

ENVELOPE

**LAND
STRUCTURE
MANAGE**

CLIENT:
THE WELLINGTON COMPANY

PROJECT:
SHELLY BAY
SHELLY BAY ROAD
WELLINGTON

PLAN SET:
CIVIL ENGINEERING DRAWINGS

ISSUE:
RESOURCE CONSENT

DATE:
14th SEPTEMBER 2016

REFERENCE:
1098-01



LOCATION PLAN
SCALE A1 - 1:5000, A3 - 1:10000

ENVELOPE

LAND
STRUCTURE
MANAGE

CLIENT:
THE WELLINGTON COMPANY

PROJECT:
SHELLY BAY
SHELLY BAY ROAD
WELLINGTON

PLAN SET:
CIVIL ENGINEERING DRAWINGS

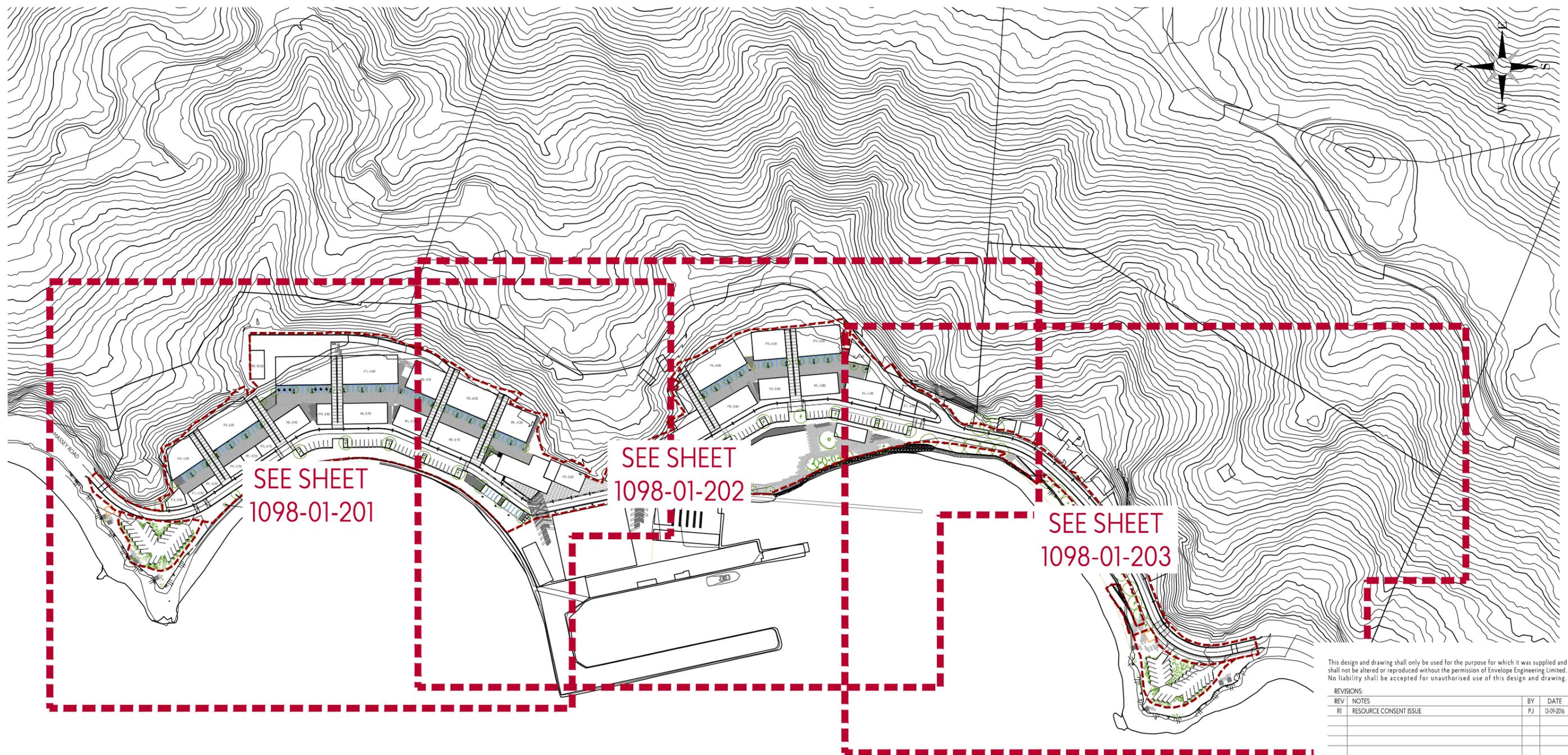
ISSUE:
RESOURCE CONSENT

DATE:
14th SEPTEMBER 2016

REFERENCE:
1098-01

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
 EXISTING CONTOUR PLANS
 OVERALL LAYOUT

- LEGEND:**
-  INDICATES EXISTING CONTOURS SHOWN AT 2.0m INTERVALS
 -  INDICATES EXTENT OF PROPOSED BULK EARTHWORKS

- NOTES:**
1. EXISTING CONTOURS ARE FROM CALIBRE SITE SURVEY JANUARY 2016 AND WELLINGTON CITY COUNCIL GIS DATA.
 2. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m
 3. ALL FINISHED FLOOR LEVELS (FFL'S) ARE INDICATIVE ONLY AND SUBJECT TO DETAILS DESIGN.

ENVELOPE

**LAND
 STRUCTURE
 MANAGE**

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

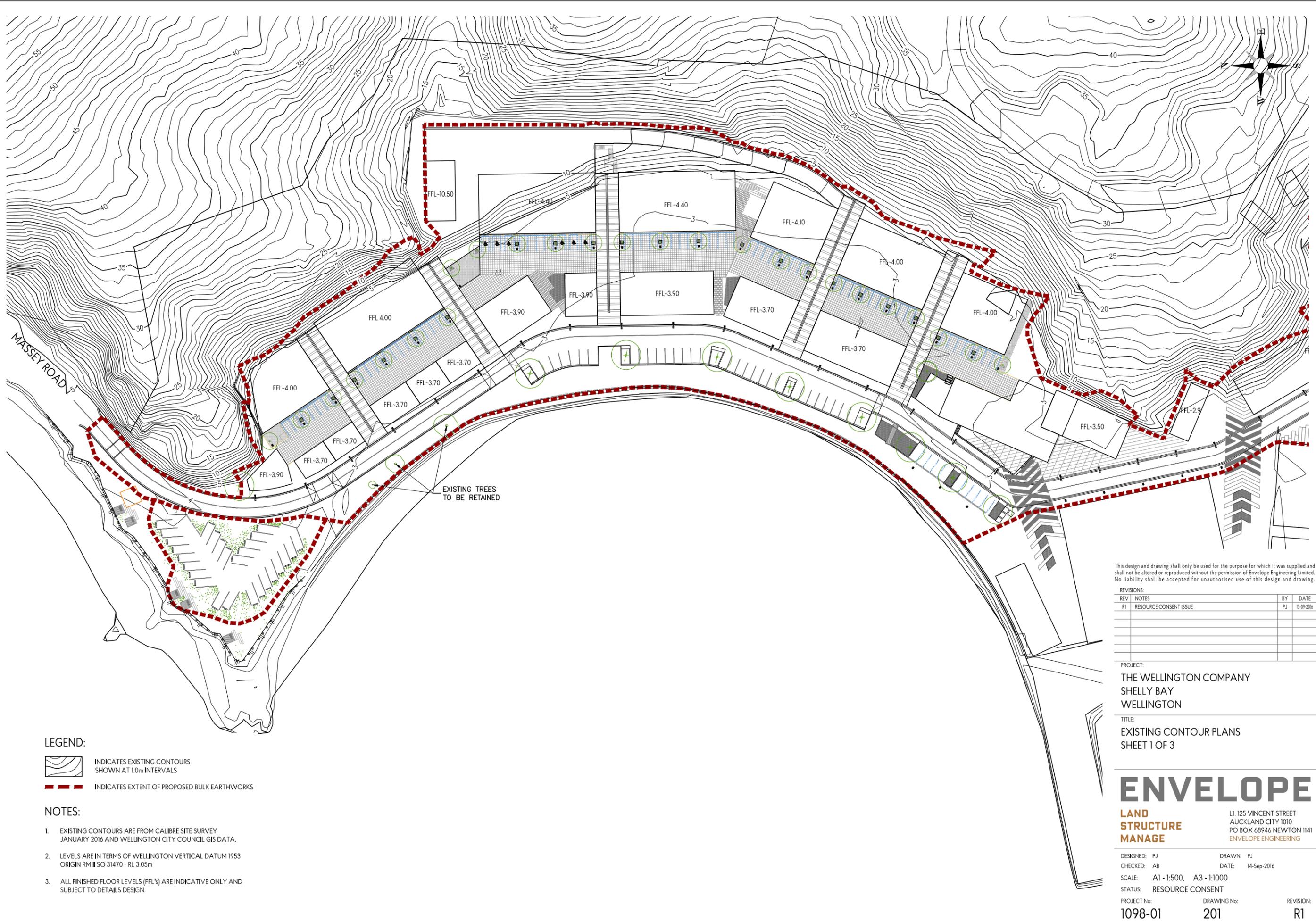
DESIGNED: PJ DRAWN: PJ
 CHECKED: AB DATE: 14-Sep-2016

SCALE: A1 - 1:1250, A3 - 1:2500

STATUS: RESOURCE CONSENT

PROJECT No: DRAWING No: REVISION:

1098-01 200 R1



LEGEND:

INDICATES EXISTING CONTOURS SHOWN AT 1.0m INTERVALS

INDICATES EXTENT OF PROPOSED BULK EARTHWORKS

NOTES:

- EXISTING CONTOURS ARE FROM CALIBRE SITE SURVEY JANUARY 2016 AND WELLINGTON CITY COUNCIL GIS DATA.
- LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m
- ALL FINISHED FLOOR LEVELS (FFL'S) ARE INDICATIVE ONLY AND SUBJECT TO DETAILS DESIGN.

EXISTING TREES TO BE RETAINED

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
 EXISTING CONTOUR PLANS
 SHEET 1 OF 3

ENVELOPE

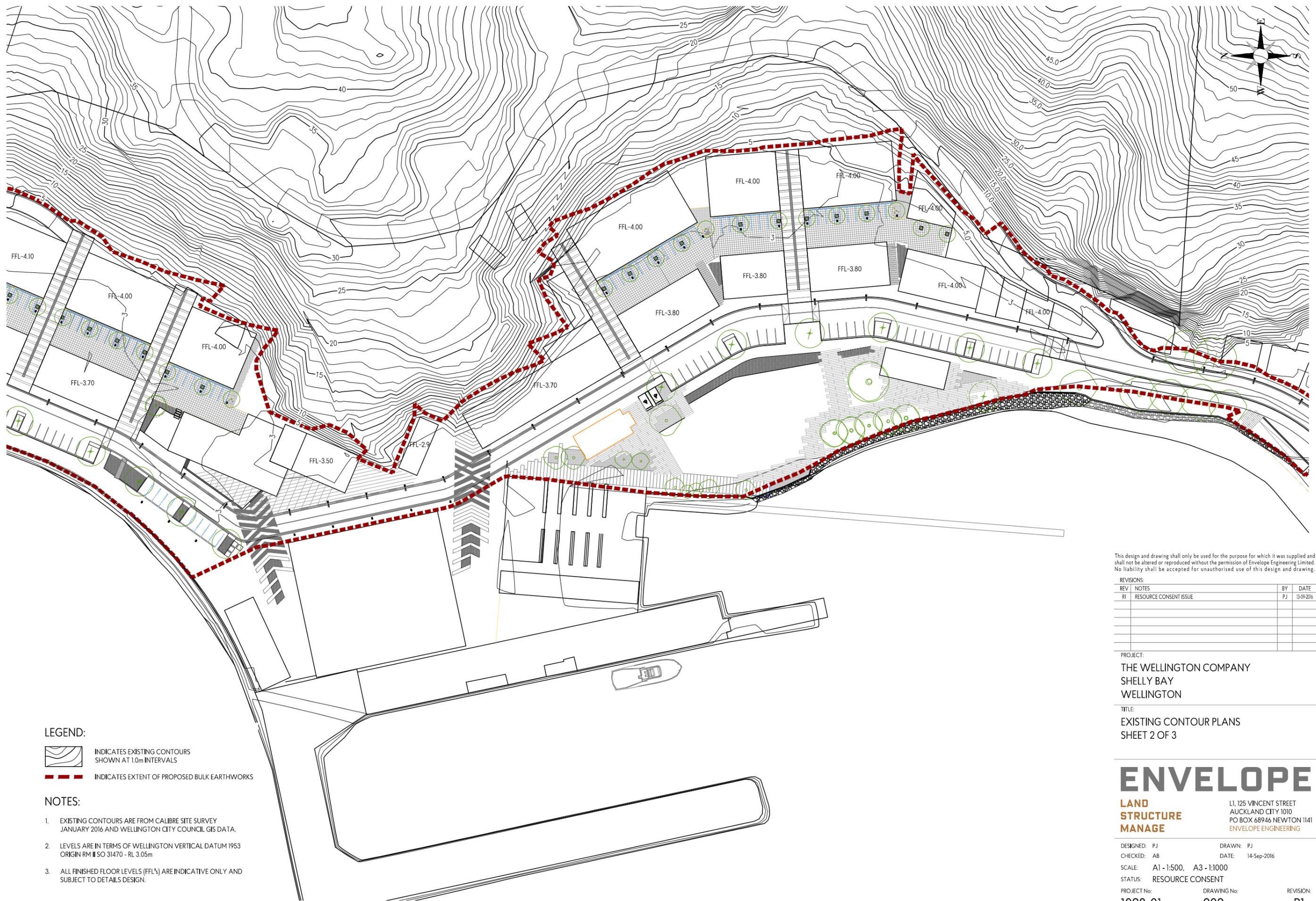
LAND STRUCTURE MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ DRAWN: PJ
 CHECKED: AB DATE: 14-Sep-2016

SCALE: A1 - 1:500, A3 - 1:1000
 STATUS: RESOURCE CONSENT

PROJECT No: 1098-01 DRAWING No: 201 REVISION: R1



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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
 EXISTING CONTOUR PLANS
 SHEET 2 OF 3

- LEGEND:**
-  INDICATES EXISTING CONTOURS SHOWN AT 1.0m INTERVALS
 -  INDICATES EXTENT OF PROPOSED BULK EARTHWORKS

- NOTES:**
1. EXISTING CONTOURS ARE FROM CALIBRE SITE SURVEY JANUARY 2016 AND WELLINGTON CITY COUNCIL GIS DATA.
 2. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m
 3. ALL FINISHED FLOOR LEVELS (FFL's) ARE INDICATIVE ONLY AND SUBJECT TO DETAILS DESIGN.

ENVELOPE

**LAND
 STRUCTURE
 MANAGE**

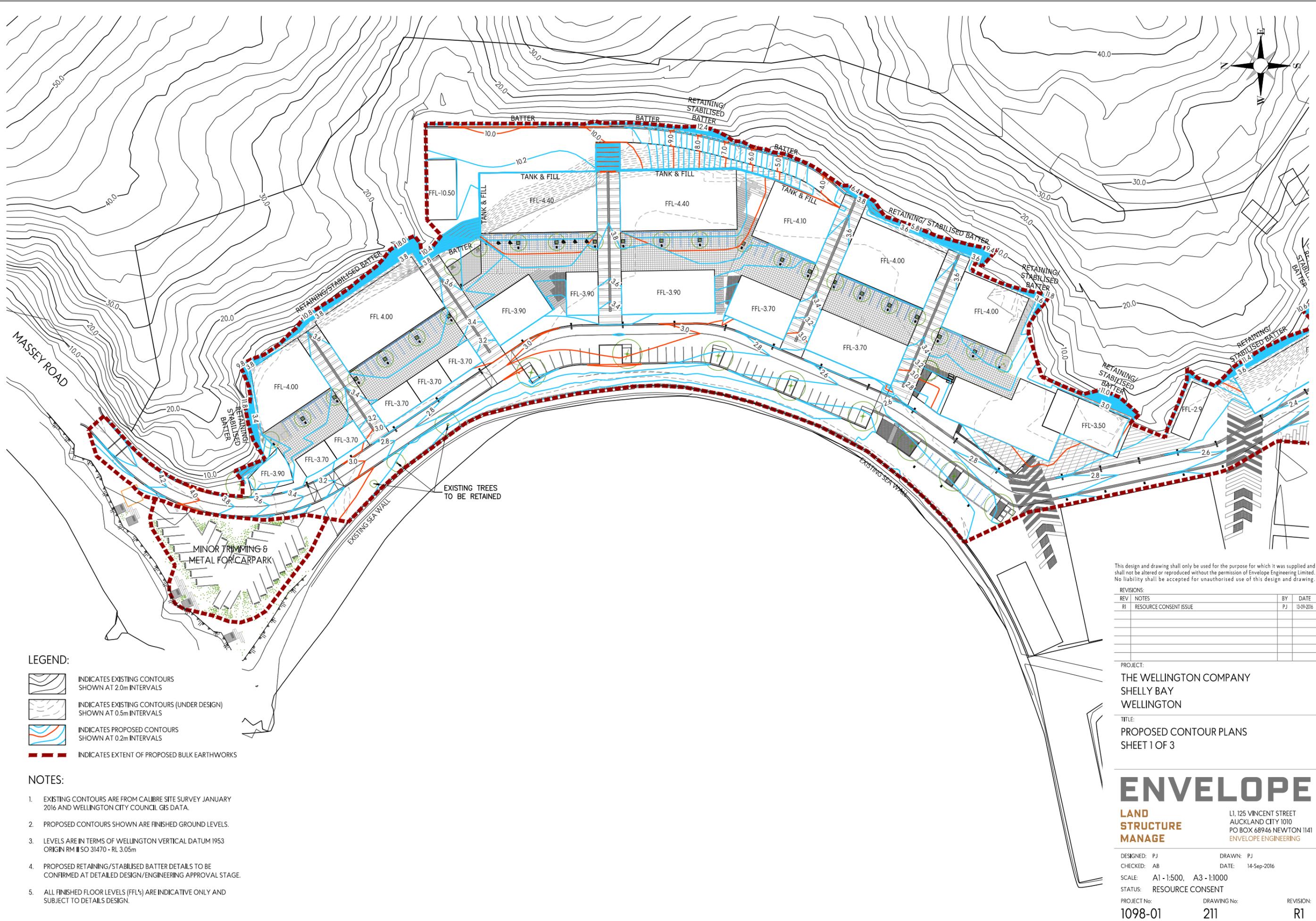
L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ DRAWN: PJ
 CHECKED: AB DATE: 14-Sep-2016

SCALE: A1 - 1:500, A3 - 1:1000

STATUS: RESOURCE CONSENT

PROJECT No: 1098-01 DRAWING No: 202 REVISION: R1



- LEGEND:**
-  INDICATES EXISTING CONTOURS SHOWN AT 2.0m INTERVALS
 -  INDICATES EXISTING CONTOURS (UNDER DESIGN) SHOWN AT 0.5m INTERVALS
 -  INDICATES PROPOSED CONTOURS SHOWN AT 0.2m INTERVALS
 -  INDICATES EXTENT OF PROPOSED BULK EARTHWORKS

- NOTES:**
1. EXISTING CONTOURS ARE FROM CALIBRE SITE SURVEY JANUARY 2016 AND WELLINGTON CITY COUNCIL GIS DATA.
 2. PROPOSED CONTOURS SHOWN ARE FINISHED GROUND LEVELS.
 3. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM 1150 31470 - RL 3.05m
 4. PROPOSED RETAINING/STABILISED BATTER DETAILS TO BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
 5. ALL FINISHED FLOOR LEVELS (FFL'S) ARE INDICATIVE ONLY AND SUBJECT TO DETAILS DESIGN.

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

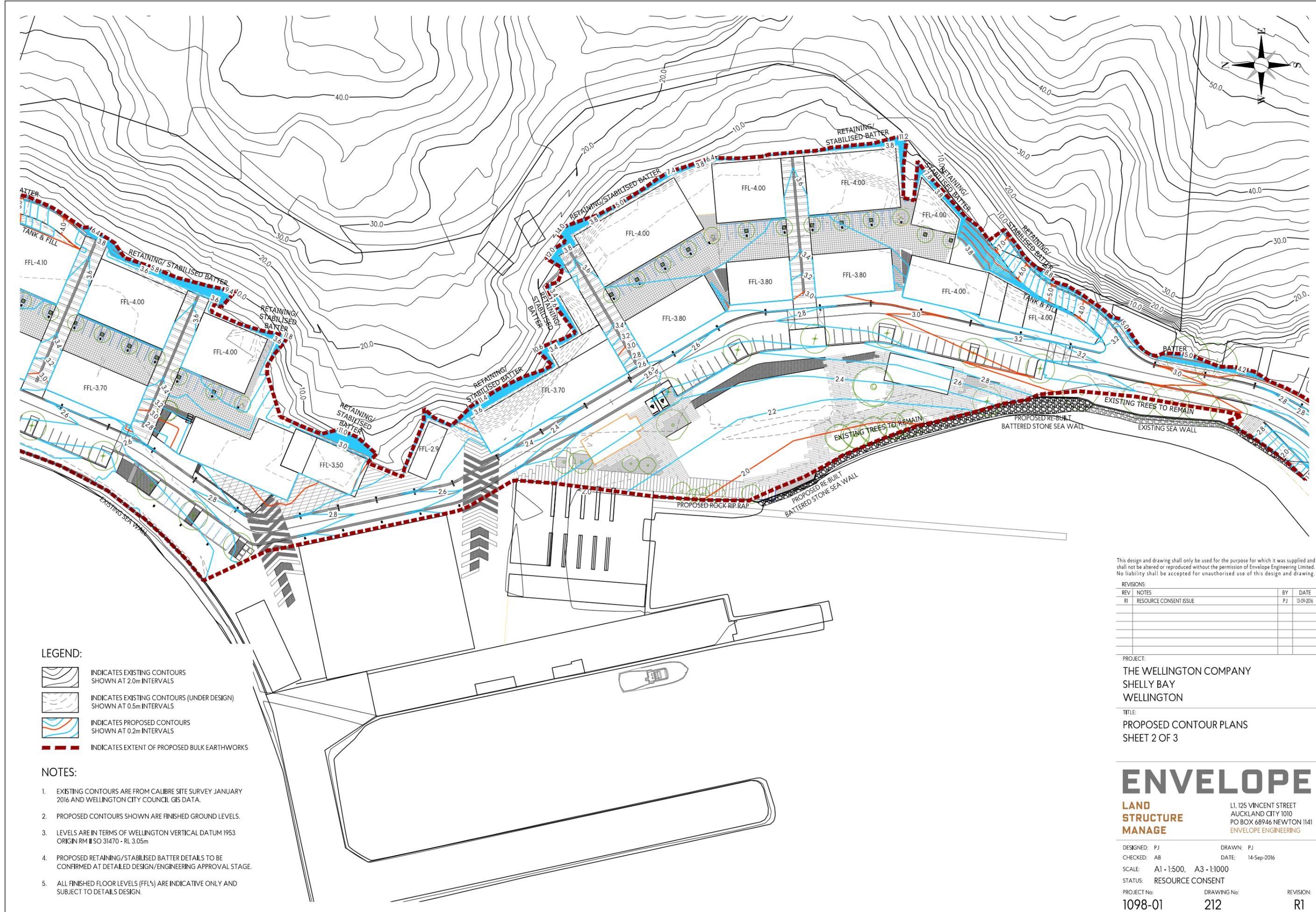
TITLE:
PROPOSED CONTOUR PLANS
 SHEET 1 OF 3

ENVELOPE

LAND STRUCTURE MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ	DRAWN: PJ
CHECKED: AB	DATE: 14-Sep-2016
SCALE: A1 - 1:500, A3 - 1:1000	
STATUS: RESOURCE CONSENT	
PROJECT No: 1098-01	DRAWING No: 211
	REVISION: R1



- LEGEND:**
-  INDICATES EXISTING CONTOURS SHOWN AT 2.0m INTERVALS
 -  INDICATES EXISTING CONTOURS (UNDER DESIGN) SHOWN AT 0.5m INTERVALS
 -  INDICATES PROPOSED CONTOURS SHOWN AT 0.2m INTERVALS
 -  INDICATES EXTENT OF PROPOSED BULK EARTHWORKS

- NOTES:**
1. EXISTING CONTOURS ARE FROM CALIBRE SITE SURVEY JANUARY 2016 AND WELLINGTON CITY COUNCIL GIS DATA.
 2. PROPOSED CONTOURS SHOWN ARE FINISHED GROUND LEVELS.
 3. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM IISO 31470 - RL 3.05m
 4. PROPOSED RETAINING/STABILISED BATTER DETAILS TO BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

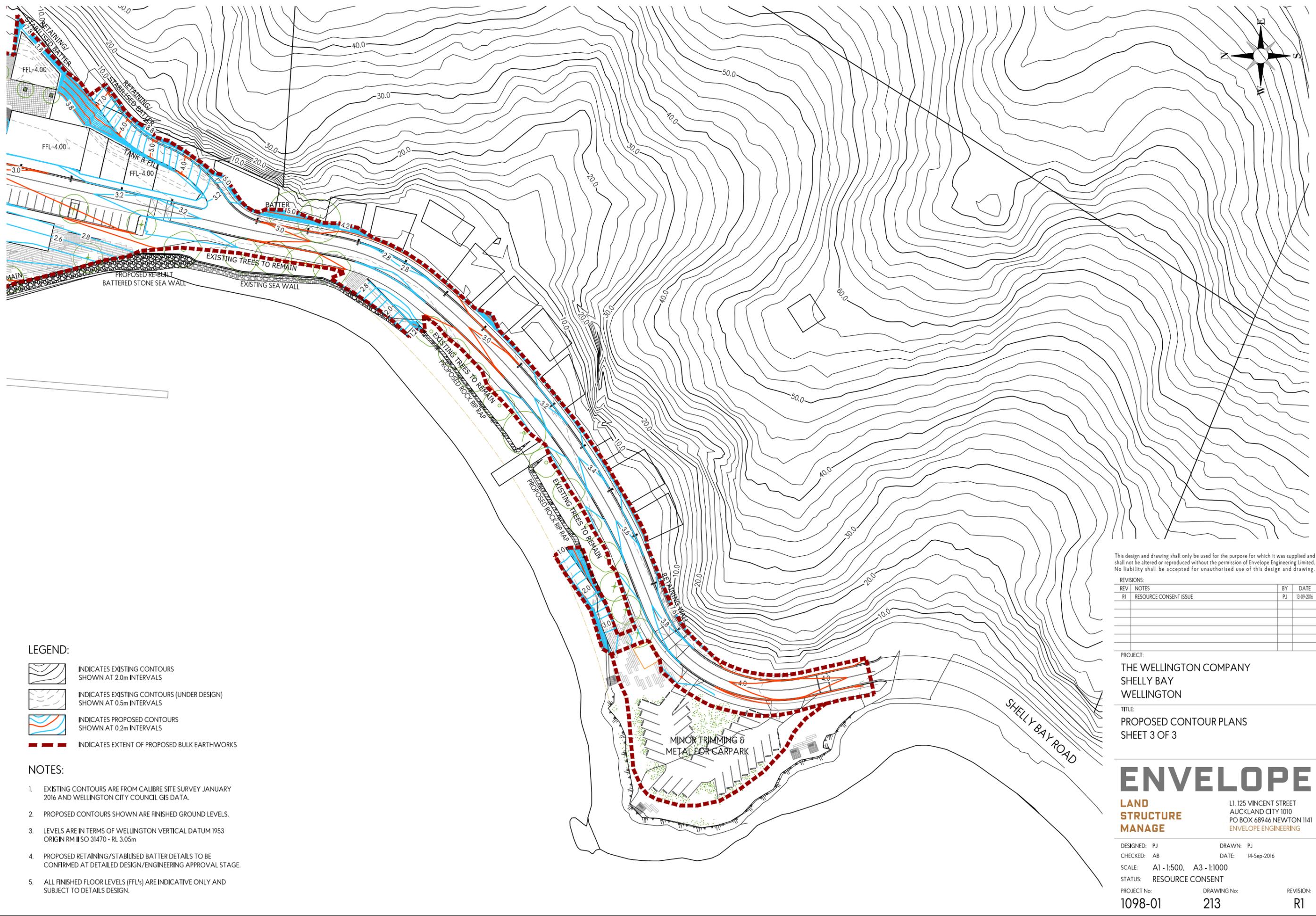
PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
PROPOSED CONTOUR PLANS
SHEET 2 OF 3

ENVELOPE
LAND
STRUCTURE
MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ	DRAWN: PJ	REVISION:
CHECKED: AB	DATE: 14-Sep-2016	R1
SCALE: A1 - 1:500, A3 - 1:1000		
STATUS: RESOURCE CONSENT		
PROJECT No: 1098-01	DRAWING No: 212	



- LEGEND:**
-  INDICATES EXISTING CONTOURS SHOWN AT 2.0m INTERVALS
 -  INDICATES EXISTING CONTOURS (UNDER DESIGN) SHOWN AT 0.5m INTERVALS
 -  INDICATES PROPOSED CONTOURS SHOWN AT 0.2m INTERVALS
 -  INDICATES EXTENT OF PROPOSED BULK EARTHWORKS

- NOTES:**
1. EXISTING CONTOURS ARE FROM CALIBRE SITE SURVEY JANUARY 2016 AND WELLINGTON CITY COUNCIL GIS DATA.
 2. PROPOSED CONTOURS SHOWN ARE FINISHED GROUND LEVELS.
 3. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM IISO 31470 - RL 3.05m
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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
PROPOSED CONTOUR PLANS
SHEET 3 OF 3

ENVELOPE

**LAND
STRUCTURE
MANAGE**

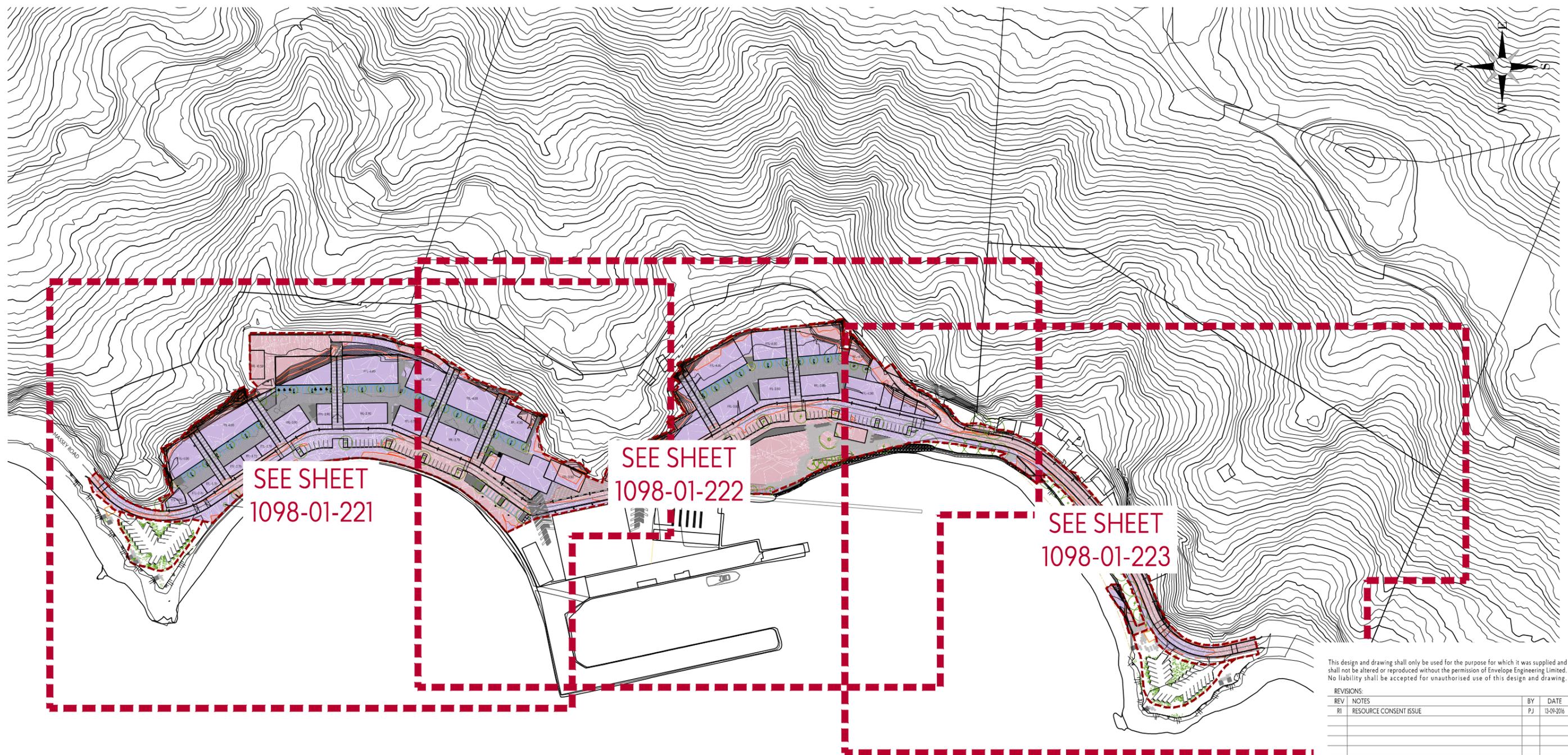
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AUCKLAND CITY 1010
PO BOX 68946 NEWTON 1141
ENVELOPE ENGINEERING

