

Notices to tenderers:

Contract 18/029

Lakefront Development

Summary of Addenda and Notices to Tenderers Issued

Date Issued	Description / Explanation	ID / Reference
20/02/2019	Two additional documents inadvertently omitted from the initial upload: the T&T drawing package labelled 20190219 1007467.3000 and the Schedule of Rates	20190219 1007467.3000.pdf RLC Lakefront Stage 1 & 1a Schedule of Rates Template.xlsx
21/02/2019	SEG Electrical Layout Drawings and Electrical Specification which form part of the RFT documents	2019.02.21_SEG_Rotorua Lakefront_Electrical Drawings.pdf; 2019.02.21_SEG_Rotorua Lakefront_SEG Document Transmittal.pdf; 2019.02.21_SEG_Rotorua Lakefront_Electrical Specification.pdf
12/03/2019	Addendum uploaded in response to Forum Question regarding additional drawing dimensions.	190311_IGL_4010_Rotorua Lakefront Development_Landscape Master -.zip
15/03/2019	Notice to Tenderers No.1 re query related to timber boardwalk loaded as an addendum	190314_IGL_4010_Rotorua Lakefront Development_Tender_NTT 01.pdf
20/03/2019	Notice to Tenderers No. 2 - Labelling of Hoggin Paths. Tenderers are advised that five additional drawings showing Surface Finishes for Stages 1 and 1a of the Lakefront Development have been uploaded as addenda. The drawings have been revised to correct the labelling of hoggin paths	1_1.101 Stage 1 Surface Finishes - Sheet 1.pdf; 1_1.102 Stage 1 Surface Finishes - Sheet 2.pdf; 1_1.103 Stage 1 Surface Finishes - Sheet 3.pdf; 1a_1.101 Stage 1a Surface Finishes - Sheet 1.pdf; 1a_1.102 Stage 1a Surface Finishes - Sheet 2.pdf
26/03/2019	Notice to Tenderers No.3 from Isthmus re Timber Species and Timber Finish	NTT#3 from Isthmus re Timber Species and Timber Finish.pdf
05/04/2019	Notice to Tenderers No.4 - Provincial Growth Fund Reporting Requirements: Explanatory notice and two attachments	NTT No.4 PGF Reporting Requirements.docx; Attachment 1 - PGF and RLC Objectives.pdf; Attachment 2 - Prompter Questions.docx
05/04/2019	Notice to Tenderers No.5. Refer to attached temporary works to Memorial Drive and Lake Road roundabout - 15586T4A-1.pdf. Drawing to be read in conjunction with Isthmus drawing 1_1.000 & 1_1.001. Note: Site fencing setbacks, Protection to lamp post & Contractor to allow for any temporary road line markings	15586T4A-1.pdf
16/04/2019	Notice to Tenderers No. 6 Tenderers need to allow to supply and install the water supply system as per the following Tonkin & Taylor drawings which have been uploaded as addenda	1007467.3000-420 1007467.3000-421 1007467.3000-422
16/04/2019	Notice to Tenderers No.7 - Alternative Tenders - see addendum uploaded today.	NTT No.7 - Alternative Tenders.docx
18/04/2019	Notice to Tenderers No.8 – 3D model for timber boardwalk	190417_IGL_4010_Rotorua Lakefront Development_Tender_NTT8.docx
24/04/2019	Notice to Tenderers No.9 regarding 2400mm tukutuku timber details and pavilion stone supply. Notice and 5	1_3.601 Typical 2400mm Tukutuku Bridge Details_REV F 1_3.602 Typical 2400mm Tukutuku Bridge

	revised supporting drawings.	Details_REV D 1_3.603 Typical 2400mm Tukutuku Bridge Details_REV D 1_3.604 Typical 2400mm Tukutuku Bridge Details_REV D 1_3.606 Typical Access Ladder Details_REV D
30/04/2019	NTT 10 re revised Electrical Drawings	NTT No.10 Revised Electrical Drawings.docx 2019.04.23_SEG_Rotorua Lakefront_Document Transmittal 2019.04.23_SEG_Rotorua Lakefront_Electrical Specification Rev1 T 2019.04.24_SEG_Rotorua Lakefront_Electrical Drawings Rev1


RFP for Selection

Download Tender Addendum for Notice #RDC-847054

The documents showing below are available for download. Should any future addendum notices be issued these will be notified to you automatically, once you have downloaded the original documentation. The documents available here are for information purposes only.

This addendum contains the following 2 file(s), which can be downloaded individually by clicking on the file name. (You may need to right click the file and select "Save Target As..." to save it to your own computer, rather than view it online.)

- RLC Lakefront Sigsae 1 & 1a Schedule of Rates Template.xlsx (24 KB)
- 20190219_1007467_3000.pdf (25.45 MB)

Alternatively you can download all the documents relating to this tender in one zip file, by clicking the file name below.

- RDC-847054.zip (181.8 MB)

If for any reason you have difficulty downloading these documents, please contact our Customer Services staff.

https://www.tenderlink.com/rdc/?tenderer=2744.781&foruser=2189.827845&downloadaddendum=2712.127606

1/1

Tender Addendum
TENDER[RDC-847054]

Rotorua Lakes Council
E-Tendering System

<p>Notice Type : Request for Tender</p> <p>Reference : TenderLink Number: RDC-847054</p> <p>Summary : RFT for Contract: 18029 - Rotorua Lakefront Development - Construction</p>	<p>NOTICE TO TENDERERS :</p> <p>Rotorua Lakes Council wish to advise that a notice to tenderers (NTT) has been issued for the above tender. Please pay particular attention to any requirements stated within this NTT.</p> <p>The following reason has been given for the addendum :</p> <p>"Two additional documents inadvertently omitted from the initial upload: the T&T drawing package labelled 20190219_1007467_3000 and the Schedule of Rates."</p> <p>The following document(s) have been added to the tender and should be obtained using the link below:</p> <ul style="list-style-type: none"> • RLC Lakefront Sigsae 1 & 1a Schedule of Rates Template.xlsx • 20190219_1007467_3000.pdf <p>Download Addendum</p>
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If you do not intend submitting a response for this contract you can cancel further NTT notifications to you by clicking here.

This notice was published by

Rotorua Lakes Council
Private Bag 3029
Rotorua Mail Centre
ROTORUA 3046
NEW ZEALAND

The above procuring party (Purchaser) has published an addendum notice for this tender. Addendum notices are issued where changes or additions to the original documentation is released. Because you have previously downloaded documentation online for this tender the addendum has been sent to you.

Have a nice day!

If you are not interested in responding to this opportunity and wish to stop email communications to you, please click the link below.

STOP EMAIL COMMUNICATIONS

Sincerely,
Customer Services



IMAGE SOURCED FROM GOOGLE MAP 2018, LICENSED BY GOOGLE

SITE LOCATION PLAN
SCALE 1:25000



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DESIGNED DRAWN DESIGN CHECKED DRAWING CHECKED	HSL DWM LDP CDW	Feb 19 Feb 19 05.02.19 05.02.19	DRAWING STATUS TENDER ISSUE	CLIENT ROTORUA LAKES COUNCIL			
				PROJECT ROTORUA LAKEFRONT DEVELOPMENT			
NOT FOR CONSTRUCTION				TITLE GENERAL INFORMATION SITE LOCATION PLAN			
SCALE (A3) 1:25,000				DWG No. 1007467 3000-100			
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE	REV

**ROTORUA LAKES COUNCIL
ROTORUA LAKEFRONT DEVELOPMENT
STAGE 1 AND 1A
Tender Issue**

DRAWING	Rev Title	DRAWING	Rev Title	DRAWING	Rev Title
GENERAL INFORMATION					
1007467.3000-100	A SITE LOCATION PLAN	3.0m BOARDWALK DESIGN		1007467.3000-365	A TYPICAL SECTION - TUKUTUKU BRIDGE ABUTMENT
1007467.3000-101	B DRAWING LIST	1007467.3000-320	A TYPICAL FOUNDATION SECTION	PAVILION DESIGN	
1007467.3000-110	A EXISTING SITE PLAN	1007467.3000-321	A TYPICAL FOUNDATION LONGSECTION	1007467.3000-370	A PLAN - STEELWORK ARRANGEMENT
BOARDWALK, BRIDGES AND LAKE WALLS					
1007467.3000-200	A STAGE 1 AND 1a LAYOUTS	1007467.3000-322	A FOUNDATION LAYOUT	1007467.3000-371	A SECTIONS - STEELWORK ARRANGEMENT
1007467.3000-201	A LAYOUT - SHEET 1 OF 3	1007467.3000-323	A TYPICAL PIER AND DECK CROSS SECTION	1007467.3000-372	A BASE - STEELWORK ARRANGEMENT
1007467.3000-202	A LAYOUT - SHEET 2 OF 3	1007467.3000-324	A TYPICAL PIER AND DECK LONGSECTION	1007467.3000-373	A SECTIONS - STEELWORK ARRANGEMENT
1007467.3000-203	A LAYOUT - SHEET 3 OF 3	1007467.3000-325	A STEELWORK ARRANGEMENT - SHEET 1 OF 2	SERVICE PLANS	
EARTHWORKS - STAGE 1					
1007467.3000-250	B CUT FILL PLANS - SHEET 1 OF 3	1007467.3000-326	A STEELWORK ARRANGEMENT - SHEET 2 OF 2	1007467.3000-400	A EXISTING SERVICES - SHEET 1 OF 4
1007467.3000-251	B CUT FILL PLANS - SHEET 2 OF 3	2.4m TUKUTUKU BRIDGE DESIGN			
1007467.3000-252	B CUT FILL PLANS - SHEET 3 OF 3	1007467.3000-330	A TYPICAL FOUNDATION CROSS SECTION	1007467.3000-401	A EXISTING SERVICES - SHEET 2 OF 4
BOARDWALK, BRIDGES AND LAKE WALLS					
1007467.3000-300	A DESIGN ALIGNMENTS - WESTERN EXTENT	1007467.3000-331	A TYPICAL FOUNDATION LONGSECTION	1007467.3000-402	A EXISTING SERVICES - SHEET 3 OF 4
1007467.3000-301	A DESIGN ALIGNMENTS - EASTERN EXTENT	1007467.3000-332	A TYPICAL PIER AND DECK CROSS SECTION	1007467.3000-403	A EXISTING SERVICES - SHEET 4 OF 4
1007467.3000-302	A ALIGNMENTS AND DETAILS - SHEET 1 OF 8	1007467.3000-333	A TYPICAL PIER AND DECK CROSS LONGSECTION	PROPOSED STORMWATER	
1007467.3000-303	A ALIGNMENTS AND DETAILS - SHEET 2 OF 8	1007467.3000-334	A STEELWORK ARRANGEMENT - SHEET 1 OF 2	1007467.3000-410	B LAYOUT STAGE 1a
1007467.3000-304	A ALIGNMENTS AND DETAILS - SHEET 3 OF 8	1007467.3000-335	A STEELWORK ARRANGEMENT - SHEET 2 OF 2	1007467.3000-411	B LAYOUT STAGE 1 - SHEET 1 OF 2
1007467.3000-305	A ALIGNMENTS AND DETAILS - SHEET 4 OF 8	1007467.3000-336	A TYPICAL PIER AND DECK CROSS LONGSECTION	1007467.3000-412	B LAYOUT STAGE 1 - SHEET 2 OF 2
1007467.3000-306	A ALIGNMENTS AND DETAILS - SHEET 5 OF 8	1.05m TUKUTUKU BRIDGE DESIGN			
1007467.3000-307	A ALIGNMENTS AND DETAILS - SHEET 6 OF 8	1007467.3000-340	A TYPICAL CROSS SECTION		
1007467.3000-308	A ALIGNMENTS AND DETAILS - SHEET 7 OF 8	1007467.3000-341	A TYPICAL LONGSECTION		
1007467.3000-309	A ALIGNMENTS AND DETAILS - SHEET 8 OF 8	1007467.3000-342	A TYPICAL PIER AND DECK CROSS SECTION		
5.0m BOARDWALK DESIGN					
1007467.3000-310	A TYPICAL FOUNDATION SECTION	1007467.3000-343	A TYPICAL PIER AND DECK LONGSECTION		
1007467.3000-311	A TYPICAL FOUNDATION LONGSECTION	1007467.3000-344	A STEELWORK ARRANGEMENT		
1007467.3000-312	A FOUNDATION LAYOUT	1007467.3000-345	A TYPICAL TUKUTUKU BRIDGE LONGSECTION		
1007467.3000-313	A TYPICAL PIER AND DECK SECTION	LAKEWALL DESIGN			
1007467.3000-314	A TYPICAL PIER AND DECK LONGSECTION	1007467.3000-350	A SECTION - WALL TYPE W01		
1007467.3000-315	A STEELWORK ARRANGEMENT - SHEET 1 OF 2	1007467.3000-351	A SECTION - WALL TYPE W02		
1007467.3000-316	A STEELWORK ARRANGEMENT - SHEET 2 OF 2	1007467.3000-352	A SECTION - WALL TYPE W03		
ABUTMENT DESIGN					
		1007467.3000-353	A SECTION - WALL TYPE W04		
		1007467.3000-354	A SECTION AND DETAIL		
		1007467.3000-360	A PLAN - 5.0m BOARDWALK NORTH WEST ABUTMENT		
		1007467.3000-361	A PLAN - TUKUTUKU BRIDGE ABUTMENT		
		1007467.3000-362	A PLAN - 5.0m BOARDWALK SOUTH EAST ABUTMENT		
		1007467.3000-363	A PLAN - 3.0m BOARDWALK ABUTMENT		
		1007467.3000-364	A TYPICAL SECTION - BOARDWALK ABUTMENT		

• Denotes drawing this issue: 23/01/2019

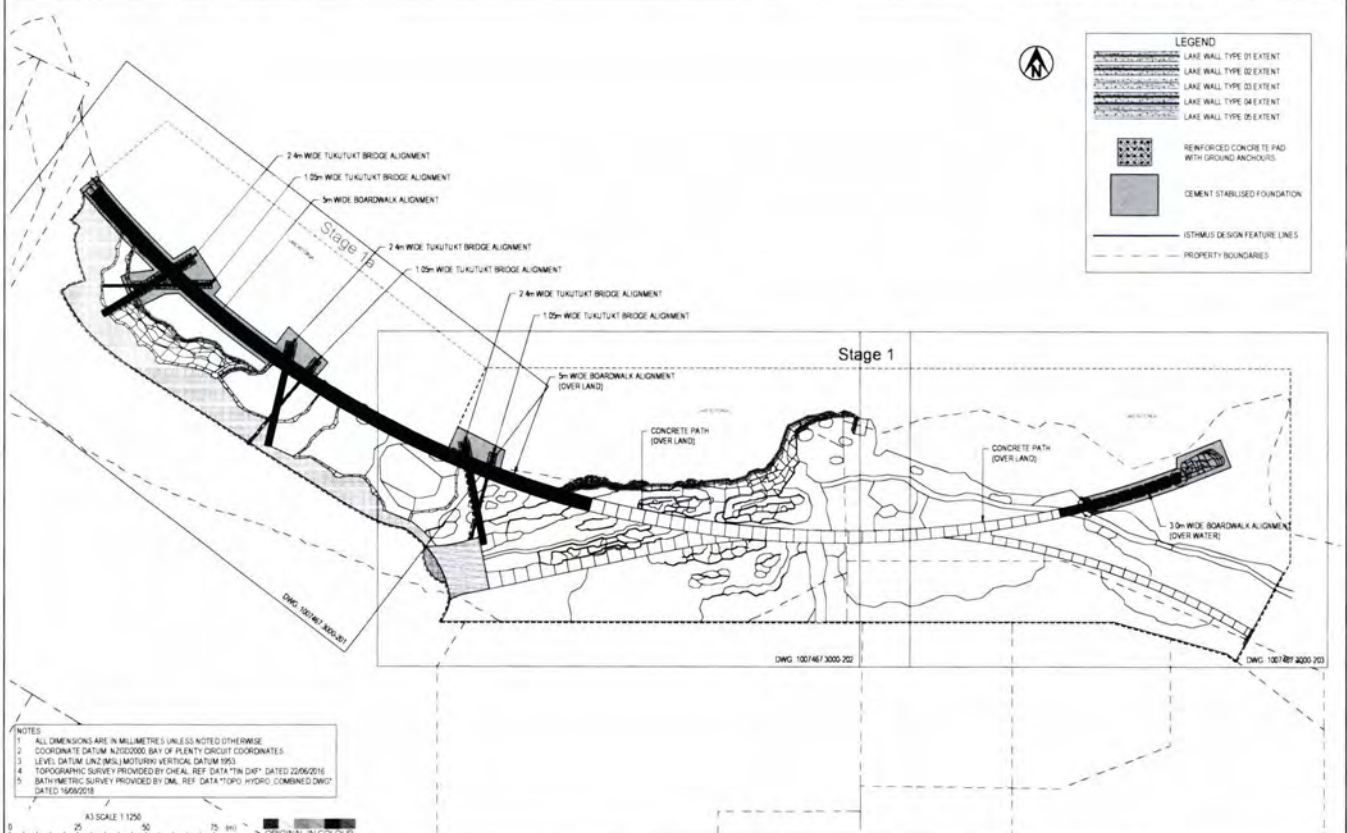
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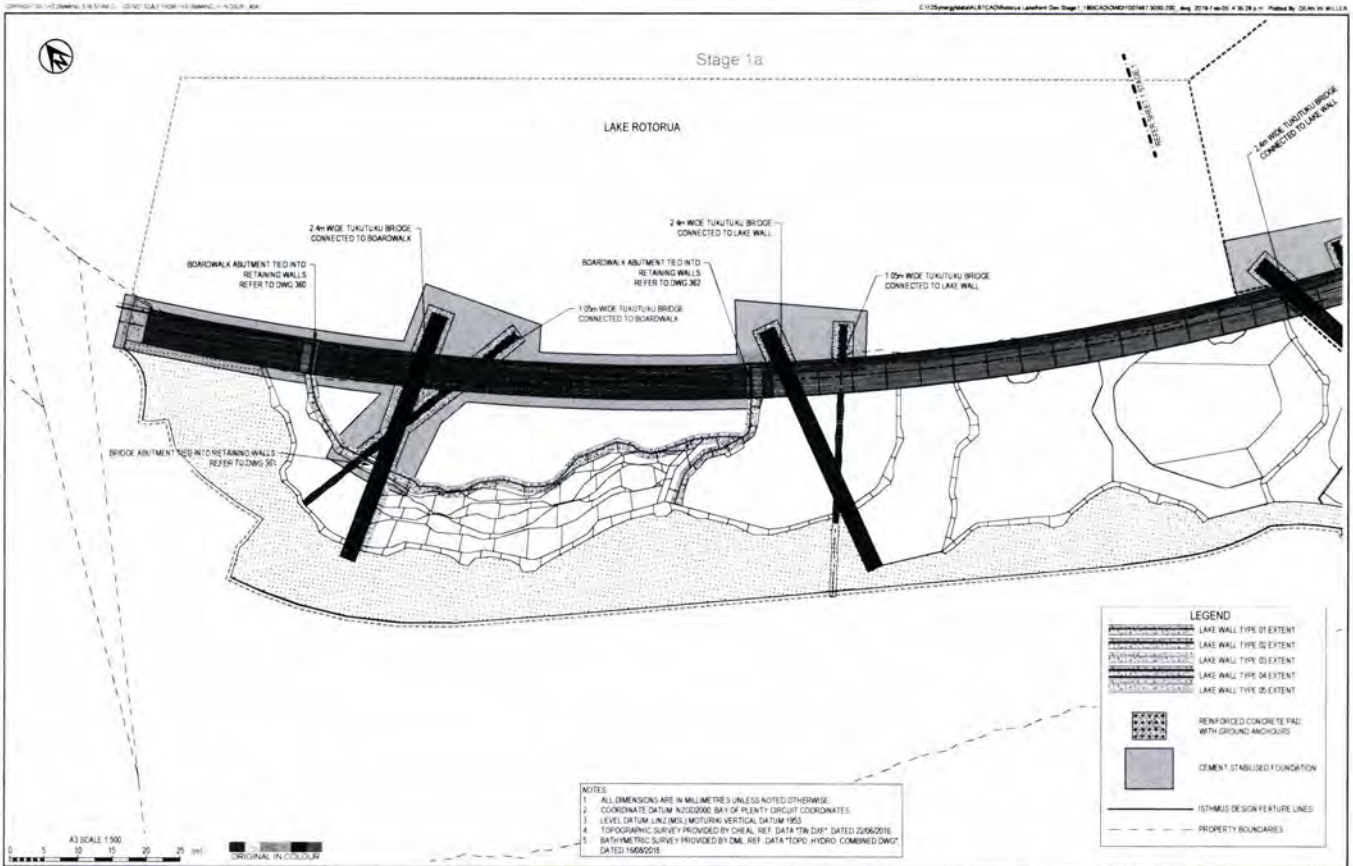
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				PROJECT ROTORUA LAKEFRONT DEVELOPMENT			
NOT FOR CONSTRUCTION				TITLE GENERAL INFORMATION DRAWING LIST			
SCALE (A3) n/a				DWG No. 1007467 3000-101			
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE	REV



<p>Exceptional thinking together www.tonkintaylor.co.nz</p>	DESIGNED: HSN, Feb 19		DRAWING STATUS: TENDER ISSUE		CLIENT: ROTORUA LAKES COUNCIL PROJECT: ROTORUA LAKEFRONT DEVELOPMENT TITLE: GENERAL INFORMATION EXISTING SITE PLAN SCALE (A3): 1:2000 DWG No: 1007467 3000-110 REV: A
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<p>Exceptional thinking together www.tonkintaylor.co.nz</p>	DESIGNED: HSN, Feb 19		DRAWING STATUS: TENDER ISSUE		CLIENT: ROTORUA LAKES COUNCIL PROJECT: ROTORUA LAKEFRONT DEVELOPMENT TITLE: BOARDWALK, BRIDGES AND LAKE WALLS STAGE 1 AND 1a LAYOUTS SCALE (A3): 1:1250 DWG No: 1007467 3000-200 REV: A
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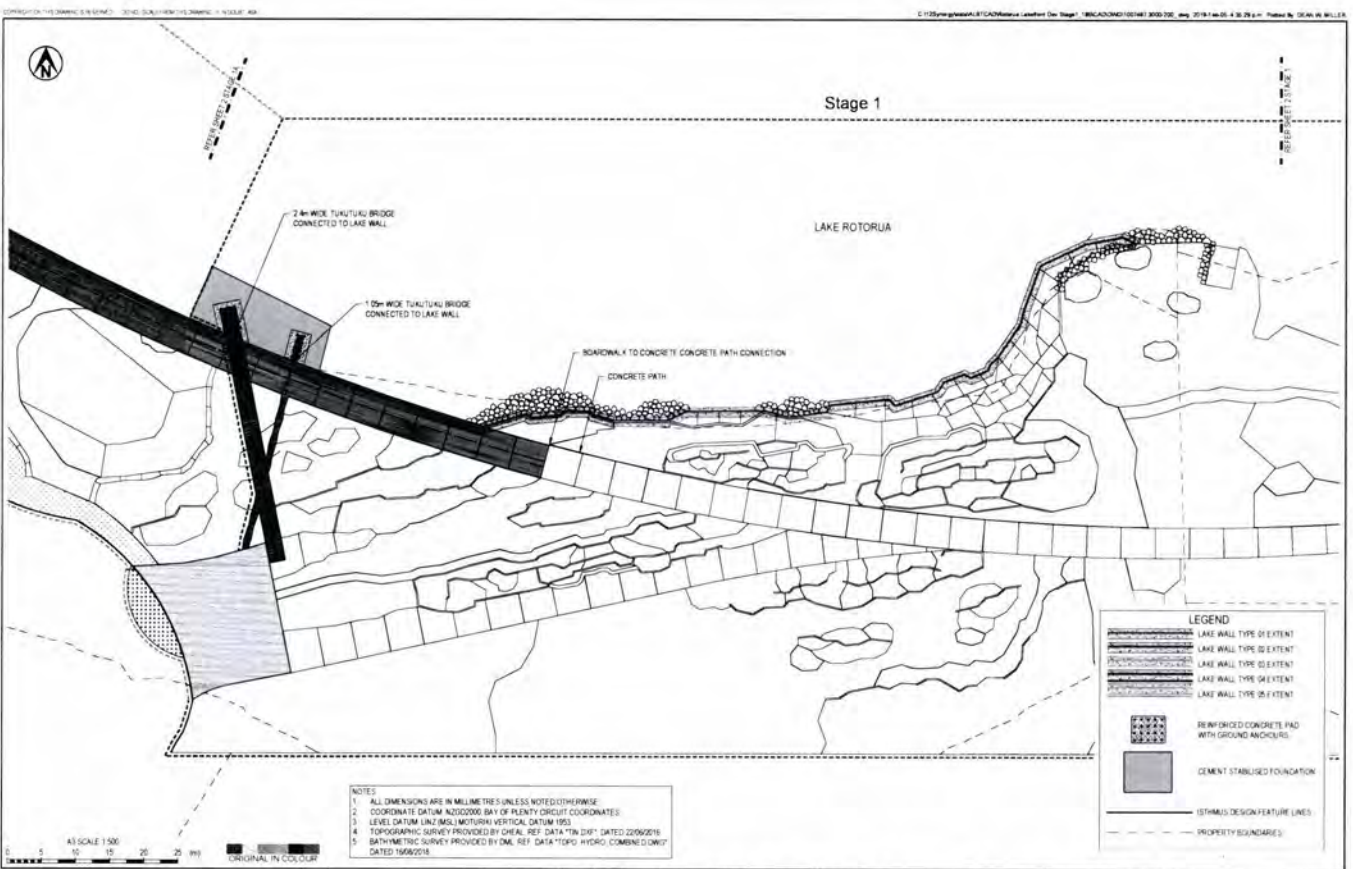


- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 2. COORDINATE DATUM NZGD2000; BAY OF PLENTY CIRCUIT COORDINATES.
 3. LEVEL DATUM LIND (MSL) METRIC VERTICAL DATUM 1993.
 4. TOPOGRAPHIC SURVEY PROVIDED BY CHAL. REF. DATA "TA D16" DATED 22/06/2016.
 5. BATHYMETRIC SURVEY PROVIDED BY DML REF. DATA "TOPO HYDRO COMBINED DWG" DATED 16/09/2016.

