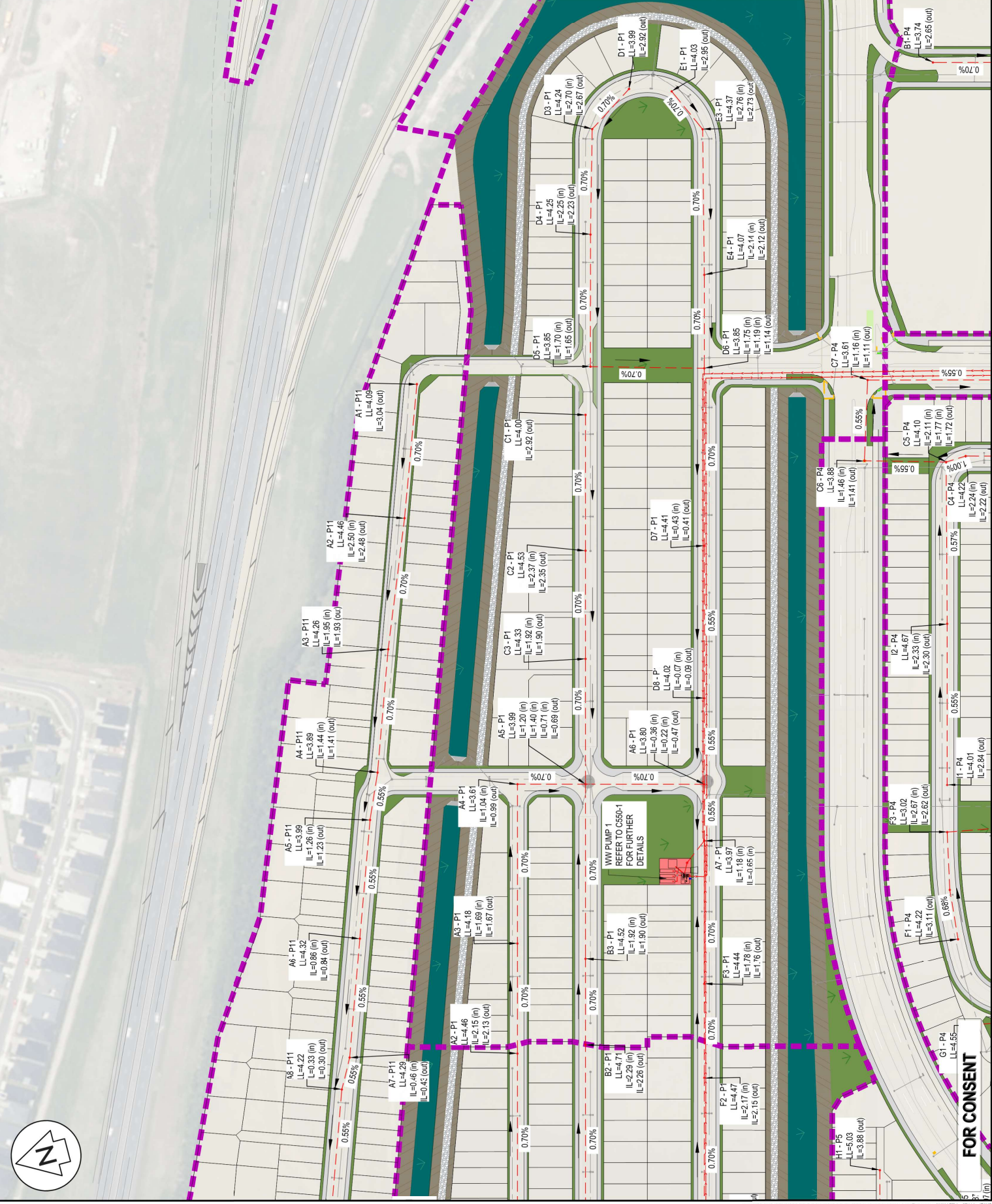
Survey	MAVEN	05/2025
Design	DP	11/25
Drawn	DP	11/25
Checked	CS	11/25