DESIGNED: PJ DRAWN: PJ
CHECKED: AB DATE: 14-Sep-2016

SCALE: A1 - 1:500, A3 - 1:1000

STATUS: RESOURCE CONSENT

PROJECT No: 1098-01 DRAWING No: 213 REVISION: R1



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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

- LEGEND:**
-  INDICATES EXISTING CONTOURS SHOWN AT 2.0m INTERVALS
 -  INDICATES CUT CONTOURS SHOWN AT 0.5m INTERVALS
 -  INDICATES FILL CONTOURS SHOWN AT 0.5m INTERVALS
 -  INDICATES EXTENT OF PROPOSED BULK EARTHWORKS

- NOTES:**
1. EXISTING CONTOURS ARE FROM CALIBRE SITE SURVEY JANUARY 2016 AND WELLINGTON CITY COUNCIL GIS DATA.
 2. CUT/FILL CONTOURS SHOWN ARE THE DIFFERENCE BETWEEN EXISTING GROUND LEVELS AND PROPOSED FINISHED GROUND LEVELS.
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PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

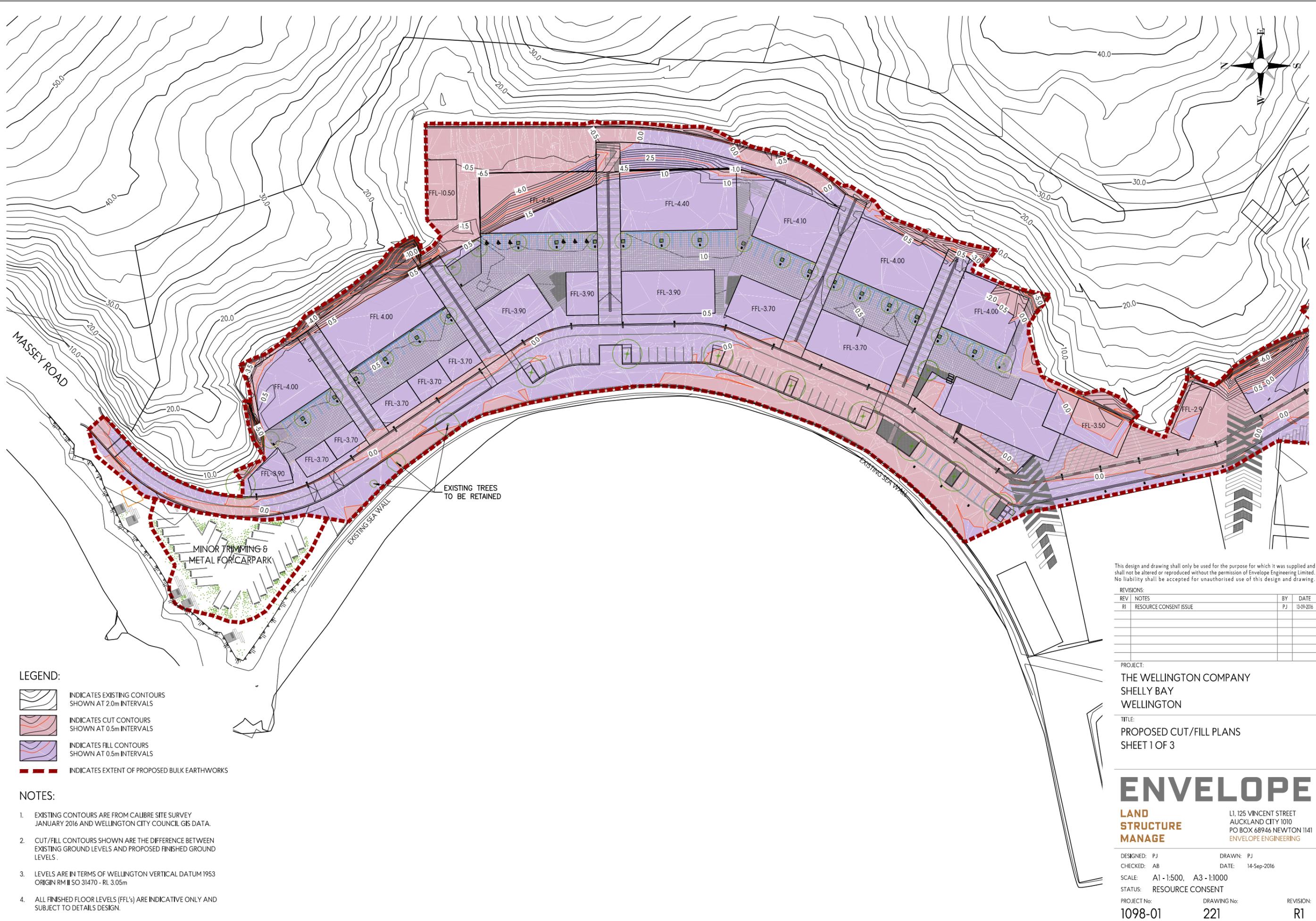
TITLE:
PROPOSED CUT/FILL PLANS
 OVERALL LAYOUT

ENVELOPE

**LAND
STRUCTURE
MANAGE**

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ	DRAWN: PJ
CHECKED: AB	DATE: 14-Sep-2016
SCALE: A1 - 1:1250, A3 - 1:2500	
STATUS: RESOURCE CONSENT	
PROJECT No: 1098-01	DRAWING No: 220
	REVISION: R1



- LEGEND:**
-  INDICATES EXISTING CONTOURS SHOWN AT 2.0m INTERVALS
 -  INDICATES CUT CONTOURS SHOWN AT 0.5m INTERVALS
 -  INDICATES FILL CONTOURS SHOWN AT 0.5m INTERVALS
 -  INDICATES EXTENT OF PROPOSED BULK EARTHWORKS

- NOTES:**
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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
PROPOSED CUT/FILL PLANS
 SHEET 1 OF 3

ENVELOPE

**LAND
 STRUCTURE
 MANAGE**

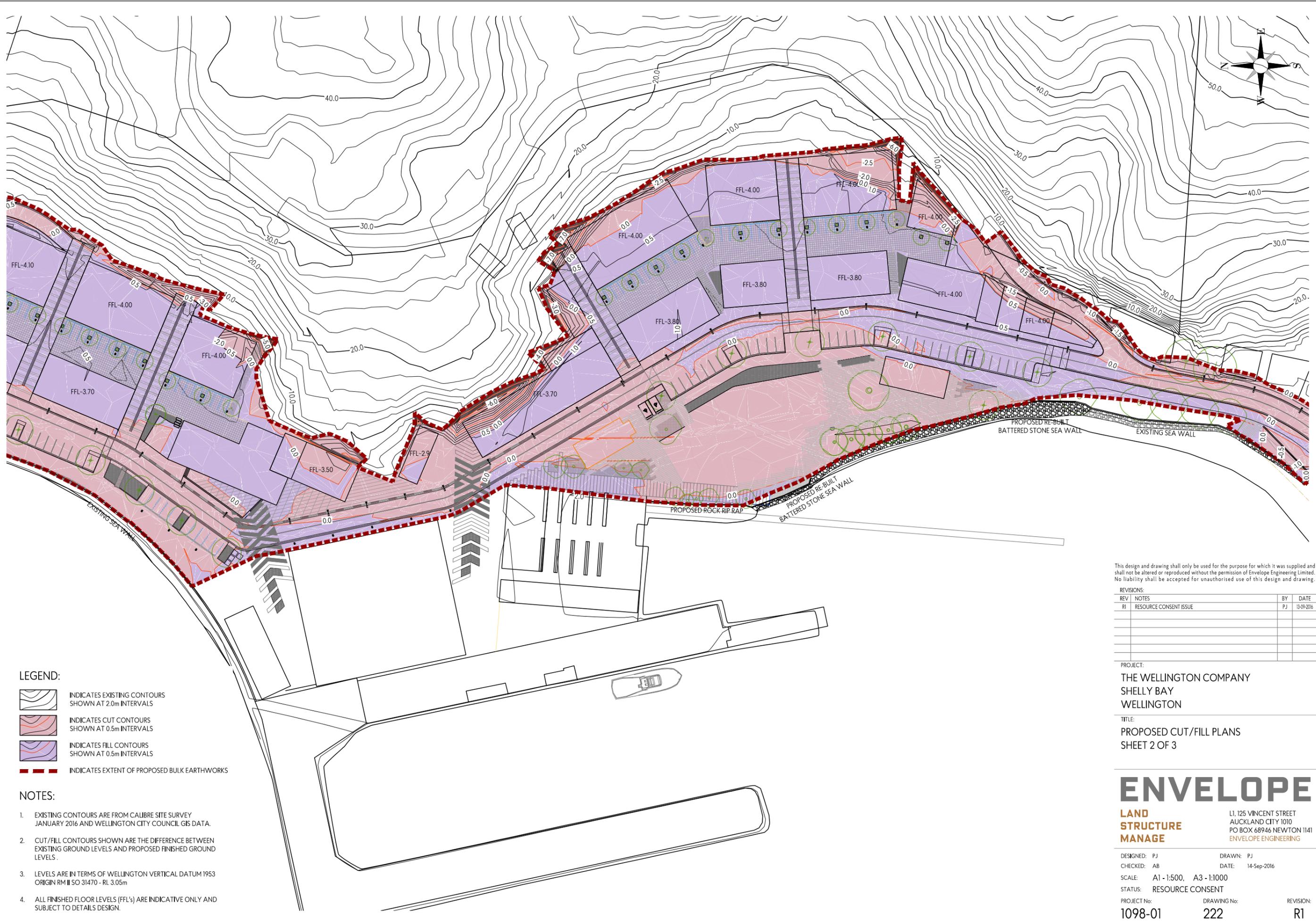
L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ DRAWN: PJ
 CHECKED: AB DATE: 14-Sep-2016

SCALE: A1 - 1:500, A3 - 1:1000

STATUS: RESOURCE CONSENT

PROJECT No: 1098-01 DRAWING No: 221 REVISION: R1



- LEGEND:**
-  INDICATES EXISTING CONTOURS SHOWN AT 2.0m INTERVALS
 -  INDICATES CUT CONTOURS SHOWN AT 0.5m INTERVALS
 -  INDICATES FILL CONTOURS SHOWN AT 0.5m INTERVALS
 -  INDICATES EXTENT OF PROPOSED BULK EARTHWORKS

- NOTES:**
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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

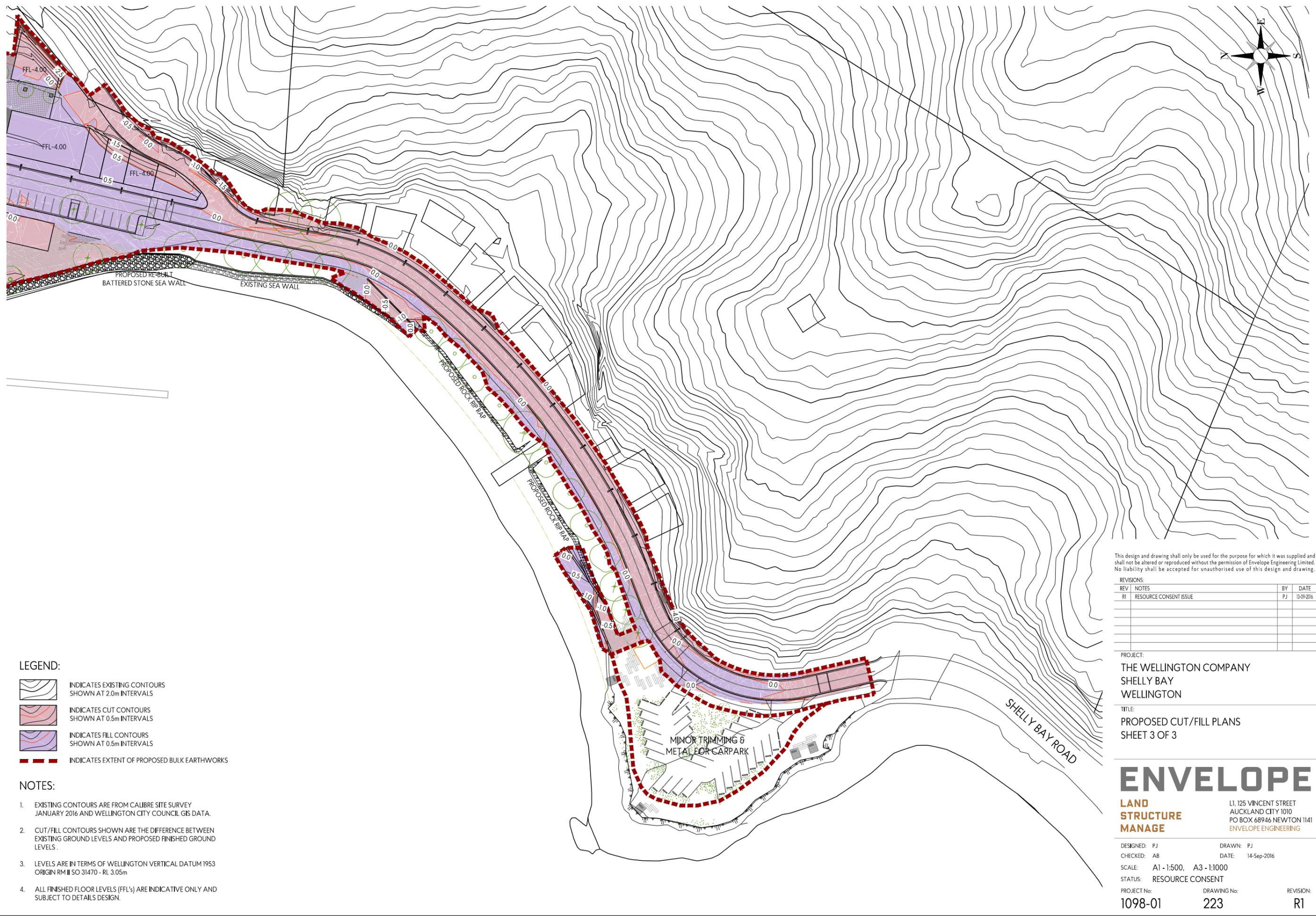
TITLE:
PROPOSED CUT/FILL PLANS
 SHEET 2 OF 3

ENVELOPE

LAND STRUCTURE MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ	DRAWN: PJ	REVISION:
CHECKED: AB	DATE: 14-Sep-2016	R1
SCALE: A1 - 1:500, A3 - 1:1000		
STATUS: RESOURCE CONSENT		
PROJECT No: 1098-01	DRAWING No: 222	



- LEGEND:**
-  INDICATES EXISTING CONTOURS SHOWN AT 2.0m INTERVALS
 -  INDICATES CUT CONTOURS SHOWN AT 0.5m INTERVALS
 -  INDICATES FILL CONTOURS SHOWN AT 0.5m INTERVALS
 -  INDICATES EXTENT OF PROPOSED BULK EARTHWORKS

- NOTES:**
1. EXISTING CONTOURS ARE FROM CALIBRE SITE SURVEY JANUARY 2016 AND WELLINGTON CITY COUNCIL GIS DATA.
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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
PROPOSED CUT/FILL PLANS
 SHEET 3 OF 3

ENVELOPE
LAND STRUCTURE MANAGE

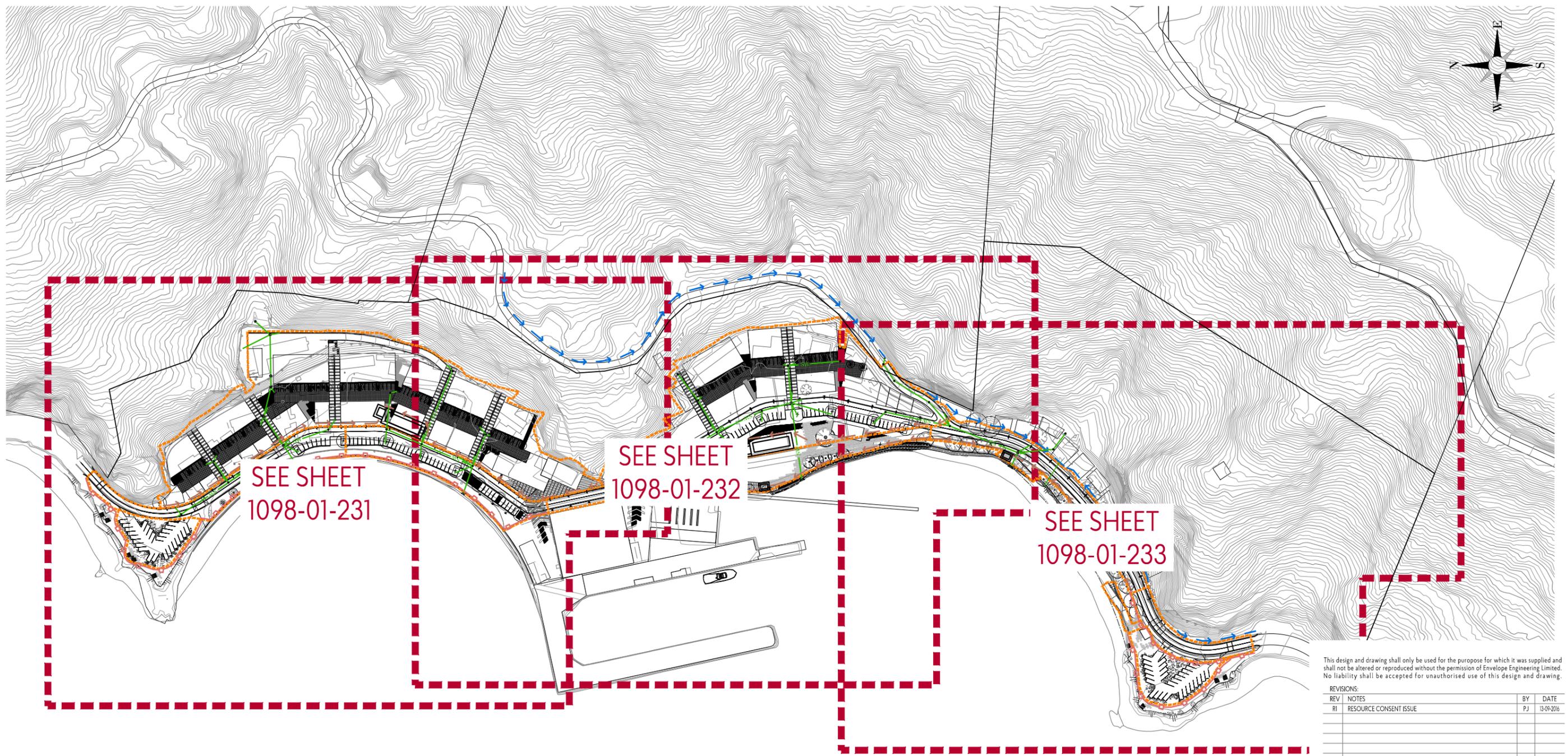
L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ DRAWN: PJ
 CHECKED: AB DATE: 14-Sep-2016

SCALE: A1 - 1:500, A3 - 1:1000

STATUS: RESOURCE CONSENT

PROJECT No: 1098-01 DRAWING No: 223 REVISION: R1



SEE SHEET
1098-01-231

SEE SHEET
1098-01-232

SEE SHEET
1098-01-233

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
PROPOSED EROSION AND SEDIMENT
CONTROL PLAN
OVERALL LAYOUT

ENVELOPE

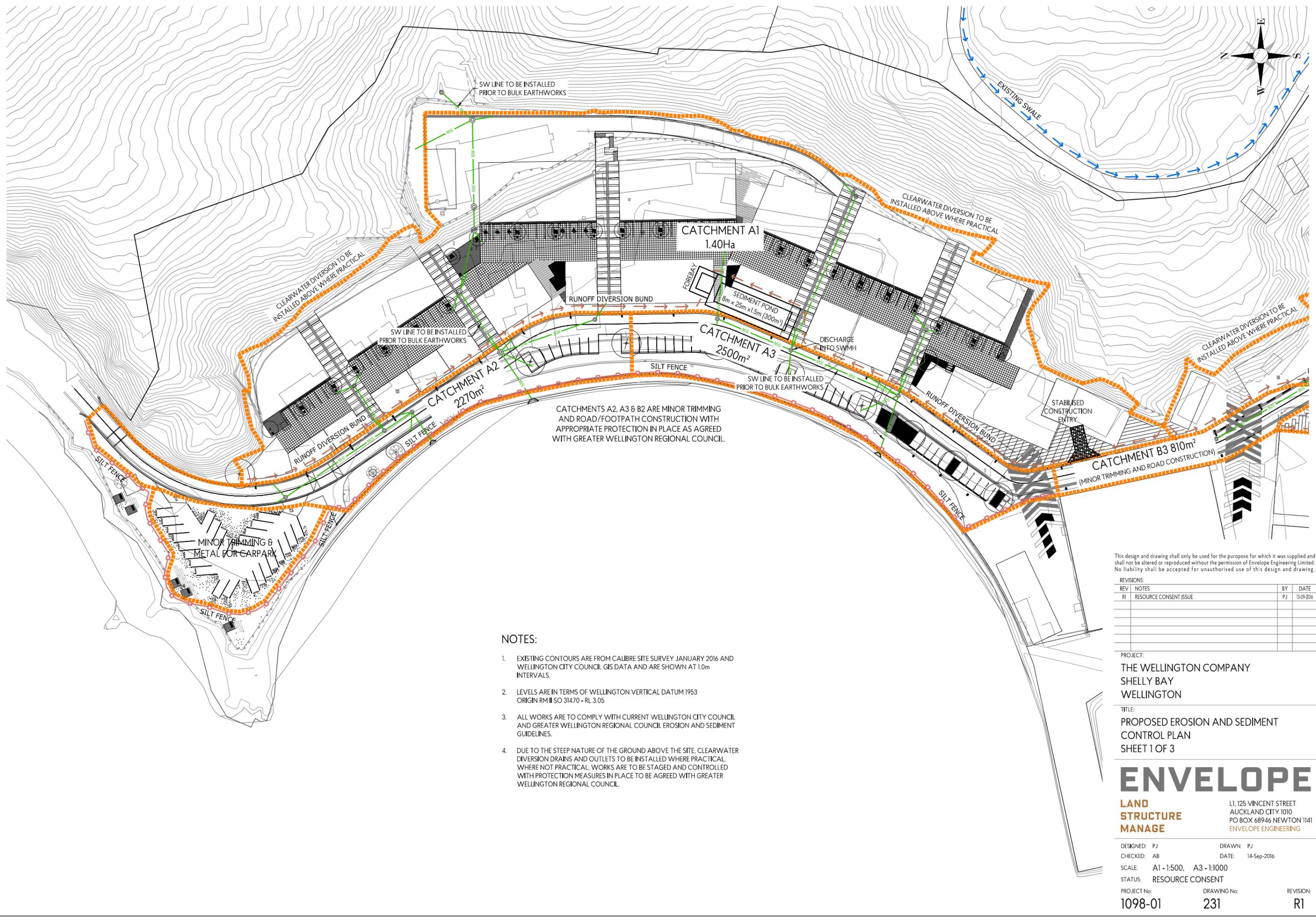
LAND
STRUCTURE
MANAGE

L1, 125 VINCENT STREET
AUCKLAND CITY 1010
PO BOX 68946 NEWTON 1141
ENVELOPE ENGINEERING

DESIGNED: PJ
CHECKED: AB
SCALE: A1 - 1:1250, A3 - 1:2500
STATUS: RESOURCE CONSENT
PROJECT No: 1098-01

DRAWN: PJ
DATE: 14-Sep-2016
DRAWING No: 230

REVISION:
R1



CATCHMENTS A2, A3 & B2 ARE MINOR TRIMMING AND ROAD/FOOTPATH CONSTRUCTION WITH APPROPRIATE PROTECTION IN PLACE AS AGREED WITH GREATER WELLINGTON REGIONAL COUNCIL.

NOTES:

- EXISTING CONTOURS ARE FROM CALIBRE SITE SURVEY JANUARY 2016 AND WELLINGTON CITY COUNCIL GIS DATA AND ARE SHOWN AT 1.0m INTERVALS.
- LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05
- ALL WORKS ARE TO COMPLY WITH CURRENT WELLINGTON CITY COUNCIL AND GREATER WELLINGTON REGIONAL COUNCIL EROSION AND SEDIMENT GUIDELINES.
- DUE TO THE STEEP NATURE OF THE GROUND ABOVE THE SITE, CLEARWATER DIVERSION DRAINS AND OUTLETS TO BE INSTALLED WHERE PRACTICAL, WHERE NOT PRACTICAL, WORKS ARE TO BE STAGED AND CONTROLLED WITH PROTECTION MEASURES IN PLACE TO BE AGREED WITH GREATER WELLINGTON REGIONAL COUNCIL.

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PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

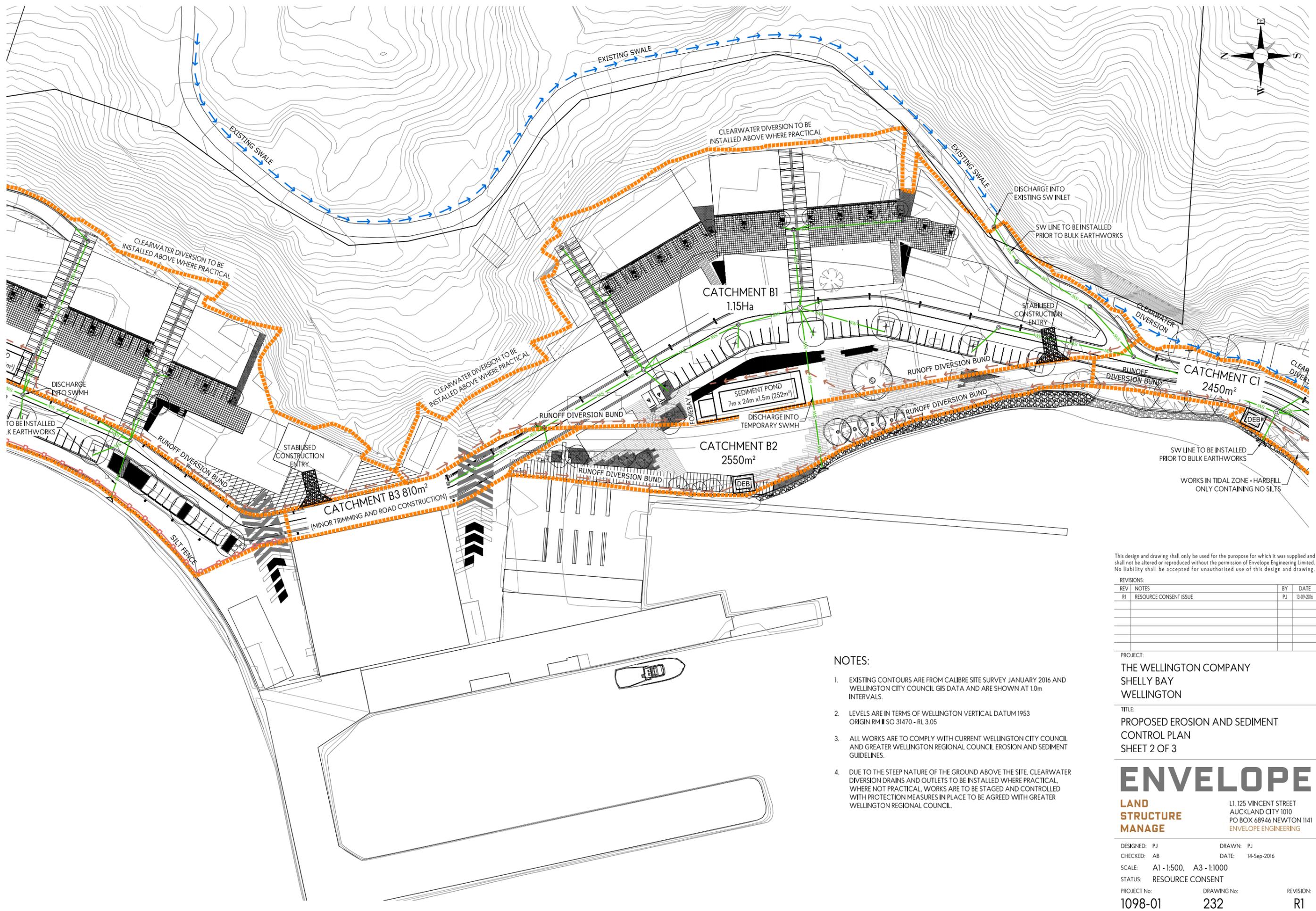
TITLE:
PROPOSED EROSION AND SEDIMENT CONTROL PLAN
 SHEET 1 OF 3

ENVELOPE

LAND STRUCTURE MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ	DRAWN: PJ	REVISION:
CHECKED: AB	DATE: 14-Sep-2016	R1
SCALE: A1 - 1:500, A3 - 1:1000		
STATUS: RESOURCE CONSENT		
PROJECT No: 1098-01	DRAWING No: 231	



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WELLINGTON

TITLE:
PROPOSED EROSION AND SEDIMENT
CONTROL PLAN
SHEET 2 OF 3

ENVELOPE

LAND
STRUCTURE
MANAGE

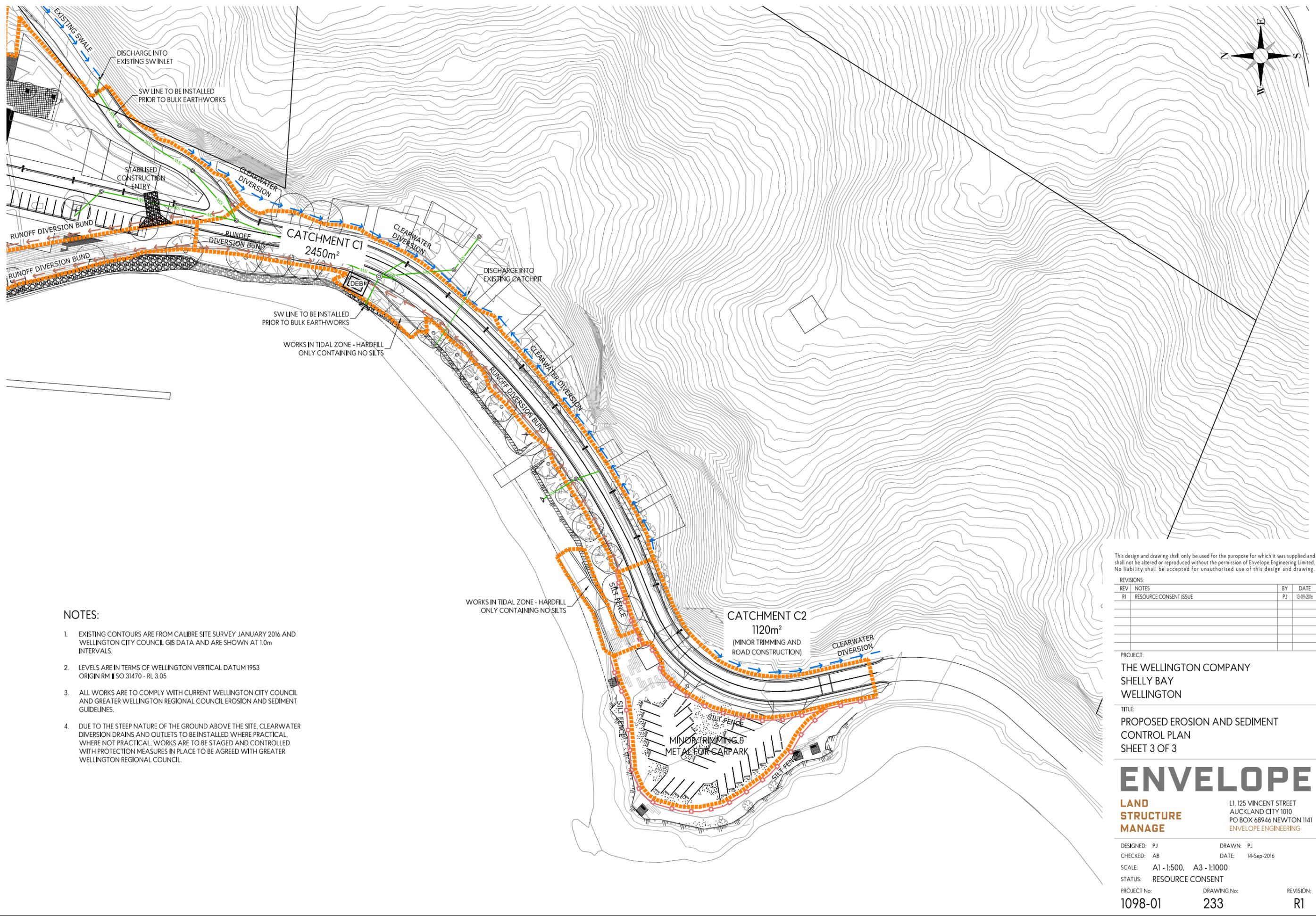
L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:500, A3 - 1:1000
 STATUS: RESOURCE CONSENT

DRAWN: PJ
 DATE: 14-Sep-2016

PROJECT No: 1098-01
 DRAWING No: 232
 REVISION: R1

- NOTES:**
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 - ALL WORKS ARE TO COMPLY WITH CURRENT WELLINGTON CITY COUNCIL AND GREATER WELLINGTON REGIONAL COUNCIL EROSION AND SEDIMENT GUIDELINES.
 - DUE TO THE STEEP NATURE OF THE GROUND ABOVE THE SITE, CLEARWATER DIVERSION DRAINS AND OUTLETS TO BE INSTALLED WHERE PRACTICAL. WHERE NOT PRACTICAL, WORKS ARE TO BE STAGED AND CONTROLLED WITH PROTECTION MEASURES IN PLACE TO BE AGREED WITH GREATER WELLINGTON REGIONAL COUNCIL.