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DESIGNED	HSN	Feb 19	DRAWING STATUS	TENDER ISSUE		
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DESIGN CHECKED	LCP	05 02 19				
DRAWING CHECKED	CCAV	05 02 19				
NOT FOR CONSTRUCTION			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED			
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE

CLIENT	ROTORUA LAKES COUNCIL
PROJECT	ROTORUA LAKEFRONT DEVELOPMENT
TITLE	BOARDWALK, BRIDGES AND LAKE WALLS LAYOUT - SHEET 1 OF 3
SCALE (A3)	1:500
DWG No.	1007467 3000-201
REV	A

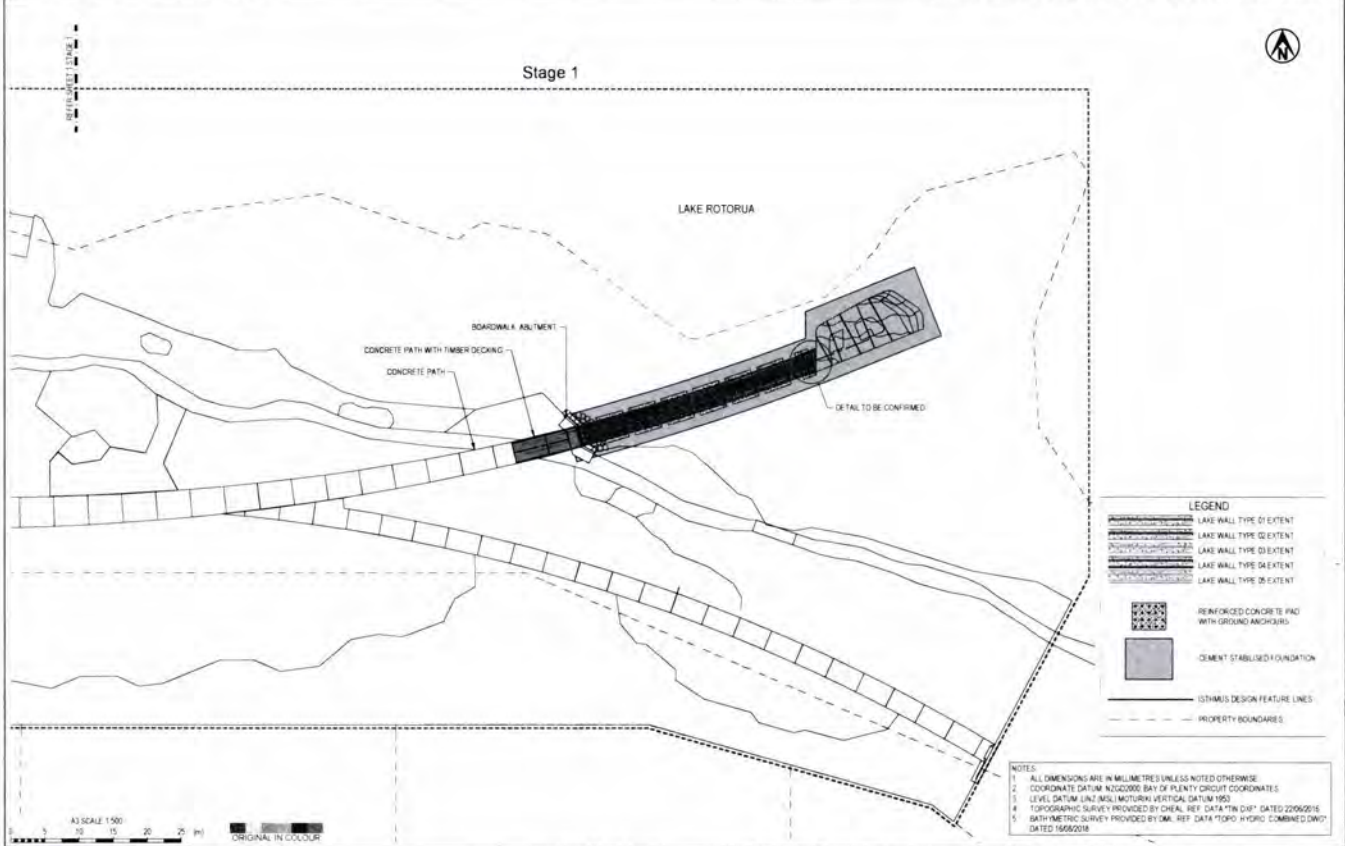


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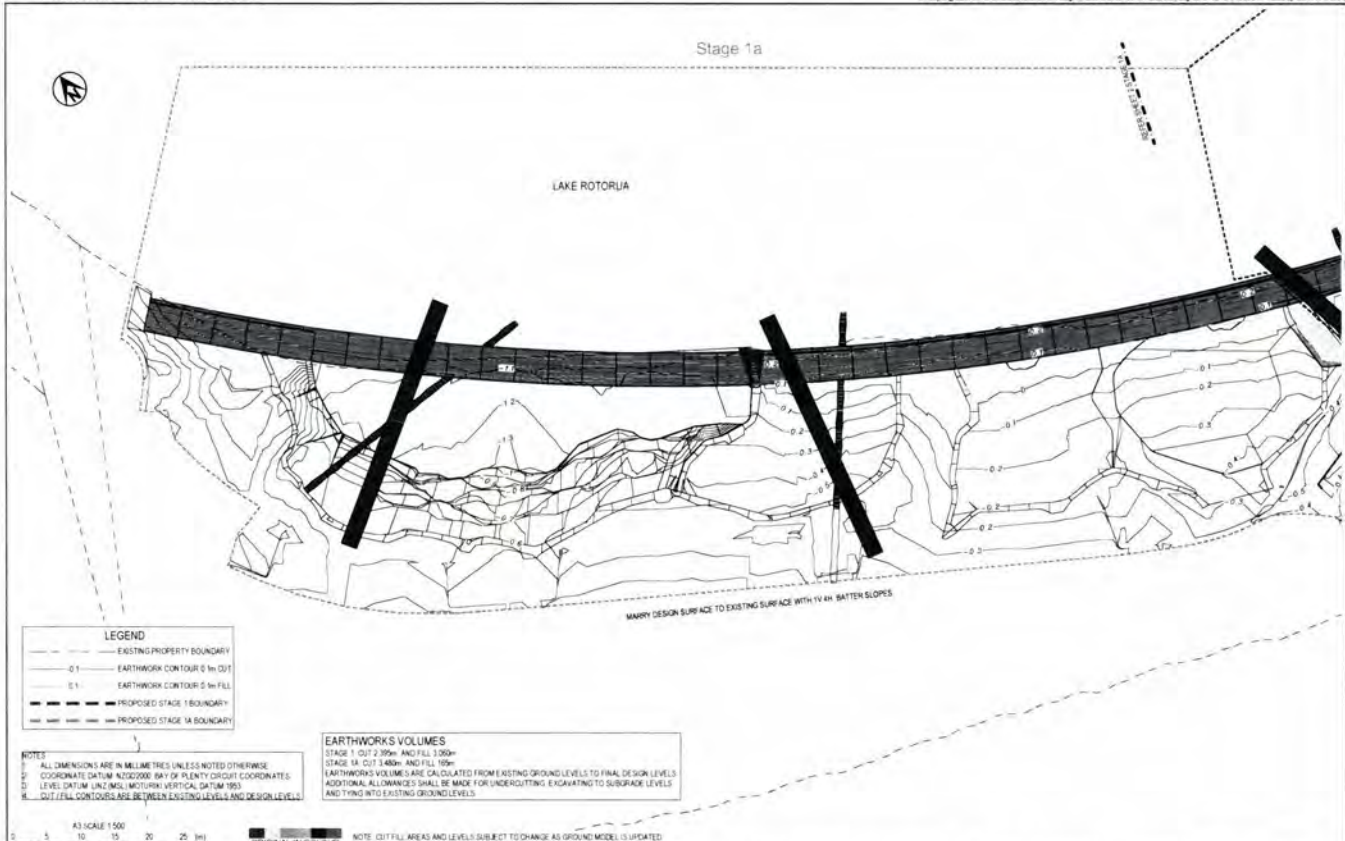
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DESIGNED	HSN	Feb 19	DRAWING STATUS	TENDER ISSUE		
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DESIGN CHECKED	LCP	05 02 19				
DRAWING CHECKED	CCAV	05 02 19				
NOT FOR CONSTRUCTION			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED			
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE

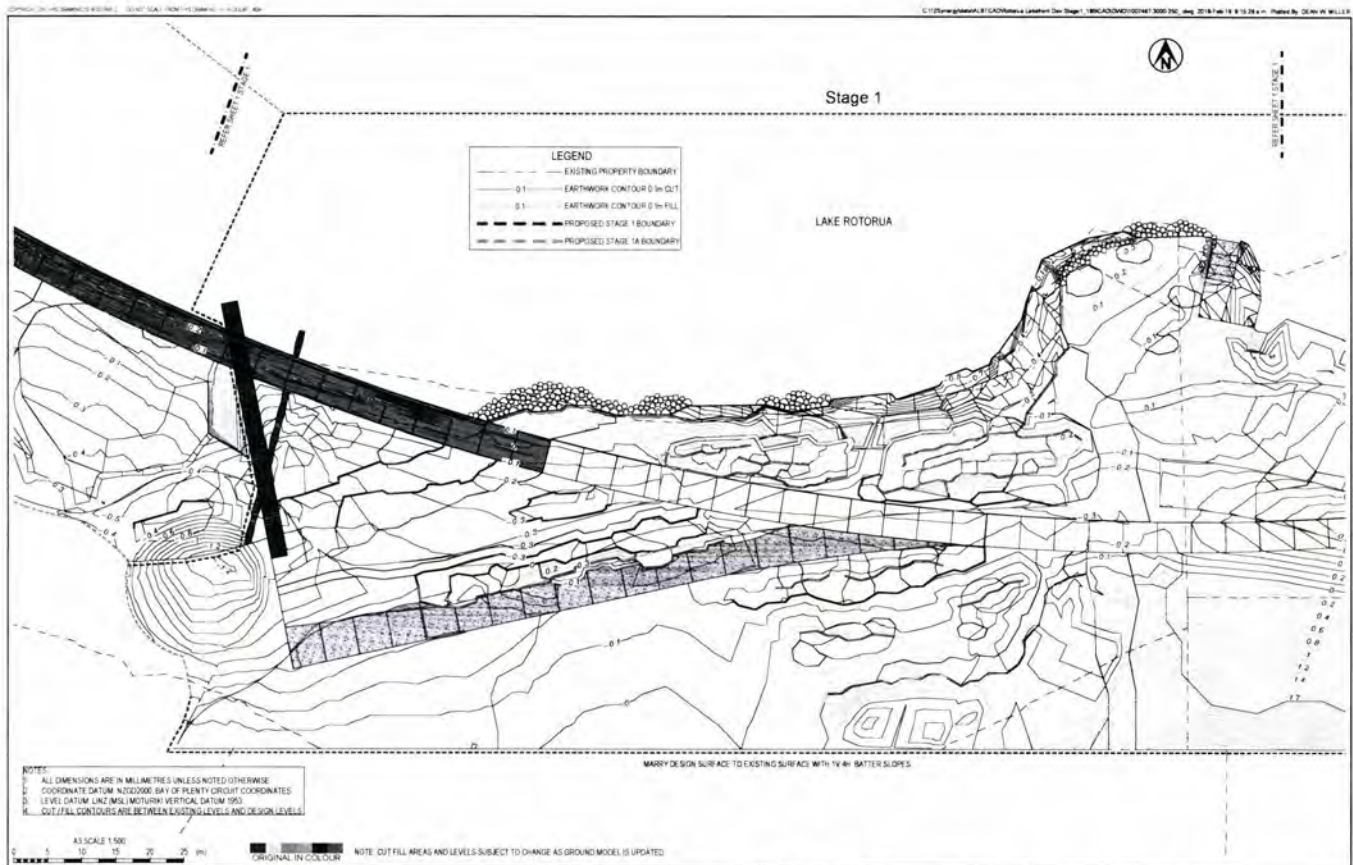
CLIENT	ROTORUA LAKES COUNCIL
PROJECT	ROTORUA LAKEFRONT DEVELOPMENT
TITLE	BOARDWALK, BRIDGES AND LAKE WALLS LAYOUT - SHEET 2 OF 3
SCALE (A3)	1:500
DWG No.	1007467 3000-202
REV	A



<p>Exceptional thinking together™ www.tonkintaylor.co.nz</p>	DESIGNED: HSL 1 Feb 18	DRAWING STATUS: TENDER ISSUE	CLIENT: ROTORUA LAKES COUNCIL
	DRAWN: DWM 1 Feb 18	PROJECT: ROTORUA LAKEFRONT DEVELOPMENT	TITLE: BOARDWALK, BRIDGES AND LAKE WALLS LAYOUT - SHEET 3 OF 3
DESIGN CHECKED: LDP 05/02/18	DRAWING CHECKED: CDV 05/02/18	NOT FOR CONSTRUCTION	SCALE (A3): 1:500
REV: A TENDER ISSUE	CAD: DWM	CHK: CDV	DATE: 05/02/18
<p>THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED</p>		DWG No: 1007467 3000-203	REV: A



<p>Exceptional thinking together™ www.tonkintaylor.co.nz</p>	DESIGNED: ONS 1 Feb 18	DRAWING STATUS: TENDER ISSUE	CLIENT: ROTORUA LAKES COUNCIL
	DRAWN: BL 1 Feb 18	PROJECT: ROTORUA LAKEFRONT DEVELOPMENT	TITLE: EARTHWORKS - STAGE 1a CUT FILL PLANS - SHEET 1 OF 3
DESIGN CHECKED: LDP 05/02/18	DRAWING CHECKED: CDV 05/02/18	NOT FOR CONSTRUCTION	SCALE (A3): 1:500
REV: A TENDER ISSUE	CAD: DWM	CHK: CDV	DATE: 05/02/18
REV: B REVISED CONTOURS	CAD: DWM	CHK: CDV	DATE: 19/02/18
<p>THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED</p>		DWG No: 1007467 3000-250	REV: B

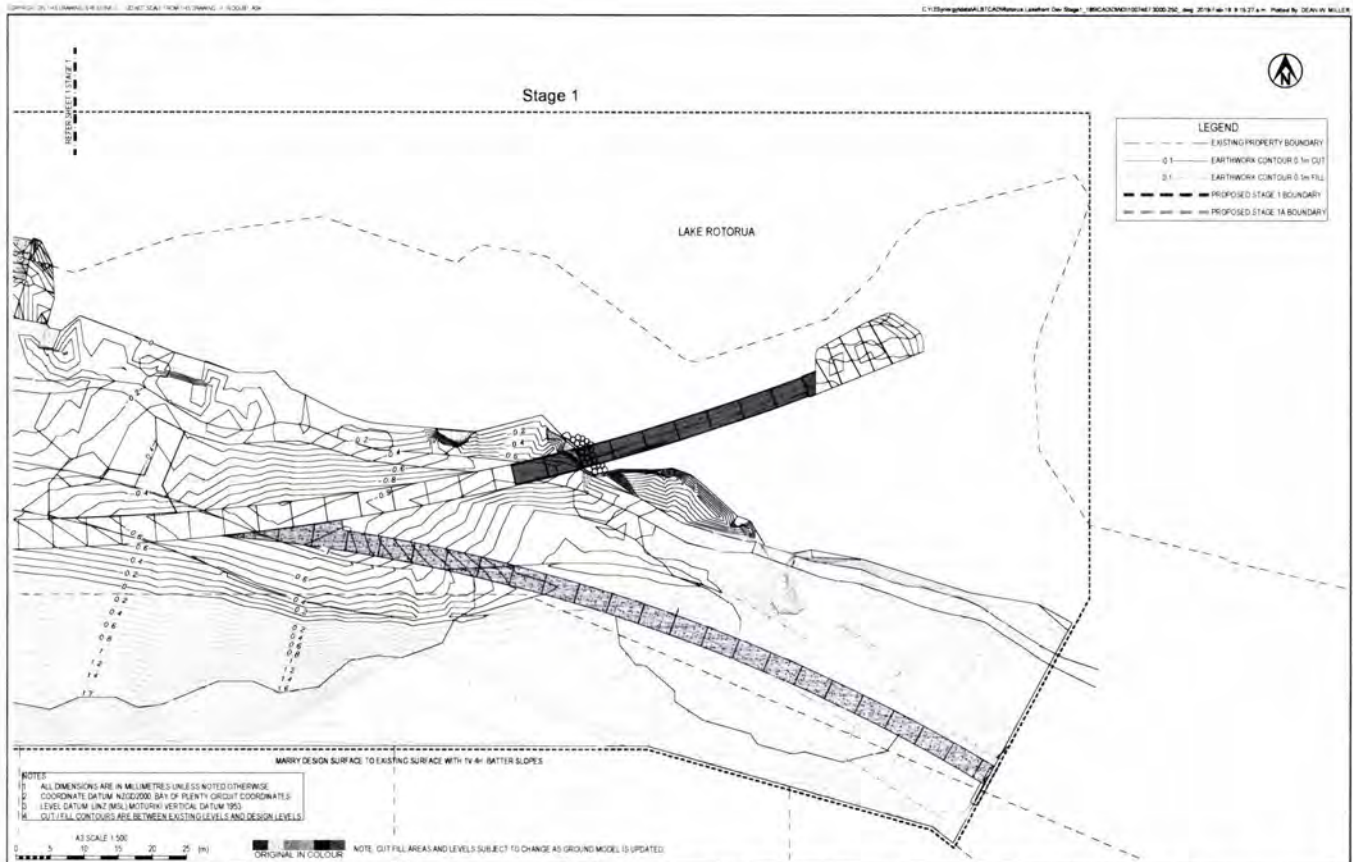


NOTES:
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 2. COORDINATE DATUM NZGD2000, BAY OF PLENTY CIRCUIT COORDINATES
 3. LEVEL DATUM UNZ (MGL), MCTURKIN VERTICAL DATUM 1993
 4. CUT/FILL CONTOURS ARE BETWEEN EXISTING LEVELS AND DESIGN LEVELS

A3 SCALE 1:500
 ORIGINAL IN COLOUR NOTE: CUT/FILL AREAS AND LEVELS SUBJECT TO CHANGE AS GROUND MODEL IS UPDATED

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DESIGNED DWS Feb 19	DRAWING STATUS TENDER ISSUE	CLIENT ROTORUA LAKES COUNCIL
DESIGN CHECKED LDP 25.02.19	DRAWING CHECKED CCAV 25.02.19	PROJECT ROTORUA LAKEFRONT DEVELOPMENT
DRAWN BLI Feb 19	NOT FOR CONSTRUCTION	TITLE EARTHWORKS - STAGE 1 CUT FILL PLANS - SHEET 2 OF 3
DATE 19.02.19	APPROVED	SCALE (AS) 1:500
DATE 19.02.19	DATE	DWG No 1007467 3000-251
REV	DESCRIPTION	REV B

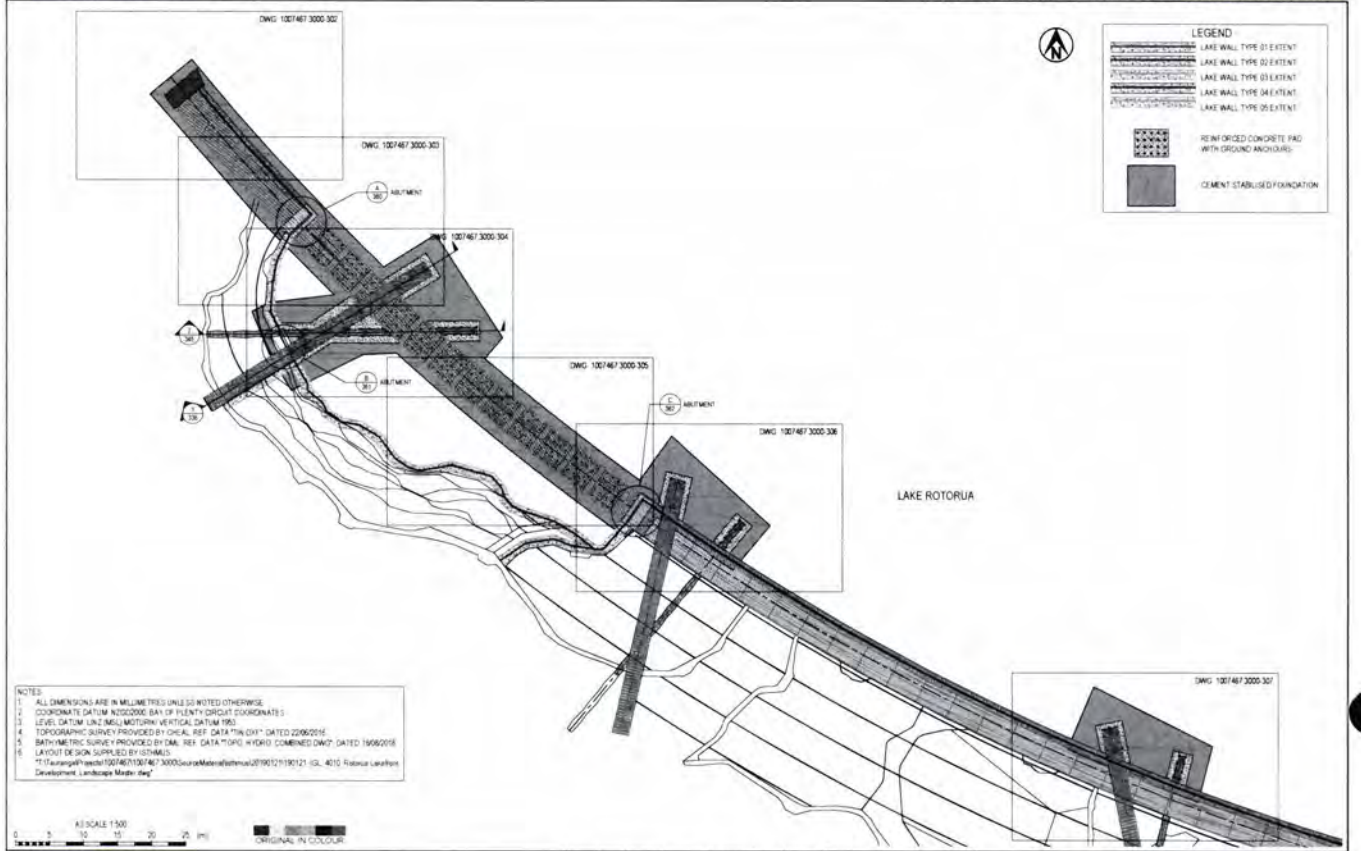


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A3 SCALE 1:500
 ORIGINAL IN COLOUR NOTE: CUT/FILL AREAS AND LEVELS SUBJECT TO CHANGE AS GROUND MODEL IS UPDATED