**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 WASTEWATER LAYOUT PLAN**

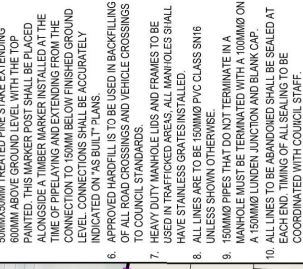
Project no. BOP0749  
Scale 1:2000  
Cell file BOP0749-000.dwg  
Drawing no. C500-1-1 Rev B



ORIGINAL SIZE: A3

**FOR CONSENT**

- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH WESTERN BAY OF PLENTY DEVELOPMENT CODE.
  - CO-ORDINATES IN TERMS OF BAY OF PLENTY 2000.
  - REDUCED LEVELS ARE IN TERMS OF NZVD 2016. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  - WEAK CONCRETE BEDDING GREATER THAN 20% WEAK CONCRETE BEDDING (M/PA PLUS ANTI SCOUR BLOCKS AT 6M CRS).
  - EACH CONNECTION SHALL BE MARKED BY A 50MMX50MM TREATED PINE STAKE EXTENDING 60MM ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED AT THE POINT OF CONNECTION. THE TIME OF PRELAYS AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL CONNECTIONS SHALL BE ACCURATELY INDICATED ON 'AS BUILT' PLANS.
  - APPROVED HAZARDOUS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
  - HEAVY DUTY MANHOLELIDS AND FRAMES TO BE USED. ALL MANHOLELIDS AND FRAMES SHALL HAVE STAINLESS GRATES INSTALLED.
  - ALL LINES ARE TO BE 150MM PVC CLASS SW16 UNLESS SHOWN OTHERWISE.
  - 150MM HDPE PIPES THAT DO NOT TERMINATE IN A MANHOLE MUST BE TERMINATED WITH A 100MM OD A 150MM HDPE LUNDSUN JUNCTION AND BLANK CAP.
  - ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TYPING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.



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

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

**M A V E N**

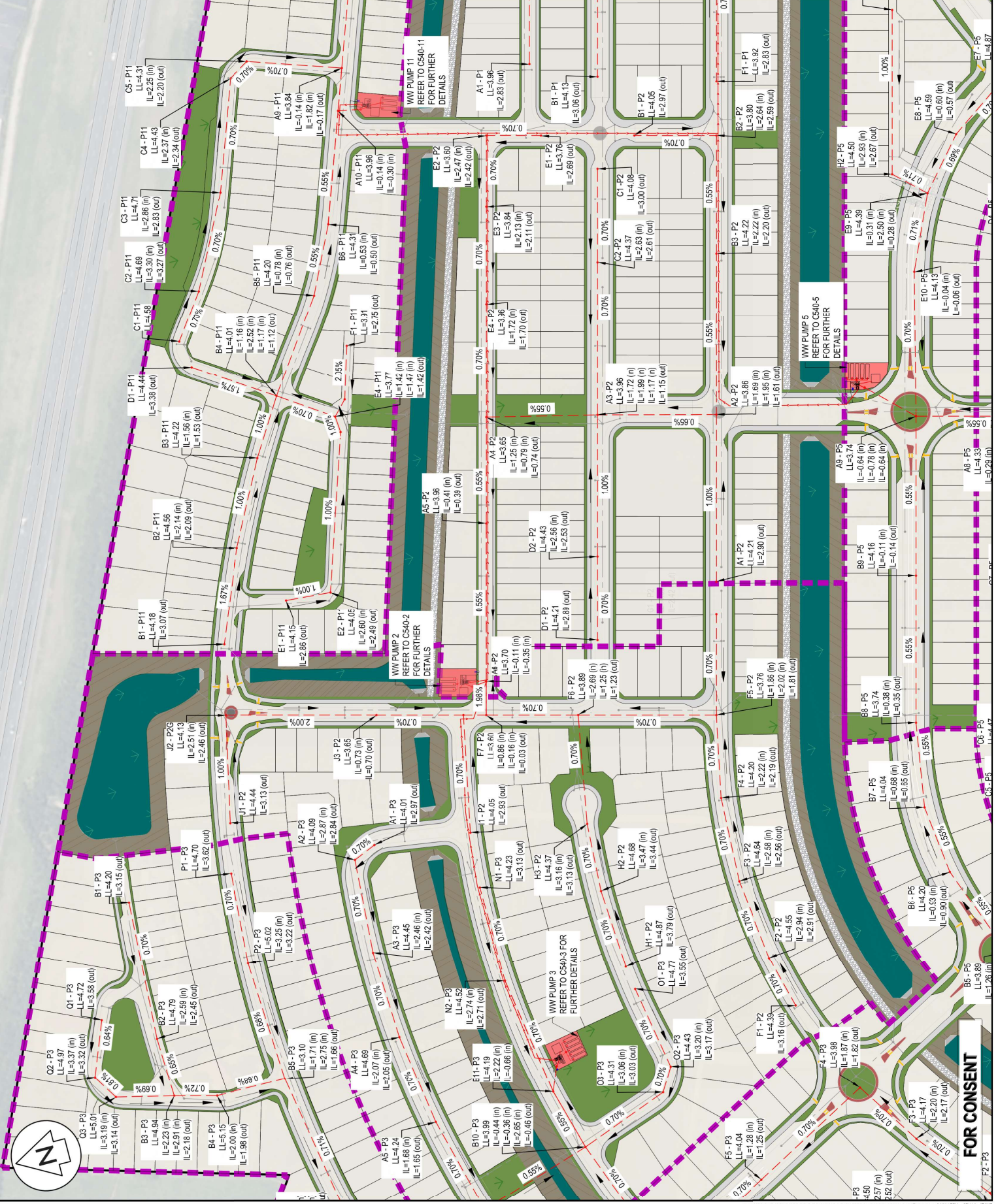
Naven Bay of Plenty  
 115 Cameron Street, Tauranga  
 New Zealand