NOTES:

1. EXISTING CONTOURS ARE FROM CALIBRE SITE SURVEY JANUARY 2016 AND WELLINGTON CITY COUNCIL GIS DATA AND ARE SHOWN AT 1.0m INTERVALS.
2. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05
3. ALL WORKS ARE TO COMPLY WITH CURRENT WELLINGTON CITY COUNCIL AND GREATER WELLINGTON REGIONAL COUNCIL EROSION AND SEDIMENT GUIDELINES.
4. DUE TO THE STEEP NATURE OF THE GROUND ABOVE THE SITE, CLEARWATER DIVERSION DRAINS AND OUTLETS TO BE INSTALLED WHERE PRACTICAL. WHERE NOT PRACTICAL, WORKS ARE TO BE STAGED AND CONTROLLED WITH PROTECTION MEASURES IN PLACE TO BE AGREED WITH GREATER WELLINGTON REGIONAL COUNCIL.

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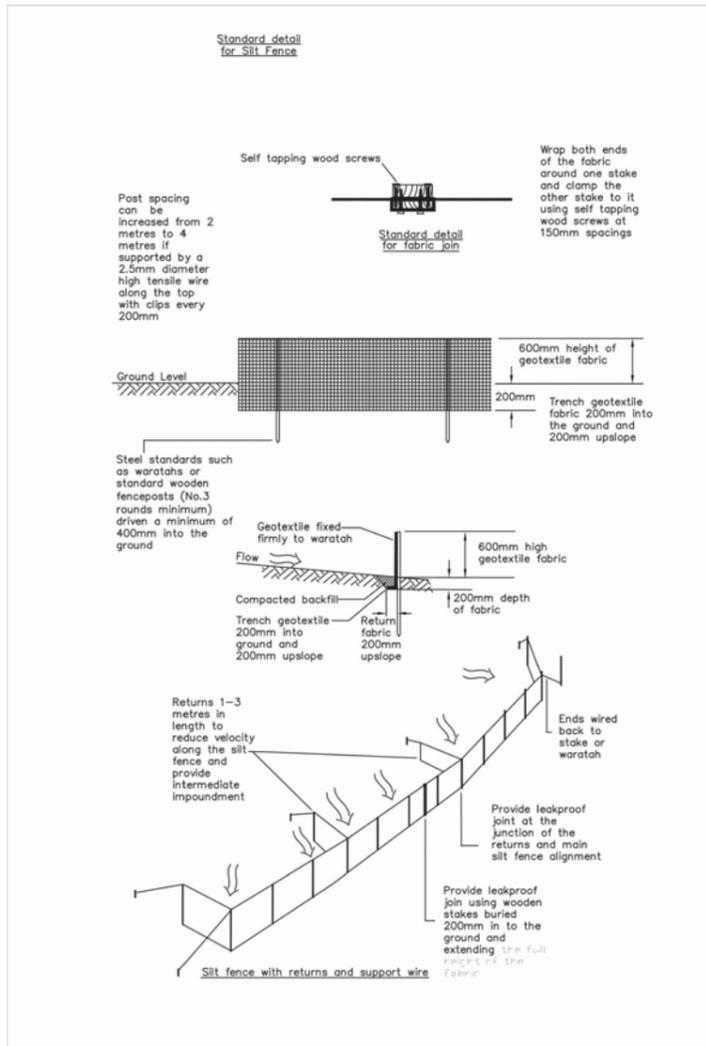
TITLE:
PROPOSED EROSION AND SEDIMENT CONTROL PLAN
SHEET 3 OF 3

ENVELOPE

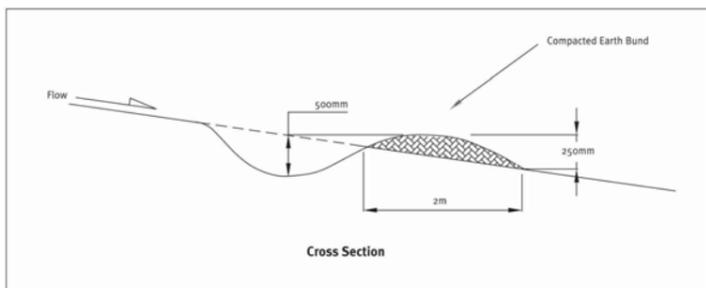
LAND STRUCTURE MANAGE

L1, 125 VINCENT STREET
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 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ DRAWN: PJ
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SILT FENCE DETAIL



CUT OFF DRAIN DETAIL

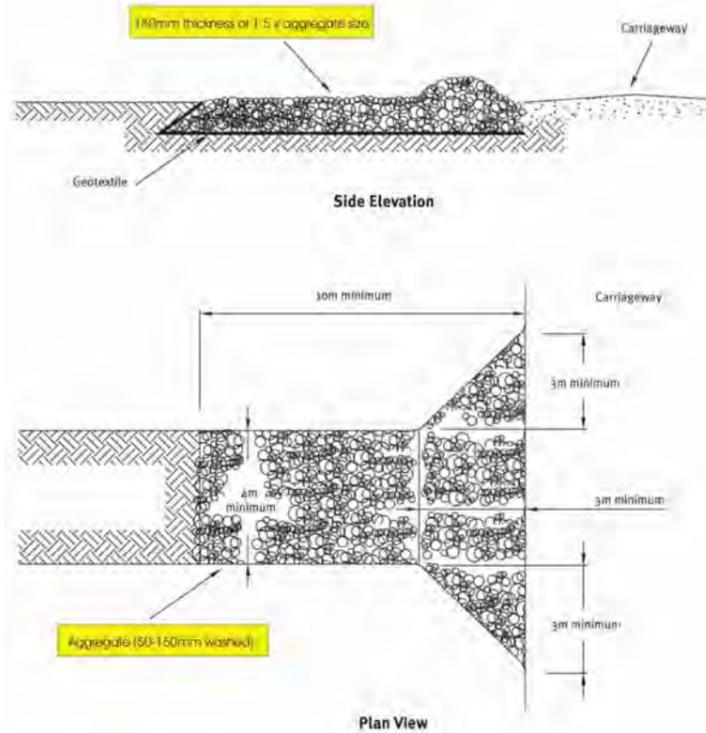


Figure 1.8 Stabilised Construction Entrance

STABILISED CONSTRUCTION ENTRANCE DETAIL

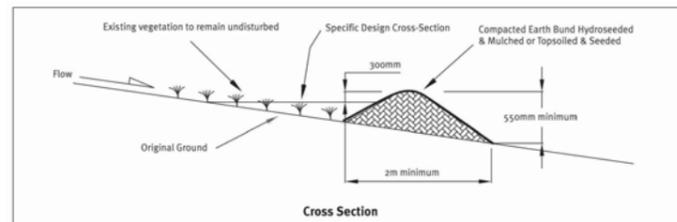


Figure 1.1.1 Clearwater Runoff Diversion Bund

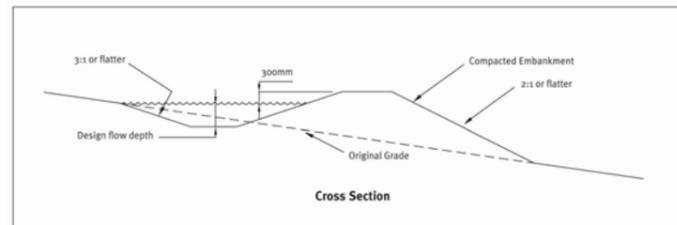
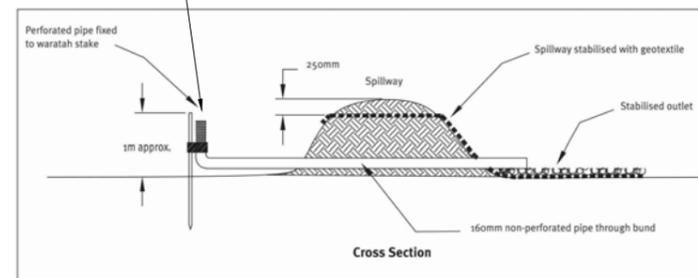


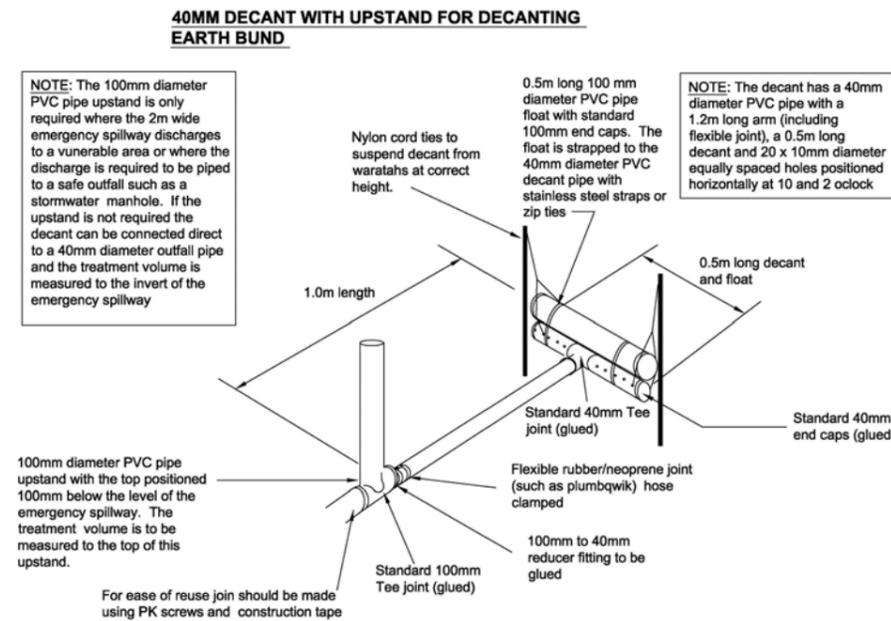
Figure 1.1.2 Runoff Diversion Channel

DIVERSION BUND DETAIL

T-BAR TO BE INSTALLED ON DECANTING EARTH BUND. REFER DETAIL.



DECANTING EARTH BUND DETAIL



T-BAR FLOAT FOR DECANTING EARTH BUND DETAIL

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SHEET 1 OF 3

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Typical silt pond layout

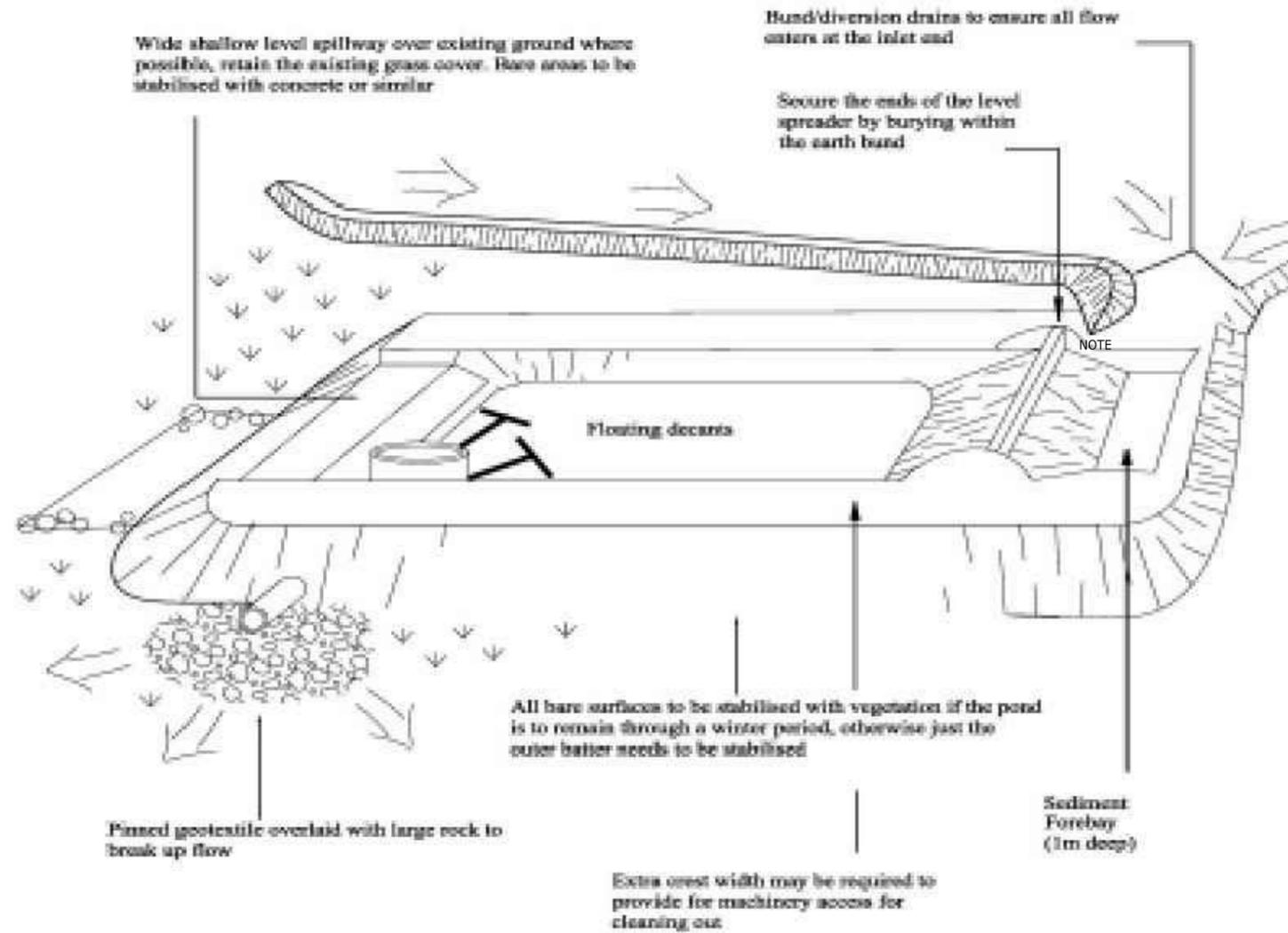


Figure 12: Sediment retention pond

SEDIMENT RETENTION POND

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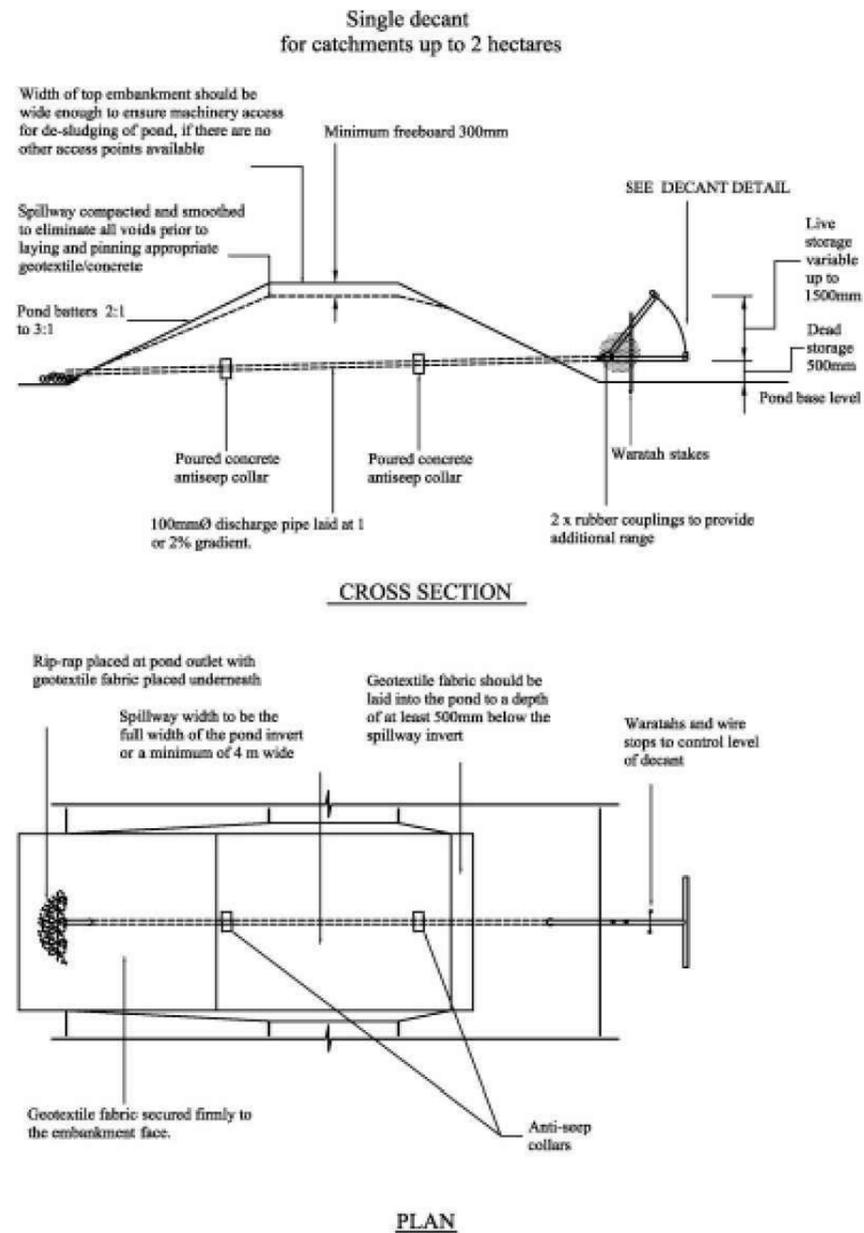


Figure 14: Sediment Retention Pond for Catchments up to 2 ha
SINGLE DECANT DEVICE (FOR CATCHMENTS UP TO 2 ha)

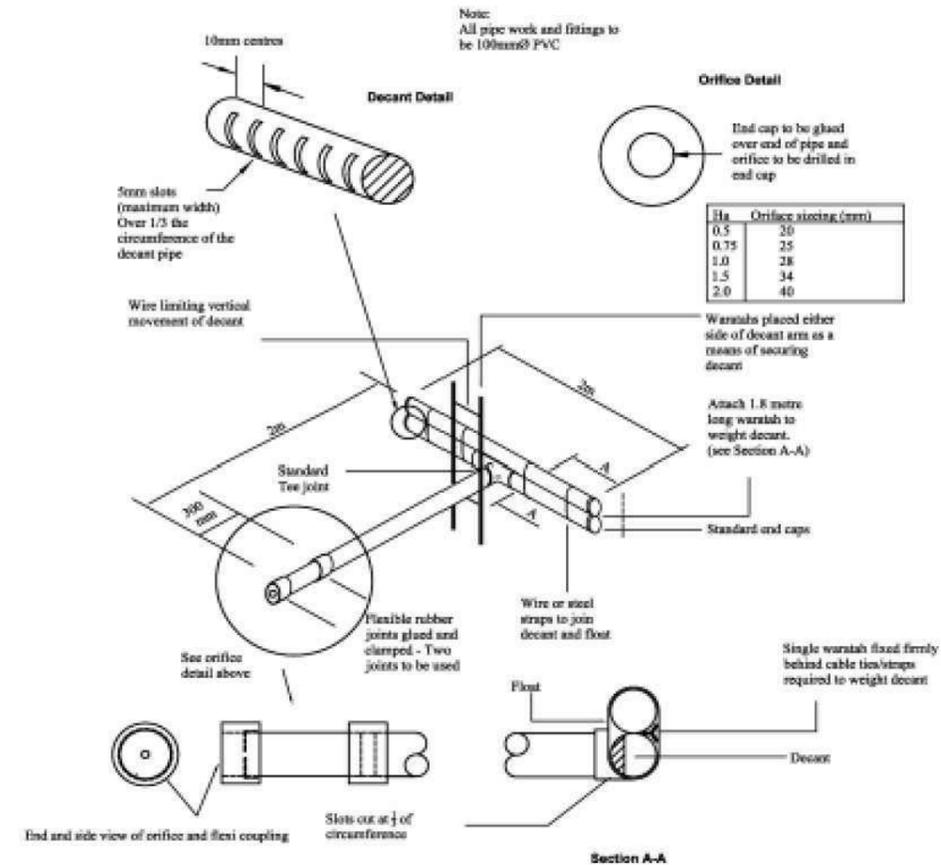


Figure 13: Sediment retention pond – decant details
DECANT DEVICE DETAILS

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SHEET 3 OF 3

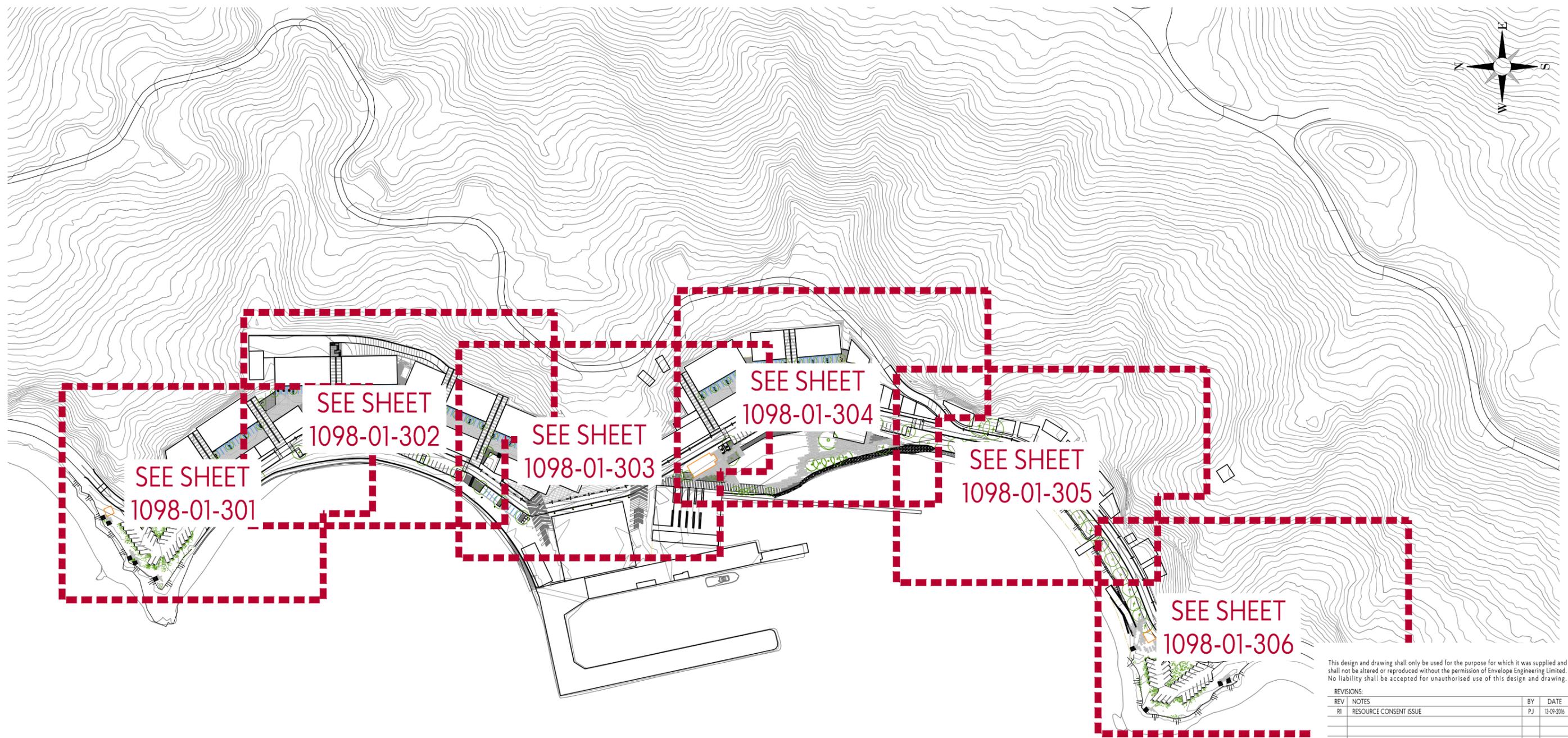
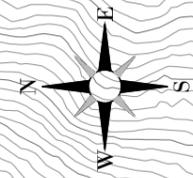
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1098-01-301

SEE SHEET
1098-01-302

SEE SHEET
1098-01-303

SEE SHEET
1098-01-304

SEE SHEET
1098-01-305

SEE SHEET
1098-01-306

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TITLE:
PROPOSED ROADING PLANS
OVERALL LAYOUT

ENVELOPE

**LAND
STRUCTURE
MANAGE**

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AUCKLAND CITY 1010
PO BOX 68946 NEWTON 1141
ENVELOPE ENGINEERING

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 SCALE: A1 - 1:1250, A3 - 1:2500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01 DRAWING No: 300 REVISION: R1



- NOTES:**
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WELLINGTON

TITLE:
PROPOSED ROADING PLANS
SHEET 1 OF 6

ENVELOPE

**LAND
STRUCTURE
MANAGE**

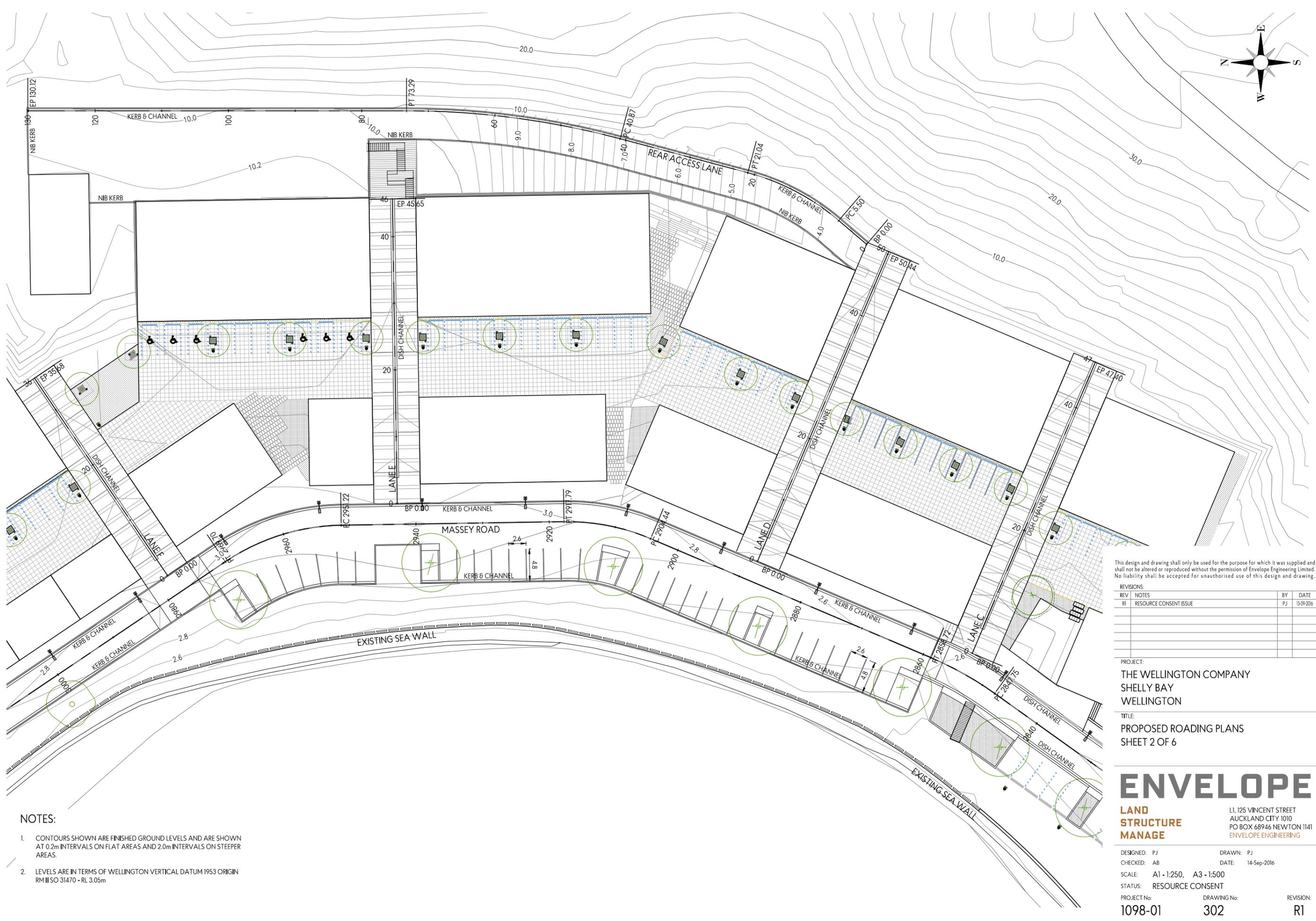
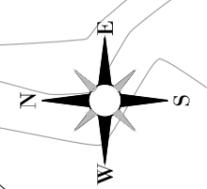
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ENVELOPE ENGINEERING

DESIGNED: PJ DRAWN: PJ
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SCALE: A1 - 1:250, A3 - 1:500

STATUS: RESOURCE CONSENT

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THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
PROPOSED ROADING PLANS
SHEET 2 OF 6

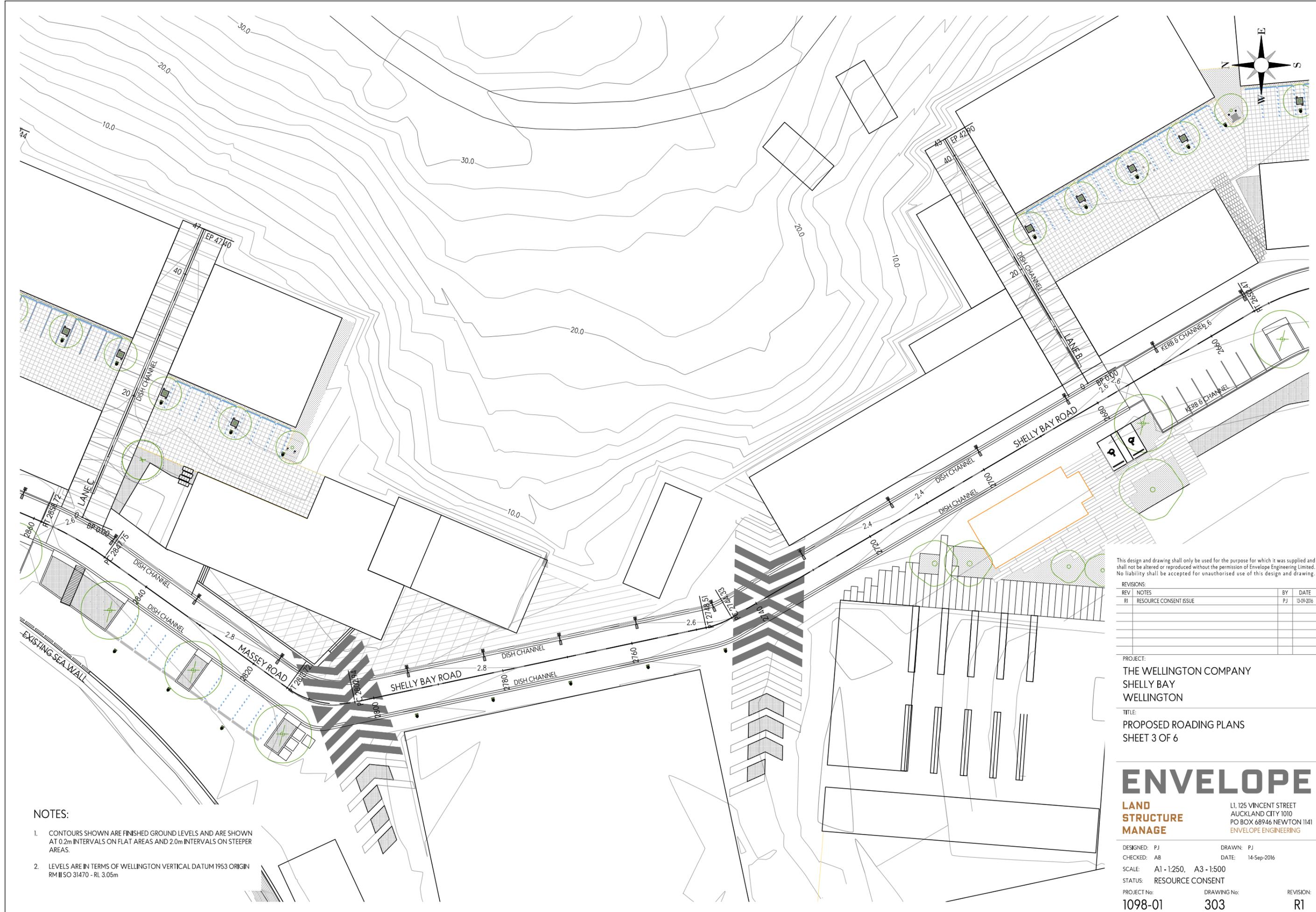
ENVELOPE
LAND
STRUCTURE
MANAGE

L1, 125 VINCENT STREET
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 REVISION: R1

DRAWN: PJ
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 - LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II ISO 31470 - RL 3.05m



- NOTES:**
1. CONTOURS SHOWN ARE FINISHED GROUND LEVELS AND ARE SHOWN AT 0.2m INTERVALS ON FLAT AREAS AND 2.0m INTERVALS ON STEEPER AREAS.
 2. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m