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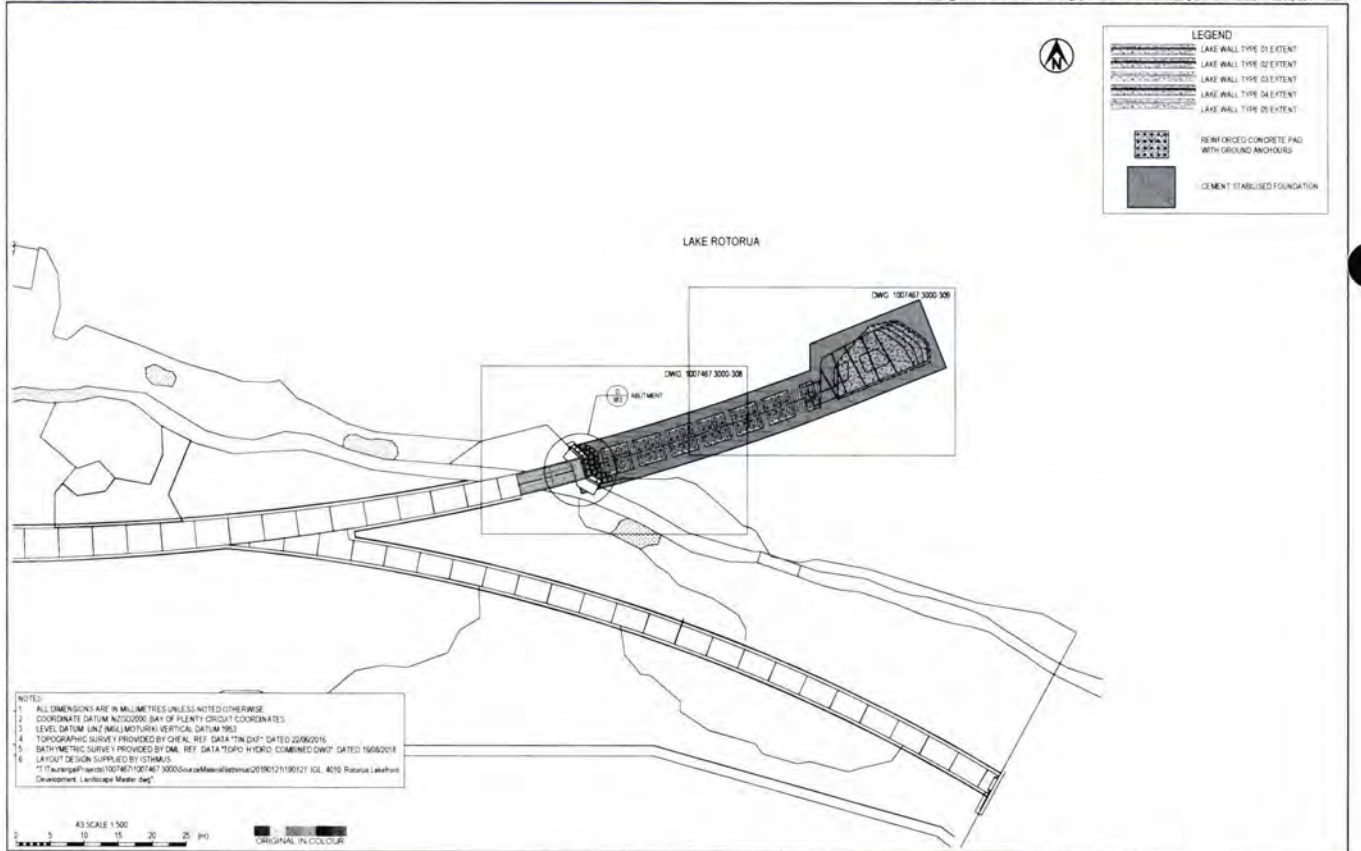
DESIGNED DWS Feb 19	DRAWING STATUS TENDER ISSUE	CLIENT ROTORUA LAKES COUNCIL
DESIGN CHECKED LDP 25.02.19	DRAWING CHECKED CCAV 25.02.19	PROJECT ROTORUA LAKEFRONT DEVELOPMENT
DRAWN BLI Feb 19	NOT FOR CONSTRUCTION	TITLE EARTHWORKS - STAGE 1 CUT FILL PLANS - SHEET 3 OF 3
DATE 19.02.19	APPROVED	SCALE (AS) 1:500
DATE 19.02.19	DATE	DWG No 1007467 3000-252
REV	DESCRIPTION	REV B



NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. COORDINATE DATUM NZGD2000 BAY OF PLENTY ORIGIN COORDINATES
 3. LEVEL DATUM NZM (MOTURU) VERTICAL DATUM 1983
 4. TOPOGRAPHIC SURVEY PROVIDED BY OIA, REF. DATA "TOP" DATED 2006/2016
 5. BATHYMETRIC SURVEY PROVIDED BY OIA, REF. DATA "BHD" COMBINED DWT DATED 1966/2018
 6. LAYOUT DESIGN SUPPLIED BY ISTHMUS
 7. "Landscape Plans" 1007467/1007467_3000/SourceMaterial/isthmus/019012/190121_G/L_4010_Rotorua_Lakefront_Development_Landscape_Master.dwg"



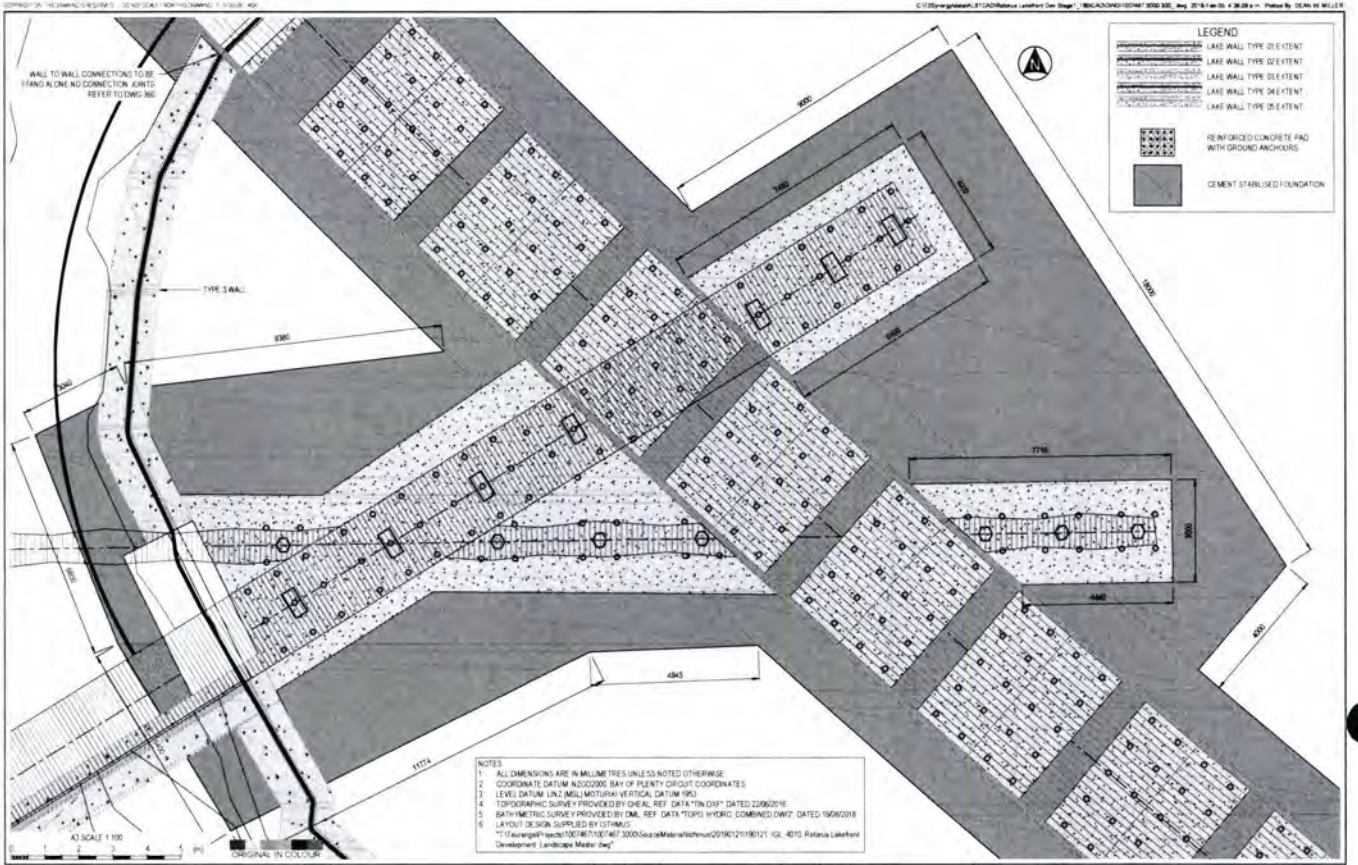
<p>Exceptional thinking together™ www.tonkin+taylor.co.nz</p>	DESIGNED: HSW, 1 Feb 19 DRAWN: DWM, 1 Feb 19 DESIGN CHECKED: LOP, 25 Oct 19 DRAWING CHECKED: CDAY, 25 Oct 19		DRAWING STATUS: TENDER ISSUE		CLIENT: ROTORUA LAKES COUNCIL PROJECT: ROTORUA LAKEFRONT DEVELOPMENT
	NOT FOR CONSTRUCTION		THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		TITLE: BOARDWALK, BRIDGES AND LAKEWALLS DESIGN ALIGNMENTS - WESTERN EXTENT
A TENDER ISSUE	DWM CDAY 25.10.19	CAD CHK DATE	APPROVED DATE	SCALE (AS): 1:500	DWG No: 1007467 3000-300 REV: A



NOTES:
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 7. "Landscape Plans" 1007467/1007467_3000/SourceMaterial/isthmus/019012/190121_G/L_4010_Rotorua_Lakefront_Development_Landscape_Master.dwg"



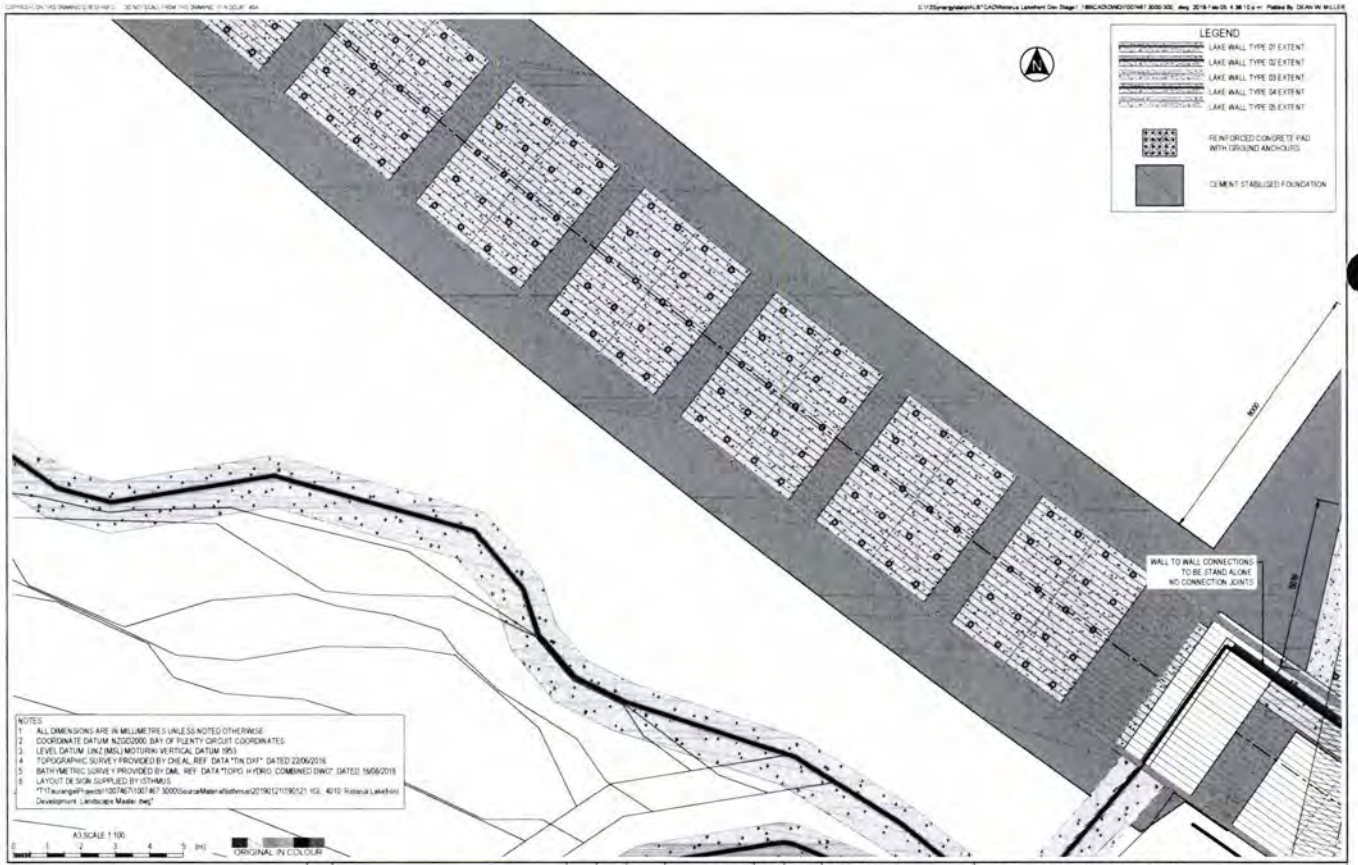
<p>Exceptional thinking together™ www.tonkin+taylor.co.nz</p>	DESIGNED: HSW, 1 Feb 19 DRAWN: DWM, 1 Feb 19 DESIGN CHECKED: LOP, 25 Oct 19 DRAWING CHECKED: CDAY, 25 Oct 19		DRAWING STATUS: TENDER ISSUE		CLIENT: ROTORUA LAKES COUNCIL PROJECT: ROTORUA LAKEFRONT DEVELOPMENT
	NOT FOR CONSTRUCTION		THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		TITLE: BOARDWALK, BRIDGES AND LAKEWALLS DESIGN ALIGNMENTS - EASTERN EXTENT
A TENDER ISSUE	DWM CDAY 25.10.19	CAD CHK DATE	APPROVED DATE	SCALE (AS): 1:500	DWG No: 1007467 3000-301 REV: A



NOTES
 1 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2 COORDINATE DATUM NZGD2000 BAY OF PLENTY CIRCUIT COORDINATES
 3 LEVEL DATUM NZMILLIMETRE VERTICAL DATUM 1983
 4 TOPOGRAPHIC SURVEY PROVIDED BY OIA REF DATA "TN D34" DATED 22/02/18
 5 BATHYMETRIC SURVEY PROVIDED BY OIA REF DATA "TOP3 HYDRO COMBINED DWG" DATED 16/06/2018
 6 LAYOUT DESIGN SUPPLIED BY ESTIMATE
 7 "11\vauegq\p\sect\1007467130746713000\source\Material\shu\02190121190121_15L_4016_Rotorua Lakefront Development_Landscape Master.dwg"

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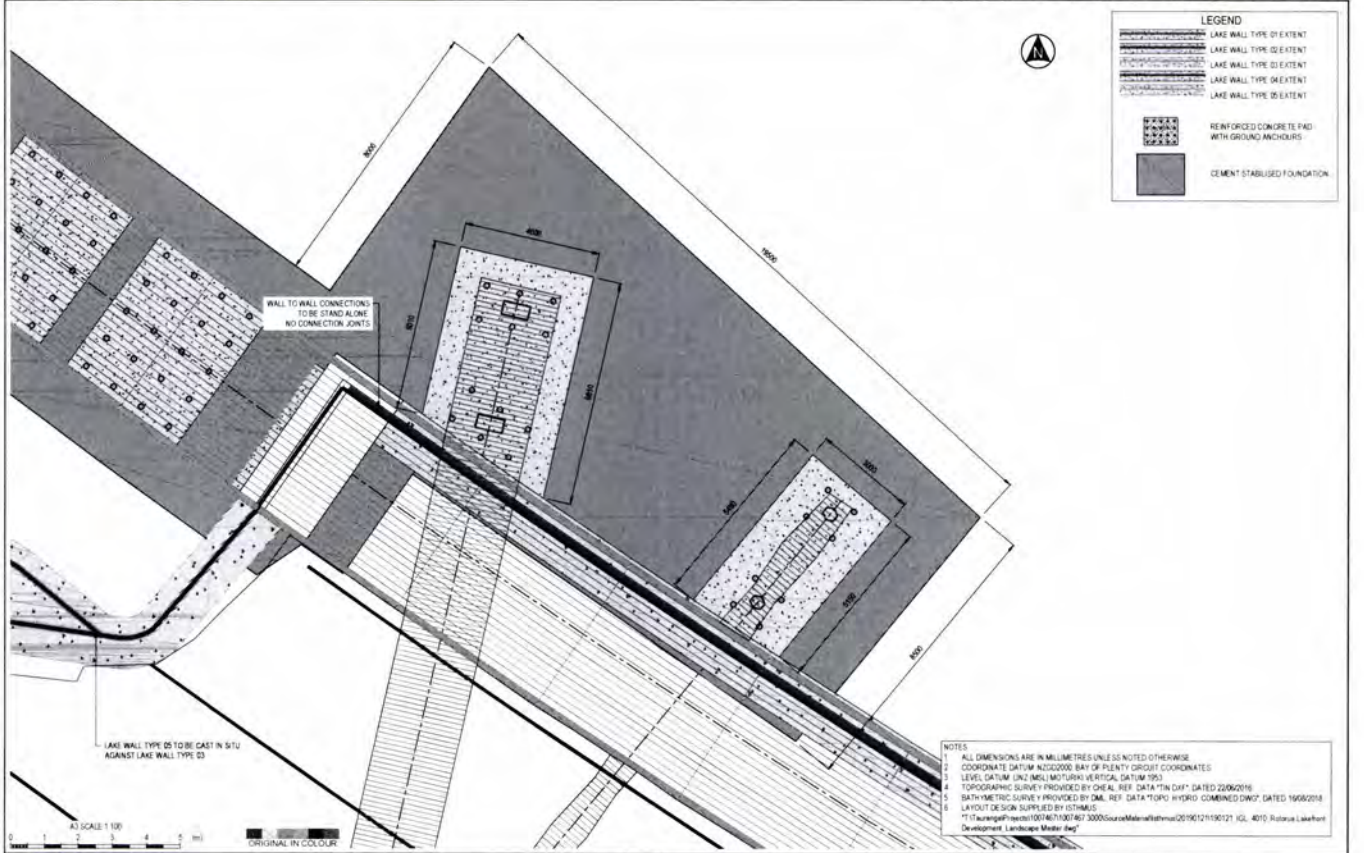
DESIGNED	HSL	7 Feb 19	DRAWING STATUS	TENDER ISSUE	CLIENT	ROTORUA LAKES COUNCIL
DRAWN	DWM	7 Feb 19			PROJECT	ROTORUA LAKEFRONT DEVELOPMENT
DESIGN CHECKED	LDP	25/02/19			TITLE	BOARDWALK, BRIDGES AND LAKEWALLS ALIGNMENTS AND DETAILS - SHEET 3 OF 8
DRAWING CHECKED	CDAV	25/02/19			SCALE (A3)	1:100
NOT FOR CONSTRUCTION			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		DWG No	1007467 3000-304
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE
A	TENDER ISSUE			25/02/19		



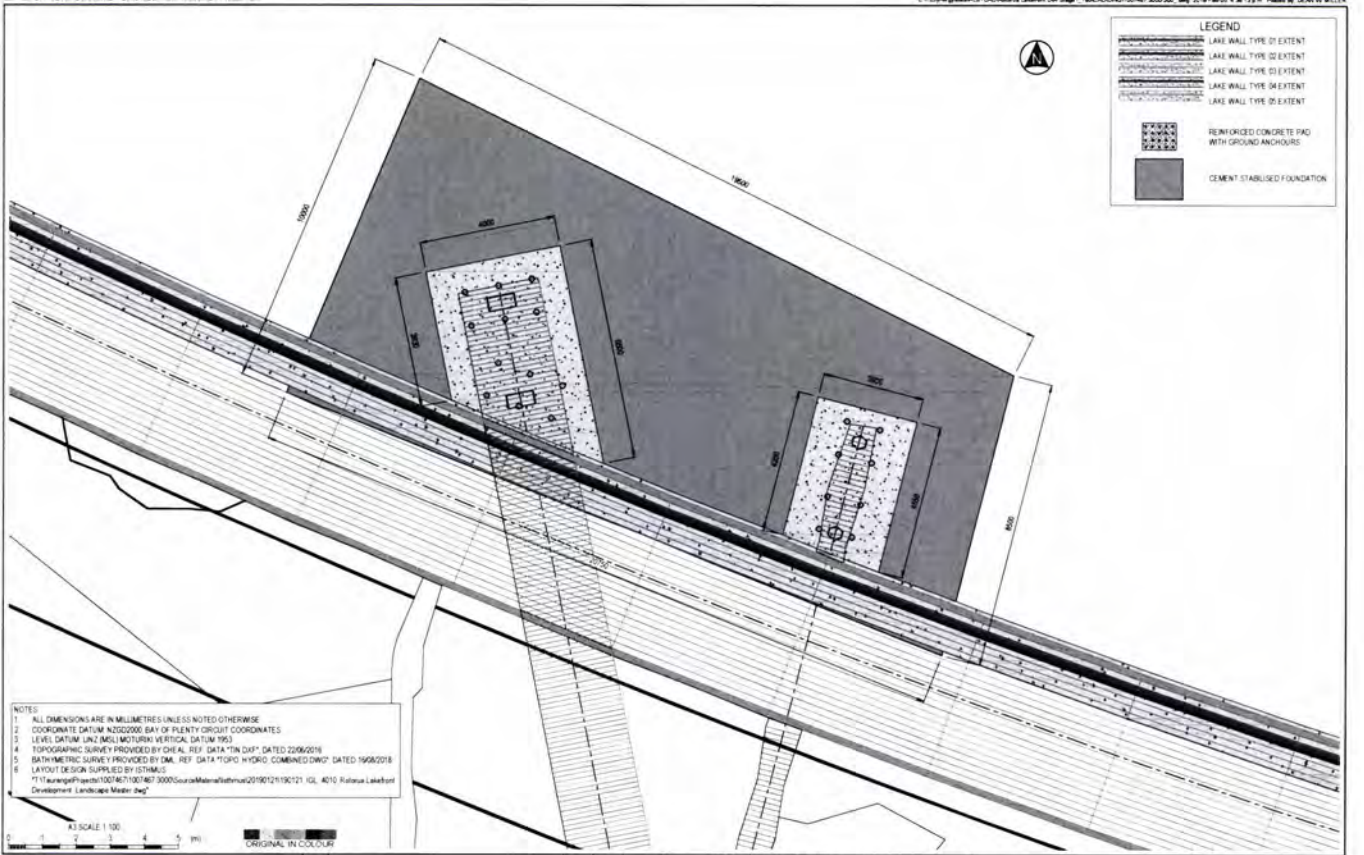
NOTES
 1 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2 COORDINATE DATUM NZGD2000 BAY OF PLENTY CIRCUIT COORDINATES
 3 LEVEL DATUM NZMILLIMETRE VERTICAL DATUM 1983
 4 TOPOGRAPHIC SURVEY PROVIDED BY OIA REF DATA "TN D34" DATED 22/02/18
 5 BATHYMETRIC SURVEY PROVIDED BY OIA REF DATA "TOP3 HYDRO COMBINED DWG" DATED 16/06/2018
 6 LAYOUT DESIGN SUPPLIED BY ESTIMATE
 7 "11\vauegq\p\sect\1007467130746713000\source\Material\shu\02190121190121_15L_4016_Rotorua Lakefront Development_Landscape Master.dwg"