**Project**

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

**Proposed WASTEWATER LAYOUT PLAN**

Project no.	BOP0749
Scale	1:2000
Client	bellpartnerships
Drawing no.	C500-1-2
Rev	B



ORIGINAL SIZE: A3

**FOR CONSENT**



- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH WESTERN BAY OF PLENTY DEVELOPMENT CODE.
  - CO-ORDINATES IN TERMS OF BAY OF PLENTY 2000.
  - REDUCED LEVELS ARE IN TERMS OF NZVD 2016. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE OPERATIONS THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  - WEAK CONCRETE BEDDING (MMPA PLUS ANTI SCOUR BLOCKS AT 9M CRS).
  - EACH CONNECTION SHALL BE MARKED BY A 50MMx50MM TREATED PINE STAKE EXTENDING 600MM ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED 100MM FROM THE END OF THE PIPE. THE TIME OF PRELAYSING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL CONNECTIONS SHALL BE ACCURATELY INDICATED ON 'AS BUILT' PLANS.
  - APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
  - HEAVY DUTY MANHOLE SLOTTED FRAMES TO BE USED AT ALL ROAD CROSSINGS. MANHOLE SLOTTED FRAMES SHALL HAVE STAINLESS GRATES INSTALLED UNLESS SHOWN OTHERWISE.
  - ALL LINES ARE TO BE 150MMØ PVC CLASS 816 UNLESS SHOWN OTHERWISE.
  - 150MMØ PIPES THAT DO NOT TERMINATE IN A MANHOLE MUST BE TERMINATED WITH A 100MMØ ON A 150MMØ LUNDSJON JUNCTION AND BLANK CAP.
  - ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

- LEGEND**
- EX BODY
  - PROP BODY
  - EX WASTEWATER
  - PROP WASTEWATER
  - PROP STAKE
  - PROP STAKE/FRANKING MAIN
  - STAGE BOUNDARY
  - EX PROP WWHH
  - PROP SWMH