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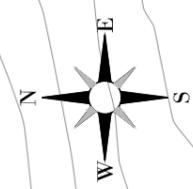
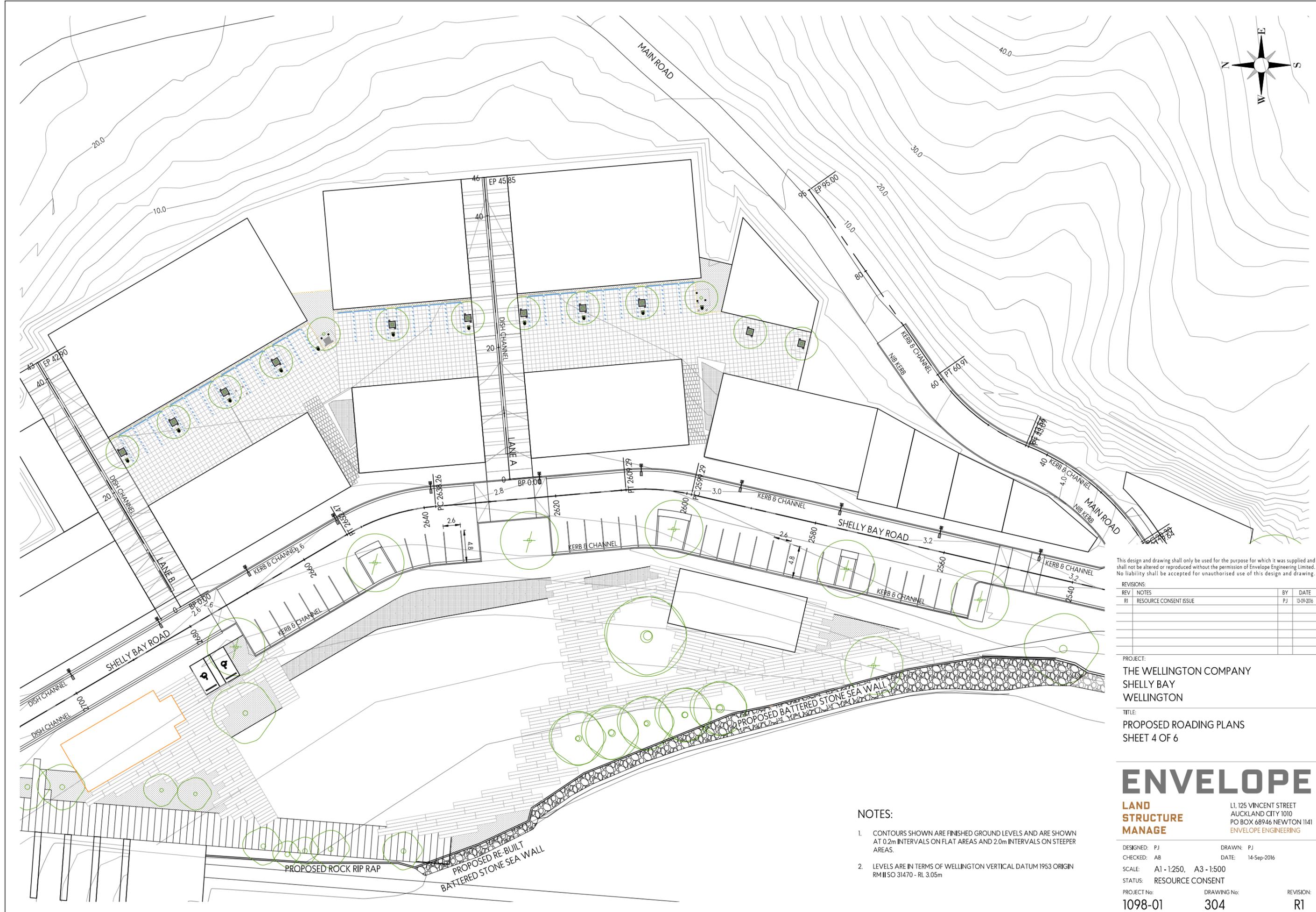
PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
PROPOSED ROADING PLANS
 SHEET 3 OF 6

ENVELOPE
LAND
STRUCTURE
MANAGE

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DESIGNED: PJ	DRAWN: PJ	REVISION:
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SCALE: A1 - 1:250, A3 - 1:500	STATUS: RESOURCE CONSENT	
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THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
PROPOSED ROADING PLANS
 SHEET 4 OF 6

ENVELOPE
LAND
STRUCTURE
MANAGE

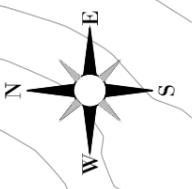
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 AUCKLAND CITY 1010
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DESIGNED: PJ
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 STATUS: RESOURCE CONSENT
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 REVISION: R1

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 DATE: 14-Sep-2016

- NOTES:
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 - LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m

PROPOSED ROCK RIP RAP
 PROPOSED RE-BUILT BATTERED STONE SEA WALL



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TITLE:
PROPOSED ROADING PLANS
 SHEET 5 OF 6

ENVELOPE
 LAND
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 MANAGE

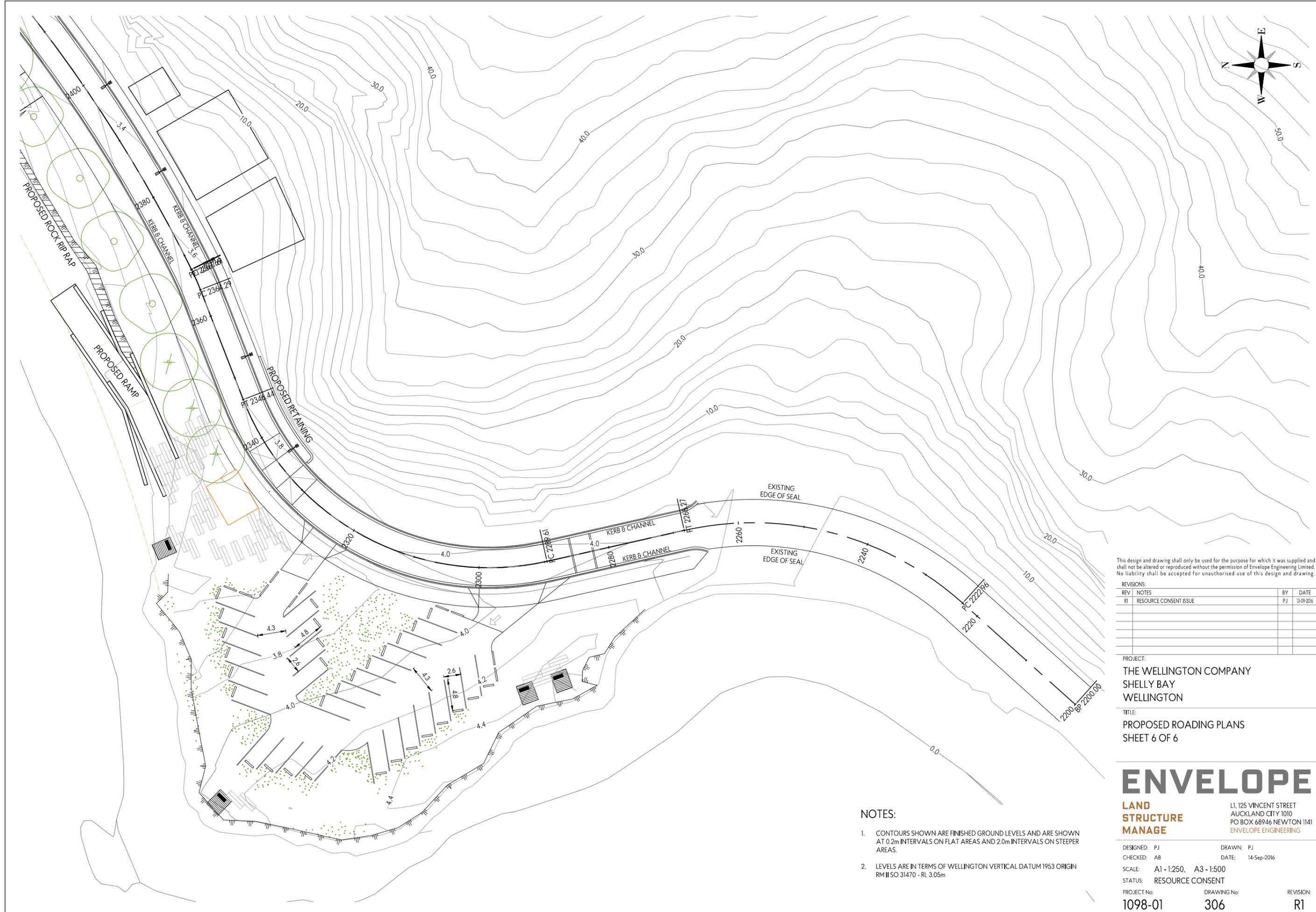
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DESIGNED: PJ DRAWN: PJ
 CHECKED: AB DATE: 14-Sep-2016

SCALE: A1 - 1:250, A3 - 1:500
 STATUS: RESOURCE CONSENT

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- NOTES:
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 SHEET 6 OF 6

ENVELOPE
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L1, 125 VINCENT STREET
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 PROJECT No: 1098-01

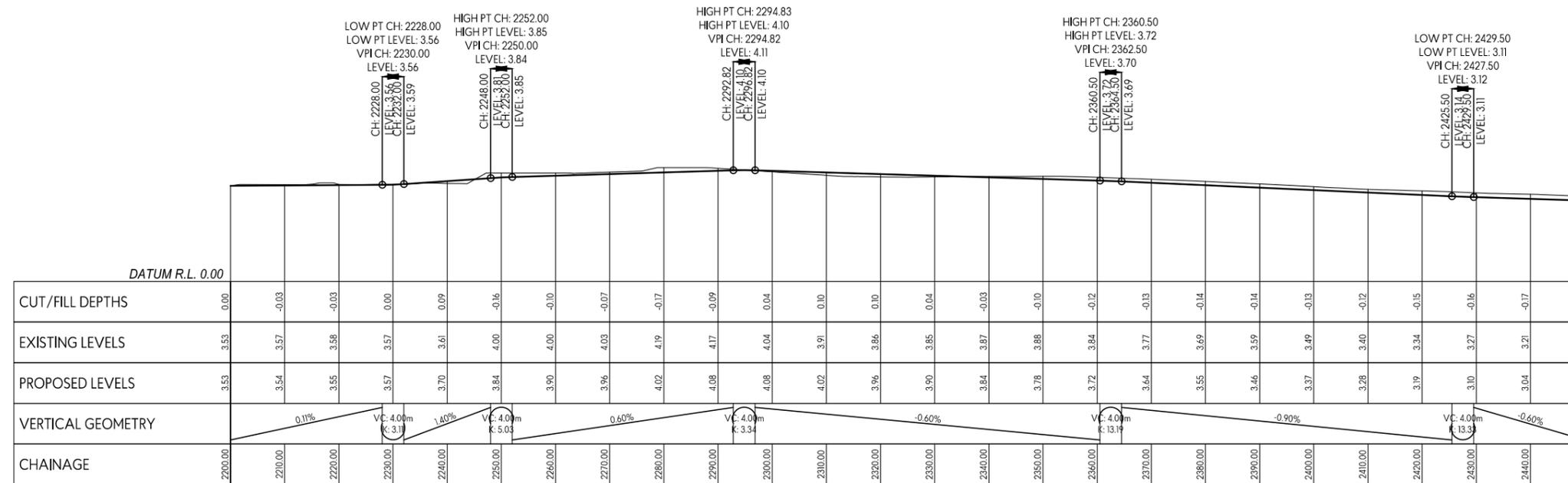
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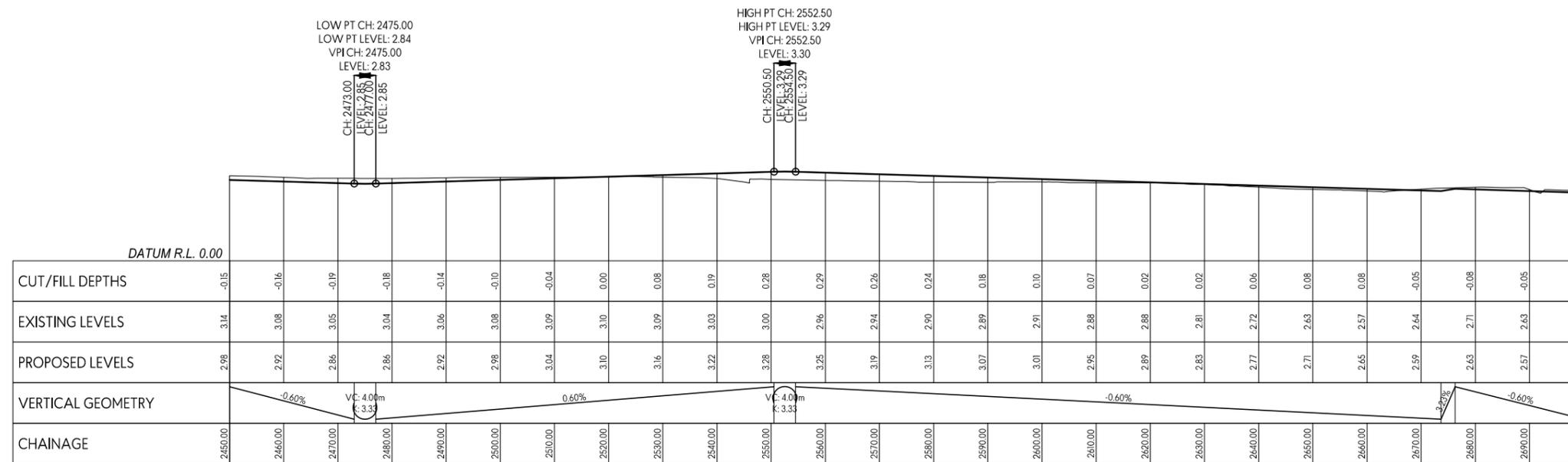
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 2. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM ISO 31470 - RL 3.05m

NOTES:

- LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
- LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m



CL - ROAD-01 SHELLY BAY ROAD
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SHEET 1 OF 4

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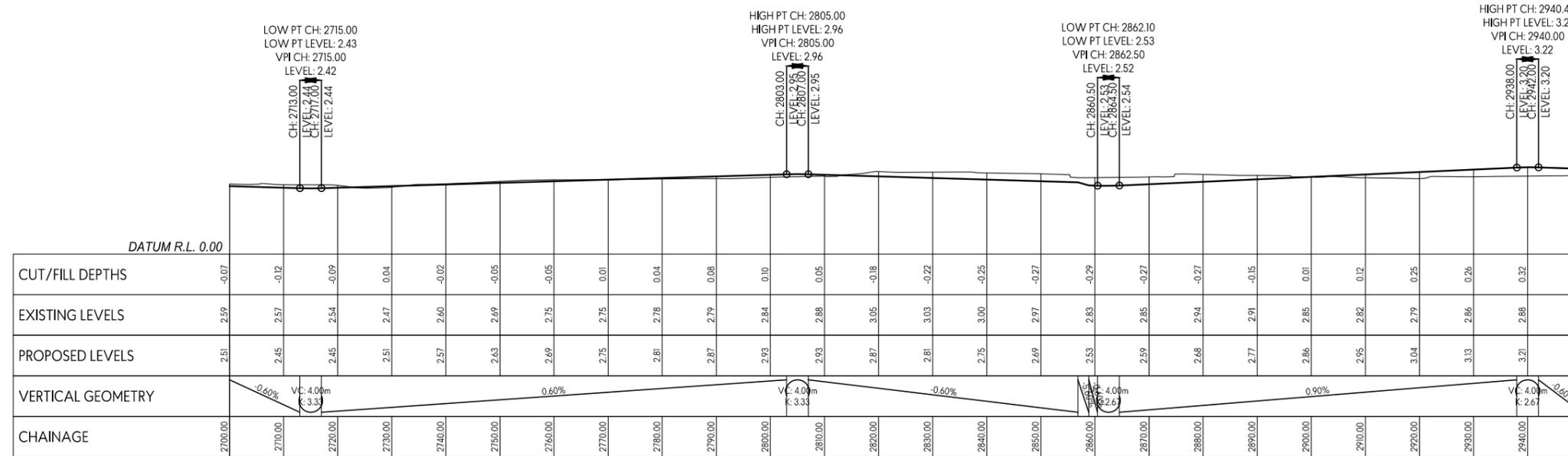
L1, 125 VINCENT STREET
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ENVELOPE ENGINEERING

DESIGNED: PJ
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SCALE: A1 - 1:500 Horz, 1:100 Vert, A3 - 1:1000 Horz, 1:200 Vert
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PROJECT No: 1098-01
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REVISION: R1

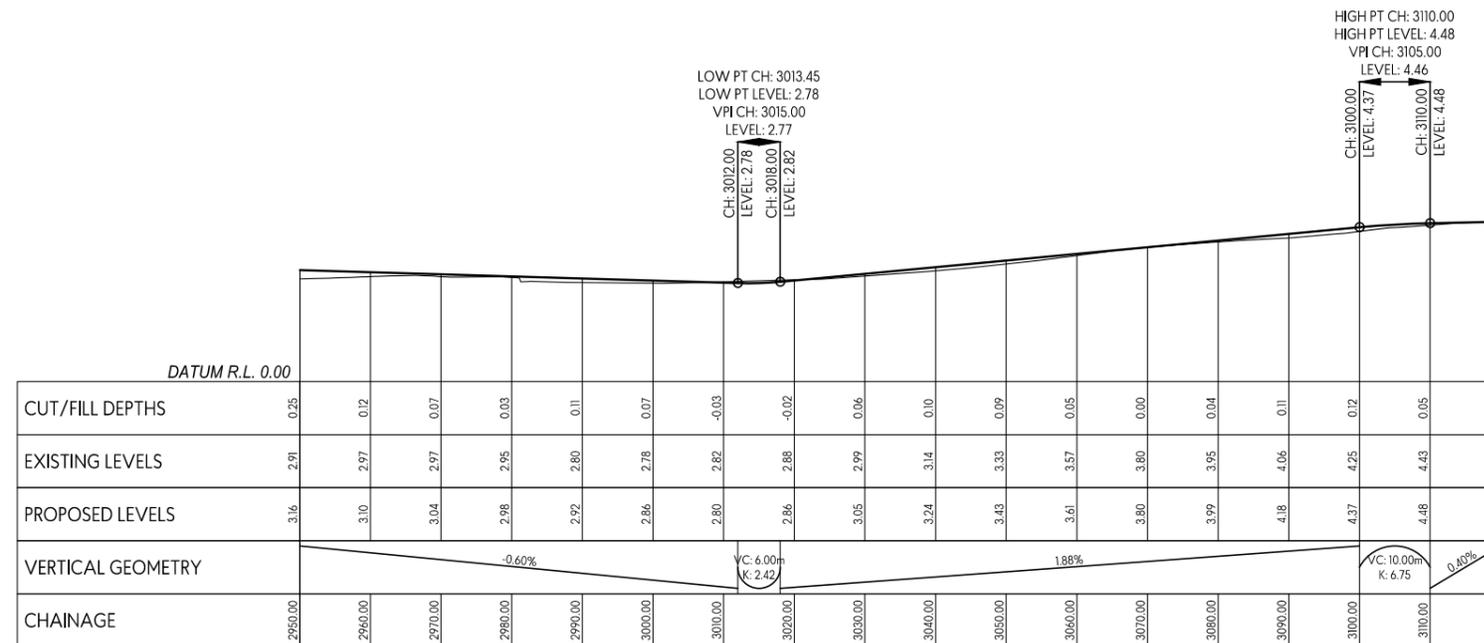
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TITLE:
PROPOSED ROADING LONGSECTIONS
SHEET 2 OF 4

ENVELOPE
LAND
STRUCTURE
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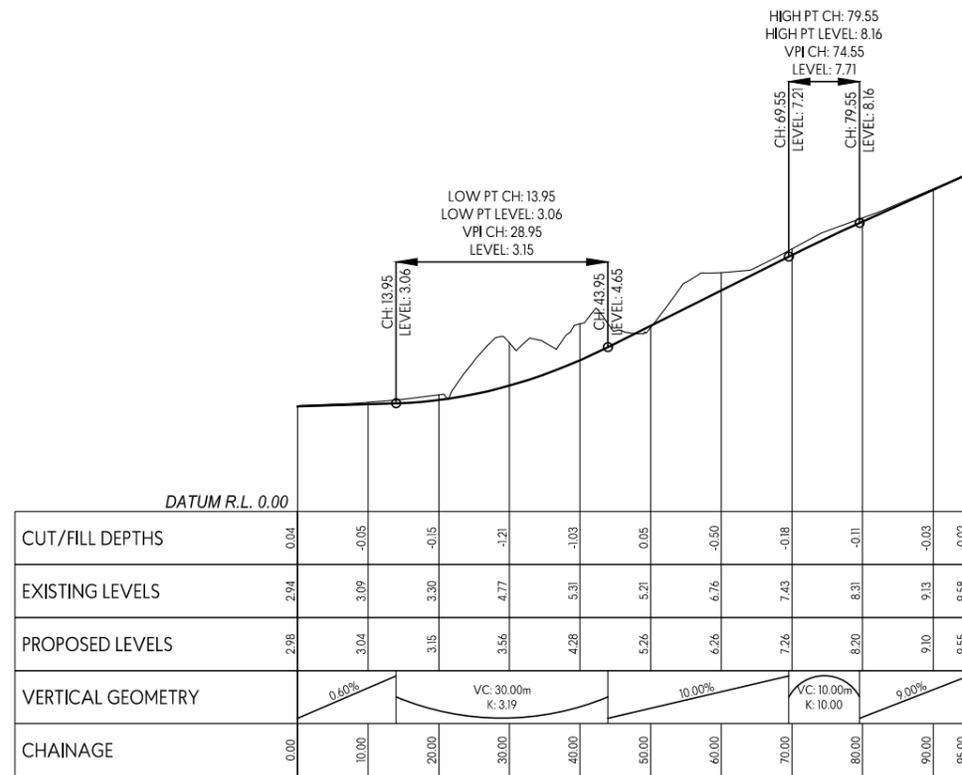
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SCALE: A1 - 1:500 Horz, 1:100 Vert, A3 - 1:1000 Horz, 1:200 Vert
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DRAWING No: 321
REVISION: R1

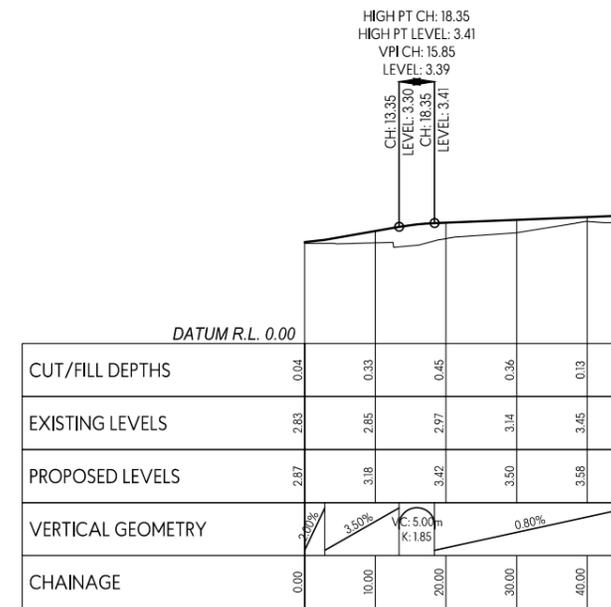
DRAWN: PJ
DATE: 14-Sep-2016

NOTES:

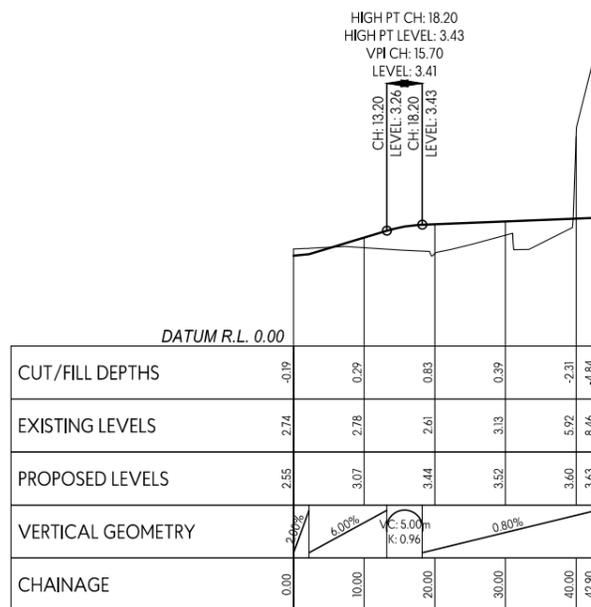
- LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
- LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m



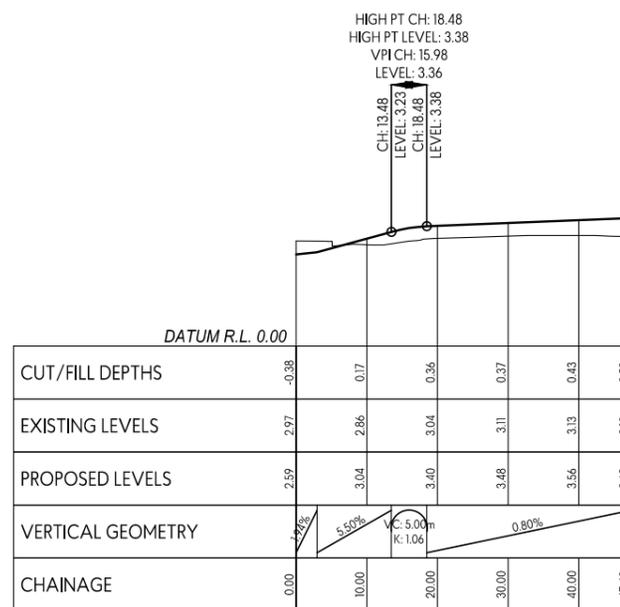
CL - ROAD-02 MAIN ROAD
LONGSECTION BETWEEN 0.00 AND 95.00



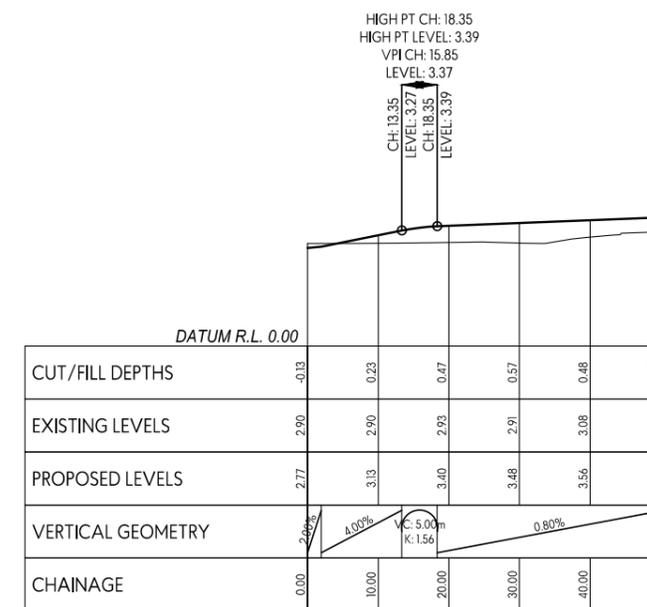
CL - LANE A
LONGSECTION BETWEEN 0.00 AND 45.85



CL - LANE B
LONGSECTION BETWEEN 0.00 AND 42.90



CL - LANE C
LONGSECTION BETWEEN 0.00 AND 47.40



CL - LANE D
LONGSECTION BETWEEN 0.00 AND 50.44

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

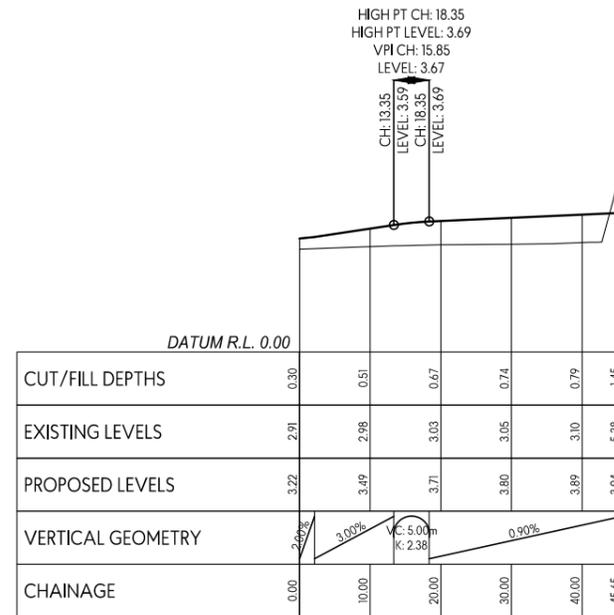
TITLE:
PROPOSED ROADING LONGSECTIONS
SHEET 3 OF 4

ENVELOPE
LAND
STRUCTURE
MANAGE
L1, 125 VINCENT STREET
AUCKLAND CITY 1010
PO BOX 68946 NEWTON 1141
ENVELOPE ENGINEERING

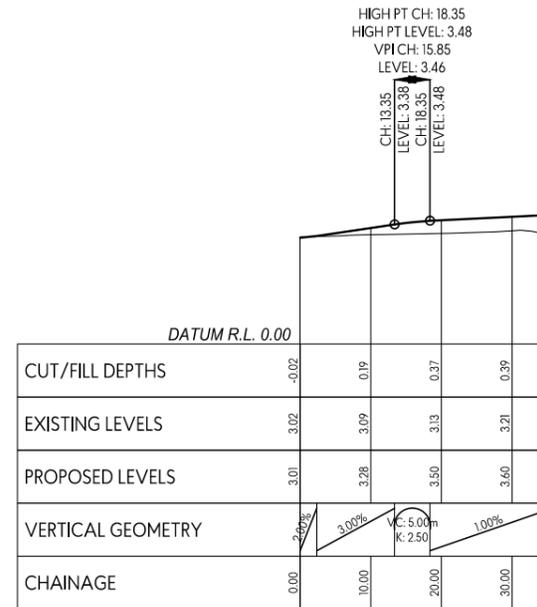
DESIGNED: PJ DRAWN: PJ
CHECKED: AB DATE: 14-Sep-2016
SCALE: A1 - 1:500 Horz, 1:100 Vert, A3 - 1:1000 Horz, 1:200 Vert
STATUS: RESOURCE CONSENT
PROJECT No: 1098-01 DRAWING No: 322 REVISION: R1

NOTES:

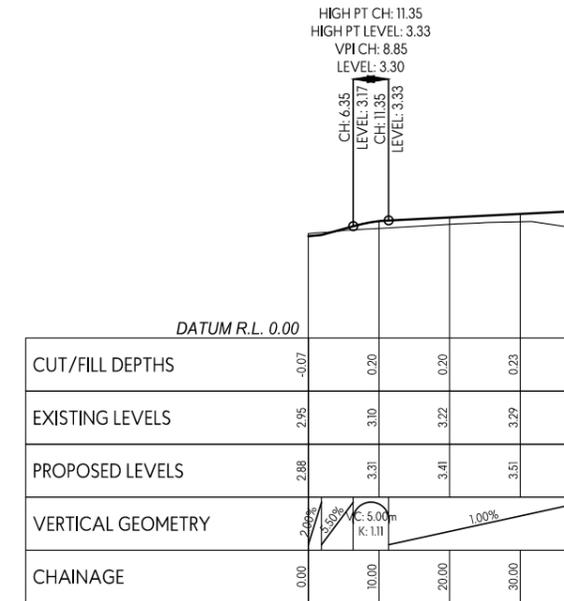
- LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
- LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m



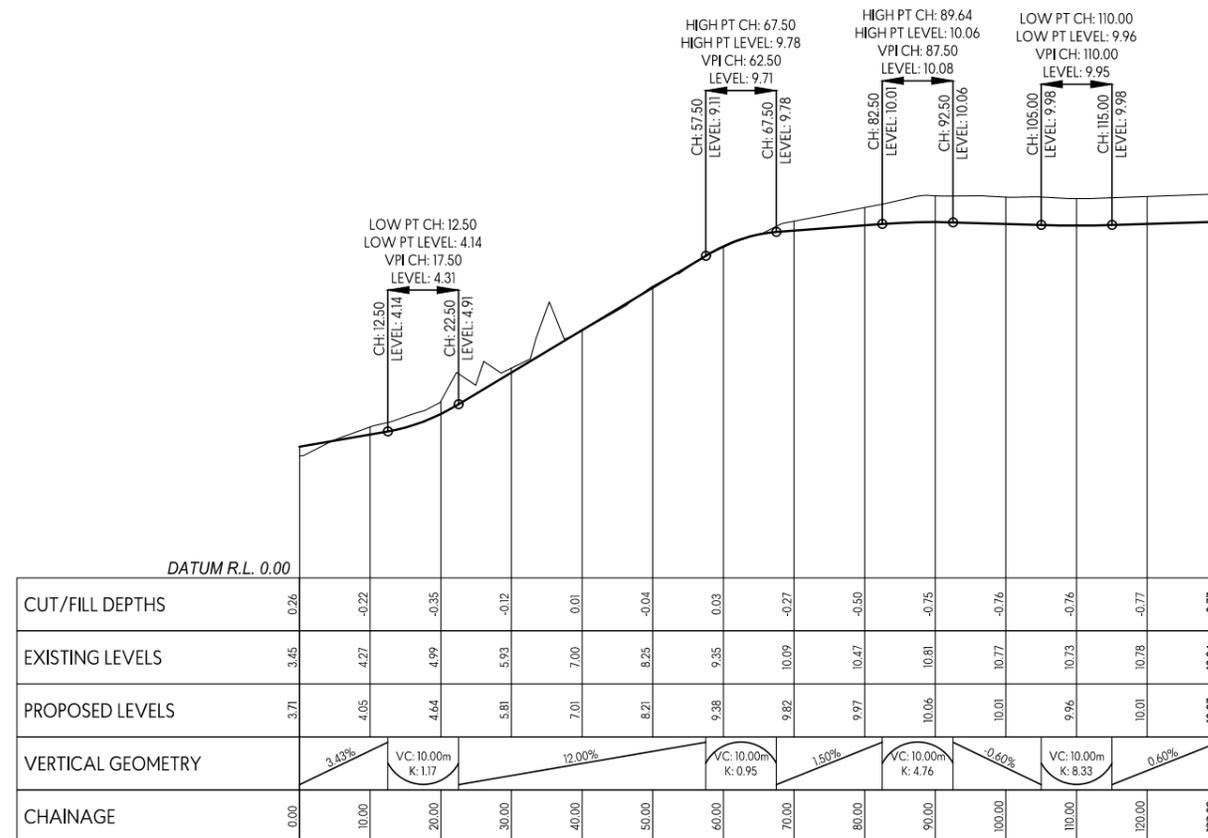
CL - LANE E
LONGSECTION BETWEEN 0.00 AND 45.65