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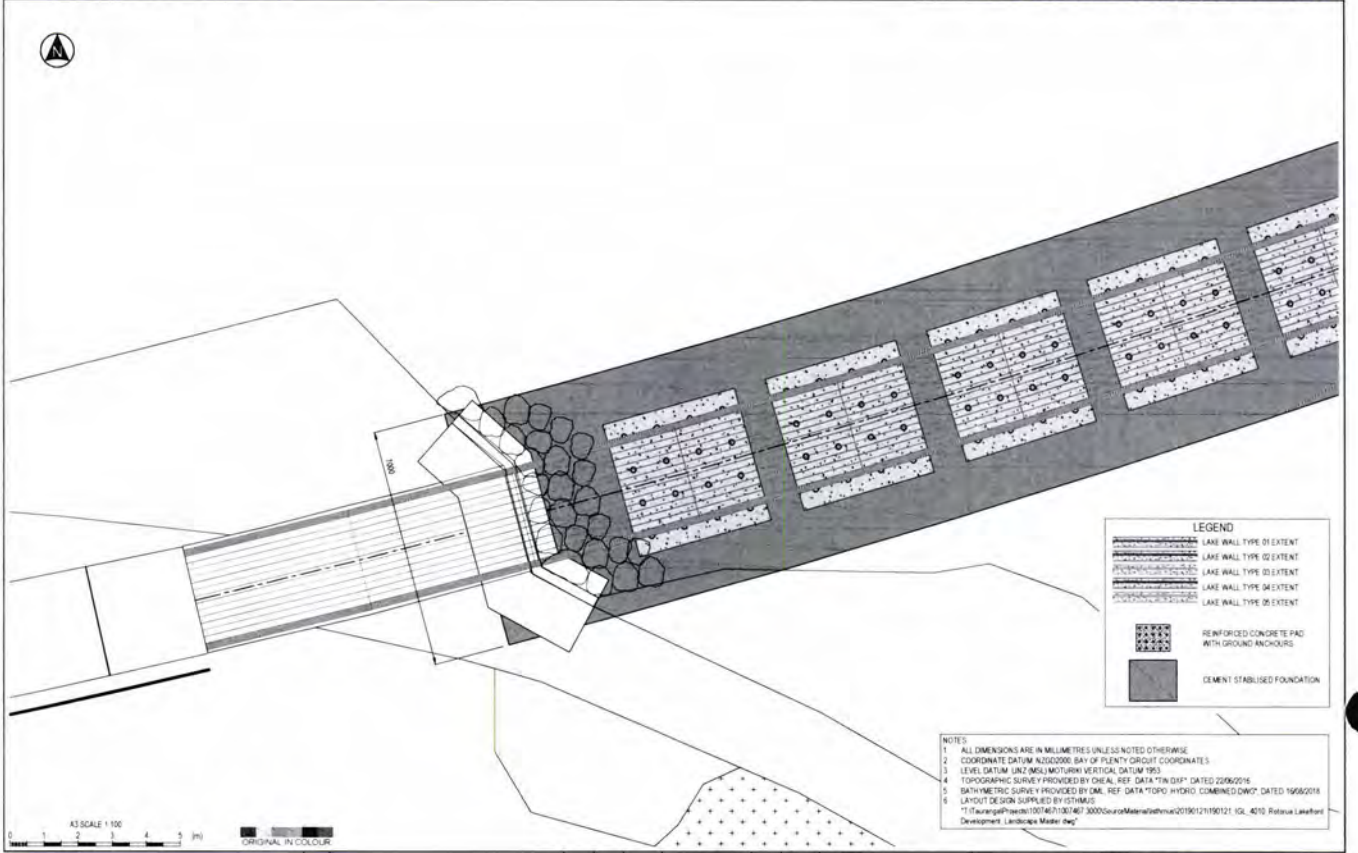
DESIGNED	HSL	7 Feb 19	DRAWING STATUS	TENDER ISSUE	CLIENT	ROTORUA LAKES COUNCIL
DRAWN	DWM	7 Feb 19			PROJECT	ROTORUA LAKEFRONT DEVELOPMENT
DESIGN CHECKED	LDP	25/02/19			TITLE	BOARDWALK, BRIDGES AND LAKEWALLS ALIGNMENTS AND DETAILS - SHEET 4 OF 8
DRAWING CHECKED	CDAV	25/02/19			SCALE (A3)	1:100
NOT FOR CONSTRUCTION			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		DWG No	1007467 3000-305
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE
A	TENDER ISSUE			25/02/19		



		DESIGNED: HSN, 1 Feb 19 DRAWN: DWM, 1 Feb 19 DESIGN CHECKED: LDP, 05 Dec 19 DRAWING CHECKED: CDVAV, 05 Dec 19	DRAWING STATUS: TENDER ISSUE	CLIENT: ROTORUA LAKES COUNCIL PROJECT: ROTORUA LAKEFRONT DEVELOPMENT
A TENDER ISSUE		NOT FOR CONSTRUCTION	THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED	TITLE: BOARDWALK, BRIDGES AND LAKEWALLS ALIGNMENTS AND DETAILS - SHEET 5 OF 8
REV: A	DESCRIPTION: TENDER ISSUE	CAD: DWM CHK: CDVAV DATE: 05 Dec 19	APPROVED:	SCALE (AS): 1:100 DWG No: 1007467-3000-306 REV: A



		DESIGNED: HSN, 1 Feb 19 DRAWN: DWM, 1 Feb 19 DESIGN CHECKED: LDP, 05 Dec 19 DRAWING CHECKED: CDVAV, 05 Dec 19	DRAWING STATUS: TENDER ISSUE	CLIENT: ROTORUA LAKES COUNCIL PROJECT: ROTORUA LAKEFRONT DEVELOPMENT
A TENDER ISSUE		NOT FOR CONSTRUCTION	THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED	TITLE: BOARDWALK, BRIDGES AND LAKEWALLS ALIGNMENTS AND DETAILS - SHEET 6 OF 8
REV: A	DESCRIPTION: TENDER ISSUE	CAD: DWM CHK: CDVAV DATE: 05 Dec 19	APPROVED:	SCALE (AS): 1:100 DWG No: 1007467-3000-307 REV: A



LEGEND

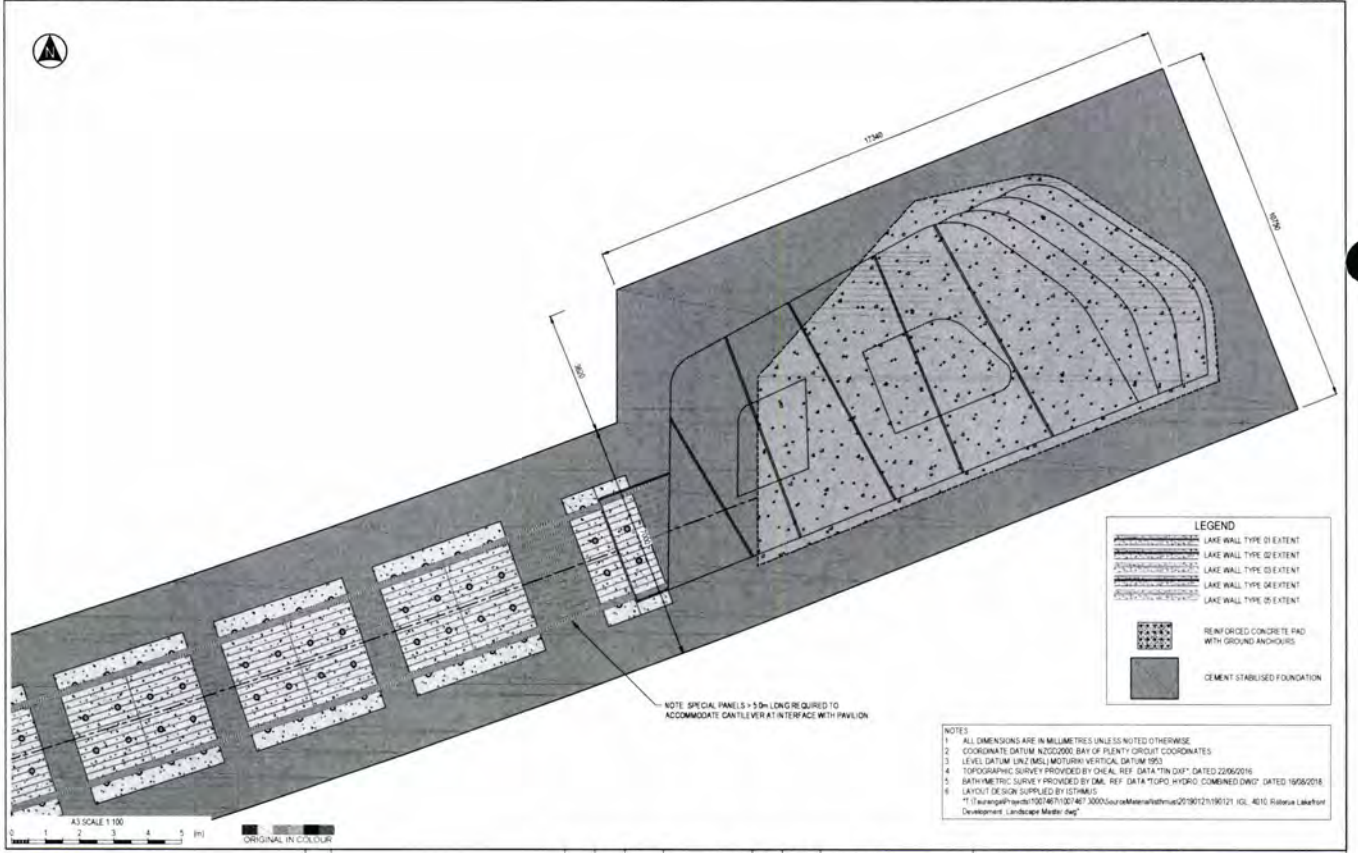
- [Hatching pattern 1] LAKE WALL TYPE 01 EXTENT
- [Hatching pattern 2] LAKE WALL TYPE 02 EXTENT
- [Hatching pattern 3] LAKE WALL TYPE 03 EXTENT
- [Hatching pattern 4] LAKE WALL TYPE 04 EXTENT
- [Hatching pattern 5] LAKE WALL TYPE 05 EXTENT
- [Hatching pattern 6] REINFORCED CONCRETE PAD WITH GROUND ANCHOURS
- [Hatching pattern 7] CEMENT STABILISED FOUNDATION

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. COORDINATE DATUM: NZGD2000; BAY OF PLENTY GRID COORDINATES.
3. LEVEL DATUM: NZL (MSL/MOTURHI) VERTICAL DATUM 1983.
4. TOPOGRAPHIC SURVEY PROVIDED BY CHEAL REF. DATA "TM DPT" DATED 2006/02/16.
5. BATHYMETRIC SURVEY PROVIDED BY OML REF. DATA "TOPO HYDRO COMBINED DWT" DATED 19/08/2018.
6. LAYOUT DESIGN SUPPLIED BY ISTHMUS.
7. ("I:\auroang\p\1007467\3000\467_3000\source\Material\1007467_1910121_KL_4010_Rotorua Lakesfront Development_Landscape Master.dwg")



DESIGNED: HSL Feb 19	DRAWING STATUS: TENDER ISSUE	CLIENT: ROTORUA LAKES COUNCIL
DRAWN: DWM Feb 19	PROJECT: ROTORUA LAKEFRONT DEVELOPMENT	TITLE: BOARDWALK, BRIDGES AND LAKEWALLS
DESIGN CHECKED: LDP 25.02.19	APPROVED: [Signature]	ALIGNMENTS AND DETAILS - SHEET 7 OF 8
DRAWING CHECKED: CDV 25.02.19	DATE: 25.02.19	SCALE (A3): 1:100
NOT FOR CONSTRUCTION		DWG No: 1007467 3000-308
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		REV: A



LEGEND

- [Hatching pattern 1] LAKE WALL TYPE 01 EXTENT
- [Hatching pattern 2] LAKE WALL TYPE 02 EXTENT
- [Hatching pattern 3] LAKE WALL TYPE 03 EXTENT
- [Hatching pattern 4] LAKE WALL TYPE 04 EXTENT
- [Hatching pattern 5] LAKE WALL TYPE 05 EXTENT
- [Hatching pattern 6] REINFORCED CONCRETE PAD WITH GROUND ANCHOURS
- [Hatching pattern 7] CEMENT STABILISED FOUNDATION

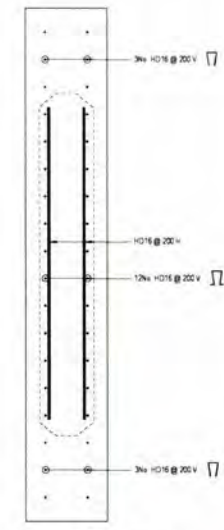
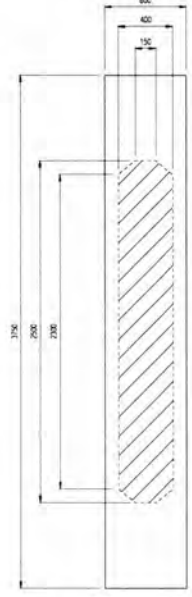
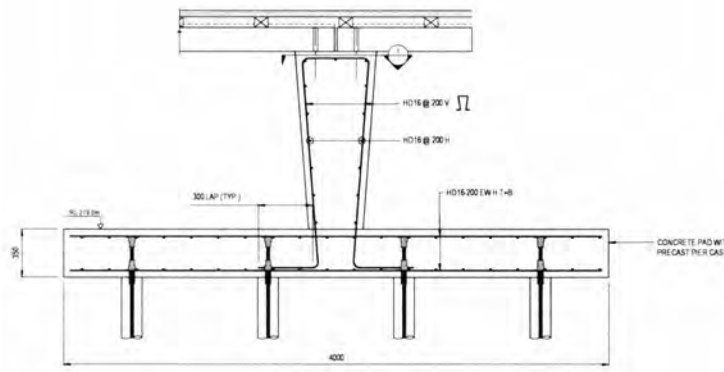
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. COORDINATE DATUM: NZGD2000; BAY OF PLENTY GRID COORDINATES.
3. LEVEL DATUM: NZL (MSL/MOTURHI) VERTICAL DATUM 1983.
4. TOPOGRAPHIC SURVEY PROVIDED BY CHEAL REF. DATA "TM DPT" DATED 2006/02/16.
5. BATHYMETRIC SURVEY PROVIDED BY OML REF. DATA "TOPO HYDRO COMBINED DWT" DATED 19/08/2018.
6. LAYOUT DESIGN SUPPLIED BY ISTHMUS.
7. ("I:\auroang\p\1007467\3000\467_3000\source\Material\1007467_1910121_KL_4010_Rotorua Lakesfront Development_Landscape Master.dwg")



DESIGNED: HSL Feb 19	DRAWING STATUS: TENDER ISSUE	CLIENT: ROTORUA LAKES COUNCIL
DRAWN: DWM Feb 19	PROJECT: ROTORUA LAKEFRONT DEVELOPMENT	TITLE: BOARDWALK, BRIDGES AND LAKEWALLS
DESIGN CHECKED: LDP 25.02.19	APPROVED: [Signature]	ALIGNMENTS AND DETAILS - SHEET 8 OF 8
DRAWING CHECKED: CDV 25.02.19	DATE: 25.02.19	SCALE (A3): 1:100
NOT FOR CONSTRUCTION		DWG No: 1007467 3000-309
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		REV: A

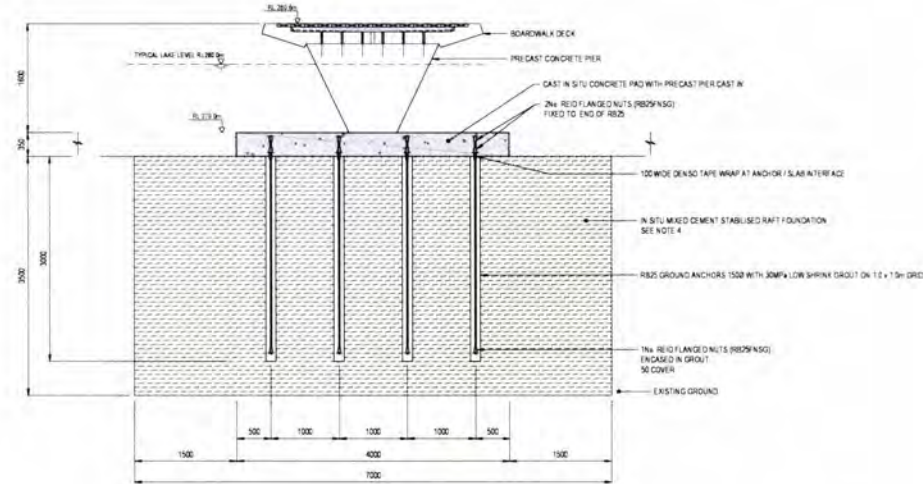
- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. SECTIONS DO NOT ILLUSTRATE FINAL FORM OF CONCRETE. REFER TO 3D MODEL FOR FACED FORM OF PRECAST PANELS, HEADSTOCK AND PIERS
 3. THE CONTRACTOR SHALL DESIGN THE PRESTRESSED PRECAST CONCRETE SLAB IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - MEET REQUIREMENTS OF NZS 3101:2006
 - LIVE LOAD 10 kPa
 - IMPACT LOAD (UP/LIFT AND DOWNWARD PRESSURE)
 - 5.0m BOARDWALK: 3.0m BOARDWALK: 2.4m TUIHUKU BRIDGE: 2.2 kPa
 - 1.0m TUIHUKU BRIDGE: 2.2 kPa
 - HORIZONTAL SEISMIC ACTION COEFFICIENT (Q₁) = 0.72
 - CHEMICAL EXPOSURE CLASSIFICATION (KAZ) NZS 3101:2006
 4. PRESTRESSED PRECAST CONCRETE SLAB DESIGNER TO USE WITH 1+1 FOR DESIGN ACTIONS INDUCED BY CONNECTIONS
 5. PROVIDE A PRODUCER STATEMENT, DESIGN (PS1) FOR THE PRESTRESSED PRECAST CONCRETE SLAB DESIGN
 6. PRESTRESSED PRECAST CONCRETE SLAB FINISHES: REFER TO ARCHITECTURAL DRAWINGS
 7. CONCRETE STRENGTH TO BE 40 MPa @ 28 DAYS
 8. REINFORCING SHALL BE GRADE 500c MA
 9. REFER TO 1-1 SPECIFICATION FOR CONCRETE MAX REQUIREMENTS
 10. CONCRETE COVER TO BE 50mm UNLESS NOTED OTHERWISE
 11. ALL STAINLESS STEEL TO BE GRADE 316



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DESIGNED	HSL	Feb 19	DRAWING STATUS	CLIENT	ROTORUA LAKES COUNCIL						
DRAWN	DWM	Feb 19	TENDER ISSUE	PROJECT	ROTORUA LAKEFRONT DEVELOPMENT						
DESIGN CHECKED	LDP	25.02.19		TITLE	5.0m BOARDWALK DESIGN						
DRAWING CHECKED	CDAV	25.02.19			STEELWORK ARRANGEMENT - SHEET 2 OF 2						
NOT FOR CONSTRUCTION			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED								
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE	SCALE (A3)	DWG No.	1007467 3000-316	REV	A

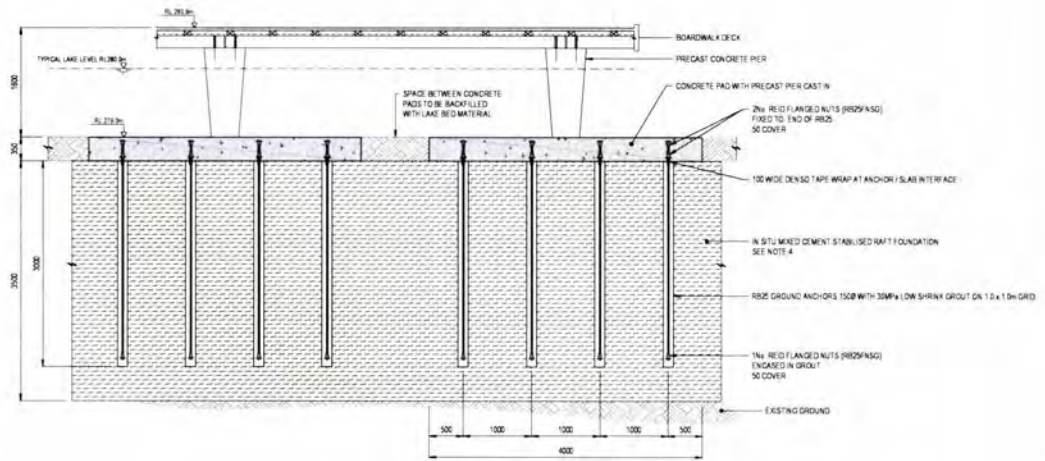
- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. SECTIONS DO NOT ILLUSTRATE FINAL FORM OF CONCRETE. REFER TO 3D MODEL FOR FACED FORM OF PRECAST PANELS, HEADSTOCK AND PIERS
 3. CONCRETE COVER TO BE 50mm UNLESS NOTED OTHERWISE
 4. IN SITU MIXED CEMENT
 - UNCONFINED COMPRESSIVE STRENGTH = 12 MPa
 - SHEAR STRENGTH = 500 kPa
 - BULK DENSITY = 1800 kg/m³
 - REFER TO SPECIFICATION



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DESIGNED	HSL	Feb 19	DRAWING STATUS	CLIENT	ROTORUA LAKES COUNCIL						
DRAWN	DWM	Feb 19	TENDER ISSUE	PROJECT	ROTORUA LAKEFRONT DEVELOPMENT						
DESIGN CHECKED	LDP	25.02.19		TITLE	3.0m BOARDWALK DESIGN						
DRAWING CHECKED	CDAV	25.02.19			TYPICAL FOUNDATION SECTION						
NOT FOR CONSTRUCTION			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED								
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE	SCALE (A3)	DWG No.	1007467 3000-320	REV	A

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. SECTIONS DO NOT ILLUSTRATE FINAL FORM OF CONCRETE. REFER TO 3D MODEL FOR FACED FORM OF PRECAST PANELS. HEADSTOCK ANCHOR PER CONCRETE COVER TO BE 50mm UNLESS NOTED OTHERWISE
 3. IN SITU MIXED CEMENT
 - UNCOMPRESSED COMPRESSIVE STRENGTH = 2 MPa
 - SHEAR STRENGTH = 500 kPa
 - BULK DENSITY = 18 kN/m³
 - REFER TO SPECIFICATION