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

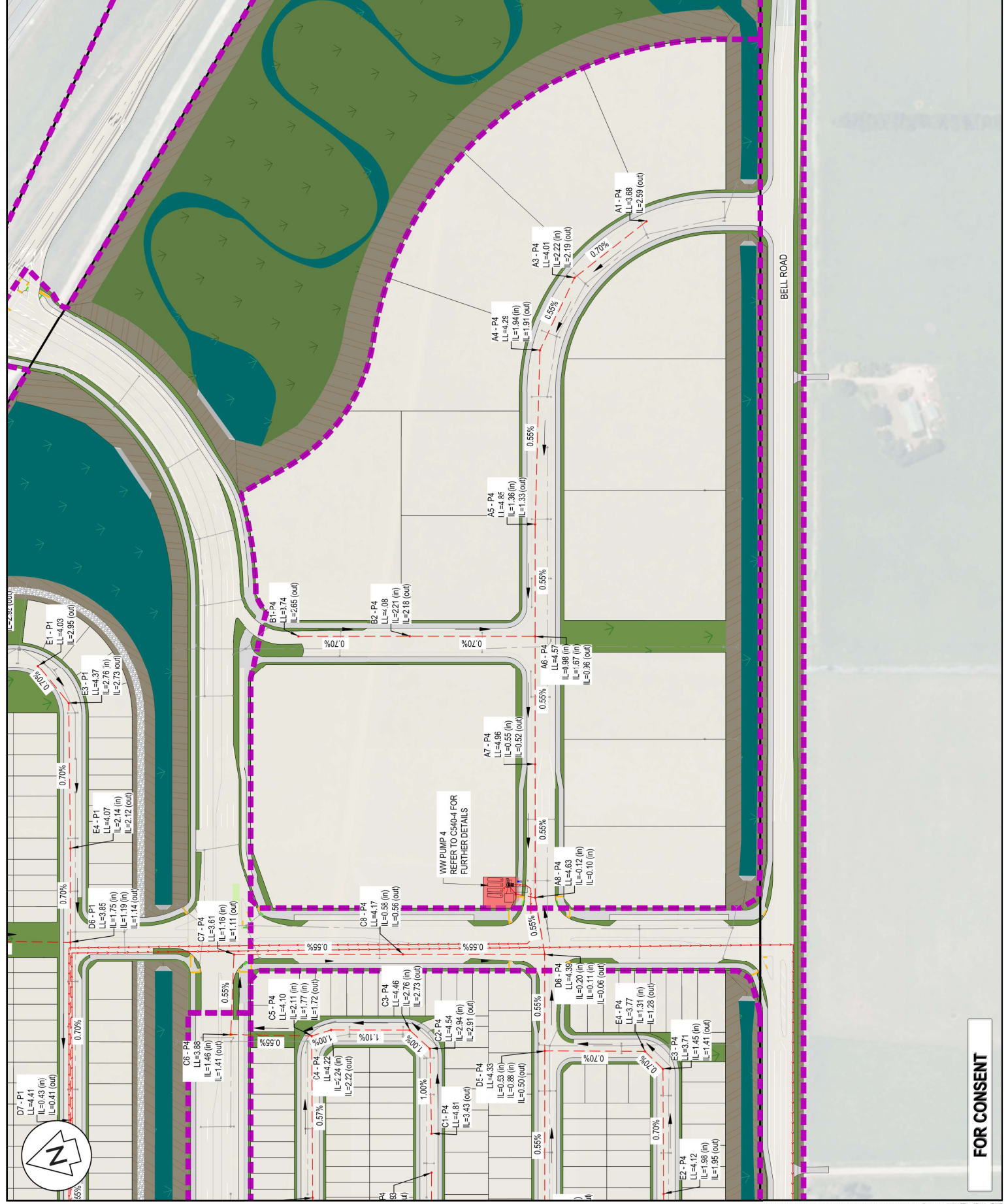
Survey	MAVEN	05/2025
Design	DP	11/25
Drawn	DP	11/25
Checked	CS	11/25



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

**Title**  
**PROPOSED WASTEWATER LAYOUT PLAN**

Project no.	BOP0749
Scale	1:2000
Card file	SPWWS-C500.DWG
Drawing no.	C500-1-4
Rev	B



**FOR CONSENT**