CL - LANE F
LONGSECTION BETWEEN 0.00 AND 35.68



CL - LANE G
LONGSECTION BETWEEN 0.00 AND 38.82



CL - LANE REAR ACCESS
LONGSECTION BETWEEN 0.00 AND 130.12

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
PROPOSED ROADING LONGSECTIONS
SHEET 4 OF 4

ENVELOPE
LAND
STRUCTURE
MANAGE

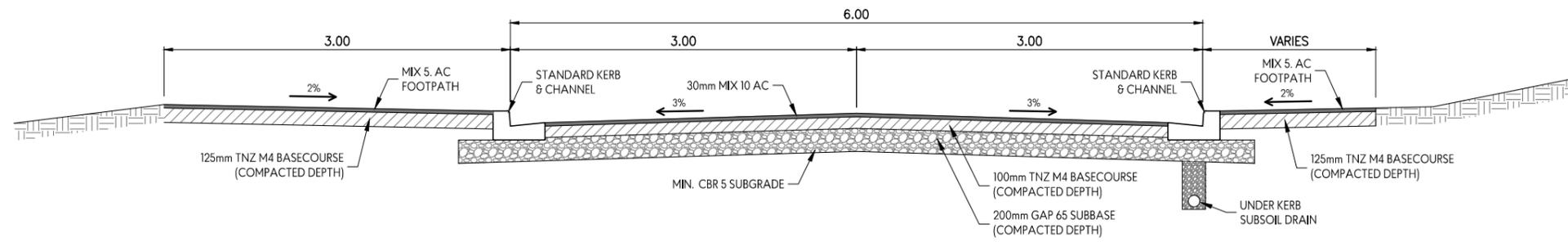
L1, 125 VINCENT STREET
AUCKLAND CITY 1010
PO BOX 68946 NEWTON 1141
ENVELOPE ENGINEERING

DESIGNED: PJ
CHECKED: AB
SCALE: A1 - 1:500 Horz, 1:100 Vert, A3 - 1:1000 Horz, 1:200 Vert
STATUS: RESOURCE CONSENT
PROJECT No: 1098-01
DRAWING No: 323
REVISION: R1

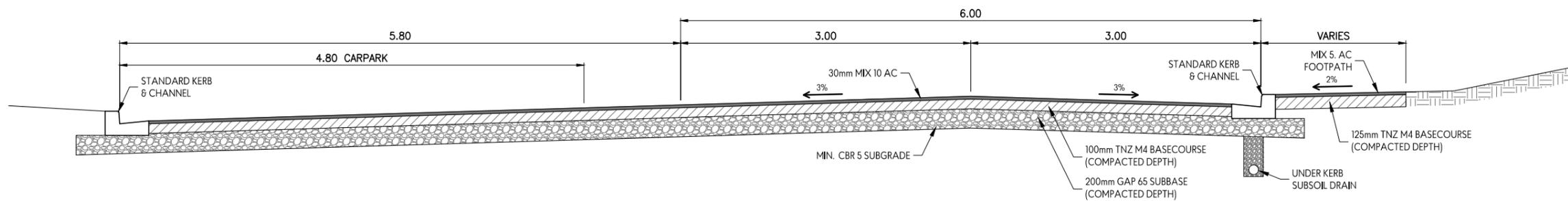
DRAWN: PJ
DATE: 14-Sep-2016

NOTES:

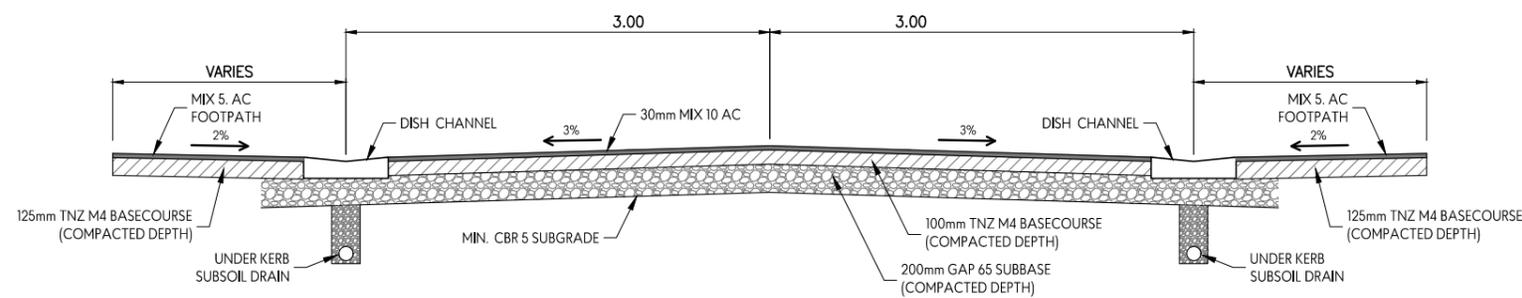
1. ALL METAL DEPTHS AND ROAD LAYERS TO BE CONFIRMED AT DETAIL DESIGN/ENGINEERING APPROVAL STAGE.



**TYPICAL ROAD CROSS-SECTION
ROAD 1 - SHELLY BAY ROAD**



**TYPICAL ROAD CROSS-SECTION
ROAD 1 - SHELLY BAY ROAD
WITH CARPARKING**



**TYPICAL ROAD CROSS-SECTION
ROAD 1 - SHELLY BAY ROAD
CH 2676.3m to 2856.9m**

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
TYPICAL ROAD CROSS-SECTIONS
SHEET 1 OF 2

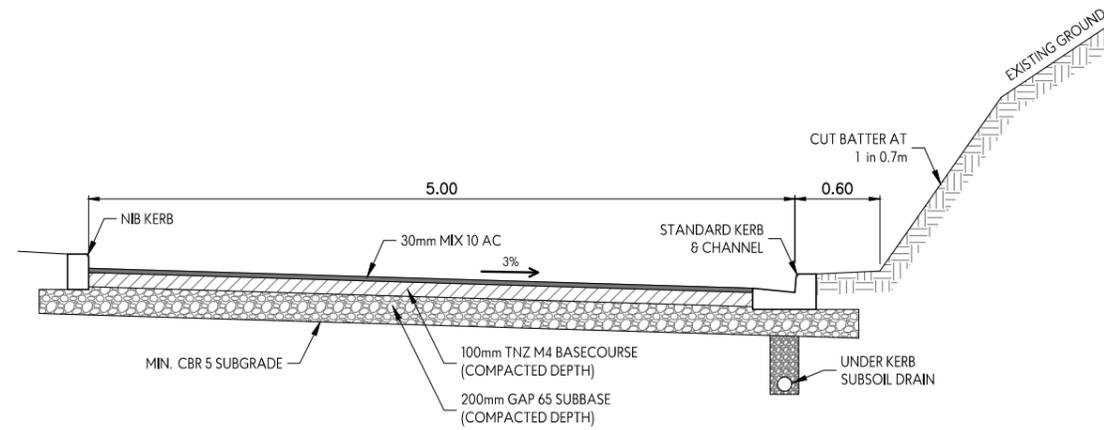
ENVELOPE
LAND
STRUCTURE
MANAGE
L1, 125 VINCENT STREET
AUCKLAND CITY 1010
PO BOX 68946 NEWTON 1141
ENVELOPE ENGINEERING

DESIGNED: PJ
CHECKED: AB
SCALE: A1 - 1:25, A3 - 1:50
STATUS: RESOURCE CONSENT
PROJECT No: 1098-01
DRAWING No: 330
REVISION: R1

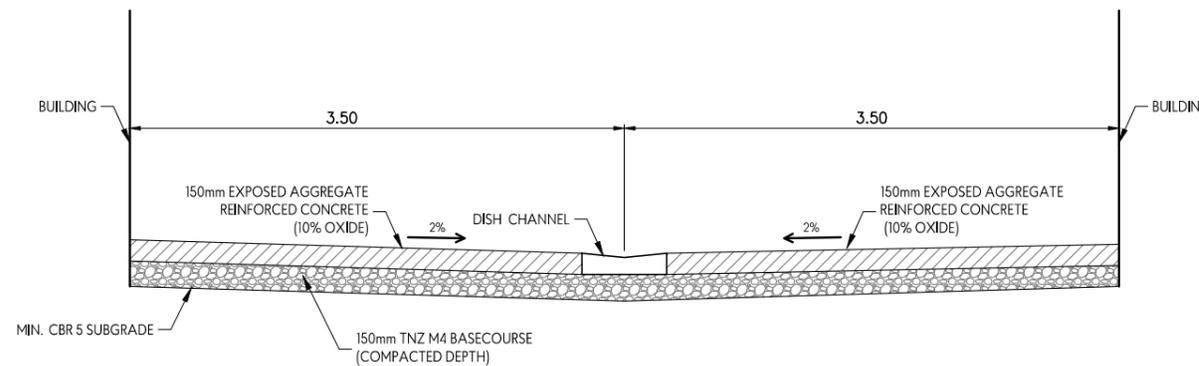
DRAWN: PJ
DATE: 14-Sep-2016
REVISION: R1

NOTES:

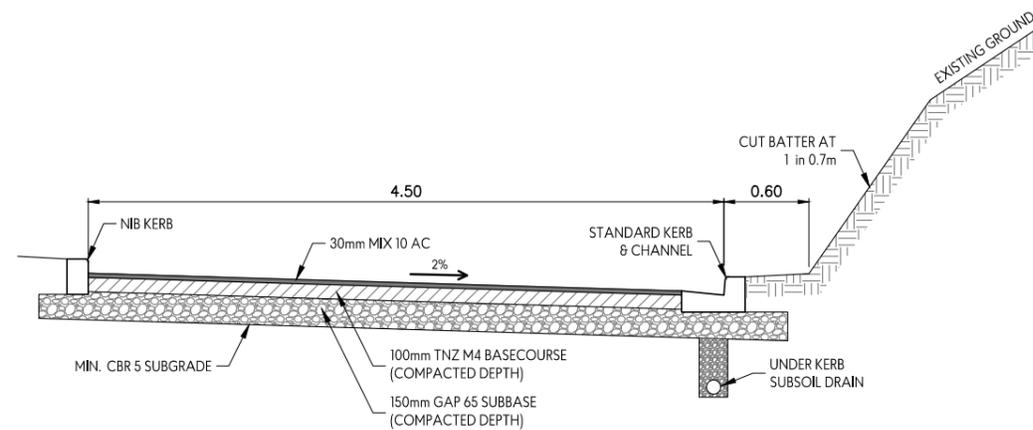
1. ALL METAL DEPTHS AND ROAD LAYERS TO BE CONFIRMED AT DETAIL DESIGN/ENGINEERING APPROVAL STAGE.



TYPICAL ROAD CROSS-SECTION
ROAD 2 - MAIN ROAD



TYPICAL ROAD CROSS-SECTION
SHARED LANES



TYPICAL ROAD CROSS-SECTION
REAR ACCESS LANE

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
TYPICAL ROAD CROSS-SECTIONS
SHEET 2 OF 2

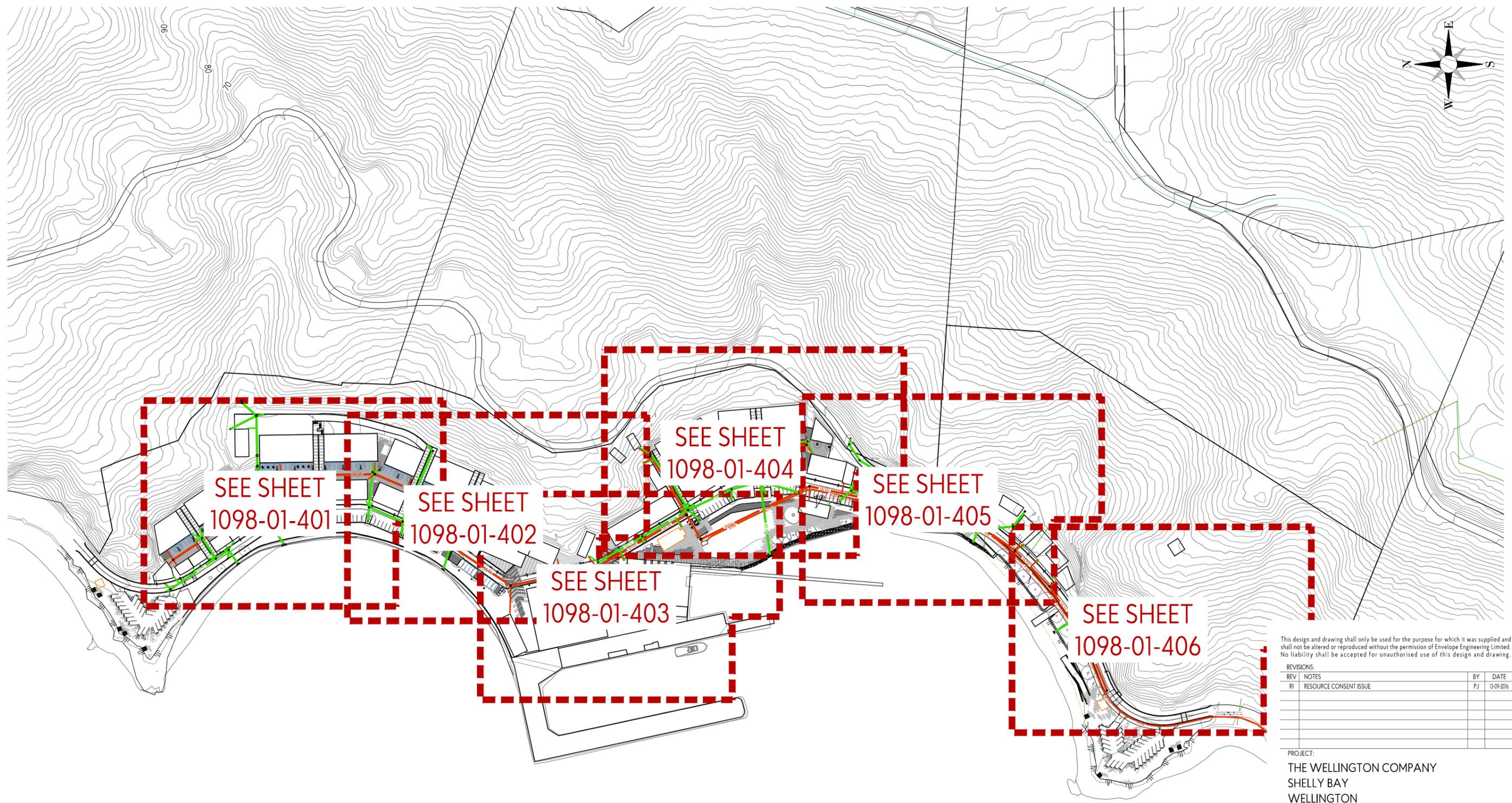
ENVELOPE
LAND
STRUCTURE
MANAGE

L1, 125 VINCENT STREET
AUCKLAND CITY 1010
PO BOX 68946 NEWTON 1141
ENVELOPE ENGINEERING

DESIGNED: PJ
CHECKED: AB
SCALE: A1 - 1:25, A3 - 1:50
STATUS: RESOURCE CONSENT

DRAWN: PJ
DATE: 14-Sep-2016

PROJECT No: 1098-01
DRAWING No: 331
REVISION: R1



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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
 THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
 DRAINAGE PLANS
 OVERALL LAYOUT

ENVELOPE

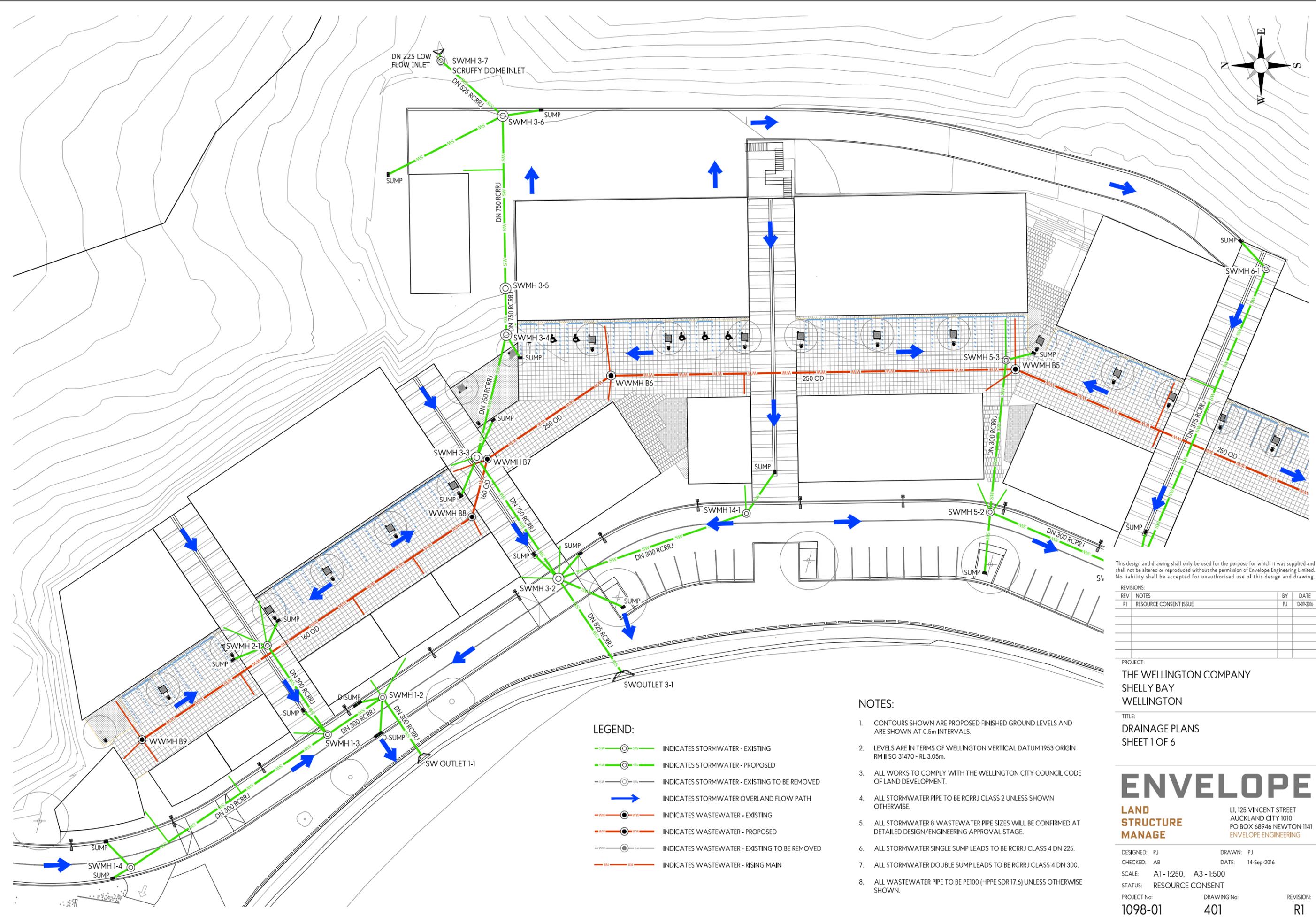
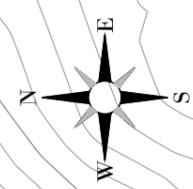
**LAND
 STRUCTURE
 MANAGE**

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:1250, A3 - 1:2500
 PROJECT No: 1098-01

DRAWN: PJ
 DATE: 14-Sep-2016
 STATUS: RESOURCE CONSENT
 DRAWING No: 400

REVISION:
 R1



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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
DRAINAGE PLANS
 SHEET 1 OF 6

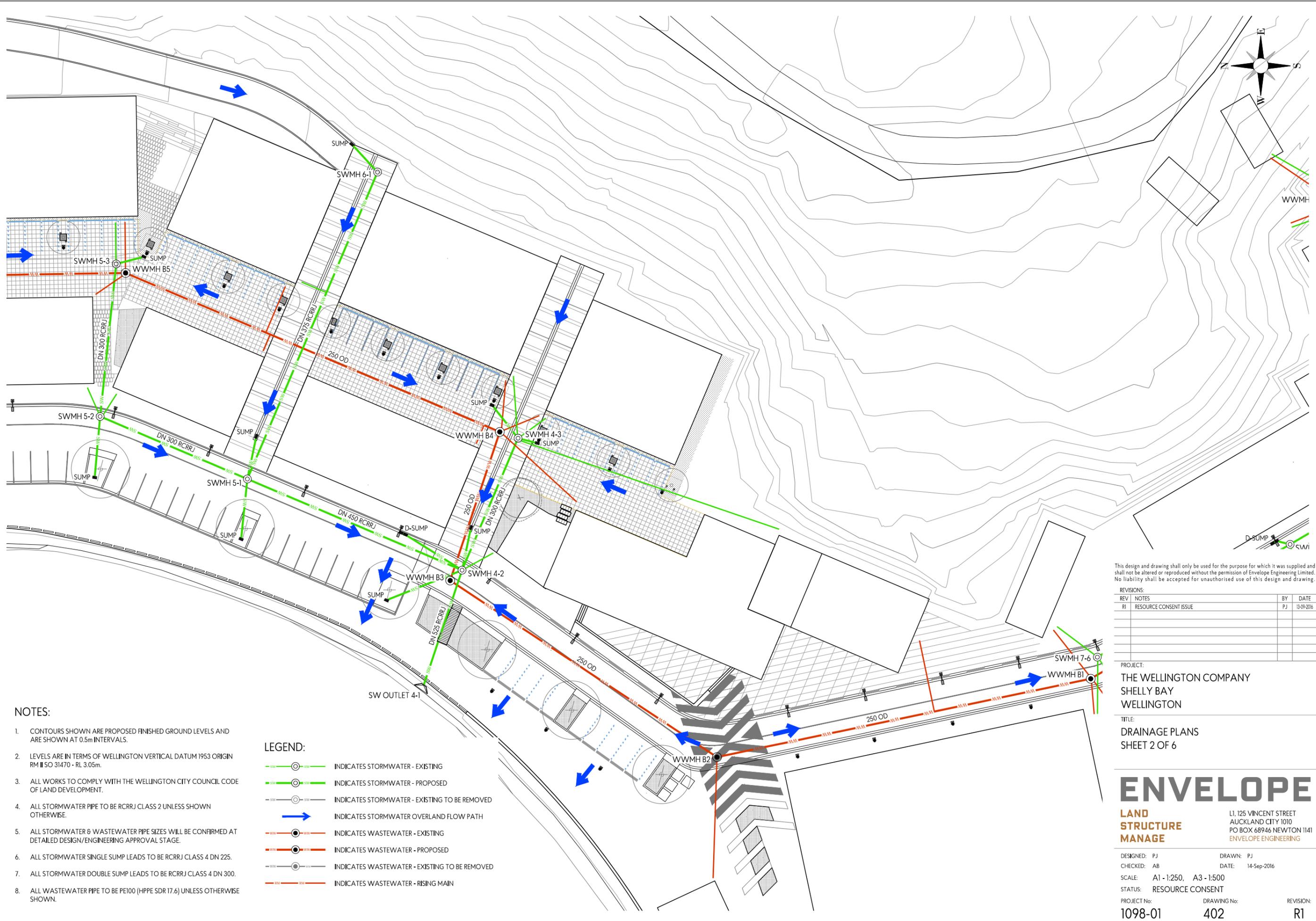
ENVELOPE
 LAND
 STRUCTURE
 MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ	DRAWN: PJ
CHECKED: AB	DATE: 14-Sep-2016
SCALE: A1 - 1:250, A3 - 1:500	
STATUS: RESOURCE CONSENT	
PROJECT No: 1098-01	DRAWING No: 401
	REVISION: R1

- LEGEND:**
- INDICATES STORMWATER - EXISTING
 - INDICATES STORMWATER - PROPOSED
 - INDICATES STORMWATER - EXISTING TO BE REMOVED
 - INDICATES STORMWATER OVERLAND FLOW PATH
 - INDICATES WASTEWATER - EXISTING
 - INDICATES WASTEWATER - PROPOSED
 - INDICATES WASTEWATER - EXISTING TO BE REMOVED
 - INDICATES WASTEWATER - RISING MAIN

- NOTES:**
- CONTOURS SHOWN ARE PROPOSED FINISHED GROUND LEVELS AND ARE SHOWN AT 0.5m INTERVALS.
 - LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m.
 - ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
 - ALL STORMWATER PIPE TO BE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
 - ALL STORMWATER & WASTEWATER PIPE SIZES WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
 - ALL STORMWATER SINGLE SUMP LEADS TO BE RCRRJ CLASS 4 DN 225.
 - ALL STORMWATER DOUBLE SUMP LEADS TO BE RCRRJ CLASS 4 DN 300.
 - ALL WASTEWATER PIPE TO BE PE100 (HPPE SDR 17.6) UNLESS OTHERWISE SHOWN.



NOTES:

1. CONTOURS SHOWN ARE PROPOSED FINISHED GROUND LEVELS AND ARE SHOWN AT 0.5m INTERVALS.
2. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m.
3. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
4. ALL STORMWATER PIPE TO BE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
5. ALL STORMWATER & WASTEWATER PIPE SIZES WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
6. ALL STORMWATER SINGLE SUMP LEADS TO BE RCRRJ CLASS 4 DN 225.
7. ALL STORMWATER DOUBLE SUMP LEADS TO BE RCRRJ CLASS 4 DN 300.
8. ALL WASTEWATER PIPE TO BE PE100 (HPPE SDR 17.6) UNLESS OTHERWISE SHOWN.

LEGEND:

- INDICATES STORMWATER - EXISTING
- INDICATES STORMWATER - PROPOSED
- INDICATES STORMWATER - EXISTING TO BE REMOVED
- INDICATES STORMWATER OVERLAND FLOW PATH
- INDICATES WASTEWATER - EXISTING
- INDICATES WASTEWATER - PROPOSED
- INDICATES WASTEWATER - EXISTING TO BE REMOVED
- INDICATES WASTEWATER - RISING MAIN

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

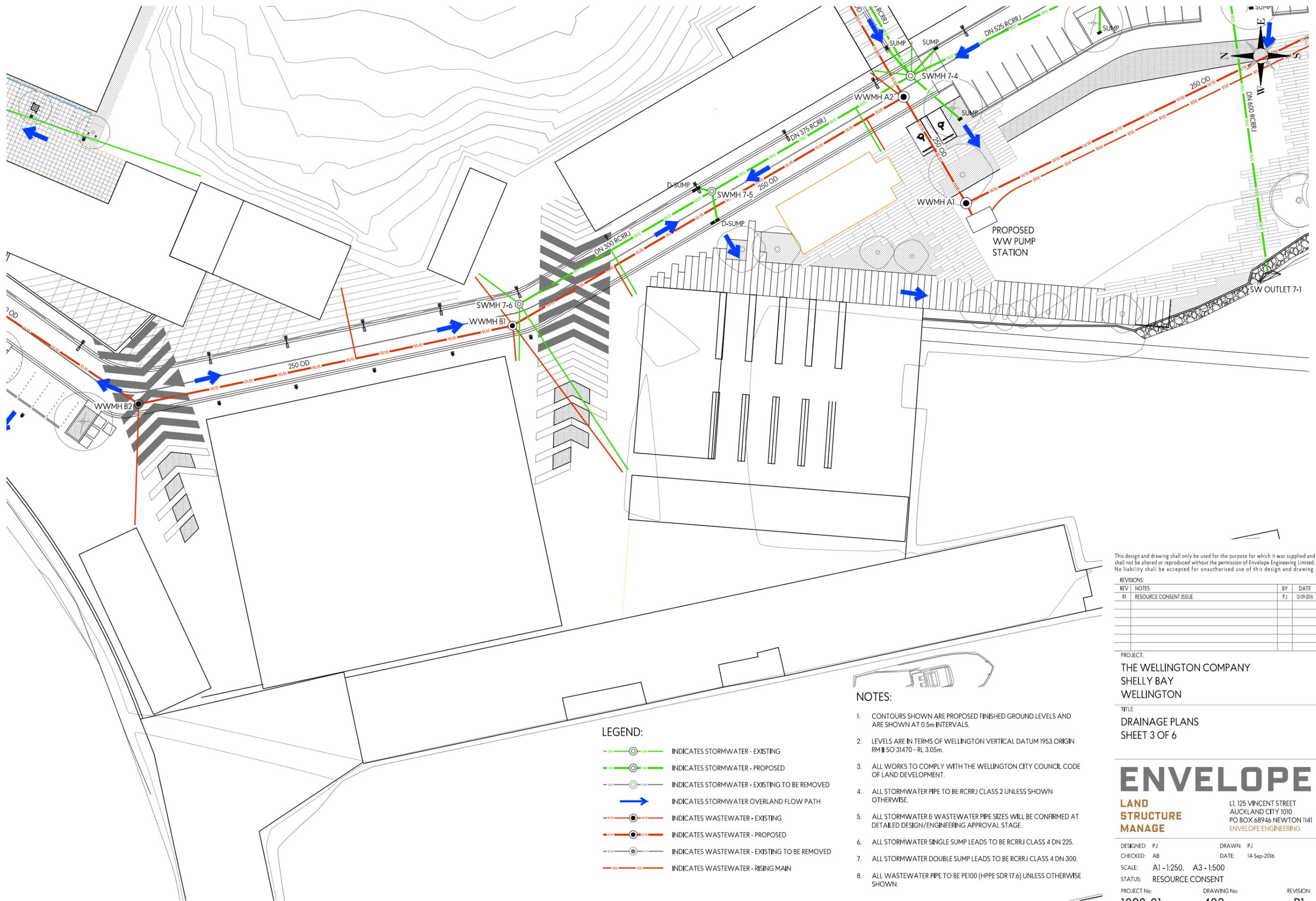
PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
DRAINAGE PLANS
 SHEET 2 OF 6

ENVELOPE
 LAND
 STRUCTURE
 MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ	DRAWN: PJ
CHECKED: AB	DATE: 14-Sep-2016
SCALE: A1 - 1:250, A3 - 1:500	
STATUS: RESOURCE CONSENT	
PROJECT No: 1098-01	DRAWING No: 402
	REVISION: R1



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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
DRAINAGE PLANS
 SHEET 3 OF 6

ENVELOPE
LAND
STRUCTURE
MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:250, A3 - 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01
 DRAWN: PJ
 DATE: 14-Sep-2016
 DRAWING No: 403
 REVISION: R1

- LEGEND:**
- INDICATES STORMWATER - EXISTING
 - INDICATES STORMWATER - PROPOSED
 - INDICATES STORMWATER - EXISTING TO BE REMOVED
 - INDICATES STORMWATER OVERLAND FLOW PATH
 - INDICATES WASTEWATER - EXISTING
 - INDICATES WASTEWATER - PROPOSED
 - INDICATES WASTEWATER - EXISTING TO BE REMOVED
 - INDICATES WASTEWATER - RISING MAIN

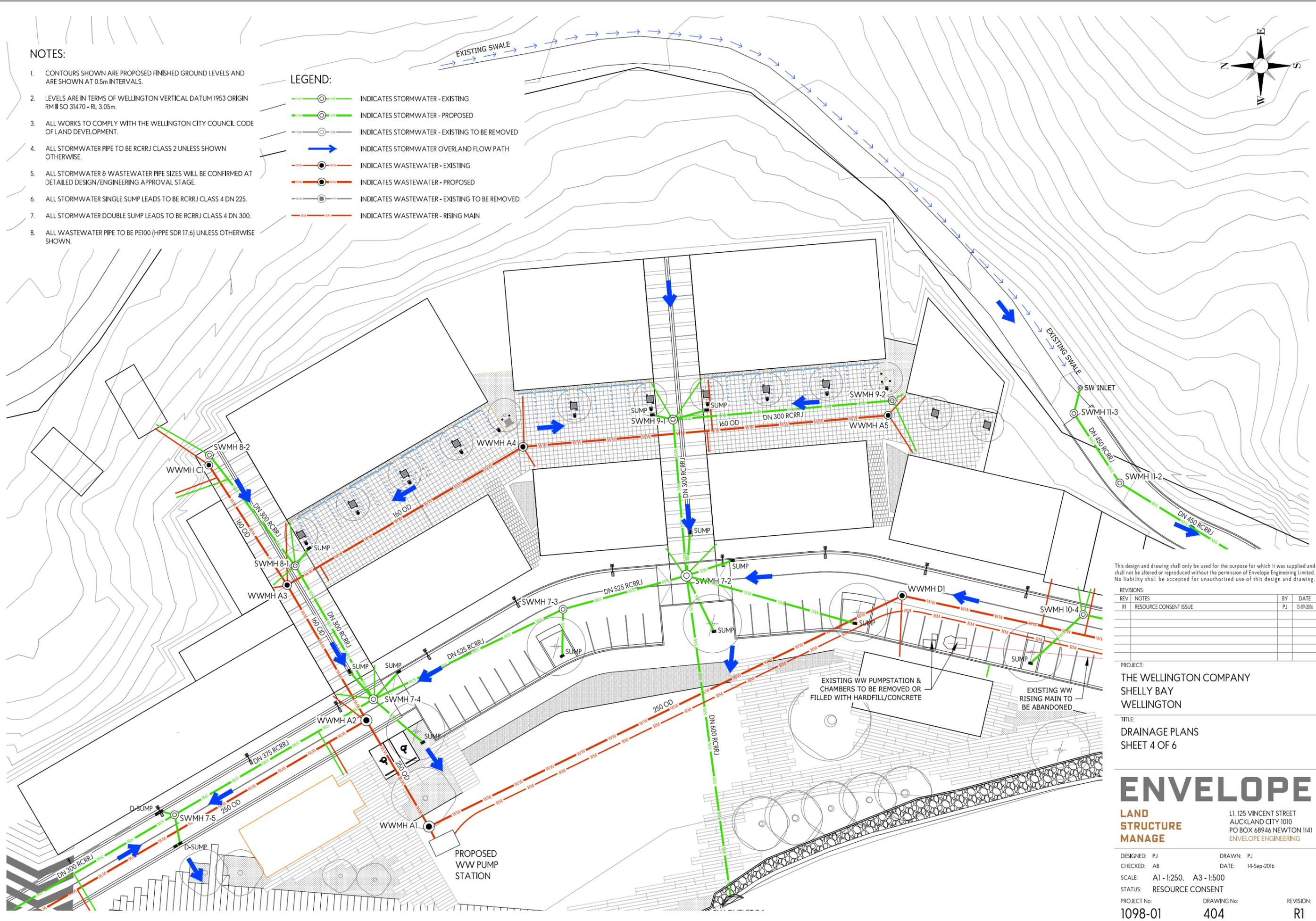
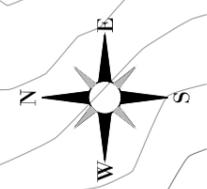
- NOTES:**
1. CONTOURS SHOWN ARE PROPOSED FINISHED GROUND LEVELS AND ARE SHOWN AT 0.5m INTERVALS.
 2. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m.
 3. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
 4. ALL STORMWATER PIPE TO BE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
 5. ALL STORMWATER & WASTEWATER PIPE SIZES WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
 6. ALL STORMWATER SINGLE SUMP LEADS TO BE RCRRJ CLASS 4 DN 225.
 7. ALL STORMWATER DOUBLE SUMP LEADS TO BE RCRRJ CLASS 4 DN 300.
 8. ALL WASTEWATER PIPE TO BE PE100 (HPPE SDR 17.6) UNLESS OTHERWISE SHOWN.