TYPICAL LONGSECTION - 3.0m BOARDWALK
SCALE 1:50

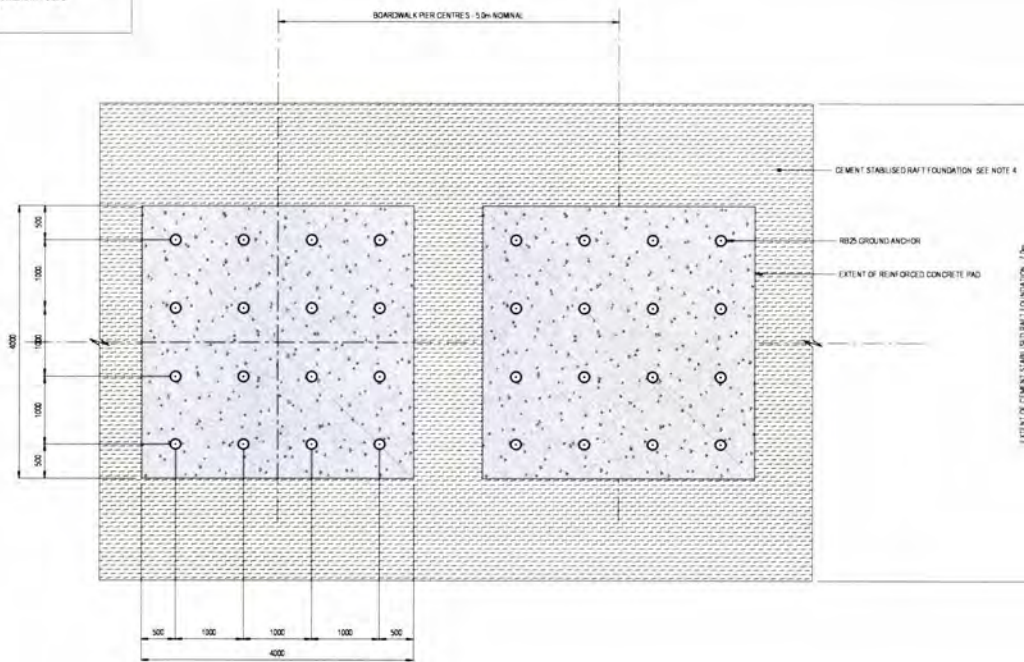


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DESIGNED: HSK, Feb 19	DRAWING STATUS: TENDER ISSUE	CLIENT: ROTORUA LAKES COUNCIL
DRAWN: DWM, Feb 19	DESIGN CHECKED: LDP, 05.02.19	PROJECT: ROTORUA LAKEFRONT DEVELOPMENT
DRAWING CHECKED: CDVA, 05.02.19	NOT FOR CONSTRUCTION	TITLE: 3.0m BOARDWALK DESIGN
		TYPICAL FOUNDATION LONGSECTION
REV: A TENDER ISSUE	DATE: 05.02.19	SCALE: (A3) 1:50
		DWG No: 1007467 3000-321
		REV: A

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. SECTIONS DO NOT ILLUSTRATE FINAL FORM OF CONCRETE. REFER TO 3D MODEL FOR FACED FORM OF PRECAST PANELS. HEADSTOCK ANCHOR PER CONCRETE COVER TO BE 50mm UNLESS NOTED OTHERWISE
 3. IN SITU MIXED CEMENT
 - UNCOMPRESSED COMPRESSIVE STRENGTH = 2 MPa
 - SHEAR STRENGTH = 500 kPa
 - BULK DENSITY = 18 kN/m³
 - REFER TO SPECIFICATION



PLAN - 3.0m BOARDWALK FOUNDATION LAYOUT
SCALE 1:50

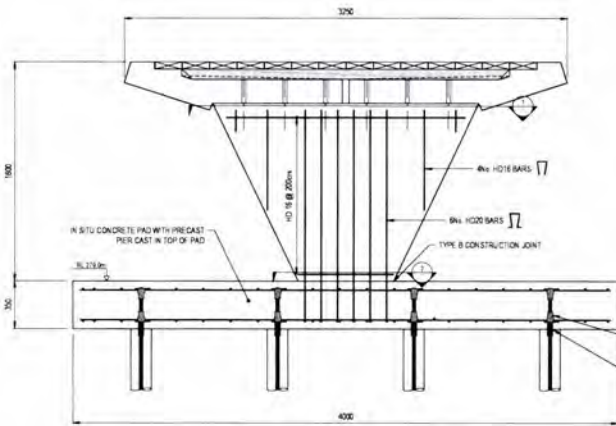


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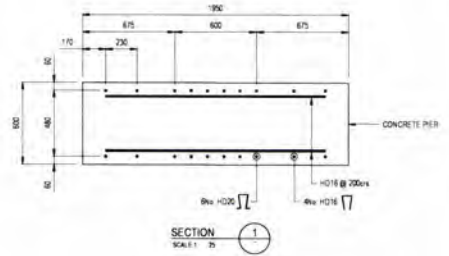
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DESIGNED: HSK, Feb 19	DRAWING STATUS: TENDER ISSUE	CLIENT: ROTORUA LAKES COUNCIL
DRAWN: DWM, Feb 19	DESIGN CHECKED: LDP, 05.02.19	PROJECT: ROTORUA LAKEFRONT DEVELOPMENT
DRAWING CHECKED: CDVA, 05.02.19	NOT FOR CONSTRUCTION	TITLE: 3.0m BOARDWALK DESIGN
		FOUNDATION LAYOUT
REV: A TENDER ISSUE	DATE: 05.02.19	SCALE: (A3) 1:50
		DWG No: 1007467 3000-322
		REV: A

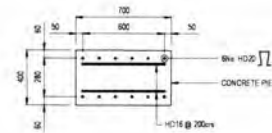
- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. SECTIONS DO NOT ILLUSTRATE FINAL FORM OF CONCRETE. REFER TO 3D MODEL FOR FACED FORM OF PRECAST PANELS, HEADSTOCK AND PIER.
 3. THE CONTRACTOR SHALL DESIGN THE PRESTRESSED PRECAST CONCRETE SLAB IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - a. MEET REQUIREMENTS OF NZS 3101:2006
 - b. LIVE LOAD 10kPa
 - c. WIND LOAD (UP/LIFT AND DOWNWARD PRESSURE)
 - 5.0m BOARDWALK, 3.0m BOARDWALK, 2.4m TUKITUKU BRIDGE = 22 MPa
 - 1.0m TUKITUKU BRIDGE = 27 MPa
 - d. HORIZONTAL SEISMIC ACTION COEFFICIENT (C_{SE}) = 0.72
 - e. CHEMICAL EXPOSURE CLASSIFICATION (AS NZS 3101:2006)
 - f. PRESTRESSED PRECAST CONCRETE SLAB DESIGNER TO UNISE WITH 1:1 FOR DESIGN ACTIONS INDUCED BY CONNECTIONS
 - g. PROVIDE A PRODUCER STATEMENT (DESIGN (PS1)) FOR THE PRESTRESSED PRECAST CONCRETE SLAB DESIGN
 4. PRESTRESSED PRECAST CONCRETE SLAB FINISHES: REFER TO ARCHITECTURAL DRAWINGS
 5. CONCRETE STRENGTH TO BE 40-50MPa @ 28 DAYS
 6. REINFORCING SHALL BE GRADE 500E MM
 7. REFER TO 1:4 SPECIFICATION FOR CONCRETE MIX REQUIREMENTS
 8. CONCRETE COVER TO BE 50mm UNLESS NOTED OTHERWISE
 9. ALL STAINLESS STEEL TO BE GRADE 316



CROSS SECTION - TYPICAL REINFORCING ARRANGEMENT - 3.0m BOARDWALK
SCALE 1:25



SECTION 1
SCALE 1:25



SECTION 2
SCALE 1:25

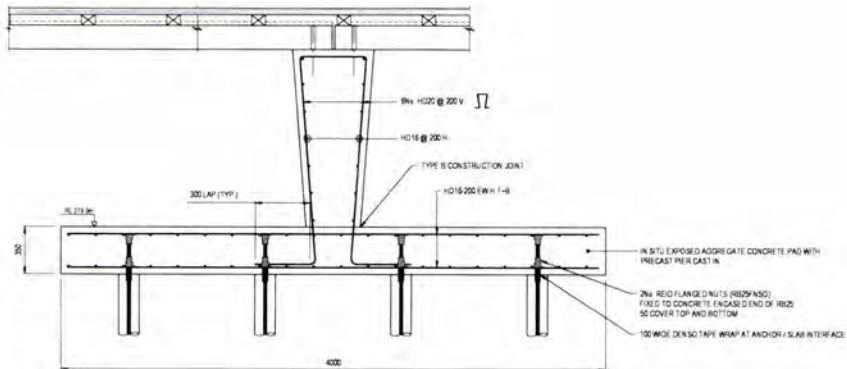


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DESIGNED: HSN, 7 Feb 15	DRAWING STATUS: TENDER ISSUE	CLIENT: ROTORUA LAKES COUNCIL
DRAWN: DWM, 10 Feb 15	DESIGN CHECKED: LDP, 05 Oct 15	PROJECT: ROTORUA LAKEFRONT DEVELOPMENT
DRAWING CHECKED: CDVA, 05 Oct 15	NOT FOR CONSTRUCTION	TITLE: 3.0m BOARDWALK DESIGN
REVISIONS:	THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SHOWN AS APPROVED	STEELEWORK ARRANGEMENT - SHEET 1 OF 2
REV: A TENDER ISSUE	CAD: DWM, 05 Oct 15	SCALE (A3): 1:25
DATE: 05 Oct 15	APPROVED: DATE	DWG No: 1007467-3000-325
		REV: A

- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. SECTIONS DO NOT ILLUSTRATE FINAL FORM OF CONCRETE. REFER TO 3D MODEL FOR FACED FORM OF PRECAST PANELS, HEADSTOCK AND PIER.
 3. THE CONTRACTOR SHALL DESIGN THE PRESTRESSED PRECAST CONCRETE SLAB IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - a. MEET REQUIREMENTS OF NZS 3101:2006
 - b. LIVE LOAD 10kPa
 - c. WIND LOAD (UP/LIFT AND DOWNWARD PRESSURE)
 - 5.0m BOARDWALK, 3.0m BOARDWALK, 2.4m TUKITUKU BRIDGE = 22 MPa
 - 1.0m TUKITUKU BRIDGE = 27 MPa
 - d. HORIZONTAL SEISMIC ACTION COEFFICIENT (C_{SE}) = 0.72
 - e. CHEMICAL EXPOSURE CLASSIFICATION (AS NZS 3101:2006)
 - f. PRESTRESSED PRECAST CONCRETE SLAB DESIGNER TO UNISE WITH 1:1 FOR DESIGN ACTIONS INDUCED BY CONNECTIONS
 - g. PROVIDE A PRODUCER STATEMENT (DESIGN (PS1)) FOR THE PRESTRESSED PRECAST CONCRETE SLAB DESIGN
 4. PRESTRESSED PRECAST CONCRETE SLAB FINISHES: REFER TO ARCHITECTURAL DRAWINGS
 5. CONCRETE STRENGTH TO BE 40-50MPa @ 28 DAYS
 6. REINFORCING SHALL BE GRADE 500E MM
 7. REFER TO 1:4 SPECIFICATION FOR CONCRETE MIX REQUIREMENTS
 8. CONCRETE COVER TO BE 50mm UNLESS NOTED OTHERWISE
 9. ALL STAINLESS STEEL TO BE GRADE 316



LONGSECTION - TYPICAL REINFORCING ARRANGEMENT - 3.0m BOARDWALK
SCALE 1:25

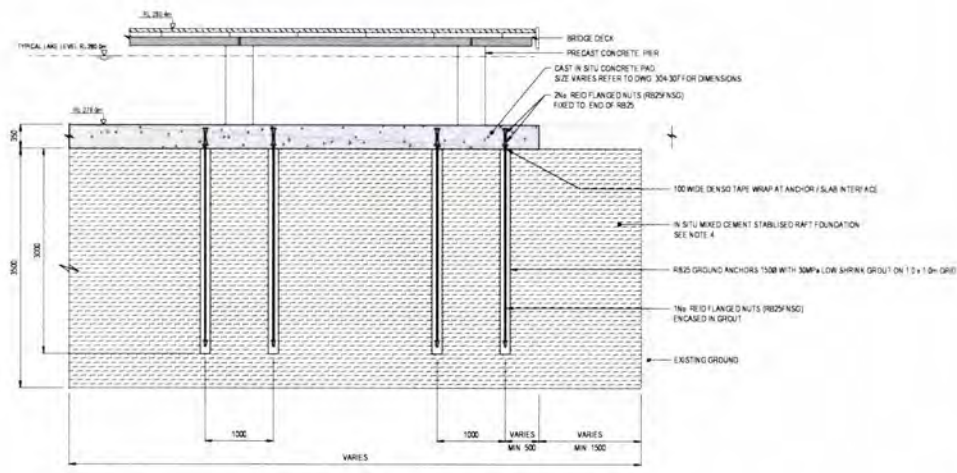


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DESIGNED: HSN, 7 Feb 15	DRAWING STATUS: TENDER ISSUE	CLIENT: ROTORUA LAKES COUNCIL
DRAWN: DWM, 10 Feb 15	DESIGN CHECKED: LDP, 05 Oct 15	PROJECT: ROTORUA LAKEFRONT DEVELOPMENT
DRAWING CHECKED: CDVA, 05 Oct 15	NOT FOR CONSTRUCTION	TITLE: 3.0m BOARDWALK DESIGN
REVISIONS:	THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SHOWN AS APPROVED	STEELEWORK ARRANGEMENT - SHEET 2 OF 2
REV: A TENDER ISSUE	CAD: DWM, 05 Oct 15	SCALE (A3): 1:25
DATE: 05 Oct 15	APPROVED: DATE	DWG No: 1007467-3000-326
		REV: A

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. SECTIONS DO NOT ILLUSTRATE FINAL FORM OF CONCRETE. REFER TO 3D MODEL FOR FACED FORM OF PRECAST PANELS, HEADSTOCK AND PIER
 3. THE CONTRACTOR SHALL DESIGN THE PRESTRESSED PRECAST CONCRETE SLAB IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - a. MEET REQUIREMENTS OF NZS 3101:2006
 - b. LIVE LOAD 15kPa
 - c. WIND LOAD (UP/LIFT AND DOWNWARD PRESSURE)
 - 0.3kN/BOUNDAIRY, 0.3kN/BOUNDAIRY, 2.4kN/TUKUTUKU BRIDGE + 2.2kPa
 - 1.25kN/TUKUTUKU BRIDGE + 2.7kPa
 - d. HORIZONTAL SEISMIC ACTION COEFFICIENT $C_{SH} = 0.2$
 - e. CHEMICAL EXPOSURE CLASSIFICATION XA2 (NZS 3101:2006)
 4. IN SITU MIXED CEMENT
 - a. UNCOMPRESSED COMPRESSIVE STRENGTH 12MPa
 - b. SPLIT TENSILE STRENGTH 500kPa
 - c. RELY DENSITY 18 kN/m³
 - d. REFER TO SPECIFICATION



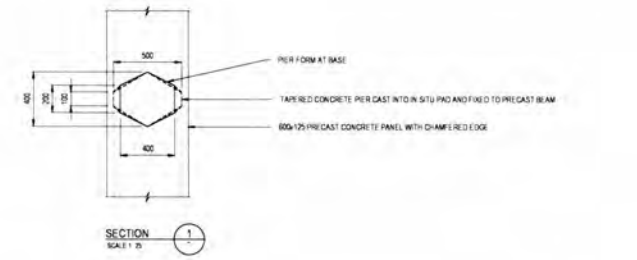
TYPICAL LONGSECTION - 1.05m TUKUTUKU BRIDGE
SCALE 1:50



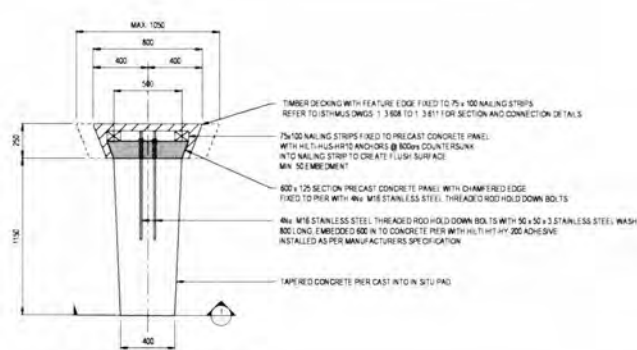
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DESIGNED: HSWL 1 Feb 19	DRAWING STATUS: TENDER ISSUE	CLIENT: ROTORUA LAKES COUNCIL
DRAWN: DMW 1 Feb 19	DESIGN CHECKED: LDP 05/02/19	PROJECT: ROTORUA LAKEFRONT DEVELOPMENT
DRAWING CHECKED: CDVA 05/02/19	NOT FOR CONSTRUCTION	TITLE: 1.05m TUKUTUKU BRIDGE DESIGN
		TYPICAL LONGSECTION
REV: A TENDER ISSUE	CAD: DMW	SCALE (A3): 1:50
CHK: CDVA	DATE: 05/02/19	DWG No: 1007467 3000-341
	APPROVED: [Signature]	REV: A

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. SECTIONS DO NOT ILLUSTRATE FINAL FORM OF CONCRETE. REFER TO 3D MODEL FOR FACED FORM OF PRECAST PANELS, HEADSTOCK AND PIER
 3. THE CONTRACTOR SHALL DESIGN THE PRESTRESSED PRECAST CONCRETE SLAB IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - a. MEET REQUIREMENTS OF NZS 3101:2006
 - b. LIVE LOAD 15kPa
 - c. WIND LOAD (UP/LIFT AND DOWNWARD PRESSURE)
 - 0.3kN/BOUNDAIRY, 0.3kN/BOUNDAIRY, 2.4kN/TUKUTUKU BRIDGE + 2.2kPa
 - 1.25kN/TUKUTUKU BRIDGE + 2.7kPa
 - d. HORIZONTAL SEISMIC ACTION COEFFICIENT $C_{SH} = 0.2$
 - e. CHEMICAL EXPOSURE CLASSIFICATION XA2 (NZS 3101:2006)
 4. PRESTRESSED PRECAST CONCRETE SLAB DESIGNER TO LAISE WITH 1:1 FOR DESIGN ACTIONS INDUCED BY CONNECTIONS
 5. PROVIDE A PRODUCER STATEMENT DESIGN SPEC FOR THE PRESTRESSED PRECAST CONCRETE SLAB DESIGN
 6. PRESTRESSED PRECAST CONCRETE SLAB FINISHES: REFER TO ARCHITECTURAL DRAWINGS
 7. CONCRETE STRENGTH TO BE 12-15MPa @ 28 DAYS
 8. REINFORCING SHALL BE GRADE 500 MM
 9. REFER TO 1-17 SPECIFICATION FOR CONCRETE MIX REQUIREMENTS
 10. CONCRETE COVER TO BE 50MM UNLESS NOTED OTHERWISE
 11. ALL STAINLESS STEEL TO BE GRADE 316



SECTION 1-1
SCALE 1:25



TYPICAL CROSS SECTION - PIER AND DECK
SCALE 1:25

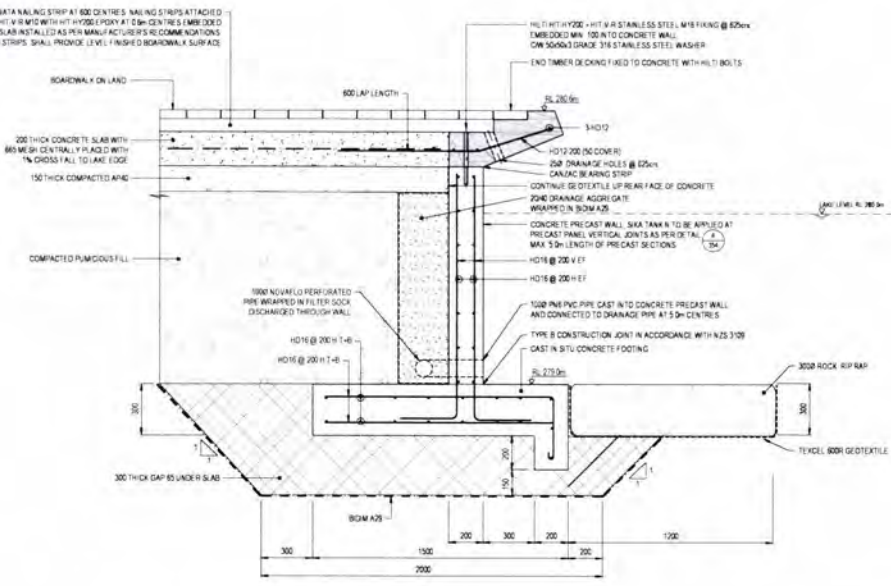


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DESIGNED: HSWL 1 Feb 19	DRAWING STATUS: TENDER ISSUE	CLIENT: ROTORUA LAKES COUNCIL
DRAWN: DMW 1 Feb 19	DESIGN CHECKED: LDP 05/02/19	PROJECT: ROTORUA LAKEFRONT DEVELOPMENT
DRAWING CHECKED: CDVA 05/02/19	NOT FOR CONSTRUCTION	TITLE: 1.05m TUKUTUKU BRIDGE DESIGN
		TYPICAL PIER AND DECK CROSS SECTION
REV: A TENDER ISSUE	CAD: DMW	SCALE (A3): 1:25
CHK: CDVA	DATE: 05/02/19	DWG No: 1007467 3000-342
	APPROVED: [Signature]	REV: A

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. REFER TO OTHERS DRAWING AND SPECIFICATION FOR FINISHING DETAILS
 3. CONCRETE STRENGTH TO BE $f_{ck} = 30MPa @ 28 DAYS$
 4. REINFORCING SHALL BE GRADE 500E MPA
 5. REFER TO T+T SPECIFICATION FOR CONCRETE MIX REQUIREMENTS
 6. CONCRETE COVER TO WALL = 50mm FOOTING = 75mm UNLESS NOTED OTHERWISE
 7. ALL STAINLESS STEEL TO BE GRADE 316

75x100 HS TREATED PALUS BAZATA NAILING STRIP AT 600 CENTRES. NAILING STRIPS ATTACHED TO CONCRETE SLAB WITH HLT V R M16 WITH HT 3000 POLY AT 50mm CENTRES (EMBEDDED INTO CONCRETE SLAB INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS). TIMBER NAILING STRIPS SHALL PROVIDE LEVEL FINISHED BOARDWALK SURFACE.