NOTES:

1. CONTOURS SHOWN ARE PROPOSED FINISHED GROUND LEVELS AND ARE SHOWN AT 0.5m INTERVALS.
2. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m.
3. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
4. ALL STORMWATER PIPE TO BE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
5. ALL STORMWATER & WASTEWATER PIPE SIZES WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
6. ALL STORMWATER SINGLE SUMP LEADS TO BE RCRRJ CLASS 4 DN 225.
7. ALL STORMWATER DOUBLE SUMP LEADS TO BE RCRRJ CLASS 4 DN 300.
8. ALL WASTEWATER PIPE TO BE PE100 (HPPE SDR 17.6) UNLESS OTHERWISE SHOWN.

LEGEND:

-  INDICATES STORMWATER - EXISTING
-  INDICATES STORMWATER - PROPOSED
-  INDICATES STORMWATER OVERLAND FLOW PATH
-  INDICATES WASTEWATER - EXISTING
-  INDICATES WASTEWATER - PROPOSED
-  INDICATES WASTEWATER - EXISTING TO BE REMOVED
-  INDICATES WASTEWATER - RISING MAIN



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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

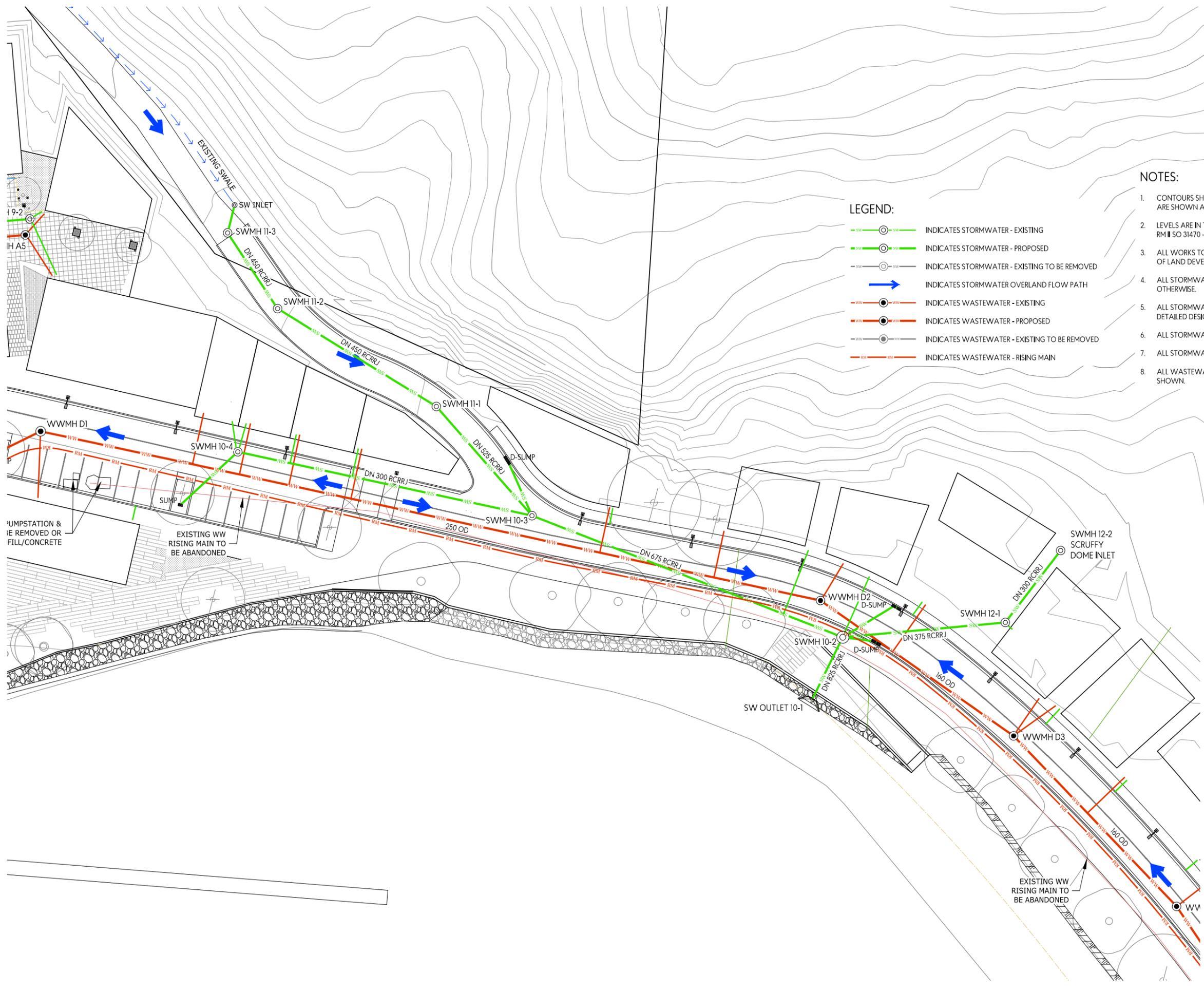
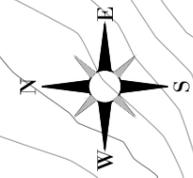
PROJECT:
**THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON**

TITLE:
**DRAINAGE PLANS
 SHEET 4 OF 6**

ENVELOPE
**LAND
 STRUCTURE
 MANAGE**

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ	DRAWN: PJ
CHECKED: AB	DATE: 14-Sep-2016
SCALE: A1 - 1:250, A3 - 1:500	
STATUS: RESOURCE CONSENT	
PROJECT No: 1098-01	DRAWING No: 404
	REVISION: R1



LEGEND:

- INDICATES STORMWATER - EXISTING
- INDICATES STORMWATER - PROPOSED
- INDICATES STORMWATER - EXISTING TO BE REMOVED
- INDICATES STORMWATER OVERLAND FLOW PATH
- INDICATES WASTEWATER - EXISTING
- INDICATES WASTEWATER - PROPOSED
- INDICATES WASTEWATER - EXISTING TO BE REMOVED
- INDICATES WASTEWATER - RISING MAIN

NOTES:

1. CONTOURS SHOWN ARE PROPOSED FINISHED GROUND LEVELS AND ARE SHOWN AT 0.5m INTERVALS.
2. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m.
3. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
4. ALL STORMWATER PIPE TO BE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
5. ALL STORMWATER & WASTEWATER PIPE SIZES WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
6. ALL STORMWATER SINGLE SUMP LEADS TO BE RCRRJ CLASS 4 DN 225.
7. ALL STORMWATER DOUBLE SUMP LEADS TO BE RCRRJ CLASS 4 DN 300.
8. ALL WASTEWATER PIPE TO BE PE100 (HPPE SDR 17.6) UNLESS OTHERWISE SHOWN.

WWMH D1
PUMPSTATION & IE REMOVED OR FILL/CONCRETE

EXISTING WW RISING MAIN TO BE ABANDONED

EXISTING WW RISING MAIN TO BE ABANDONED

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

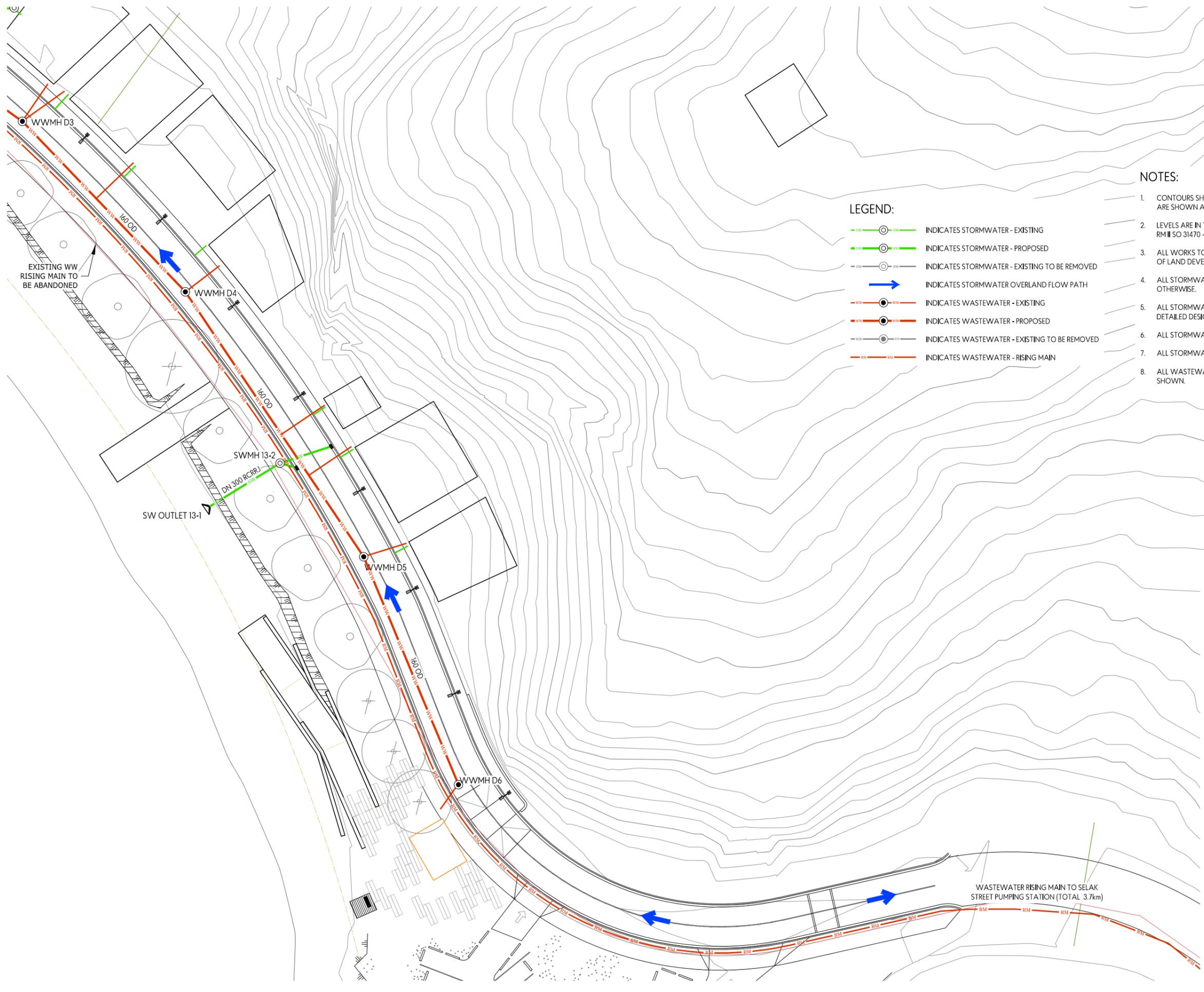
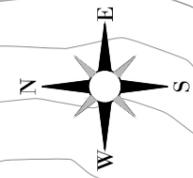
PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
DRAINAGE PLANS
 SHEET 5 OF 6

ENVELOPE
 LAND STRUCTURE MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ	DRAWN: PJ	REVISION:
CHECKED: AB	DATE: 14-Sep-2016	R1
SCALE: A1 - 1:250, A3 - 1:500		
STATUS: RESOURCE CONSENT		
PROJECT No: 1098-01	DRAWING No: 405	



LEGEND:

- INDICATES STORMWATER - EXISTING
- INDICATES STORMWATER - PROPOSED
- INDICATES STORMWATER - EXISTING TO BE REMOVED
- INDICATES STORMWATER OVERLAND FLOW PATH
- INDICATES WASTEWATER - EXISTING
- INDICATES WASTEWATER - PROPOSED
- INDICATES WASTEWATER - EXISTING TO BE REMOVED
- INDICATES WASTEWATER - RISING MAIN

NOTES:

1. CONTOURS SHOWN ARE PROPOSED FINISHED GROUND LEVELS AND ARE SHOWN AT 2.0m INTERVALS.
2. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m.
3. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
4. ALL STORMWATER PIPE TO BE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
5. ALL STORMWATER & WASTEWATER PIPE SIZES WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
6. ALL STORMWATER SINGLE SUMP LEADS TO BE RCRRJ CLASS 4 DN 225.
7. ALL STORMWATER DOUBLE SUMP LEADS TO BE RCRRJ CLASS 4 DN 300.
8. ALL WASTEWATER PIPE TO BE PE100 (HPPE SDR 17.6) UNLESS OTHERWISE SHOWN.

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

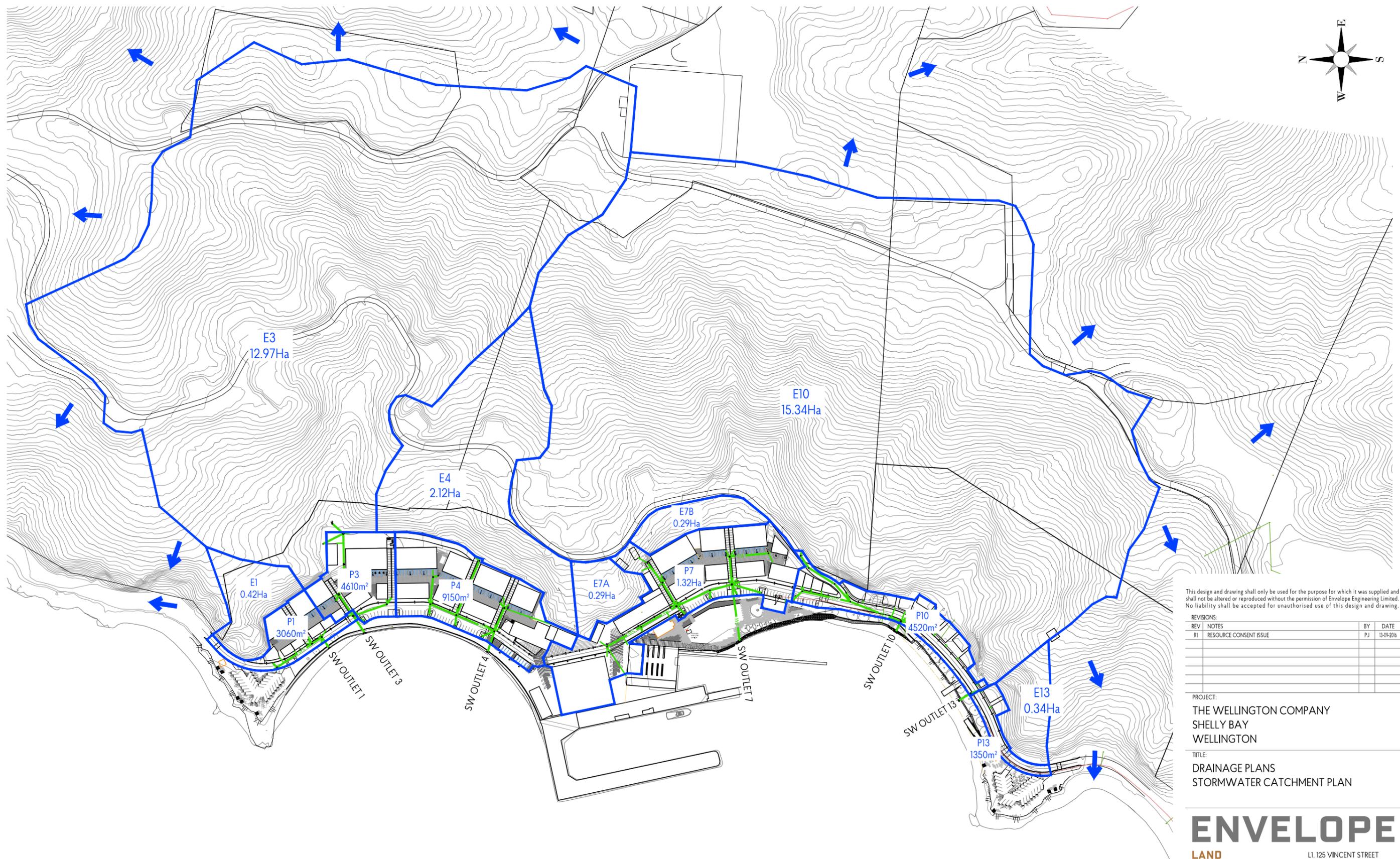
TITLE:
DRAINAGE PLANS
 SHEET 6 OF 6

ENVELOPE
 LAND
 STRUCTURE
 MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:250, A3 - 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01
 DRAWING No: 406
 REVISION: R1

DRAWN: PJ
 DATE: 14-Sep-2016



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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
 THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
 DRAINAGE PLANS
 STORMWATER CATCHMENT PLAN

ENVELOPE
 LAND
 STRUCTURE
 MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:1500, A3 - 1:3000
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01

DRAWN: PJ
 DATE: 14-Sep-2016
 DRAWING No: 410

REVISION:
 R1

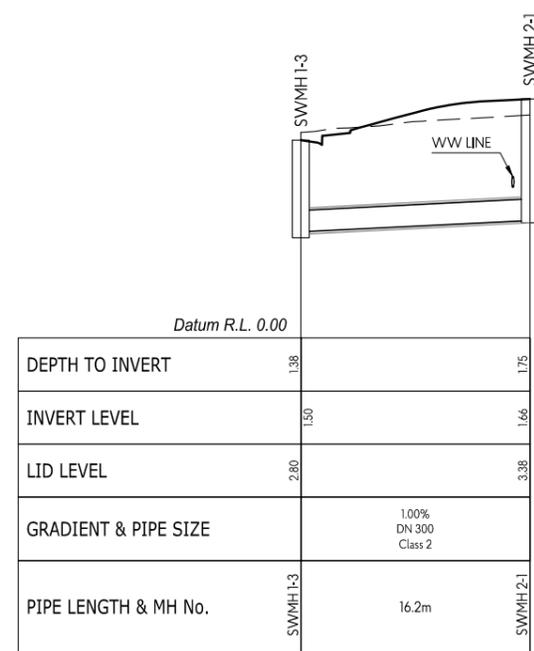
NOTES:

- INDICATES PROPOSED FINISHED GROUND LEVEL
- - - INDICATES EXISTING GROUND LEVEL (PRE EARTHWORKS)
- LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
- PIPE SIZES, INVERTS & GRADES AND MANHOLE DEPTHS ARE PRELIMINARY DESIGN AND WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
- LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05.
- ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
- ALL STORMWATER PIPE TO BE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
- ALL MANHOLES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
- CONTRACTOR TO CHECK ALL INVERTS AGAINST PIPE CLASHES BEFORE LAYING. ADJUSTMENT OF ANY INVERT LEVELS IS AT THE CONTRACTORS OWN RISK DUE TO TIGHT TOLERANCES.
- PIPE LENGTH SHOWN IS THE LENGTH OF PIPE BETWEEN CENTRE OF MANHOLES.
- HARDFILL BACKFILL ALL TRENCHES BELOW CARRIAGEWAY AND 1m EITHER SIDE OF PIPE CROSSOVERS.



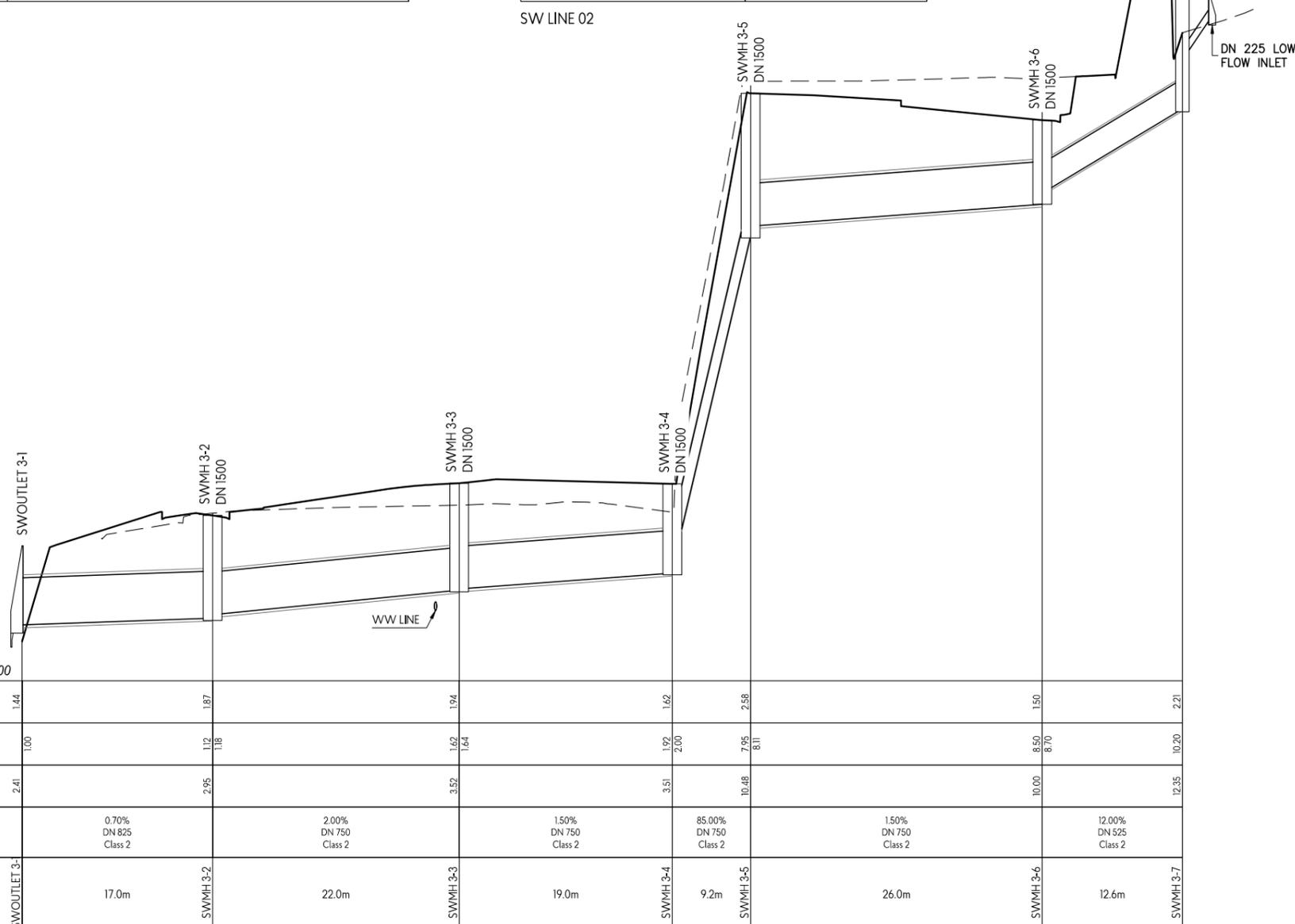
	Datum R.L. 0.00			
DEPTH TO INVERT	0.85	1.60	1.38	1.37
INVERT LEVEL	1.00	1.16 1.25	1.45 1.55	2.09
LID LEVEL	1.82	2.76	2.80	3.46
GRADIENT & PIPE SIZE	1.50% DN 300 Class 2	2.00% DN 300 Class 2	1.50% DN 300 Class 2	
PIPE LENGTH & MH No.	SW OUTLET 1-1 10.5m SWMH 1-2	10.0m SWMH 1-3	35.8m SWMH 1-4	

SW LINE 01



	Datum R.L. 0.00	
DEPTH TO INVERT	1.38	1.75
INVERT LEVEL	1.50	1.66
LID LEVEL	2.80	3.38
GRADIENT & PIPE SIZE	1.00% DN 300 Class 2	
PIPE LENGTH & MH No.	SWMH 1-3 16.2m SWMH 2-1	

SW LINE 02



	Datum R.L. 0.00						
DEPTH TO INVERT	1.44	1.87	1.94	1.62	2.58	1.50	2.21
INVERT LEVEL	1.00	1.12 1.18	1.62 1.64	1.92 2.00	7.95 8.11	8.50 8.70	10.20
LID LEVEL	2.41	2.95	3.52	3.51	10.48	10.00	12.35
GRADIENT & PIPE SIZE	0.70% DN 825 Class 2	2.00% DN 750 Class 2	1.50% DN 750 Class 2	85.00% DN 750 Class 2	1.50% DN 750 Class 2	12.00% DN 525 Class 2	
PIPE LENGTH & MH No.	SW OUTLET 3-1 17.0m SWMH 3-2	22.0m SWMH 3-3	19.0m SWMH 3-4	9.2m SWMH 3-5	26.0m SWMH 3-6	12.6m SWMH 3-7	

SW LINE 03

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
STORMWATER LONGSECTIONS
 SHEET 1 OF 5

ENVELOPE
LAND STRUCTURE MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ DRAWN: PJ
 CHECKED: AB DATE: 14-Sep-2016

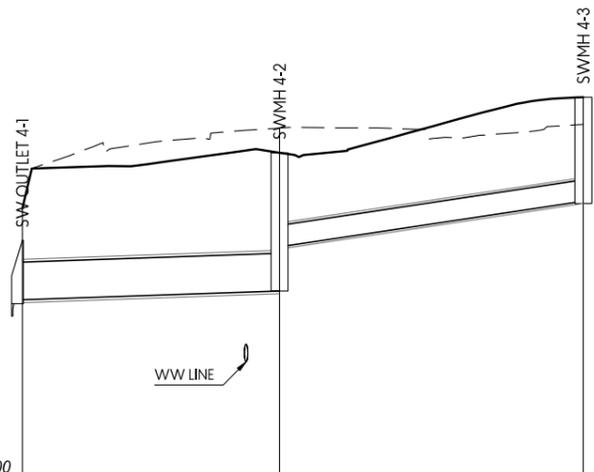
SCALE: A1 - 1:250 Horz, 1:50 Vert. A3 - 1:500 Horz, 1:100 Vert

STATUS: RESOURCE CONSENT

PROJECT No: 1098-01 DRAWING No: 420 REVISION: R1

NOTES:

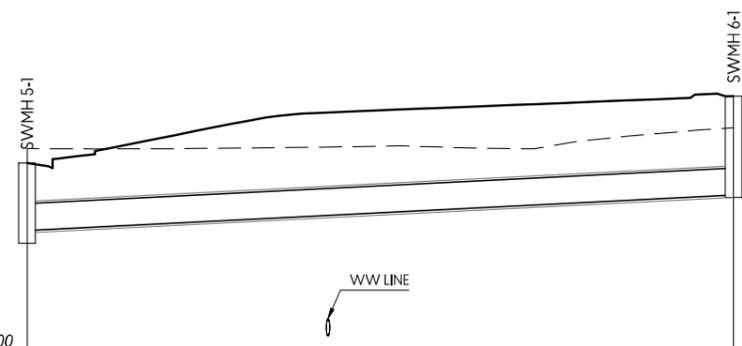
1. ——— INDICATES PROPOSED FINISHED GROUND LEVEL
2. - - - - - INDICATES EXISTING GROUND LEVEL (PRE EARTHWORKS)
3. LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
4. PIPE SIZES, INVERTS & GRADES AND MANHOLE DEPTHS ARE PRELIMINARY DESIGN AND WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
5. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05.
6. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
7. ALL STORMWATER PIPE TO BE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
8. ALL MANHOLES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
9. CONTRACTOR TO CHECK ALL INVERTS AGAINST PIPE CLASHES BEFORE LAYING. ADJUSTMENT OF ANY INVERT LEVELS IS AT THE CONTRACTORS OWN RISK DUE TO TIGHT TOLERANCES.
10. PIPE LENGTH SHOWN IS THE LENGTH OF PIPE BETWEEN CENTRE OF MANHOLES.
11. HARDFILL BACKFILL ALL TRENCHES BELOW CARRIAGEWAY AND 1m EITHER SIDE OF PIPE CROSSOVERS.