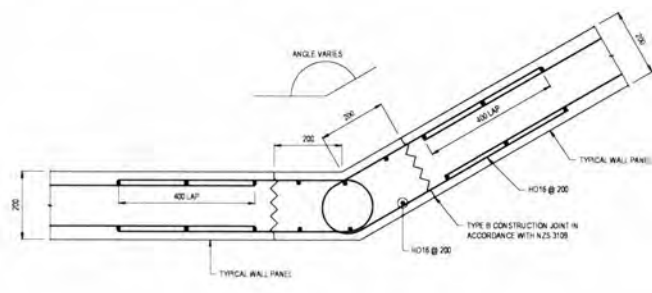
TYPICAL SECTION - LAKE WALL TYPE W04
SCALE: 1:20



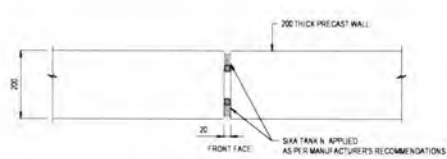
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DESIGNED	HSN	1 Feb 18	DRAWING STATUS	TENDER ISSUE	CLIENT	ROTORUA LAKES COUNCIL
DRAWN	DWM	1 Feb 18			PROJECT	ROTORUA LAKEFRONT DEVELOPMENT
DESIGN CHECKED	LJP	25 Oct 18			TITLE	LAKEWALL DESIGN
DRAWING CHECKED	EDAW	25 Oct 18			SECTION - WALL TYPE W04	
NOT FOR CONSTRUCTION			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		SCALE	1:20
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE
A	TENDER ISSUE	DWM	EDAW	25 Oct 18		
					DWG No.	1007467.3000-353
					REV	A

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. REFER TO OTHERS DRAWING AND SPECIFICATION FOR FINISHING DETAILS
 3. CONCRETE STRENGTH TO BE $f_{ck} = 30MPa @ 28 DAYS$
 4. REINFORCING SHALL BE GRADE 500E MPA
 5. REFER TO T+T SPECIFICATION FOR CONCRETE MIX REQUIREMENTS
 6. CONCRETE COVER TO WALL = 50mm FOOTING = 75mm UNLESS NOTED OTHERWISE
 7. ALL STAINLESS STEEL TO BE GRADE 316



PLAN SECTION - TYPICAL LAKE WALL CORNER JOINT ARRANGEMENT
SCALE: 1:10

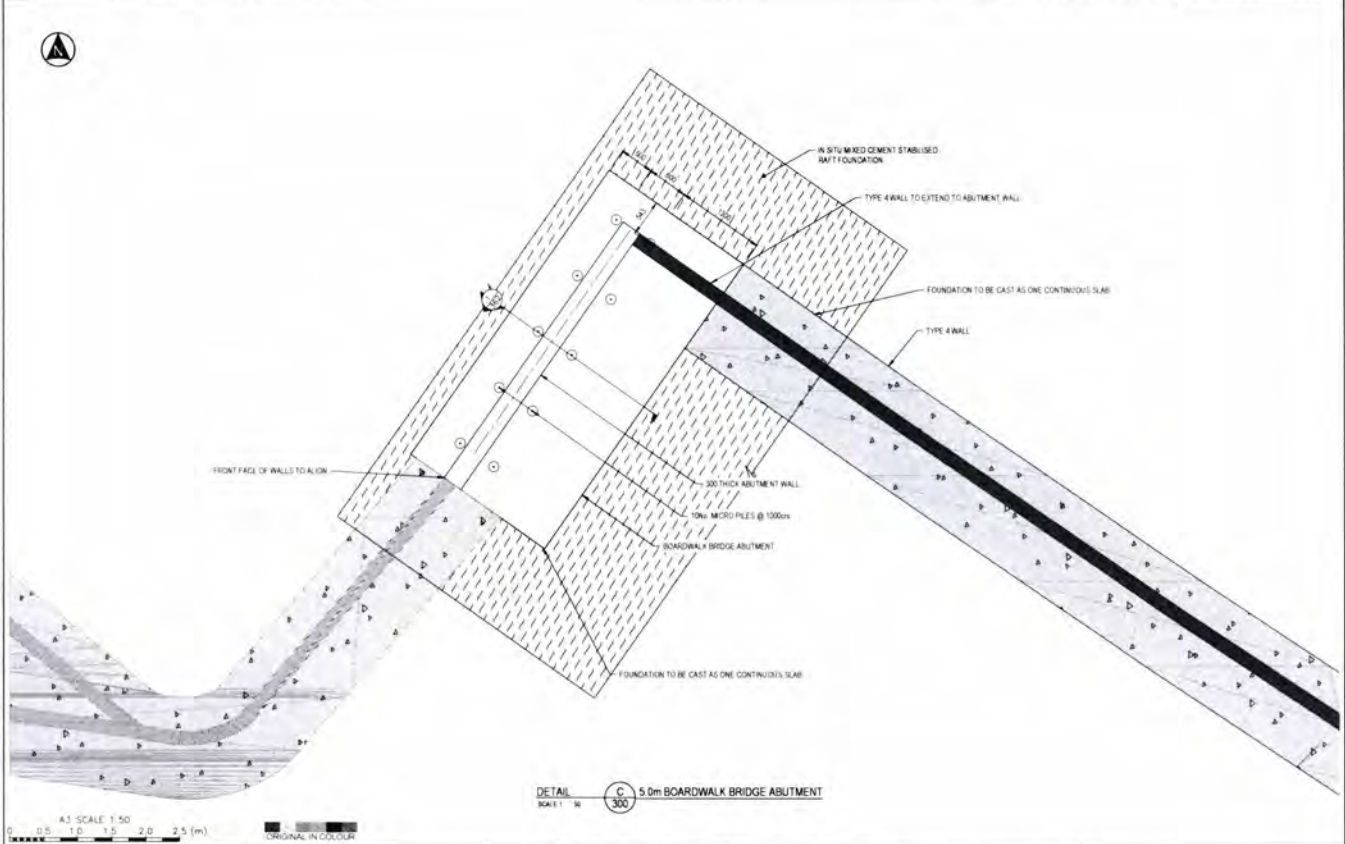


DETAIL A PANEL VERTICAL JOINT
SCALE: 1:10



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DESIGNED	HSN	1 Feb 18	DRAWING STATUS	TENDER ISSUE	CLIENT	ROTORUA LAKES COUNCIL
DRAWN	DWM	1 Feb 18			PROJECT	ROTORUA LAKEFRONT DEVELOPMENT
DESIGN CHECKED	LJP	25 Oct 18			TITLE	LAKEWALL DESIGN
DRAWING CHECKED	EDAW	25 Oct 18			SECTION AND DETAIL	
NOT FOR CONSTRUCTION			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		SCALE	1:10
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE
A	TENDER ISSUE	DWM	EDAW	25 Oct 18		
					DWG No.	1007467.3000-354
					REV	A

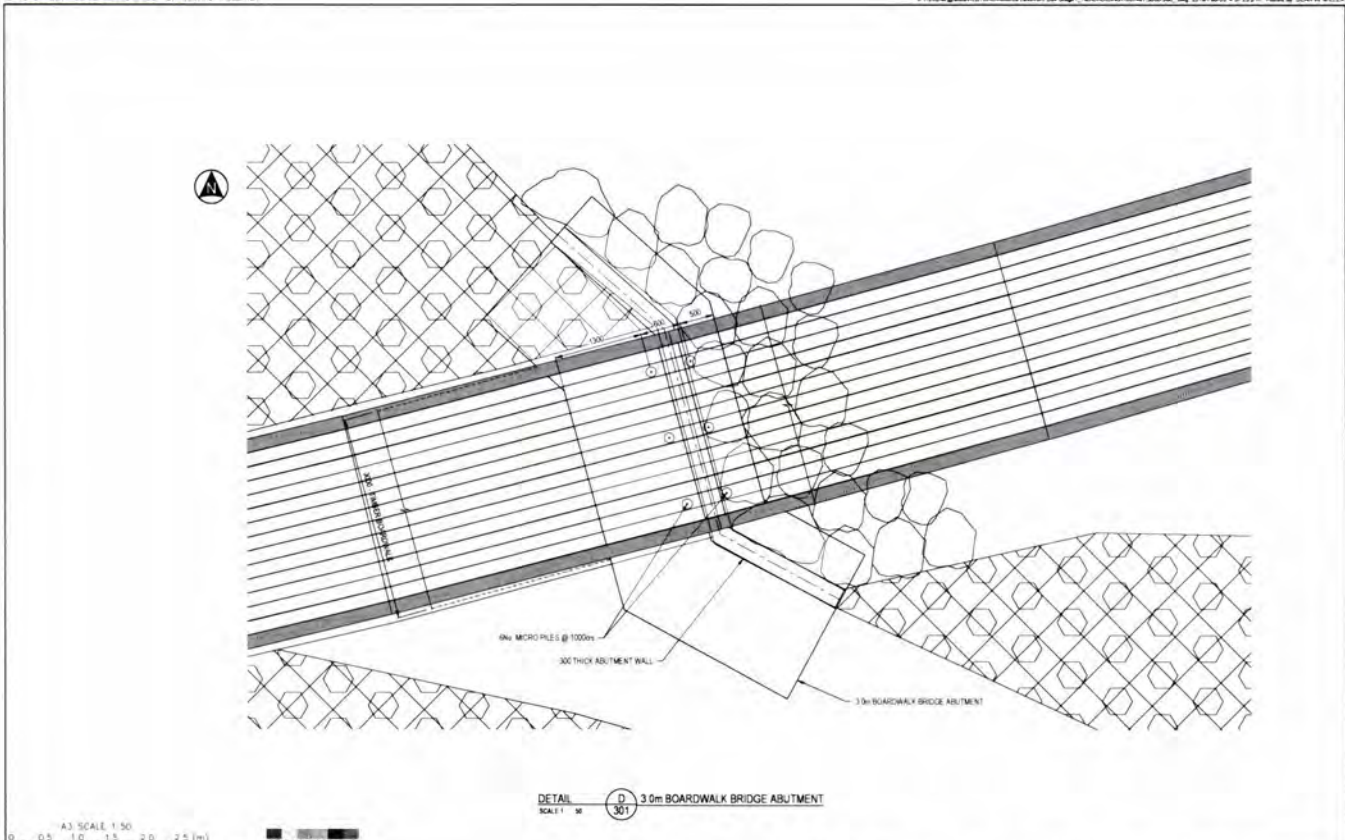


DETAIL C 5.0m BOARDWALK BRIDGE ABUTMENT
SCALE 1:30

A3 SCALE 1:50
0 0.5 1.0 1.5 2.0 2.5 (m)
ORIGINAL IN COLOUR

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DESIGNED	HSAL	Feb 19	DRAWING STATUS	TENDER ISSUE	CLIENT	ROTORUA LAKES COUNCIL
DRAWN	DWM	Feb 19	TENDER ISSUE		PROJECT	ROTORUA LAKEFRONT DEVELOPMENT
DESIGN CHECKED	LDP	05/02/19	TENDER ISSUE		TITLE	ABUTMENT DESIGN
DRAWING CHECKED	CDAV	05/02/19	TENDER ISSUE		TITLE	PLAN - 5.0m BOARDWALK SOUTH EAST ABUTMENT
NOT FOR CONSTRUCTION			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		SCALE (A3)	1:50
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE
A	TENDER ISSUE	DWM	CDAV	05/02/19		
					DWG No	1007467 3000-362
					REV	A



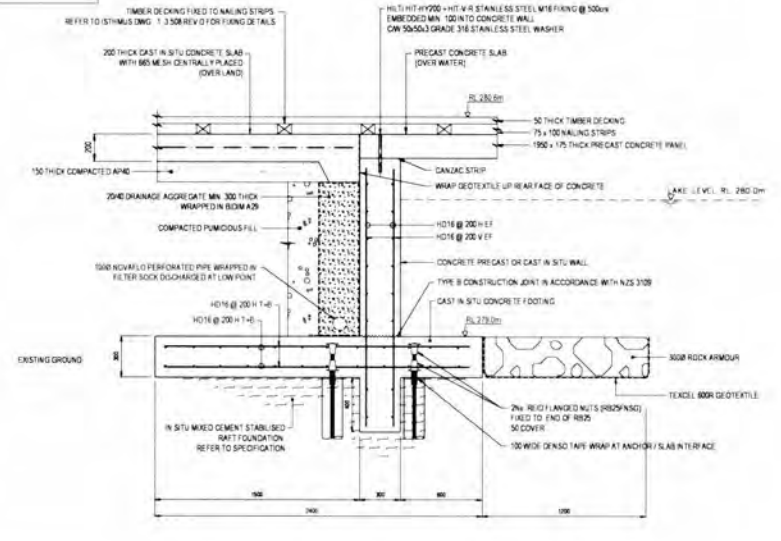
DETAIL D 3.0m BOARDWALK BRIDGE ABUTMENT
SCALE 1:30

A3 SCALE 1:50
0 0.5 1.0 1.5 2.0 2.5 (m)
ORIGINAL IN COLOUR

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DESIGNED	HSAL	Feb 19	DRAWING STATUS	TENDER ISSUE	CLIENT	ROTORUA LAKES COUNCIL
DRAWN	DWM	Feb 19	TENDER ISSUE		PROJECT	ROTORUA LAKEFRONT DEVELOPMENT
DESIGN CHECKED	LDP	05/02/19	TENDER ISSUE		TITLE	ABUTMENT DESIGN
DRAWING CHECKED	CDAV	05/02/19	TENDER ISSUE		TITLE	PLAN - 3.0m BOARDWALK ABUTMENT
NOT FOR CONSTRUCTION			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		SCALE (A3)	1:50
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE
A	TENDER ISSUE	DWM	CDAV	05/02/19		
					DWG No	1007467 3000-363
					REV	A

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. SECTIONS DO NOT ILLUSTRATE FINAL FORM OF CONCRETE. REFER TO 3D MODEL FOR FACED FORM OF PRECAST PANELS, HEADSTOCK AND PIERS.
 3. THE CONTRACTOR SHALL DESIGN THE PRESTRESSED PRECAST CONCRETE SLAB IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - a. MEET REQUIREMENTS OF NZS 3101:1 2006
 - b. LIVE LOAD 10kN/m²
 - c. WAVE LOAD (UPLIFT AND DOWNWARD PRESSURE)
 - 5kN/BOARDWALK, 3kN/BOARDWALK, 2kN/TUKUTUKU BRIDGE + 22 kPa
 - 1.0m TUKUTUKU BRIDGE + 27 kPa
 - d. HORIZONTAL SEISMIC ACTION COEFFICIENT (G₁) = 0.72
 - e. CHEMICAL EXPOSURE CLASSIFICATION (A4) (NZS 3101:1 2006)
 4. PRESTRESSED PRECAST CONCRETE SLAB DESIGNER SHALL USE WITH T+T FOR DESIGN ACTIONS INDUCED BY CONNECTIONS:
 - a. PROVIDE A PROPOSER STATEMENT (DESIGN (PS)1) FOR THE PRESTRESSED PRECAST CONCRETE SLAB DESIGN
 5. PRESTRESSED PRECAST CONCRETE SLAB FINISHES REFER TO ARCHITECTURAL DRAWINGS
 6. CONCRETE STRENGTH TO BE $f_{cu} > 50$ MPa @ 28 DAYS
 7. REINFORCING SHALL BE GRADE 500E MA
 8. REFER TO T+T SPECIFICATION FOR CONCRETE MIX REQUIREMENTS
 9. CONCRETE COVER TO BE 50mm UNLESS NOTED OTHERWISE
 10. ALL STAINLESS STEEL TO BE GRADE 316



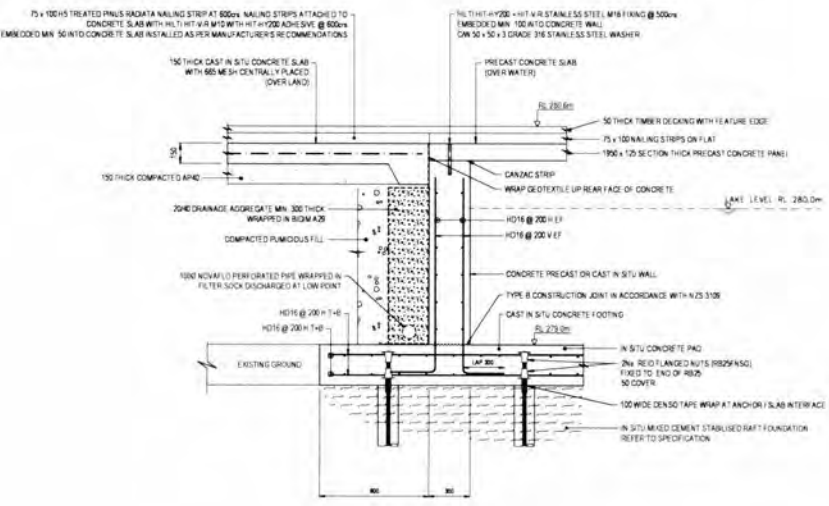
SECTION 1 BOARDWALK BRIDGE ABUTMENT
SCALE 1:25



DESIGNED	HSL	Feb 19	DRAWING STATUS	TENDER ISSUE
DESIGN CHECKED	DWM	Feb 19	DESIGNED BY	DWM
DRAWING CHECKED	CDW	05.02.19	DESIGNED DATE	05.02.19
NOT FOR CONSTRUCTION		THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SO INDICATED AS APPROVED		

CLIENT	ROTORUA LAKES COUNCIL
PROJECT	ROTORUA LAKEFRONT DEVELOPMENT
TITLE	ABUTMENT DESIGN
	TYPICAL SECTION - BOARDWALK ABUTMENT
SCALE (A3)	1:25
DWG No.	1007467.3000-364
REV	A

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. SECTIONS DO NOT ILLUSTRATE FINAL FORM OF CONCRETE. REFER TO 3D MODEL FOR FACED FORM OF PRECAST PANELS, HEADSTOCK AND PIERS.
 3. THE CONTRACTOR SHALL DESIGN THE PRESTRESSED PRECAST CONCRETE SLAB IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - a. MEET REQUIREMENTS OF NZS 3101:1 2006
 - b. LIVE LOAD 10kN/m²
 - c. WAVE LOAD (UPLIFT AND DOWNWARD PRESSURE)
 - 5kN/BOARDWALK, 3kN/BOARDWALK, 2kN/TUKUTUKU BRIDGE + 22 kPa
 - 1.0m TUKUTUKU BRIDGE + 27 kPa
 - d. HORIZONTAL SEISMIC ACTION COEFFICIENT (G₁) = 0.72
 - e. CHEMICAL EXPOSURE CLASSIFICATION (A4) (NZS 3101:1 2006)
 4. PRESTRESSED PRECAST CONCRETE SLAB DESIGNER SHALL USE WITH T+T FOR DESIGN ACTIONS INDUCED BY CONNECTIONS:
 - a. PROVIDE A PROPOSER STATEMENT (DESIGN (PS)1) FOR THE PRESTRESSED PRECAST CONCRETE SLAB DESIGN
 5. PRESTRESSED PRECAST CONCRETE SLAB FINISHES REFER TO ARCHITECTURAL DRAWINGS
 6. CONCRETE STRENGTH TO BE $f_{cu} > 50$ MPa @ 28 DAYS
 7. REINFORCING SHALL BE GRADE 500E MA
 8. REFER TO T+T SPECIFICATION FOR CONCRETE MIX REQUIREMENTS
 9. CONCRETE COVER TO BE 50mm UNLESS NOTED OTHERWISE
 10. ALL STAINLESS STEEL TO BE GRADE 316

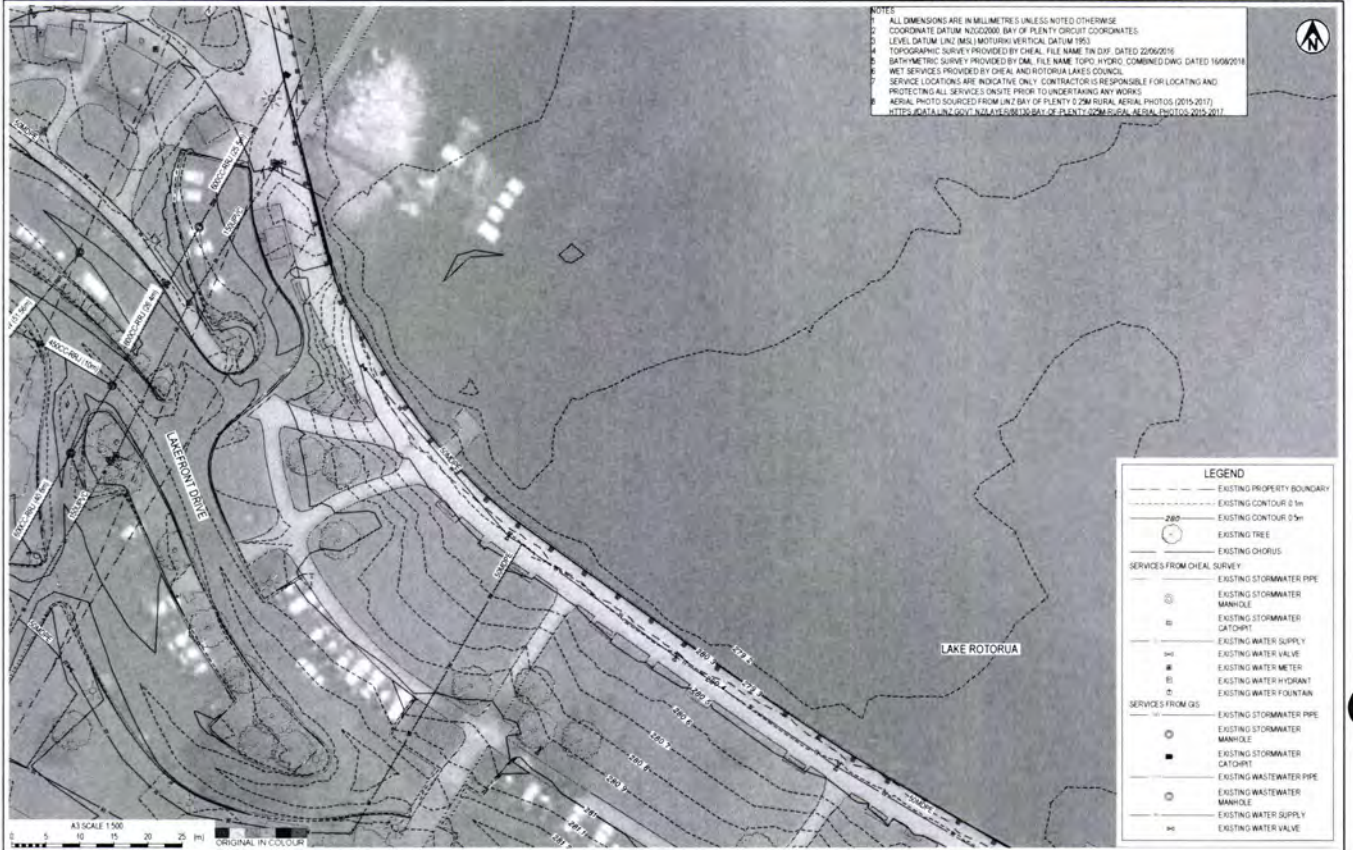


SECTION 2 TUKUTUKU BRIDGE ABUTMENTS
SCALE 1:25



DESIGNED	HSL	Feb 19	DRAWING STATUS	TENDER ISSUE
DESIGN CHECKED	DWM	Feb 19	DESIGNED BY	DWM
DRAWING CHECKED	CDW	05.02.19	DESIGNED DATE	05.02.19
NOT FOR CONSTRUCTION		THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SO INDICATED AS APPROVED		

CLIENT	ROTORUA LAKES COUNCIL
PROJECT	ROTORUA LAKEFRONT DEVELOPMENT
TITLE	ABUTMENT DESIGN
	TYPICAL SECTION - TUKUTUKU BRIDGE ABUTMENT
SCALE (A3)	1:25
DWG No.	1007467.3000-365
REV	A



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2. COORDINATE DATUM NZGD2000, BAY OF PLENTY CIRCUIT COORDINATES
3. LEVEL DATUM LINZ (MILITARY) VERTICAL DATUM 1985
4. TOPOGRAPHIC SURVEY PROVIDED BY CHEAL, FILE NAME TIN.DXF, DATED 2006/02/16
5. BATHYMETRIC SURVEY PROVIDED BY DMG, FILE NAME TOPO_HYDRO_COMBINED.DWG, DATED 16/09/2018
6. WET SERVICES PROVIDED BY CHEAL AND ROTORUA LAKES COUNCIL
7. SERVICE LOCATIONS ARE INDICATIVE ONLY. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL SERVICES ON SITE PRIOR TO UNDERTAKING ANY WORKS.
8. AERIAL PHOTO SOURCED FROM LINZ BAY OF PLENTY 0.2M AERIAL PHOTOS (2015,2017)
9. HTTP://DATA.LINZ.GOVT/NZ/LAYERS/888136/BAY-OF-PLENTY-0.2M-AERIAL-IMG105-2015-2017

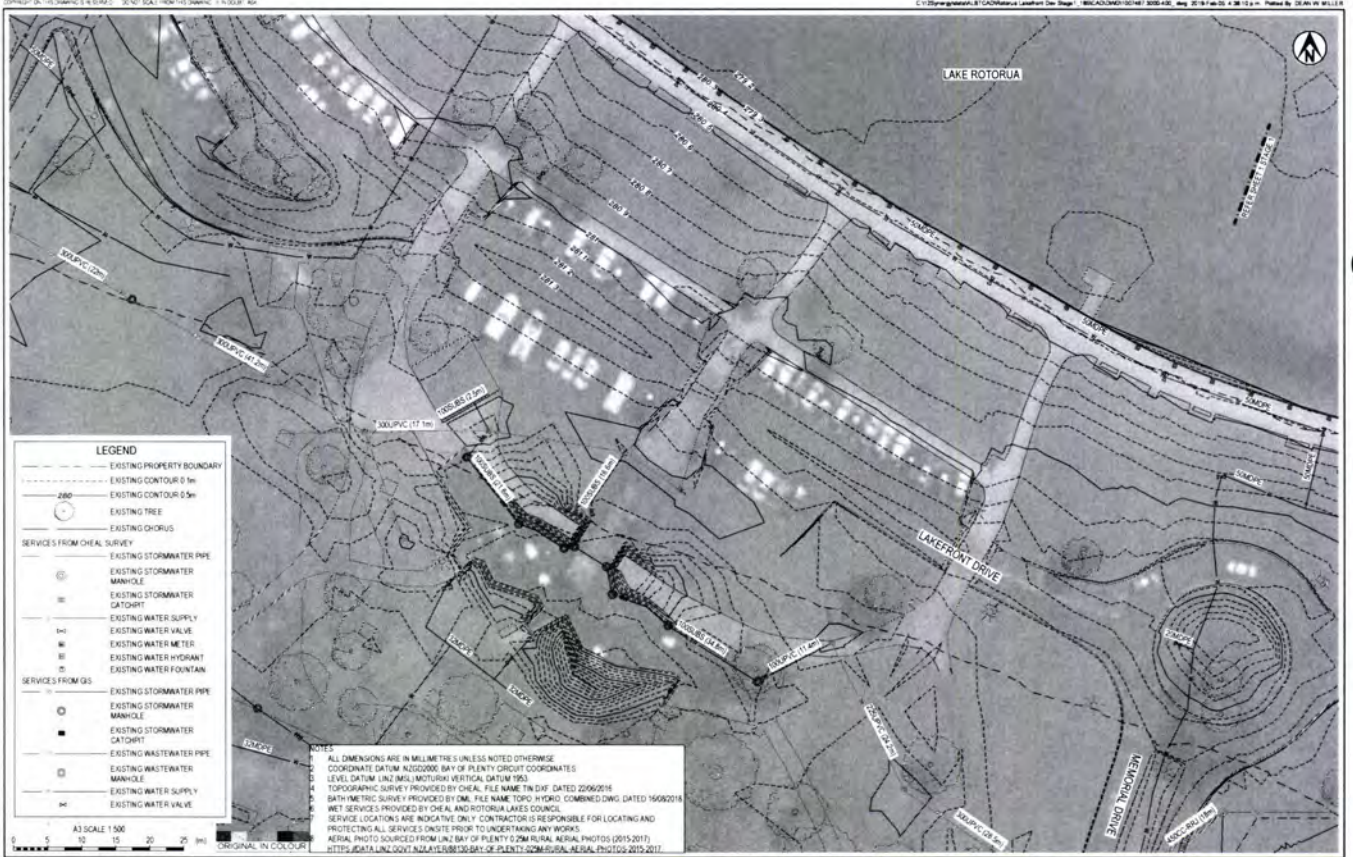
LEGEND

- EXISTING PROPERTY BOUNDARY
- - - EXISTING CONTOUR 0.5m
- - - EXISTING CONTOUR 0.5m
- EXISTING TREE
- EXISTING CHORUS
- SERVICES FROM CHEAL SURVEY
- EXISTING STORMWATER PIPE
- EXISTING STORMWATER MANHOLE
- EXISTING STORMWATER CATCHPI
- EXISTING WATER SUPPLY
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING WATER HYDRANT
- EXISTING WATER FOUNTAIN
- SERVICES FROM GIS
- EXISTING STORMWATER PIPE
- EXISTING STORMWATER MANHOLE
- EXISTING STORMWATER CATCHPI
- EXISTING WASTEWATER PIPE
- EXISTING WASTEWATER MANHOLE
- EXISTING WATER SUPPLY
- EXISTING WATER VALVE

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DESIGNED	DWS	1 Feb 19	DRAWING STATUS	TENDER ISSUE
DRAWN	BLI	1 Feb 19		
DESIGN CHECKED	LDP	25 Dec 19		
DRAWING CHECKED	CDM	25 Dec 19		
A TENDER ISSUE		25 Dec 19	NOT FOR CONSTRUCTION	
			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED	

CLIENT	ROTORUA LAKES COUNCIL
PROJECT	ROTORUA LAKEFRONT DEVELOPMENT
TITLE	SERVICE PLANS
	EXISTING SERVICES - SHEET 1 OF 4
SCALE (A3)	1:500
DWG No.	1007467 3000-400
REV	A



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2. COORDINATE DATUM NZGD2000, BAY OF PLENTY CIRCUIT COORDINATES
3. LEVEL DATUM LINZ (MILITARY) VERTICAL DATUM 1985
4. TOPOGRAPHIC SURVEY PROVIDED BY CHEAL, FILE NAME TIN.DXF, DATED 2006/02/16
5. BATHYMETRIC SURVEY PROVIDED BY DMG, FILE NAME TOPO_HYDRO_COMBINED.DWG, DATED 16/09/2018
6. WET SERVICES PROVIDED BY CHEAL AND ROTORUA LAKES COUNCIL
7. SERVICE LOCATIONS ARE INDICATIVE ONLY. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL SERVICES ON SITE PRIOR TO UNDERTAKING ANY WORKS.
8. AERIAL PHOTO SOURCED FROM LINZ BAY OF PLENTY 0.2M AERIAL PHOTOS (2015,2017)
9. HTTP://DATA.LINZ.GOVT/NZ/LAYERS/888136/BAY-OF-PLENTY-0.2M-AERIAL-IMG105-2015-2017

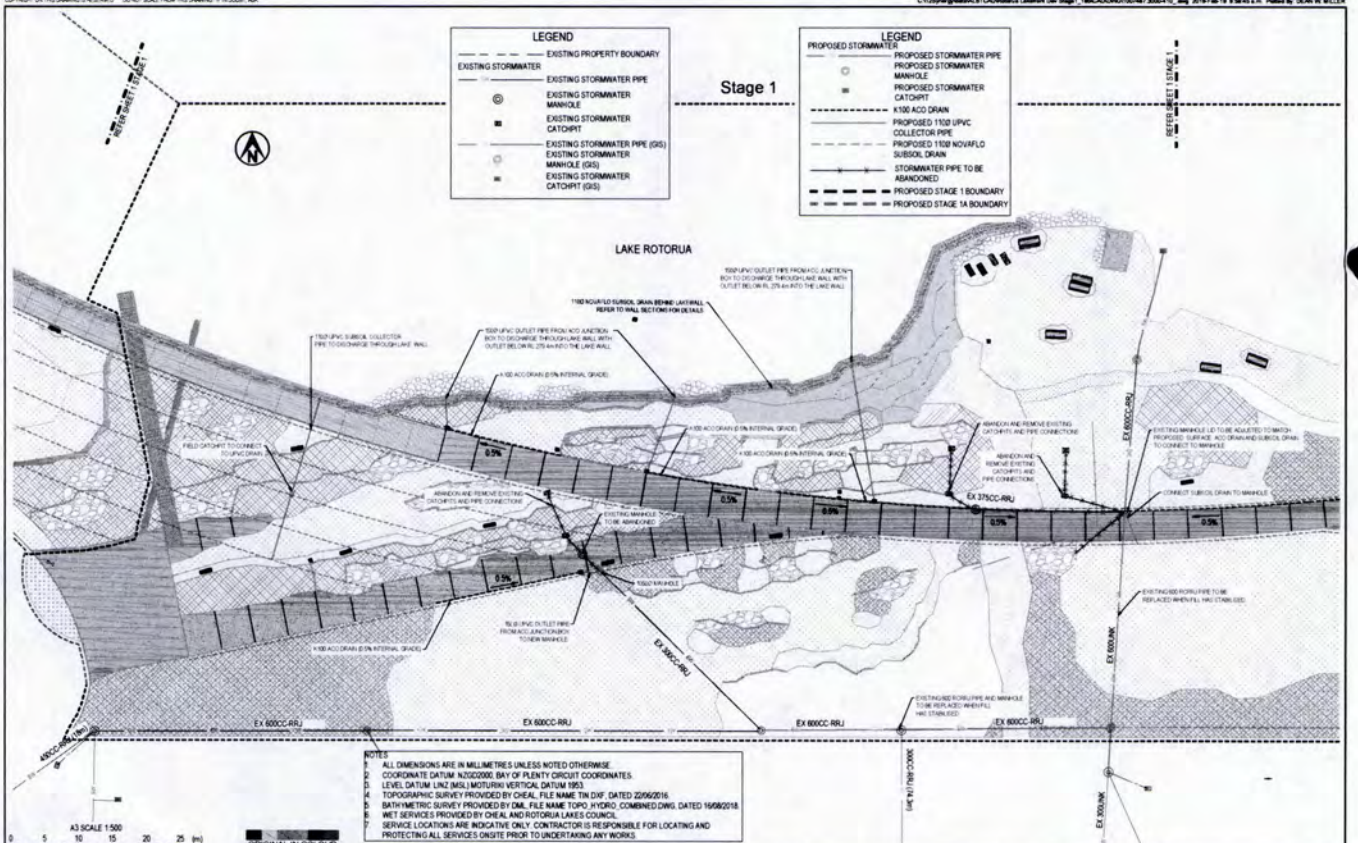
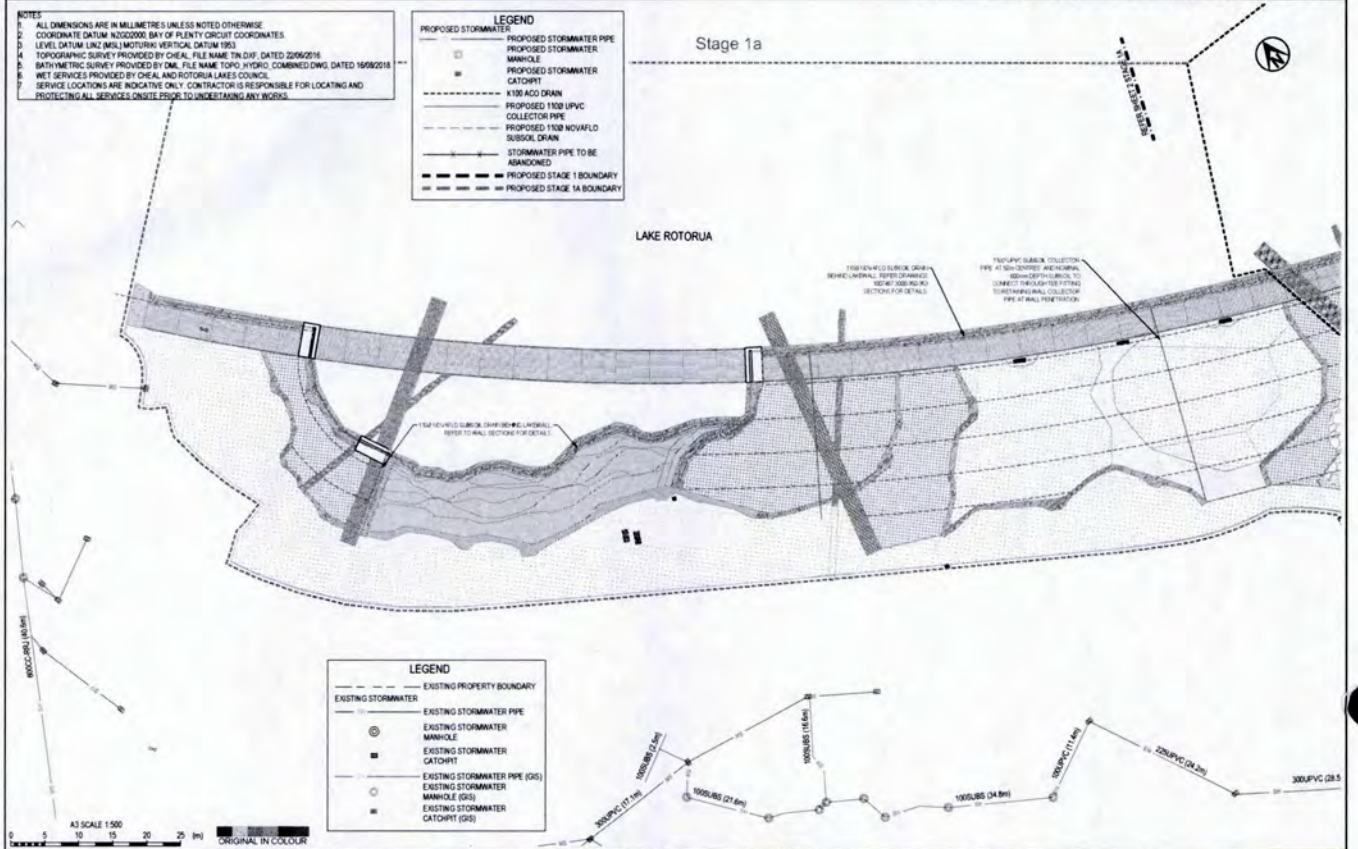
LEGEND

- EXISTING PROPERTY BOUNDARY
- - - EXISTING CONTOUR 0.5m
- - - EXISTING CONTOUR 0.5m
- EXISTING TREE
- EXISTING CHORUS
- SERVICES FROM CHEAL SURVEY
- EXISTING STORMWATER PIPE
- EXISTING STORMWATER MANHOLE
- EXISTING STORMWATER CATCHPI
- EXISTING WATER SUPPLY
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING WATER HYDRANT
- EXISTING WATER FOUNTAIN
- SERVICES FROM GIS
- EXISTING STORMWATER PIPE
- EXISTING STORMWATER MANHOLE
- EXISTING STORMWATER CATCHPI
- EXISTING WASTEWATER PIPE
- EXISTING WASTEWATER MANHOLE
- EXISTING WATER SUPPLY
- EXISTING WATER VALVE

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DESIGNED	DWS	1 Feb 19	DRAWING STATUS	TENDER ISSUE
DRAWN	BLI	1 Feb 19		
DESIGN CHECKED	LDP	25 Dec 19		
DRAWING CHECKED	CDM	25 Dec 19		
A TENDER ISSUE		25 Dec 19	NOT FOR CONSTRUCTION	
			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED	

CLIENT	ROTORUA LAKES COUNCIL
PROJECT	ROTORUA LAKEFRONT DEVELOPMENT
TITLE	SERVICE PLANS
	EXISTING SERVICES - SHEET 2 OF 4
SCALE (A3)	1:500
DWG No.	1007467 3000-401
REV	A



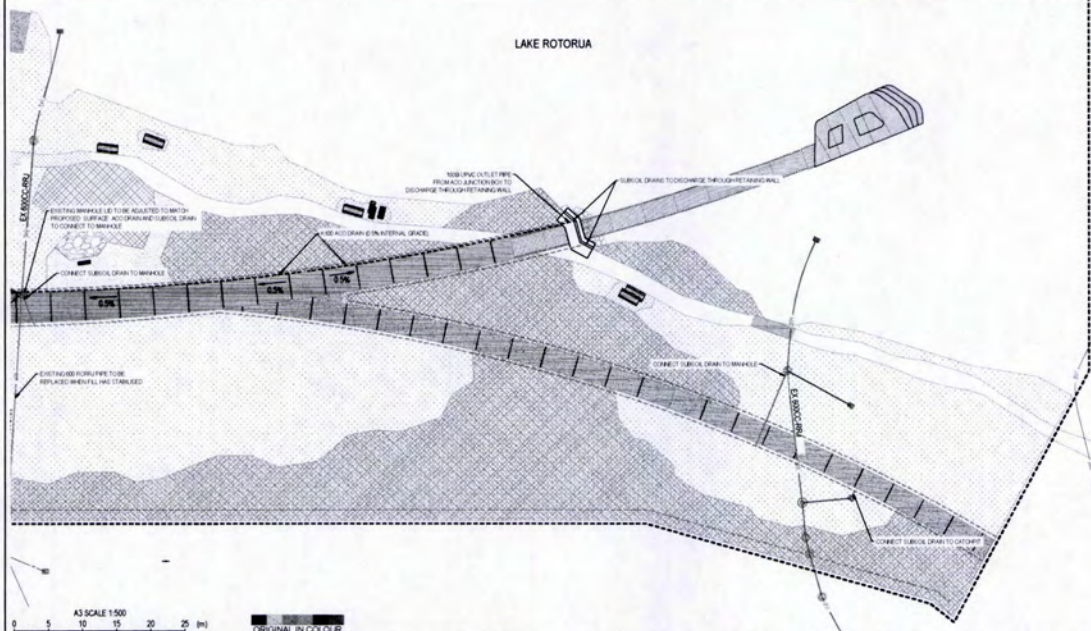
Stage 1



NOTES
 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
 2. COORDINATE DATUM NZGD2000, BAY OF PLENTY CIRCUIT COORDINATES
 3. LEVEL DATUM UNCGM (ROTORUA VERTICAL DATUM 1993)
 4. TOPOGRAPHIC SURVEY PROVIDED BY CHEAL, FILE NAME TIN.DWG, DATED 22/06/2016
 5. BATHYMETRIC SURVEY PROVIDED BY OAL, FILE NAME TOPO_HYDRO_COMBINED.DWG, DATED 16/06/2018
 6. WET SERVICES PROVIDED BY CHEAL AND ROTORUA LAKES COUNCIL
 7. SERVICE LOCATIONS ARE INDICATIVE ONLY. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL SERVICES ON SITE PRIOR TO UNDERMINING ANY WORKS.

LEGEND	
---	EXISTING PROPERTY BOUNDARY
---	EXISTING STORMWATER
---	EXISTING STORMWATER PIPE
○	EXISTING STORMWATER MANHOLE
■	EXISTING STORMWATER CATCHPI
---	EXISTING STORMWATER PIPE (DS)
○	EXISTING STORMWATER MANHOLE (DS)
■	EXISTING STORMWATER CATCHPI (DS)

LEGEND	
---	PROPOSED STORMWATER
---	PROPOSED STORMWATER PIPE
○	PROPOSED STORMWATER MANHOLE
■	PROPOSED STORMWATER CATCHPI
---	K100 AOD DRAIN
---	PROPOSED 110mm UPVC COLLECTOR PIPE
---	PROPOSED 110mm NOM/FLO SURFACE DRAIN
---	STORMWATER PIPE TO BE ABANDONED
---	PROPOSED STAGE 1 BOUNDARY
---	PROPOSED STAGE 1A BOUNDARY



A3 SCALE 1:500
 0 5 10 15 20 25 (m)
 ORIGINAL IN COLOUR

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DESIGNED DWM	DRAWN DDAL	Feb 19	DRAWING STATUS TENDER ISSUE	CLIENT ROTORUA LAKES COUNCIL
				PROJECT ROTORUA LAKEFRONT DEVELOPMENT
DESIGN CHECKED LDP	Feb 19	05.02.19	NOT FOR CONSTRUCTION	TITLE PROPOSED STORMWATER LAYOUT STAGE 1 - SHEET 2 OF 2
DRAWING CHECKED CDAY	Feb 19	05.02.19		SCALE (AS) 1:500
DWM	CDAY	05.02.19	THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED	DWG No 1007467.3000-412
DWM	CDAY	19.02.19		REV B



**ROTORUA
LAKES COUNCIL**
Whānau Ora | Whānau Ora

Link to Tenderlink Click to view

RFP for Selection Cataloguing Processing and Supply of Collections to

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Download Tender Addendum for Notice #RDC-847054

The documents showing below are available for download. Should any future addendum notices be issued, these will be notified to you automatically once you have downloaded the original documentation. The documents available here are for information purposes only.

This addendum contains the following 3 file(s), which can be downloaded individually by clicking on the file name (You may need to right click the file and select "Save Target As" to save it to your own computer, rather than view it online.)

- 2019.02.21_SEG_Rotorua Lakefront_Electrical Drawings.pdf (24.79 MB)
- 2019.02.21_SEG_Rotorua Lakefront_SEG Document Transmittal.pdf (139 KB)
- 2019.02.21_SEG_Rotorua Lakefront_Electrical Specification.pdf (353 KB)

Alternatively you can download all the documents relating to this tender in one zip file, by clicking the file name below:

- RDC-847054.zip (181.8 MB)

If for any reason you have difficulty downloading these documents, please contact our Customer Services staff.

Tender Addendum TENDER[RDC-847054]

Rotorua Lakes Council
E-Tendering System

Notice Type :	Request for Tender
Reference :	TenderLink Number RDC-847054
Summary :	RFT for Contract 18/029 - Rotorua Lakefront Development - Construction

NOTICE TO TENDERERS :

Rotorua Lakes Council wish to advise that a notice to tenderers (NTT) has been issued for the above tender. Please pay particular attention to any requirements stated within this NTT.

The following reason has been given for the addendum :

"SEG Electrical Layout Drawings and Electrical Specification which form part of the RFT documents."

The following document(s) have been added to the tender and should be obtained using the link below:

- 2019.02.21_SEG_Rotorua Lakefront_Electrical Drawings.pdf
- 2019.02.21_SEG_Rotorua Lakefront_SEG Document Transmittal.pdf
- 2019.02.21_SEG_Rotorua Lakefront_Electrical Specification.pdf

» Download Addendum

If you do not intend submitting a response for this contract you can cancel further NTT notifications to you by clicking [here](#).

This notice was published by:

Rotorua Lakes Council
Private Bag 3029
Rotorua Mail Centre
ROTORUA 3046
NEW ZEALAND

The above procuring party (Purchaser) has published an addendum notice for this tender. Addendum notices are issued where changes or additions to the original documentation is released. Because you have previously downloaded documentation online for this tender the addendum has been sent to you.

Have a nice day!

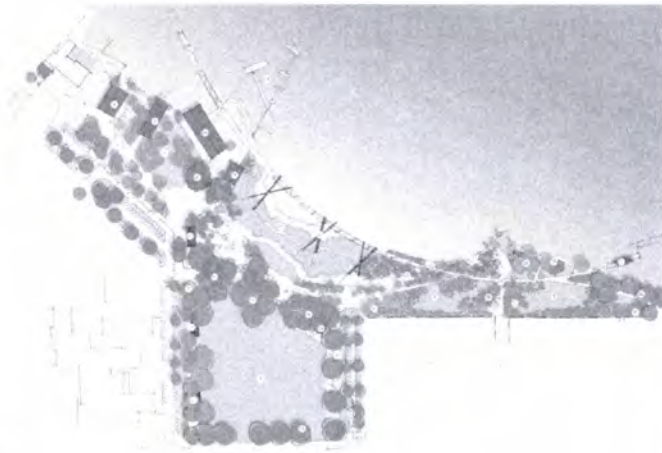
If you are not interested in responding to this opportunity and wish to stop email communications to you, please click the link below:

[STOP EMAIL COMMUNICATIONS](#)

Sincerely
Customer Services

Rotorua Lakefront

Rotorua CBD



Electrical Layout Drawings

Tender
Not for Construction

Sheet List Electrical		
Sheet Number	Sheet Name	Current Number
E00	Electrical Title Sheet	
E01	Luminaire Schedules	
E02	Lighting Schedules	
E03	Planbook Schematics	
E04	Lighting Overview	
E05	Stage 1 Overview	
E06	Stage 1A Overview	
E07	Electrical Stage One 1 of 3	
E08	Electrical Stage One 2 of 3	
E09	Electrical Stage One 3 of 3	
E10	Electrical Stage 1A 1 of 2	
E11	Electrical Stage 1A 2 of 2	
E12	Electrical Future Stages 1 of 3	
E13	Electrical Future Stages 2 of 3	
E14	Electrical Future Stages 3 of 3	

General Note:
Drawing not for construction purposes.
Only to be used for tendering.

Rev	Description	Date

PROJECT OF RECORD
Tender

CLIENT NAME
SEG CONSULTING ENGINEERS

PROJECT
Rotorua Lakefront

FILE
Electrical Title Sheet

CLIENT
Rotorua Lakes Council

DESIGNED BY
BW

REVISIONS BY
BW

DATE
21/02/2019

PROJECT NUMBER
518-037

PROJECT NUMBER
518-037-E00

SCALE

27/02/2019 15:07:03 AM

Luminaire parts list									
Index	Manufacturer	Luminaire type	Item number	Fitting	Luminous flux	Light loss factor	Connected load	Mounting height	Quantity
P1	AEC ILLUMINAZIONE SRL	MOD 2.0 URBAN 200 072H 505 3 7 2M	MOD 2.0 URBAN 200 072H 505 3 7 2M	Tv. MOD 072H1 3000 705 2M 70 25	4380 lm	0.83	36 W	6200mm	21

CL 3000 120 3000V
MOD 2.0 URBAN 200
200 x 80
Larghezza (Width - Largeur) 200mm
Altezza (Height - Hauteur) 80mm



Luminaire parts list									
Index	Manufacturer	Article name	Item number	Fitting	Luminous flux	Light loss factor	Connected load	Quantity	
S1	BRIGHT LIGHT	12W 24V NEDA ARC WARM WHITE LED	BL 164890 27	60W/550 3000K IP65 DIMMABLE	420 lm	0.75	13 Wm	535m	
S1 Alternative	ACCLAM (IMPRESSIONS LIGHTING)	FLEX TUBE SE BC 3X	FLEX TUBE SE BC 3000K 24V DC	3000K IP65 DIMMABLE	171 lm	0.75	3.3 Wm	535m	
R1	GHDN (IMPRESSIONS LIGHTING)	Segno Sx 41 2W Led 3K fixed 47°	1008 BOW 1	LED 3000K	225 lm	0.75	2 W	112	
R2	GHDN (IMPRESSIONS LIGHTING)	Segno Wak 43 1 1W 3K	1381 BAX 1	LED 3000K	170 lm	0.75	1.5 W	22	



General Note:
Drawing not for construction purposes.
Only to be used for tendering.