Datum R.L. -2.00

DEPTH TO INVERT	0.88	1.95	1.51
INVERT LEVEL	0.55	0.68 1.30	1.95
LID LEVEL	1.39	2.63	3.42
GRADIENT & PIPE SIZE		0.70% DN 525 Class 2	3.00% DN 300 Class 2
PIPE LENGTH & MH No.	SW OUTLET 4-1	18.2m SWMH 4-2	21.5m SWMH 4-3

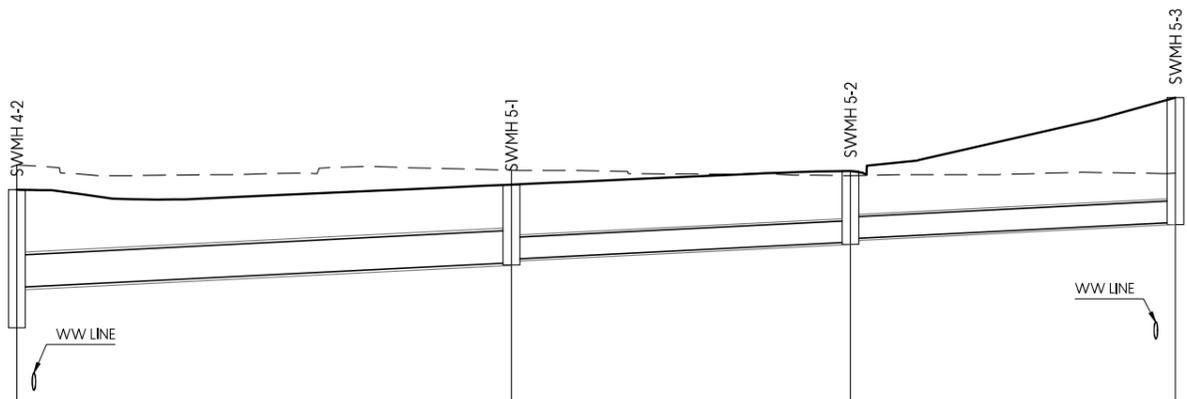
SW LINE 04



Datum R.L. 0.00

DEPTH TO INVERT	1.14	1.43
INVERT LEVEL	1.75	2.25
LID LEVEL	2.70	3.65
GRADIENT & PIPE SIZE		1.00% DN 375 Class 2
PIPE LENGTH & MH No.	SWMH 5-1	50.0m SWMH 6-1

SW LINE 06



Datum R.L. -2.00

DEPTH TO INVERT	1.95	1.14	1.04	1.80
INVERT LEVEL	1.25	1.60 1.65	1.89 1.94	2.17
LID LEVEL	2.63	2.70	2.90	3.93
GRADIENT & PIPE SIZE		1.00% DN 450 Class 2	1.00% DN 300 Class 2	1.00% DN 300 Class 2
PIPE LENGTH & MH No.	SWMH 4-2	35.0m SWMH 5-1	24.0m SWMH 5-2	23.0m SWMH 5-3

SW LINE 05

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

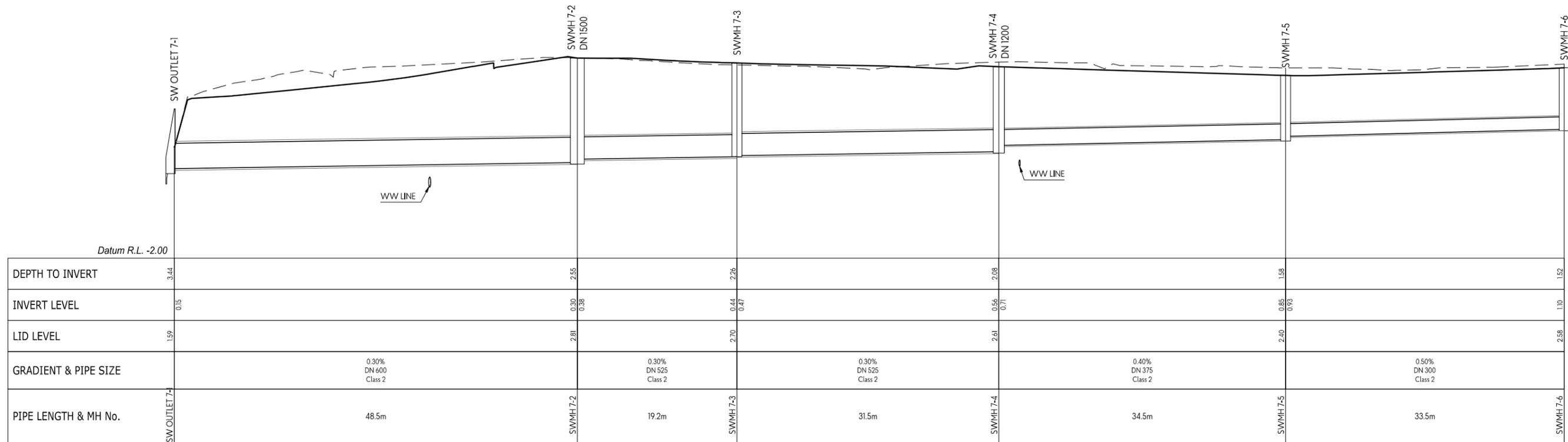
PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
STORMWATER LONGSECTIONS
SHEET 2 OF 5

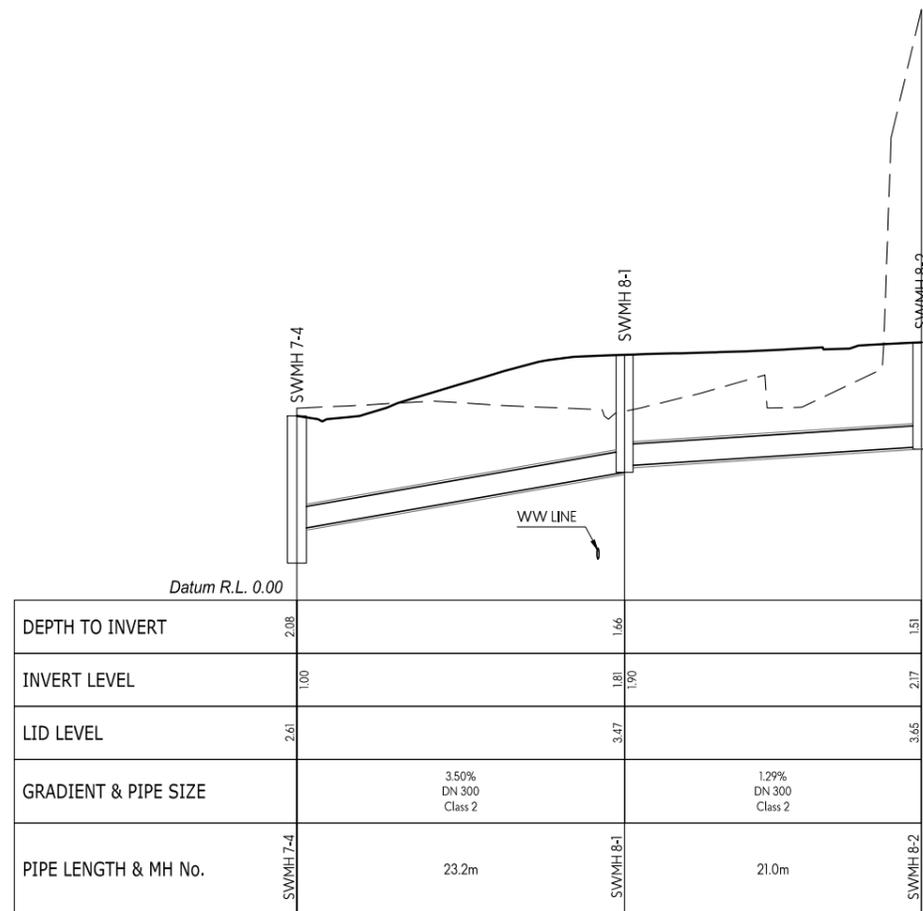
ENVELOPE
LAND STRUCTURE MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ DRAWN: PJ
 CHECKED: AB DATE: 14-Sep-2016
 SCALE: A1 - 1:250 Horz, 1:50 Vert. A3 - 1:500 Horz, 1:100 Vert
 STATUS: RESOURCE CONSENT
 PROJECT No: DRAWING No: REVISION:
1098-01 421 R1



SW LINE 07



SW LINE 08

NOTES:

- INDICATES PROPOSED FINISHED GROUND LEVEL
- INDICATES EXISTING GROUND LEVEL (PRE EARTHWORKS)
- LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
- PIPE SIZES, INVERTS & GRADES AND MANHOLE DEPTHS ARE PRELIMINARY DESIGN AND WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
- LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05.
- ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
- ALL STORMWATER PIPE TO BE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
- ALL MANHOLES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
- CONTRACTOR TO CHECK ALL INVERTS AGAINST PIPE CLASHES BEFORE LAYING. ADJUSTMENT OF ANY INVERT LEVELS IS AT THE CONTRACTORS OWN RISK DUE TO TIGHT TOLERANCES.
- PIPE LENGTH SHOWN IS THE LENGTH OF PIPE BETWEEN CENTRE OF MANHOLES.
- HARDFILL BACKFILL ALL TRENCHES BELOW CARRIAGEWAY AND 1m EITHER SIDE OF PIPE CROSSOVERS.

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
STORMWATER LONGSECTIONS
SHEET 3 OF 5

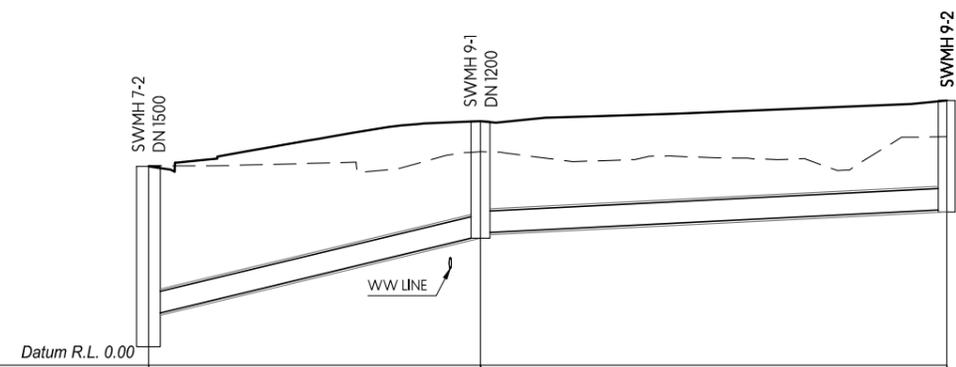
ENVELOPE
LAND STRUCTURE MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:250 Horz, 1:50 Vert, A3 - 1:500 Horz, 1:100 Vert
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01
 DRAWING No: 422
 REVISION: R1

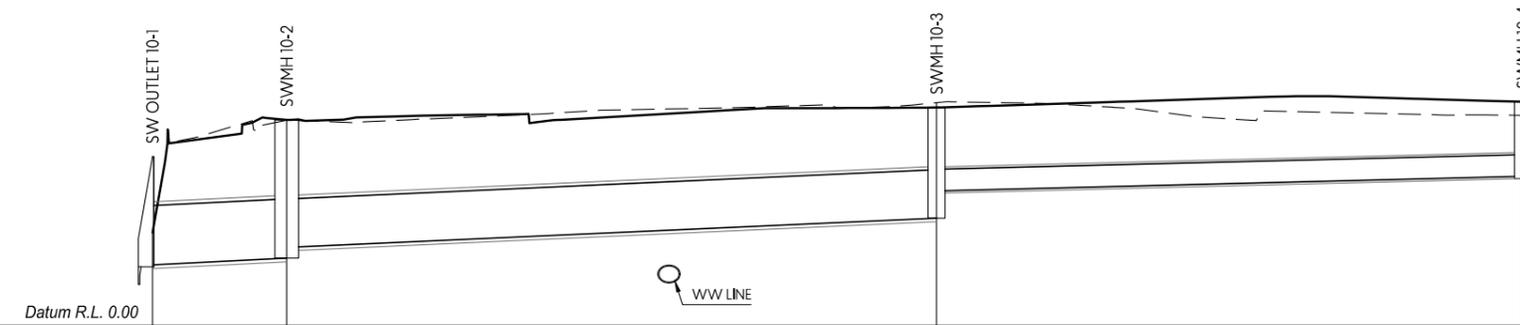
NOTES:

1. ——— INDICATES PROPOSED FINISHED GROUND LEVEL
2. - - - - - INDICATES EXISTING GROUND LEVEL (PRE EARTHWORKS)
3. LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
4. PIPE SIZES, INVERTS & GRADES AND MANHOLE DEPTHS ARE PRELIMINARY DESIGN AND WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
5. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05.
6. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
7. ALL STORMWATER PIPE TO BE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
8. ALL MANHOLES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
9. CONTRACTOR TO CHECK ALL INVERTS AGAINST PIPE CLASHES BEFORE LAYING. ADJUSTMENT OF ANY INVERT LEVELS IS AT THE CONTRACTORS OWN RISK DUE TO TIGHT TOLERANCES.
10. PIPE LENGTH SHOWN IS THE LENGTH OF PIPE BETWEEN CENTRE OF MANHOLES.
11. HARDFILL BACKFILL ALL TRENCHES BELOW CARRIAGEWAY AND 1m EITHER SIDE OF PIPE CROSSOVERS.



DEPTH TO INVERT	2.55	1.66	1.58
INVERT LEVEL	0.70	1.83 1.87	2.20
LID LEVEL	2.81	3.45	3.75
GRADIENT & PIPE SIZE		4.80% DN 300 Class 2	1.00% DN 300 Class 2
PIPE LENGTH & MH No.	SWMH 7-2	23.5m SWMH 9-1	33.0m SWMH 9-2

SW LINE 09



DEPTH TO INVERT	1.58	1.95	1.57	1.09
INVERT LEVEL	0.85	0.95 1.10	1.51 1.90	2.11
LID LEVEL	2.39	2.90	3.08	3.16
GRADIENT & PIPE SIZE		1.00% DN 825 Class 2	0.90% DN 675 Class 2	0.50% DN 300 Class 2
PIPE LENGTH & MH No.	SW OUTLET 10-1	9.5m SWMH 10-2	46.0m SWMH 10-3	41.5m SWMH 10-4

SW LINE 10

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
STORMWATER LONGSECTIONS
SHEET 4 OF 5

ENVELOPE
LAND
STRUCTURE
MANAGE

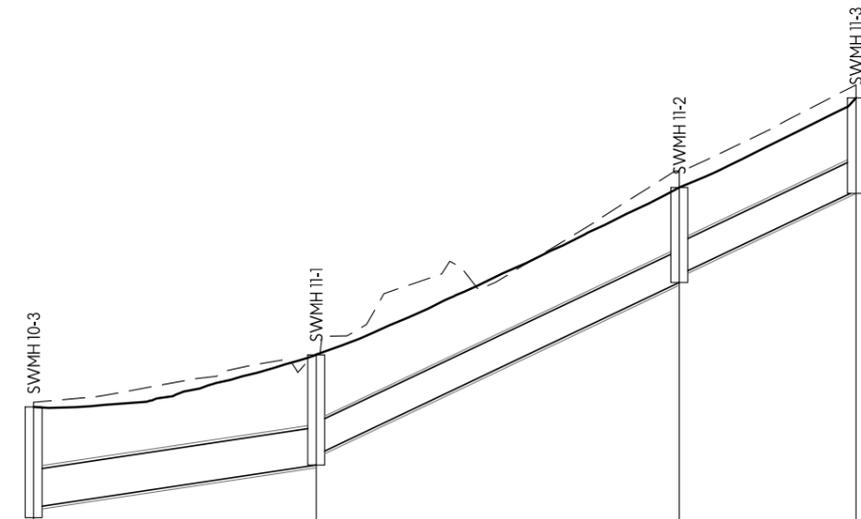
L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:250 Horz, 1:50 Vert, A3 - 1:500 Horz, 1:100 Vert
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01
 DRAWING No: 423
 REVISION: R1

DRAWN: PJ
 DATE: 14-Sep-2016

NOTES:

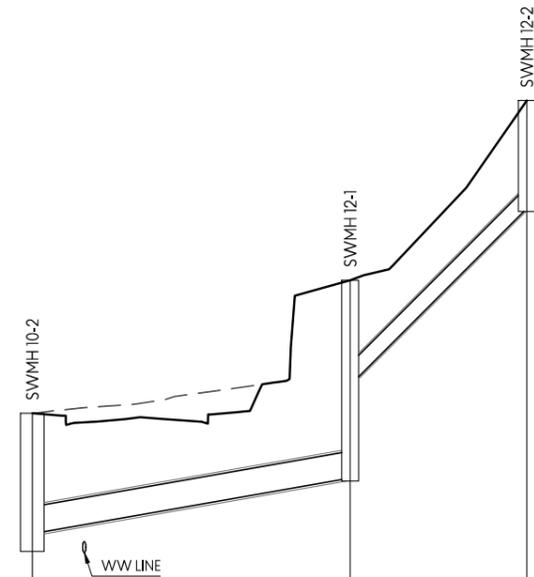
1. ——— INDICATES PROPOSED FINISHED GROUND LEVEL
2. - - - - - INDICATES EXISTING GROUND LEVEL (PRE EARTHWORKS)
3. LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
4. PIPE SIZES, INVERTS & GRADES AND MANHOLE DEPTHS ARE PRELIMINARY DESIGN AND WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
5. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05.
6. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
7. ALL STORMWATER PIPE TO BE RCRRJ CLASS 2 UNLESS SHOWN OTHERWISE.
8. ALL MANHOLES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
9. CONTRACTOR TO CHECK ALL INVERTS AGAINST PIPE CLASHES BEFORE LAYING. ADJUSTMENT OF ANY INVERT LEVELS IS AT THE CONTRACTORS OWN RISK DUE TO TIGHT TOLERANCES.
10. PIPE LENGTH SHOWN IS THE LENGTH OF PIPE BETWEEN CENTRE OF MANHOLES.
11. HARDFILL BACKFILL ALL TRENCHES BELOW CARRIAGEWAY AND 1m EITHER SIDE OF PIPE CROSSOVERS.



Datum R.L. 0.00

DEPTH TO INVERT	1.57	1.56	1.34	1.35
INVERT LEVEL	1.66	2.26 2.40	4.64 4.95	6.14
LID LEVEL	3.08	3.82	6.08	7.45
GRADIENT & PIPE SIZE		3.00% DN 525 Class 2	9.50% DN 450 Class 2	9.50% DN 450 Class 2
PIPE LENGTH & MH No.	SWMH 10-3	20.0m SWMH 11-1	25.8m SWMH 11-2	12.6m SWMH 11-3

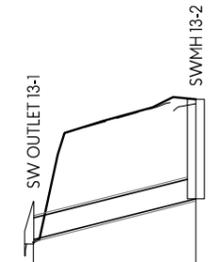
SW LINE 11



Datum R.L. 0.00

DEPTH TO INVERT	1.95	2.84	1.57
INVERT LEVEL	1.20	1.99 3.30	5.80
LID LEVEL	2.90	4.79	7.33
GRADIENT & PIPE SIZE		3.50% DN 375 Class 2	20.00% DN 300 Class 2
PIPE LENGTH & MH No.	SWMH 10-2	22.5m SWMH 12-1	12.7m SWMH 12-2

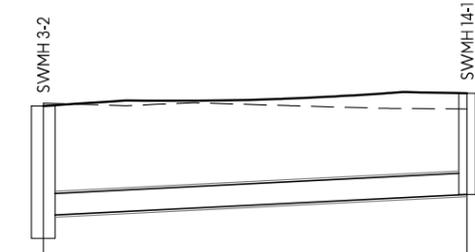
SW LINE 12



Datum R.L. 0.00

DEPTH TO INVERT	0.54	1.41
INVERT LEVEL	1.50	2.08
LID LEVEL	2.04	3.48
GRADIENT & PIPE SIZE		5.00% DN 300 Class 2
PIPE LENGTH & MH No.	SW OUTLET 13-1	11.5m SWMH 13-2

SW LINE 13



Datum R.L. 0.00

DEPTH TO INVERT	1.87	1.43
INVERT LEVEL	1.40	1.70
LID LEVEL	2.95	3.13
GRADIENT & PIPE SIZE		1.00% DN 300 Class 2
PIPE LENGTH & MH No.	SWMH 9-2	30.0m SWMH 14-1

SW LINE 14

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
STORMWATER LONGSECTIONS
 SHEET 5 OF 5

ENVELOPE
 LAND
 STRUCTURE
 MANAGE

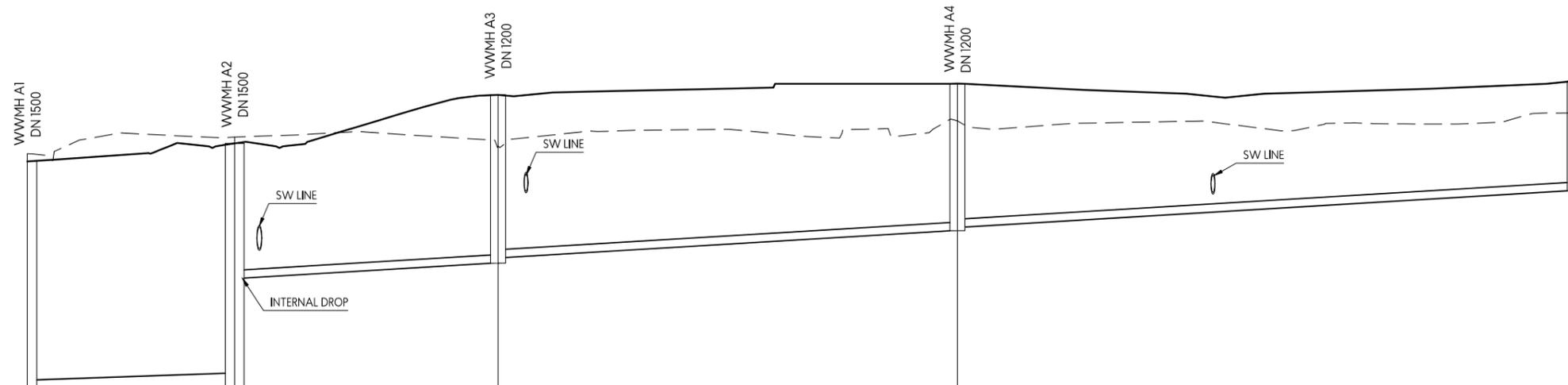
L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:250 Horz, 1:50 Vert, A3 - 1:500 Horz, 1:100 Vert
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01
 DRAWING No: 424
 REVISION: R1

DRAWN: PJ
 DATE: 14-Sep-2016

NOTES:

1. ——— INDICATES PROPOSED FINISHED GROUND LEVEL
2. - - - - - INDICATES EXISTING GROUND LEVEL (PRE EARTHWORKS)
3. LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
4. PIPE SIZES, INVERTS & GRADES AND MANHOLE DEPTHS ARE PRELIMINARY DESIGN AND WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
5. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05.
6. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
7. ALL WASTEWATER PIPE TO BE 160 OD PE100 (HPPE SDR 17.6) UNLESS SHOWN OTHERWISE.
8. ALL MANHOLES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
9. CONTRACTOR TO CHECK ALL INVERTS AGAINST PIPE CLASHES BEFORE LAYING. ADJUSTMENT OF ANY INVERT LEVELS IS AT THE CONTRACTORS OWN RISK DUE TO TIGHT TOLERANCES.
10. PIPE LENGTH SHOWN IS THE LENGTH OF PIPE BETWEEN CENTRE OF MANHOLES.
11. HARDFILL BACKFILL ALL TRENCHES BELOW CARRIAGEWAY AND 1m EITHER SIDE OF PIPE CROSSOVERS.



	WWMH A1	WWMH A2	WWMH A3	WWMH A4	WWMH A5
DEPTH TO INVERT	4.13	4.33	3.00	2.62	1.96
INVERT LEVEL	-1.85	-1.72 0.19	0.47 0.56	1.05 1.10	1.76
LID LEVEL	2.28	2.60	3.46	3.66	3.71
GRADIENT & PIPE SIZE	0.70% 250 OD PE100 SDR 17	1.20% 160 OD PE100 SDR 17			
PIPE LENGTH & MH No.	18.5m	23.5m	41.0m	55.0m	

WW LINE A

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
WASTEWATER LONGSECTIONS
SHEET 1 OF 5

ENVELOPE

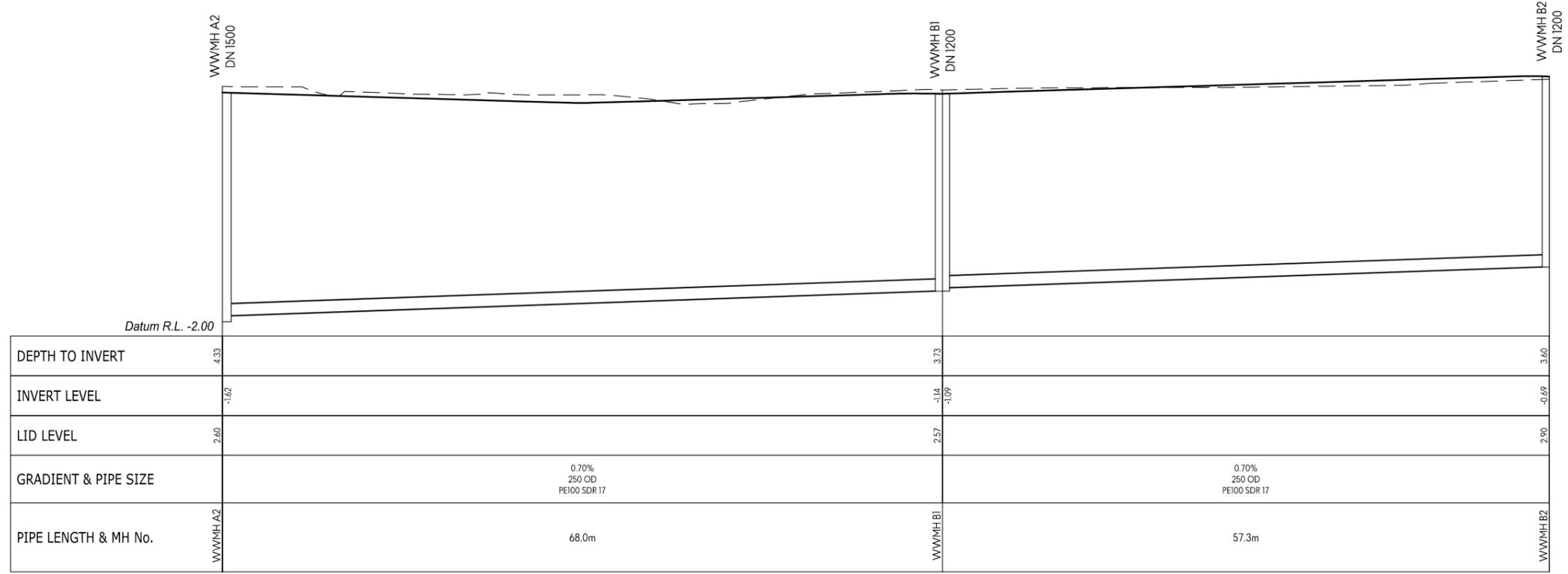
**LAND
STRUCTURE
MANAGE**

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

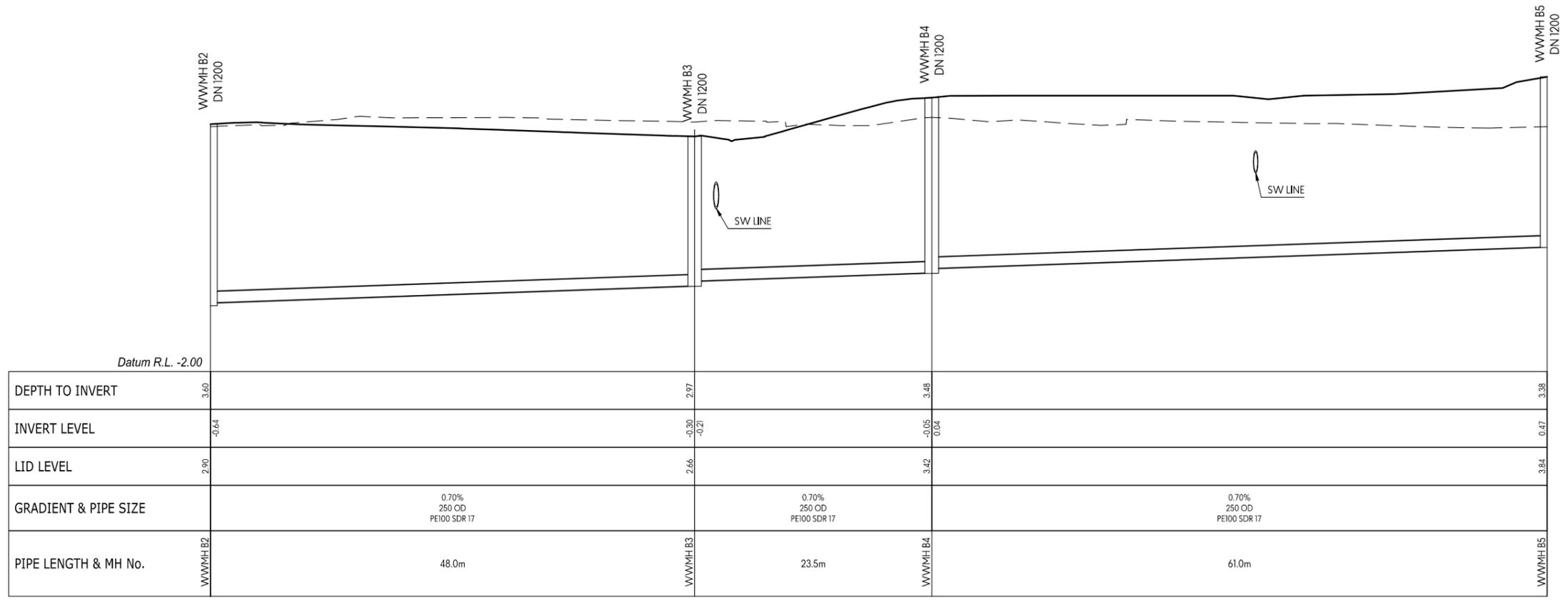
DESIGNED: PJ DRAWN: PJ
 CHECKED: AB DATE: 14-Sep-2016
 SCALE: A1 - 1:250 Horz, 1:50 Vert. A3 - 1:500 Horz, 1:100 Vert
 STATUS: RESOURCE CONSENT
 PROJECT No: DRAWING No: REVISION:
1098-01 430 R1

NOTES:

1. ——— INDICATES PROPOSED FINISHED GROUND LEVEL
2. - - - - - INDICATES EXISTING GROUND LEVEL (PRE EARTHWORKS)
3. LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
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5. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05.
6. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
7. ALL WASTEWATER PIPE TO BE 160 OD PE100 (HPPE SDR 17.6) UNLESS SHOWN OTHERWISE.
8. ALL MANHOLES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
9. CONTRACTOR TO CHECK ALL INVERTS AGAINST PIPE CLASHES BEFORE LAYING. ADJUSTMENT OF ANY INVERT LEVELS IS AT THE CONTRACTORS OWN RISK DUE TO TIGHT TOLERANCES.
10. PIPE LENGTH SHOWN IS THE LENGTH OF PIPE BETWEEN CENTRE OF MANHOLES.
11. HARDFILL BACKFILL ALL TRENCHES BELOW CARRIAGEWAY AND 1m EITHER SIDE OF PIPE CROSSOVERS.



WW LINE B



WW LINE B

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

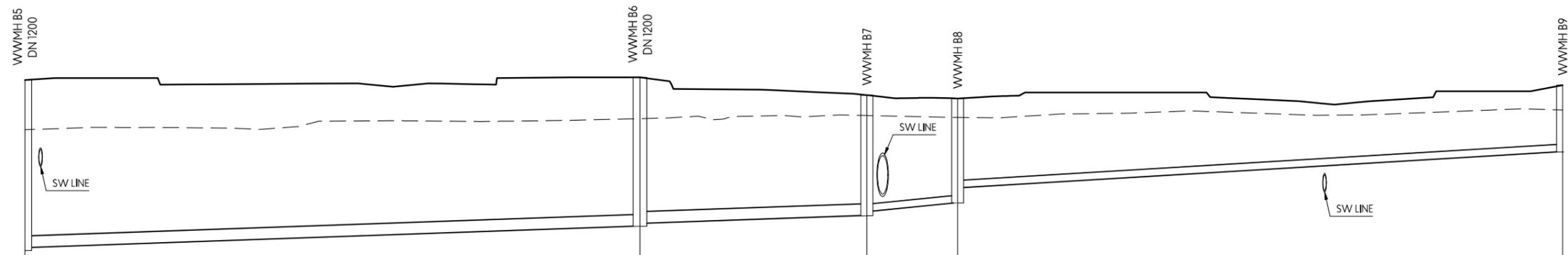
PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
WASTEWATER LONGSECTIONS
 SHEET 2 OF 5

ENVELOPE
 LAND
 STRUCTURE
 MANAGE

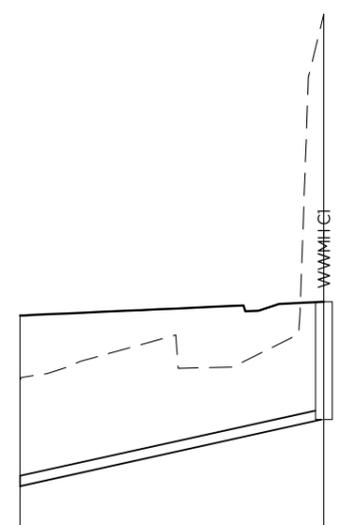
L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:250 Horz, 1:50 Vert. A3 - 1:500 Horz, 1:100 Vert
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01
 DRAWING No: 431
 REVISION: R1



Datum R.L. 0.00	
DEPTH TO INVERT	3.38
INVERT LEVEL	0.52
LID LEVEL	3.84
GRADIENT & PIPE SIZE	0.70% 250 OD PE100 SDR 17
PIPE LENGTH & MH No.	WWMH B5 61.0m
	WWMH B6
	22.5m
	WWMH B7
	9.0m
	WWMH B8
	60.0m
	WWMH B9

WW LINE B



Datum R.L. 0.00	
DEPTH TO INVERT	1.67
INVERT LEVEL	1.05
LID LEVEL	3.66
GRADIENT & PIPE SIZE	4.42% 160 OD PE100 SDR 17
PIPE LENGTH & MH No.	21.5m WWMH C1

WW LINE C

NOTES:

- INDICATES PROPOSED FINISHED GROUND LEVEL
- INDICATES EXISTING GROUND LEVEL (PRE EARTHWORKS)
- LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
- PIPE SIZES, INVERTS & GRADES AND MANHOLE DEPTHS ARE PRELIMINARY DESIGN AND WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
- LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05.
- ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
- ALL WASTEWATER PIPE TO BE 160 OD PE100 (HPPE SDR 17.6) UNLESS SHOWN OTHERWISE.
- ALL MANHOLES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
- CONTRACTOR TO CHECK ALL INVERTS AGAINST PIPE CLASHES BEFORE LAYING. ADJUSTMENT OF ANY INVERT LEVELS IS AT THE CONTRACTORS OWN RISK DUE TO TIGHT TOLERANCES.
- PIPE LENGTH SHOWN IS THE LENGTH OF PIPE BETWEEN CENTRE OF MANHOLES.
- HARDFILL BACKFILL ALL TRENCHES BELOW CARRIAGEWAY AND 1m EITHER SIDE OF PIPE CROSSOVERS.

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
WASTEWATER LONGSECTIONS
SHEET 3 OF 5

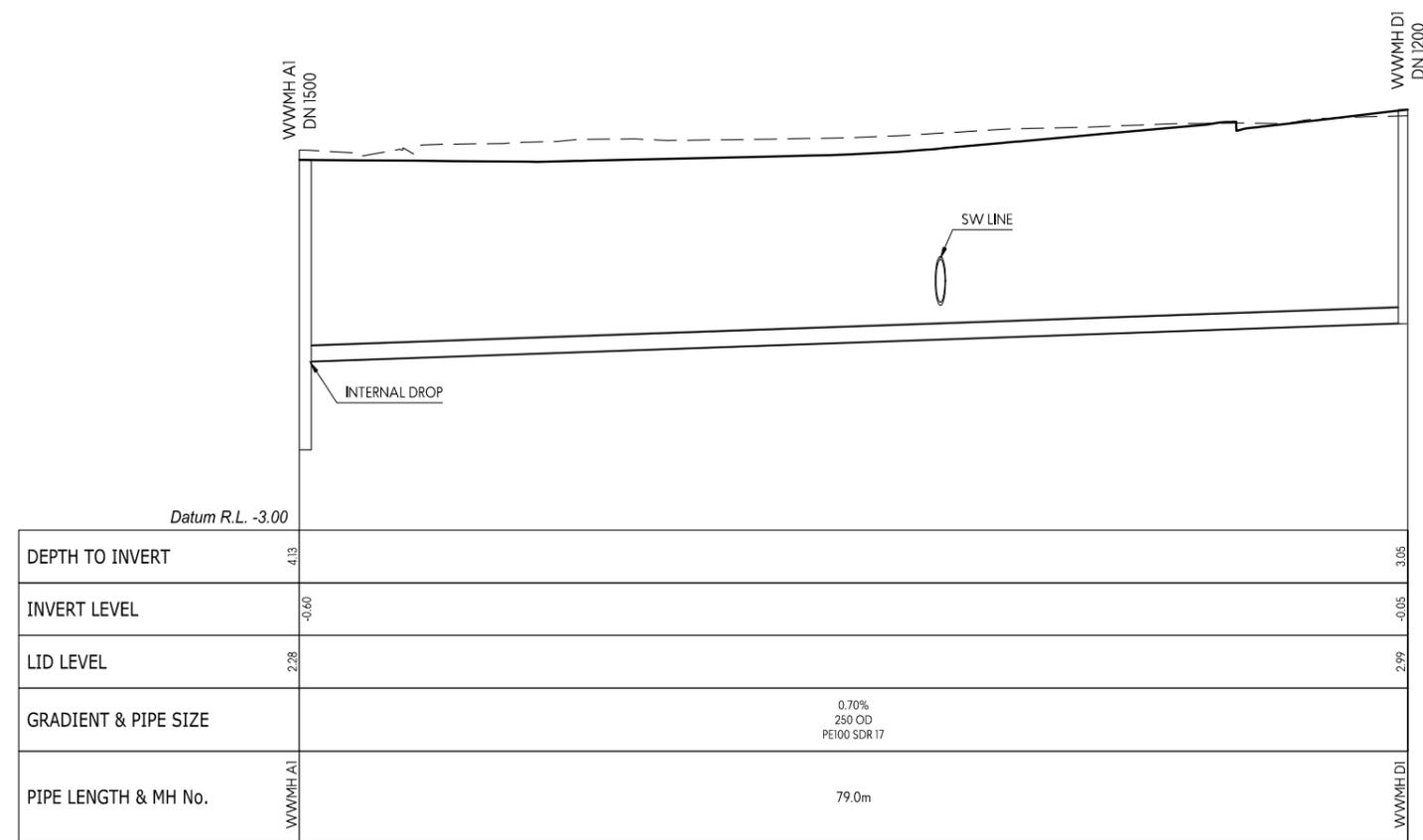
ENVELOPE
LAND
STRUCTURE
MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

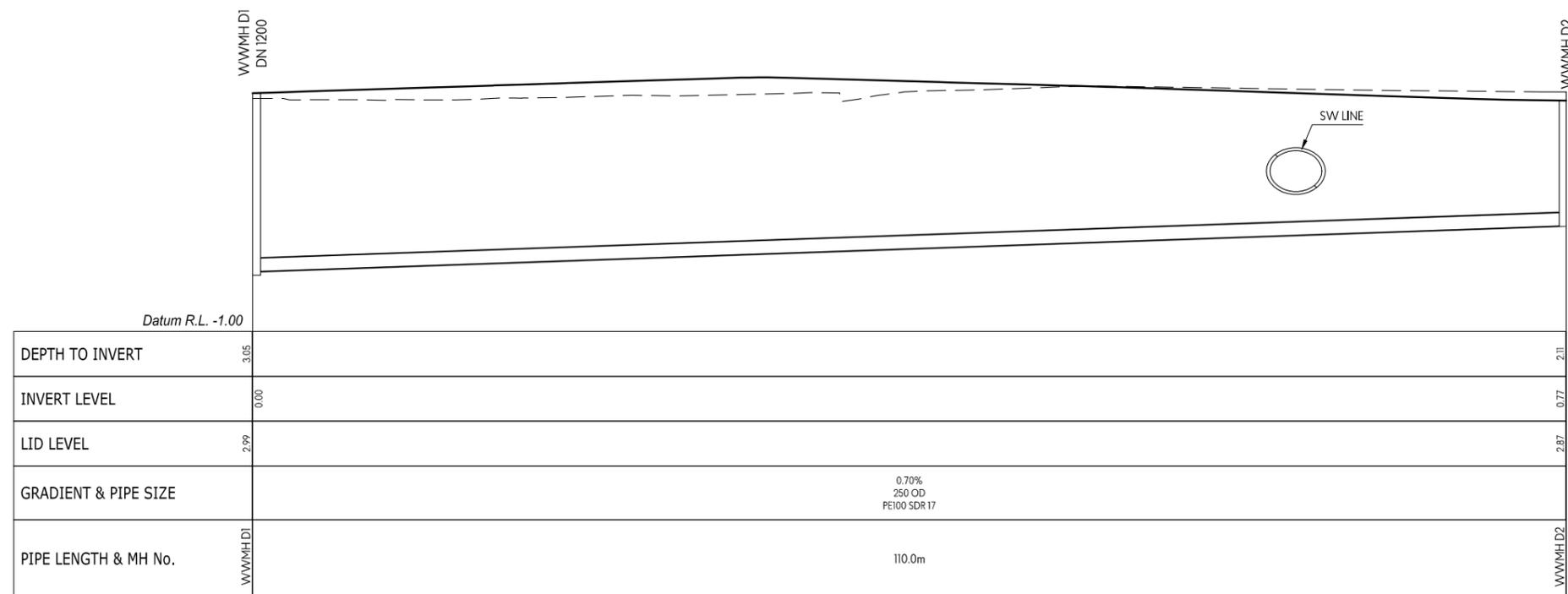
DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:250 Horz, 1:50 Vert, A3 - 1:500 Horz, 1:100 Vert
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01
 DRAWING No: 432
 REVISION: R1

NOTES:

1. ——— INDICATES PROPOSED FINISHED GROUND LEVEL
2. - - - - - INDICATES EXISTING GROUND LEVEL (PRE EARTHWORKS)
3. LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
4. PIPE SIZES, INVERTS & GRADES AND MANHOLE DEPTHS ARE PRELIMINARY DESIGN AND WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
5. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM # SO 31470 - RL 3.05.
6. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
7. ALL WASTEWATER PIPE TO BE 160 OD PE100 (HPPE SDR 17.6) UNLESS SHOWN OTHERWISE.
8. ALL MANHOLES TO BE DN 1050 UNLESS SHOWN OTHERWISE.
9. CONTRACTOR TO CHECK ALL INVERTS AGAINST PIPE CLASHES BEFORE LAYING. ADJUSTMENT OF ANY INVERT LEVELS IS AT THE CONTRACTORS OWN RISK DUE TO TIGHT TOLERANCES.
10. PIPE LENGTH SHOWN IS THE LENGTH OF PIPE BETWEEN CENTRE OF MANHOLES.
11. HARDFILL BACKFILL ALL TRENCHES BELOW CARRIAGEWAY AND 1m EITHER SIDE OF PIPE CROSSOVERS.



WW LINE D



WW LINE D

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

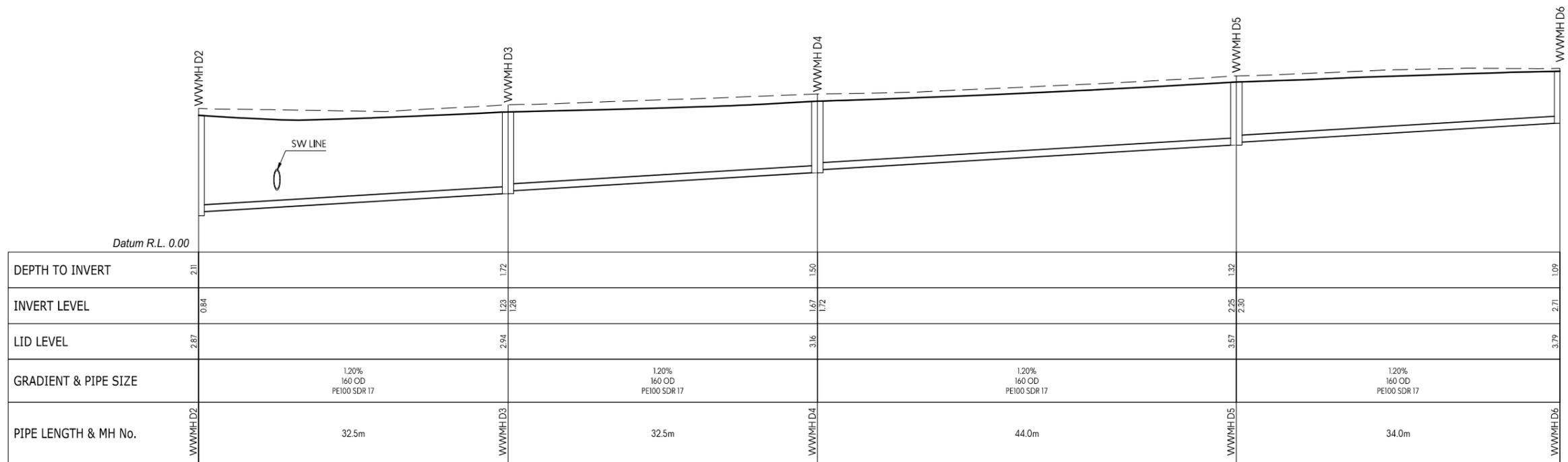
PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
WASTEWATER LONGSECTIONS
SHEET 4 OF 5

ENVELOPE
LAND
STRUCTURE
MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ DRAWN: PJ
 CHECKED: AB DATE: 14-Sep-2016
 SCALE: A1 - 1:250 Horz, 1:50 Vert. A3 - 1:500 Horz, 1:100 Vert
 STATUS: RESOURCE CONSENT
 PROJECT No: DRAWING No: REVISION:
1098-01 433 R1



WW LINE D

NOTES:

- INDICATES PROPOSED FINISHED GROUND LEVEL
- - - INDICATES EXISTING GROUND LEVEL (PRE EARTHWORKS)
- LONG-SECTIONS ARE SHOWN WITH A 5x VERTICAL EXAGGERATION.
- PIPE SIZES, INVERTS & GRADES AND MANHOLE DEPTHS ARE PRELIMINARY DESIGN AND WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.
- LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05.
- ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
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- PIPE LENGTH SHOWN IS THE LENGTH OF PIPE BETWEEN CENTRE OF MANHOLES.
- HARDFILL BACKFILL ALL TRENCHES BELOW CARRIAGEWAY AND 1m EITHER SIDE OF PIPE CROSSOVERS.

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

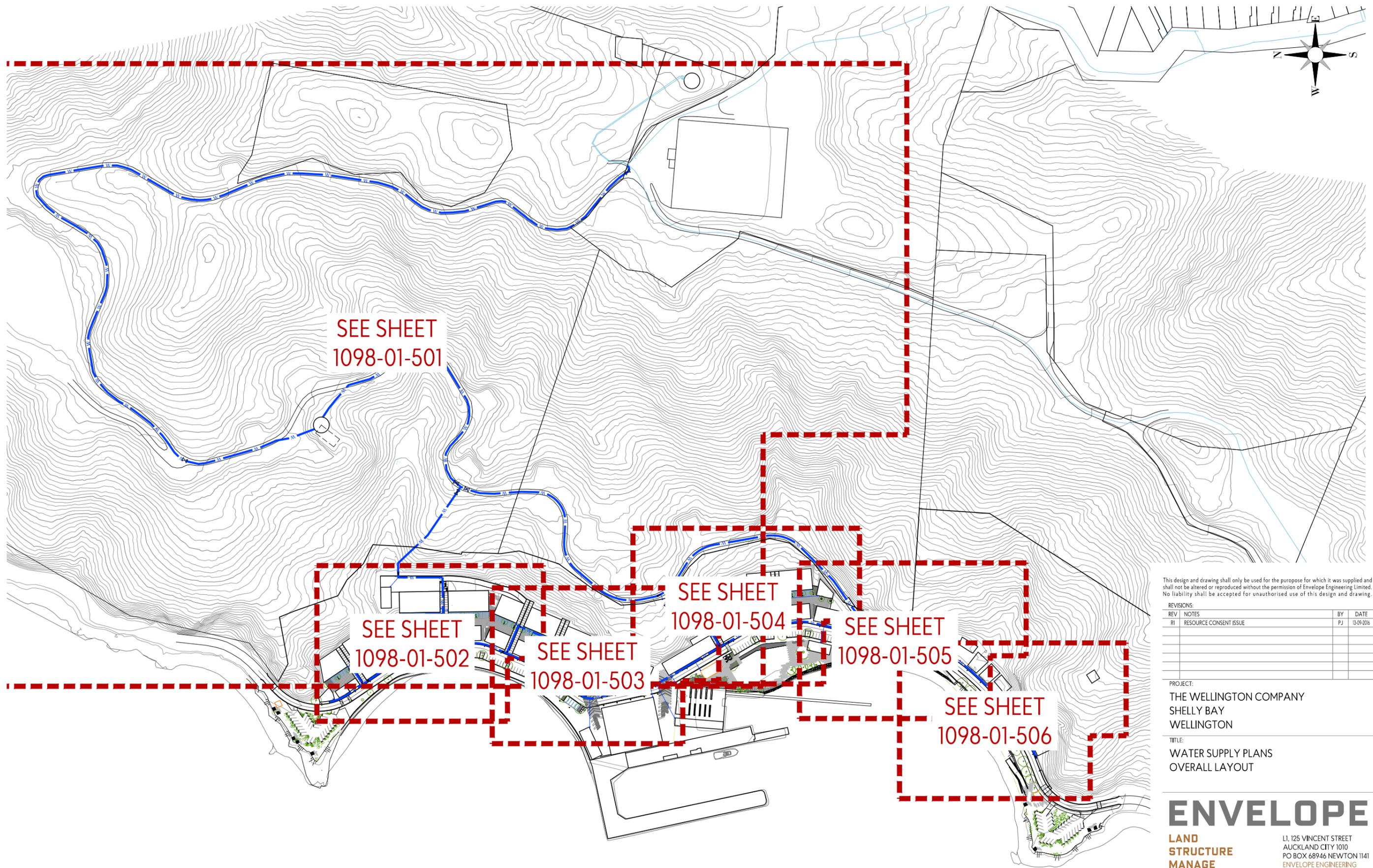
PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
WASTEWATER LONGSECTIONS
SHEET 5 OF 5

ENVELOPE
LAND
STRUCTURE
MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:250 Horz, 1:50 Vert, A3 - 1:500 Horz, 1:100 Vert
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01
 DRAWING No: 434
 REVISION: R1



SEE SHEET
1098-01-501

SEE SHEET
1098-01-502

SEE SHEET
1098-01-503

SEE SHEET
1098-01-504

SEE SHEET
1098-01-505

SEE SHEET
1098-01-506

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

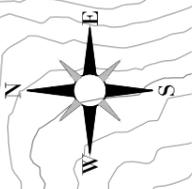
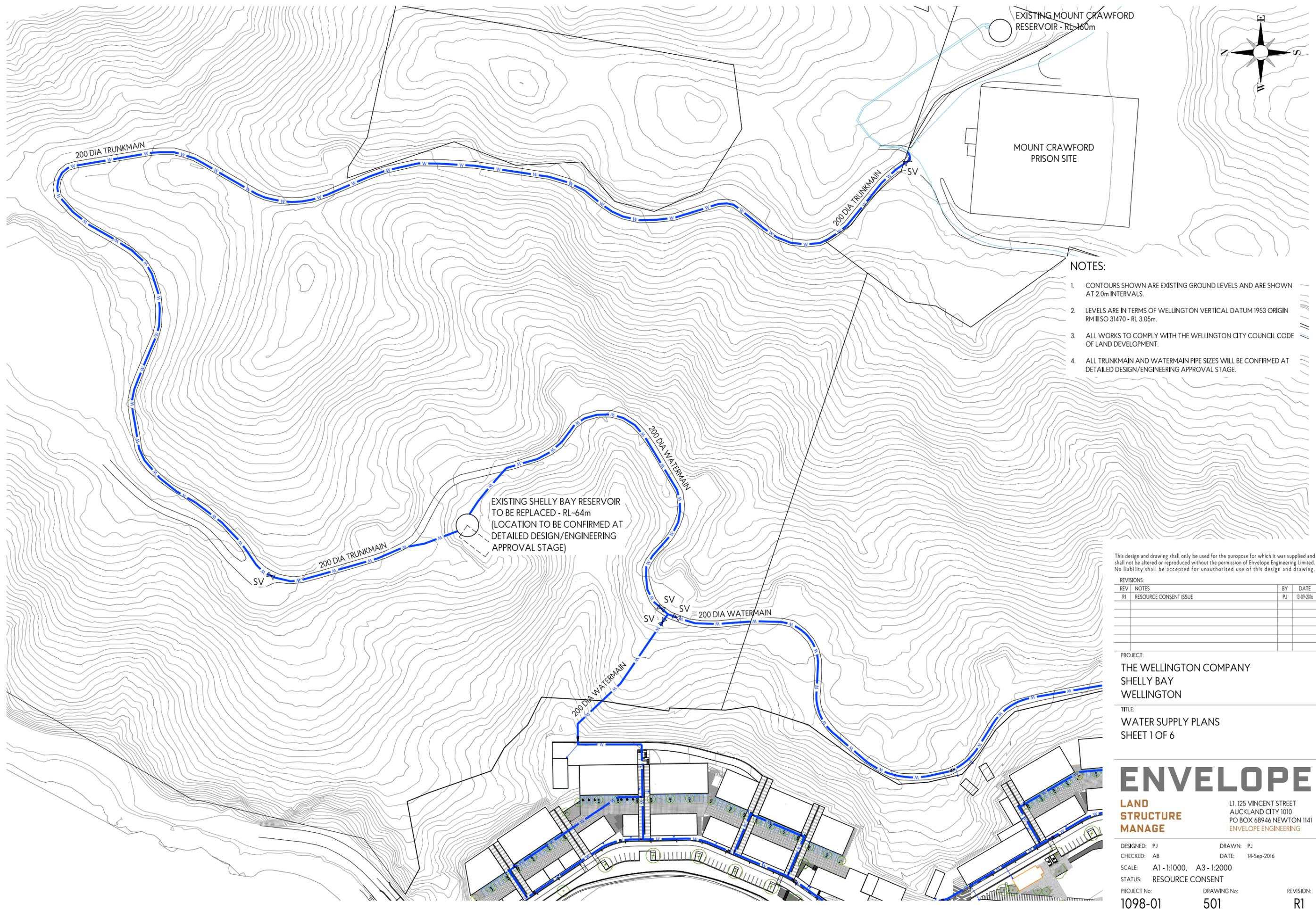
TITLE:
WATER SUPPLY PLANS
OVERALL LAYOUT

ENVELOPE

LAND
STRUCTURE
MANAGE

L1, 125 VINCENT STREET
AUCKLAND CITY 1010
PO BOX 68946 NEWTON 1141
ENVELOPE ENGINEERING

DESIGNED: PJ DRAWN: PJ
 CHECKED: AB DATE: 14-Sep-2016
 SCALE: A1 - 1:1500, A3 - 1:3000
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01 DRAWING No: 500 REVISION: R1



NOTES:

1. CONTOURS SHOWN ARE EXISTING GROUND LEVELS AND ARE SHOWN AT 2.0m INTERVALS.
2. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953 ORIGIN RM II SO 31470 - RL 3.05m.
3. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
4. ALL TRUNKMAIN AND WATERMAIN PIPE SIZES WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

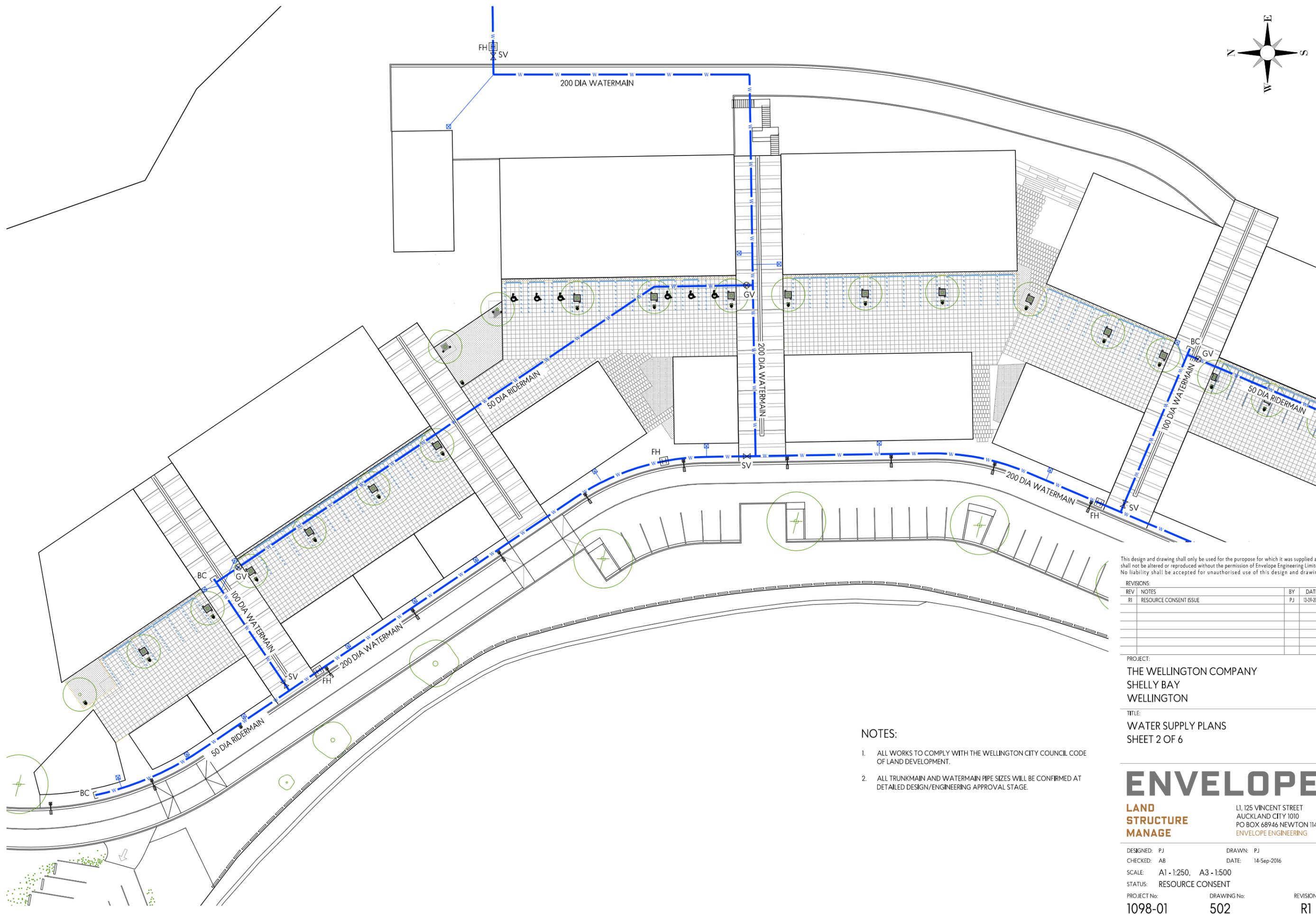
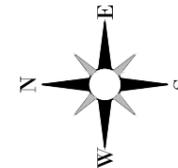
TITLE:
WATER SUPPLY PLANS
SHEET 1 OF 6

ENVELOPE

LAND STRUCTURE MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ	DRAWN: PJ	REVISION:
CHECKED: AB	DATE: 14-Sep-2016	R1
SCALE: A1 - 1:1000, A3 - 1:2000		
STATUS: RESOURCE CONSENT		
PROJECT No: 1098-01	DRAWING No: 501	



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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

TITLE:
WATER SUPPLY PLANS
 SHEET 2 OF 6

- NOTES:
1. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
 2. ALL TRUNKMAIN AND WATERMAIN PIPE SIZES WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.

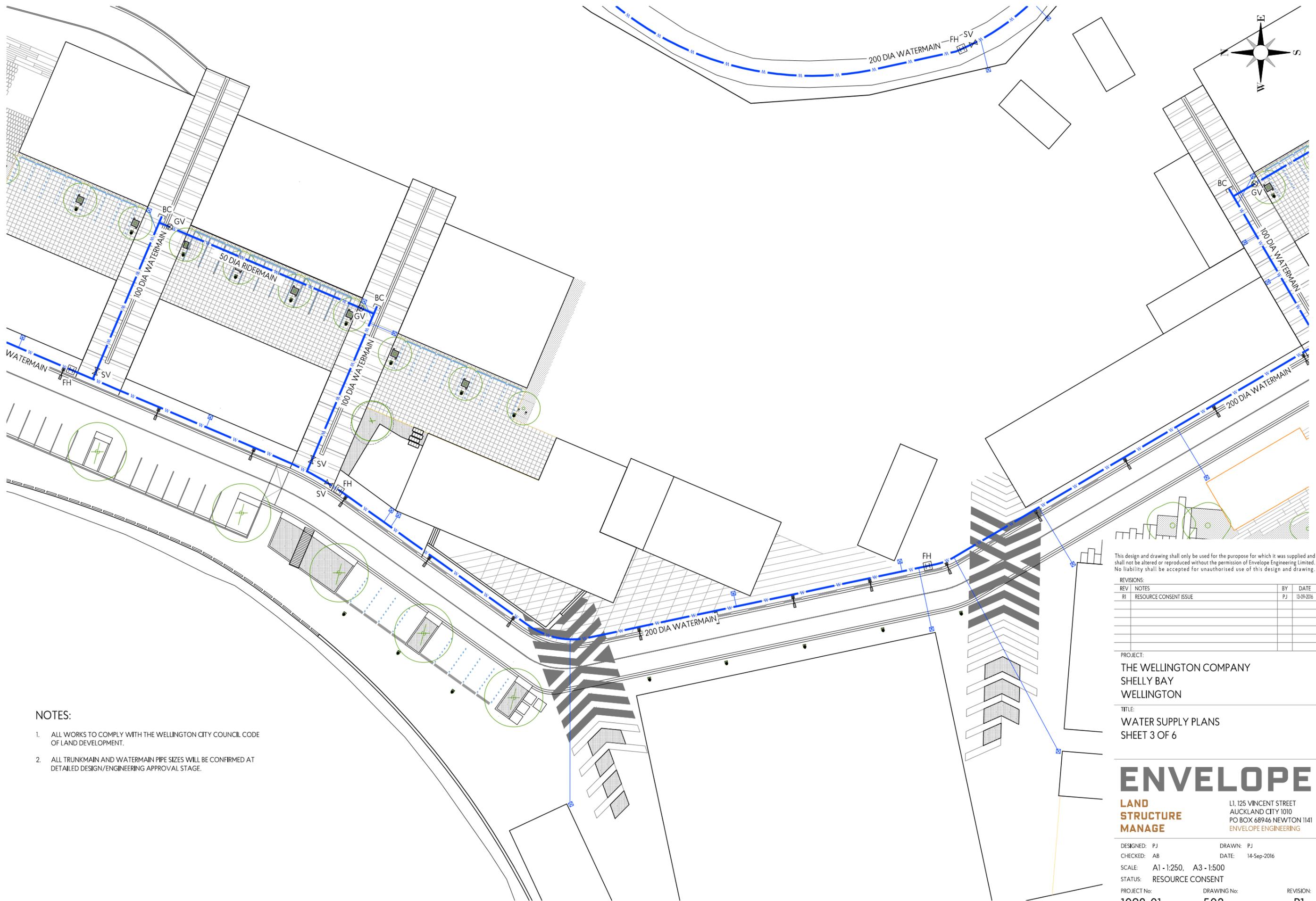
ENVELOPE

**LAND
 STRUCTURE
 MANAGE**

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:250, A3 - 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01
 DRAWING No: 502
 REVISION: R1

DRAWN: PJ
 DATE: 14-Sep-2016



- NOTES:**
1. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
 2. ALL TRUNKMAIN AND WATERMAIN PIPE SIZES WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
 SHELLY BAY
 WELLINGTON

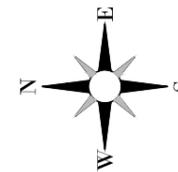
TITLE:
WATER SUPPLY PLANS
 SHEET 3 OF 6

ENVELOPE
 LAND
 STRUCTURE
 MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ
 CHECKED: AB
 SCALE: A1 - 1:250, A3 - 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01

DRAWN: PJ
 DATE: 14-Sep-2016
 DRAWING No: 503
 REVISION: R1



NOTES:

1. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
2. ALL TRUNKMAIN AND WATERMAIN PIPE SIZES WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

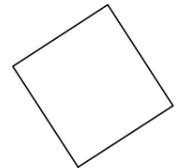
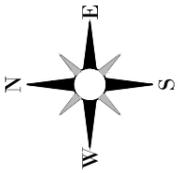
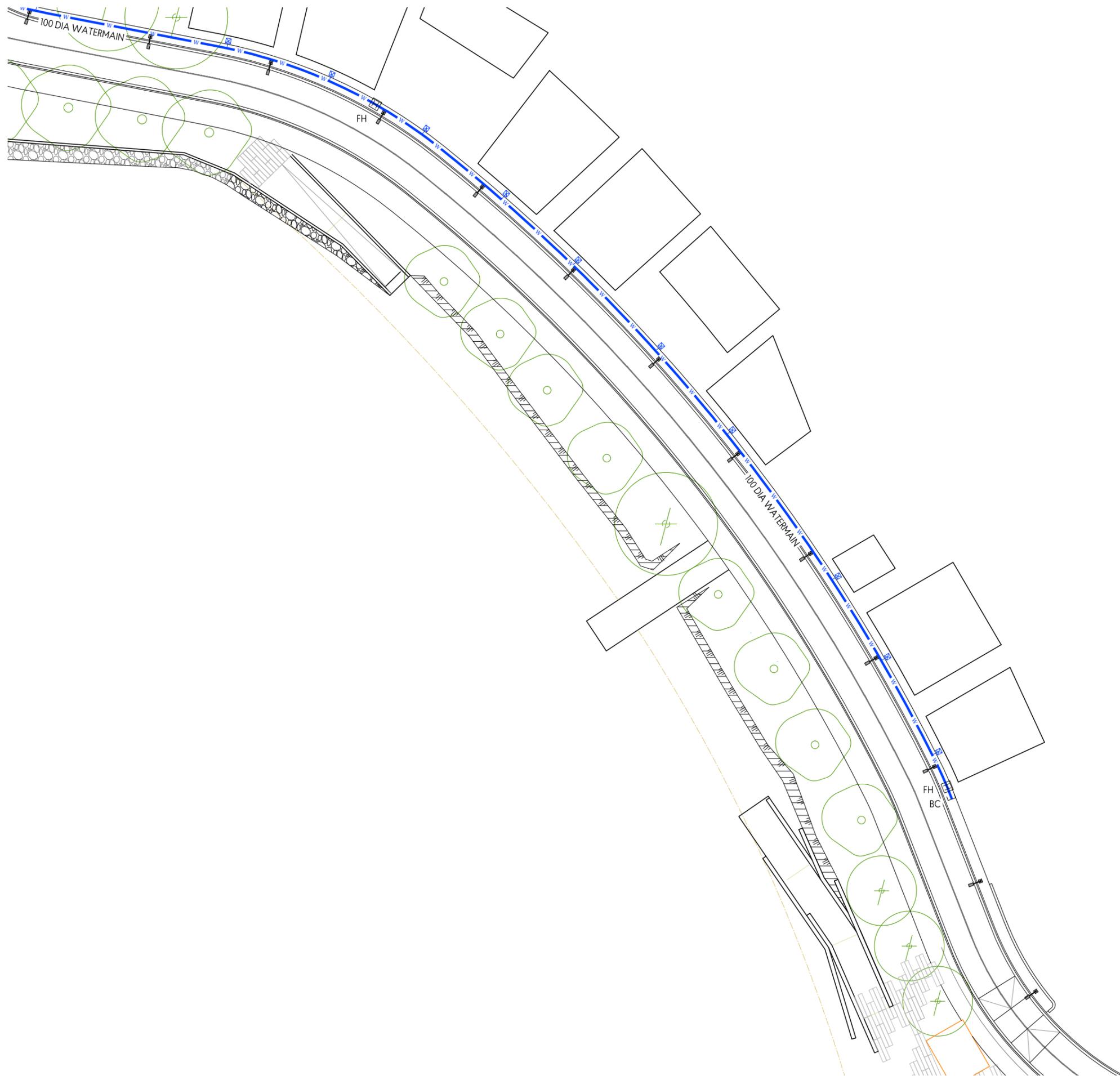
PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
WATER SUPPLY PLANS
SHEET 4 OF 6

ENVELOPE
LAND
STRUCTURE
MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ	DRAWN: PJ	REVISION:
CHECKED: AB	DATE: 14-Sep-2016	R1
SCALE: A1 - 1:250, A3 - 1:500		
STATUS: RESOURCE CONSENT		
PROJECT No: 1098-01	DRAWING No: 504	



NOTES:

1. ALL WORKS TO COMPLY WITH THE WELLINGTON CITY COUNCIL CODE OF LAND DEVELOPMENT.
2. ALL TRUNKMAIN AND WATERMAIN PIPE SIZES WILL BE CONFIRMED AT DETAILED DESIGN/ENGINEERING APPROVAL STAGE.

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PJ	13-09-2016

PROJECT:
THE WELLINGTON COMPANY
SHELLY BAY
WELLINGTON

TITLE:
WATER SUPPLY PLANS
SHEET 6 OF 6

ENVELOPE
LAND
STRUCTURE
MANAGE

L1, 125 VINCENT STREET
 AUCKLAND CITY 1010
 PO BOX 68946 NEWTON 1141
 ENVELOPE ENGINEERING

DESIGNED: PJ DRAWN: PJ
 CHECKED: AB DATE: 14-Sep-2016
 SCALE: A1 - 1:250, A3 - 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1098-01 DRAWING No: 506 REVISION: R1