Rev	Description	Date

PROJECT OF RECORD
Tender

CLIENT NAME
SEG CONSULTING ENGINEERS

PROJECT
Rotorua Lakefront

FILE
Luminaire Schedules

CLIENT
Rotorua Lakes Council

DESIGNED BY
BW

REVISIONS BY
BW

DATE
21/02/2019

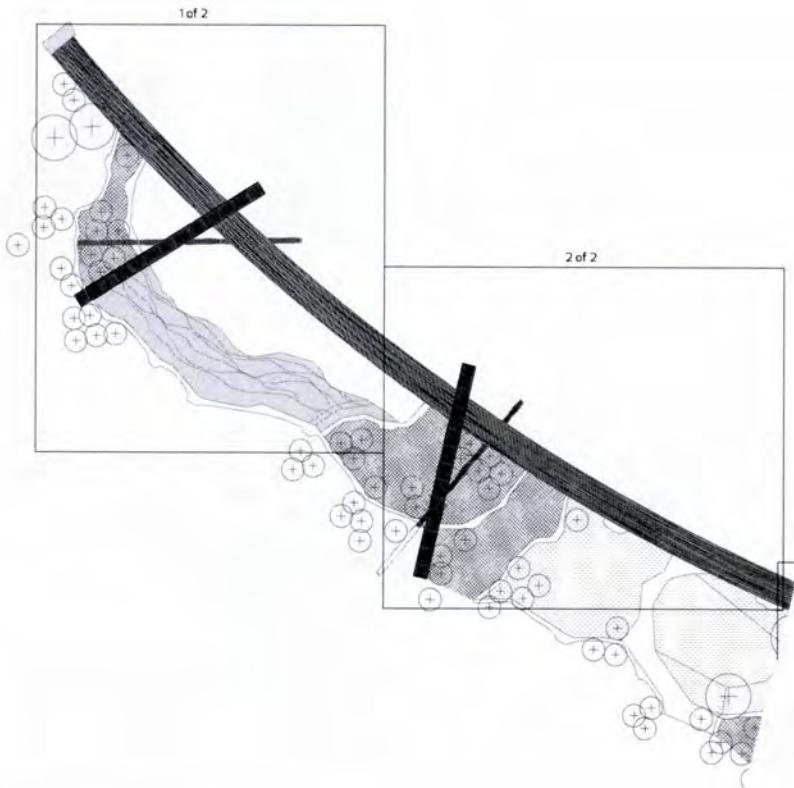
PROJECT NUMBER
518-037

PROJECT NUMBER
518-037-E01

SCALE

27/02/2019 15:07:03 AM

Stage 1A



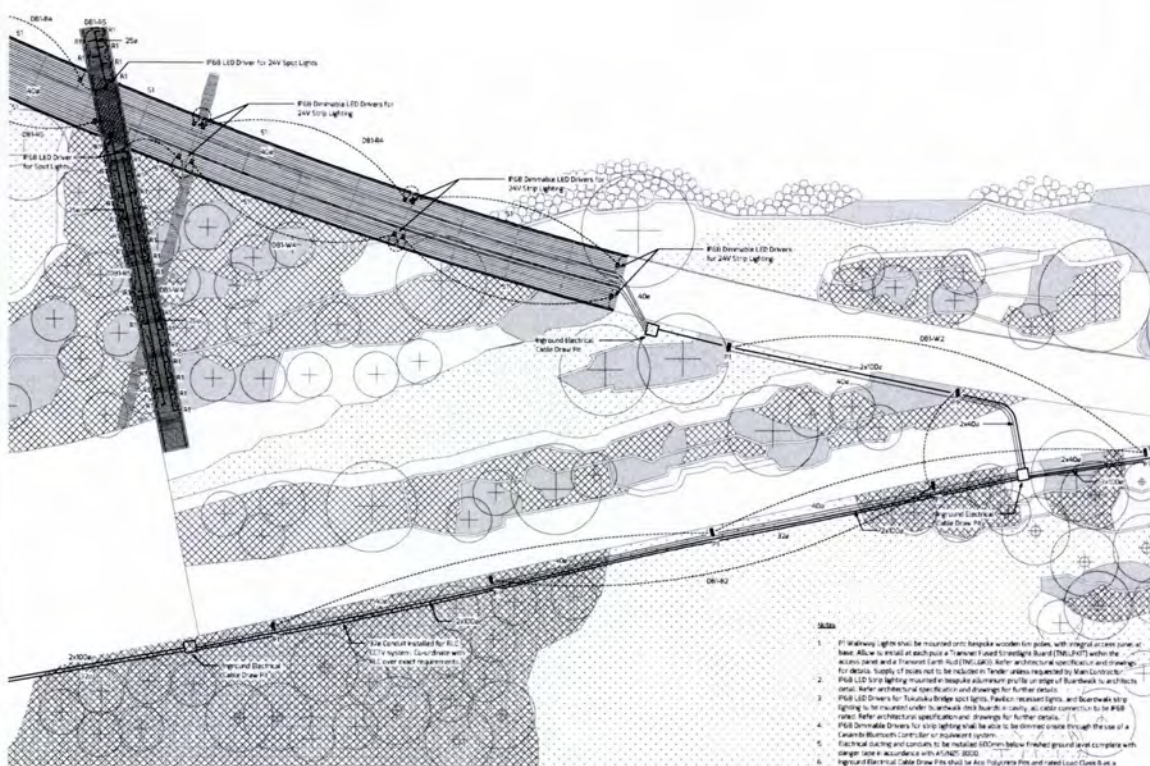
General Note:
Drawings are for information purposes only, do not scale off drawing.

Rev	Description	Date

PURPOSE OF BOOK		
Tender		
CONSULTANT		
SEG	100 EDD Lane 1, St Albans Street, Ngaruwa 3502	
PROJECT		
Rotorua Lakefront		
TITLE		
Stage 1A Overview		
CLIENT		
Rotorua Lakes Council		
DESIGNED BY	APPROVED BY	DATE
BW	BW	21.02.2019
SCALE 1:100	PROJECT NUMBER	
	518-037	
DRAWING NUMBER		REV
518-037-ED6		

21.02.2019 9:03:33 AM

General Note:
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- NOTES**
1. All walkway lights shall be mounted on timber wooden fin poles, with integral access panel at base. Allow to install at each pole a Transformer fused to safety Board (MS1407) within the access panel and a fused earth fault (ME) cable. Refer architectural specification and drawings for details. Supply of poles not to be included in Tender unless requested by Main Contractor.
 2. F58 LED strip lighting mounted in recessed aluminium profile on edge of Boardwalk in accordance. Refer architectural specification and drawings for further details.
 3. F58 LED Drivers for 24V Strip Lighting shall be installed in cabinets, all cabinet connections to be F58 rated. Refer architectural specification and drawings for further details.
 4. F58 Dimmable Drivers for Strip Lighting shall be able to be dimmed on site through the use of a Canbus Bluetooth controller or equivalent system.
 5. Electrical cabling and conduits to be installed 100mm below finished ground level complying with design code in accordance with NZS 3203.
 6. Regional Electrical Cable Draw Pits shall be installed 100mm below finished ground level in concrete. Poles shall be Section 100mm x 100mm x 100mm (L x W x H) where located in concrete. (Refer architectural specification and drawings for further details).
 7. Electrical distribution cabinets supplying lighting to F58 LED strip lighting controls. Comply with NZS 3203 system and cable location, install 100mm below finished ground level to a minimum depth of 450mm, to fall below light pole foundations. Allow to supply power to luminaires from distribution cabinets in accordance with NZS 3203. Lighting shall be by F58 strip lighting contractor.

Rev	Description	Date

PURPOSE OF BOOK		
Tender		
CONSULTANT		
SEG	100 EDD Lane 1, St Albans Street, Ngaruwa 3502	
PROJECT		
Rotorua Lakefront		
TITLE		
Electrical Stage One 1 of 3		
CLIENT		
Rotorua Lakes Council		
DESIGNED BY	APPROVED BY	DATE
BW	BW	21.02.2019
SCALE 1:100	PROJECT NUMBER	
	518-037	
DRAWING NUMBER		REV
518-037-E10		

21.02.2019 9:03:33 AM

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Rev	Description	Date

PROJECT OF RECORD
Tender

CONSULTANT
SEG CONSULTANTS LTD.
11000 146th Ave.
Edmonton, Alberta T6E 0C4

PROJECT
Rotorua Lakefront

FILE
Electrical Stage One 2 of 3

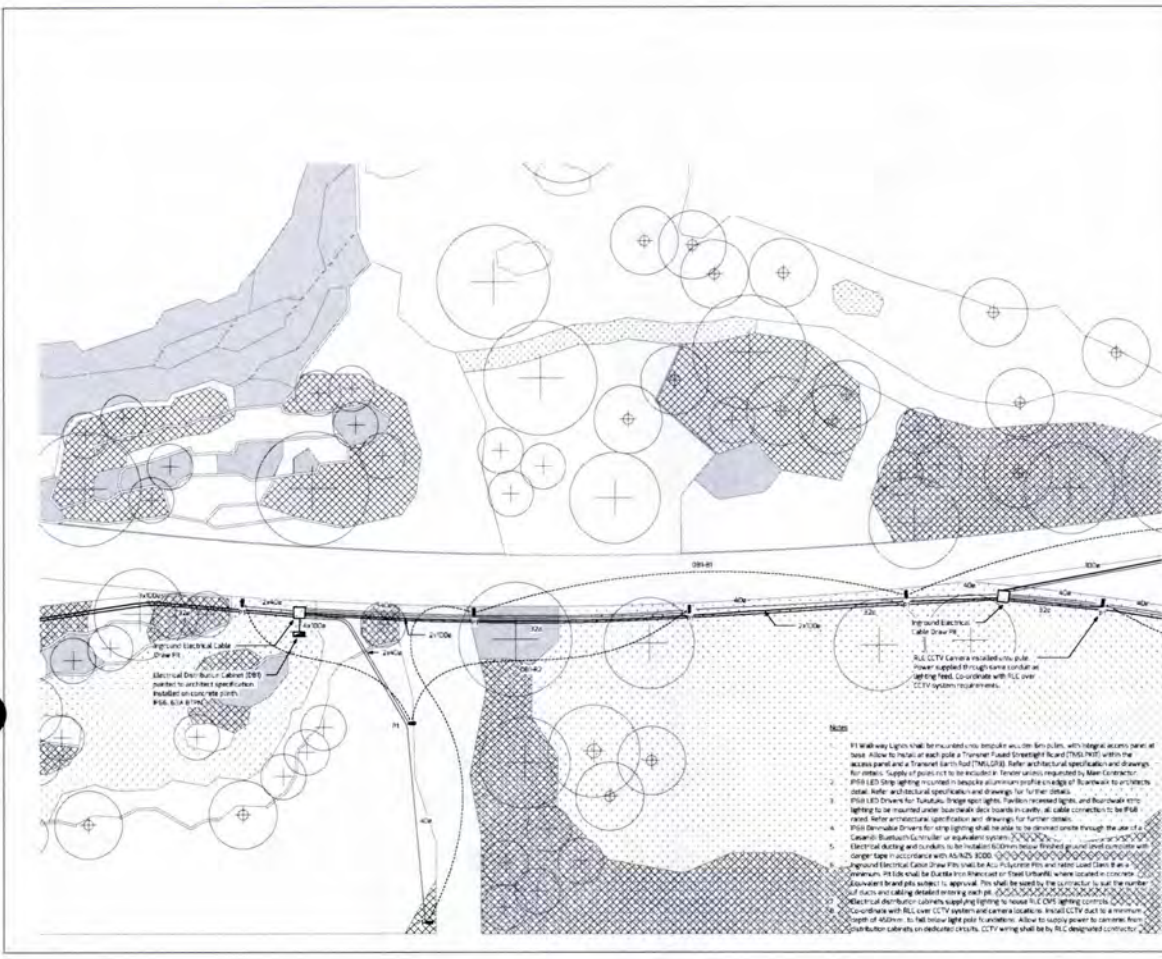
CLIENT
Rotorua Lakes Council

DRAWN BY: **BW** REVISIONS BY: **BW** DATE: 21.02.2019

TITLE (SHEET): 1.1502 PROJECT NUMBER: 518-037

DRAWING NUMBER: 518-037-E11 REV: 001

2:002019 15:03:16 AM



General Note:
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only. do not scale off drawing.

Rev	Description	Date

PROJECT OF RECORD
Tender

CONSULTANT
SEG CONSULTANTS LTD.
11000 146th Ave.
Edmonton, Alberta T6E 0C4

PROJECT
Rotorua Lakefront

FILE
Electrical Stage One 3 of 3

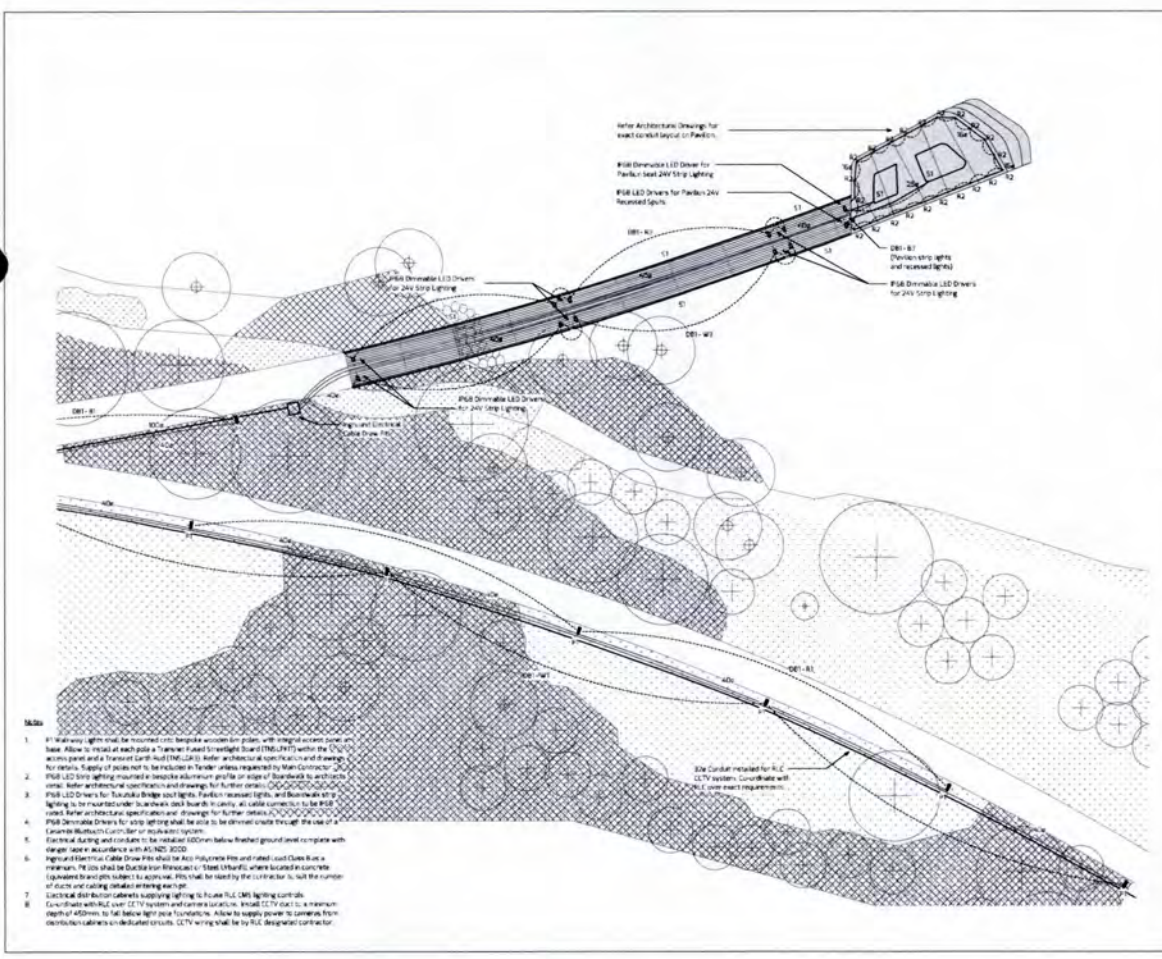
CLIENT
Rotorua Lakes Council

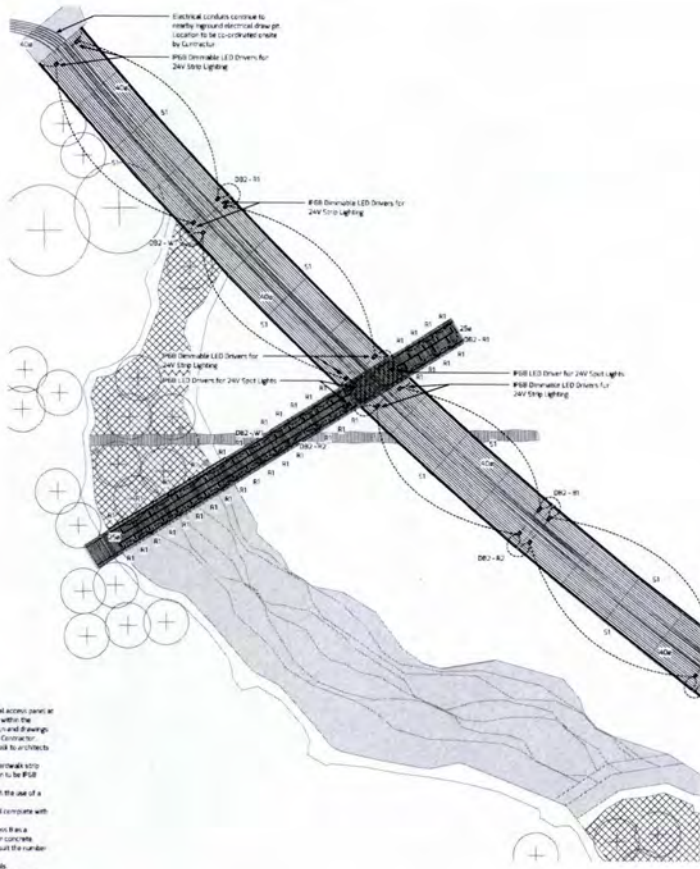
DRAWN BY: **BW** REVISIONS BY: **BW** DATE: 21.02.2019

TITLE (SHEET): 1.1502 PROJECT NUMBER: 518-037

DRAWING NUMBER: 518-037-E12 REV: 001

2:002019 15:03:17 AM





- Notes**
1. P1 Walkway Lights shall be mounted into flexible wooden fin poles, with integral access panel at base. Allow to install at each pile a Tunnel Fused Switchgear Board (TMSFVSB) within the access panel and a Tunnel Fused Switchgear Board (TMSFVSB) after architectural specification and drawing for details. Supply of poles not to be included in Tender unless requested by Main Contractor.
 2. P80 LED Strip Lighting mounted in recessed aluminium profiles on edge of Boardwalk to architect detail. Refer architectural specification and drawings for further details.
 3. P80 LED Drivers for Tunnel Bridge Spot Lights, Tunnel recessed lights, and Boardwalk strip lighting to be mounted under Boardwalk Deck Boards to carry all cable connections to be P80 LED cables. Refer architectural specification and drawings for further details.
 4. P80 Dimmable Drivers for strip lighting shall be able to be dimmed on-site through the use of a Canalis Bluetooth Controller or equivalent system.
 5. Electrical Wiring and conductors to be installed 500mm below finished ground level complete with larger size in accordance with AS/NZS 3000.
 6. In-ground Electrical Cable Draw Pits shall be PVC Polymer Fibre and rated Load Class B as a minimum. Pits shall be Backfill with Branson or Steel Meshfill where located in concrete. Equipments and pits subject to approval. Pits shall be sized by the contractor to suit the number of runs and cabling detailed on this plan.
 7. Electrical Distribution Cabinets supplying lighting to House P.C. DM's lighting controls.
 8. Coordinate with RLC over CCTV system and camera locations. Install CCTV duct to a minimum depth of 600mm, to fall below light pole foundations. Allow to supply power to cameras from Distribution Cabinets on dedicated circuits. CCTV wiring shall be by RLC designated contractor.

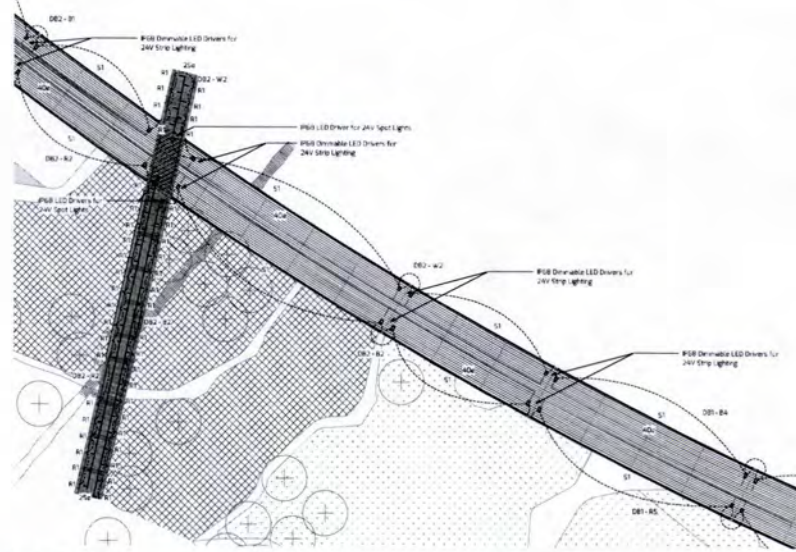
General Note
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Rev	Description	Date

PROJECT: Rotorua Lakefront

CLIENT: Rotorua Lakes Council

DESIGNED BY: BW	REVIEWED BY: BW	DATE: 21.02.2019
SCALE 1:150		PROJECT NUMBER: S1B-037
DRAWING NUMBER: 51B-037-E13		REV: 001



- Notes**
1. P1 Walkway Lights shall be mounted into flexible wooden fin poles, with integral access panel at base. Allow to install at each pile a Tunnel Fused Switchgear Board (TMSFVSB) within the access panel and a Tunnel Fused Switchgear Board (TMSFVSB) after architectural specification and drawing for details. Supply of poles not to be included in Tender unless requested by Main Contractor.
 2. P80 LED Strip Lighting mounted in recessed aluminium profiles on edge of Boardwalk to architect detail. Refer architectural specification and drawings for further details.
 3. P80 LED Drivers for Tunnel Bridge Spot Lights, Tunnel recessed lights, and Boardwalk strip lighting to be mounted under Boardwalk Deck Boards to carry all cable connections to be P80 LED cables. Refer architectural specification and drawings for further details.
 4. P80 Dimmable Drivers for strip lighting shall be able to be dimmed on-site through the use of a Canalis Bluetooth Controller or equivalent system.
 5. Electrical Wiring and conductors to be installed 500mm below finished ground level complete with larger size in accordance with AS/NZS 3000.
 6. In-ground Electrical Cable Draw Pits shall be PVC Polymer Fibre and rated Load Class B as a minimum. Pits shall be Backfill with Branson or Steel Meshfill where located in concrete. Equipments and pits subject to approval. Pits shall be sized by the contractor to suit the number of runs and cabling detailed on this plan.
 7. Electrical Distribution Cabinets supplying lighting to House P.C. DM's lighting controls.
 8. Coordinate with RLC over CCTV system and camera locations. Install CCTV duct to a minimum depth of 600mm, to fall below light pole foundations. Allow to supply power to cameras from Distribution Cabinets on dedicated circuits. CCTV wiring shall be by RLC designated contractor.

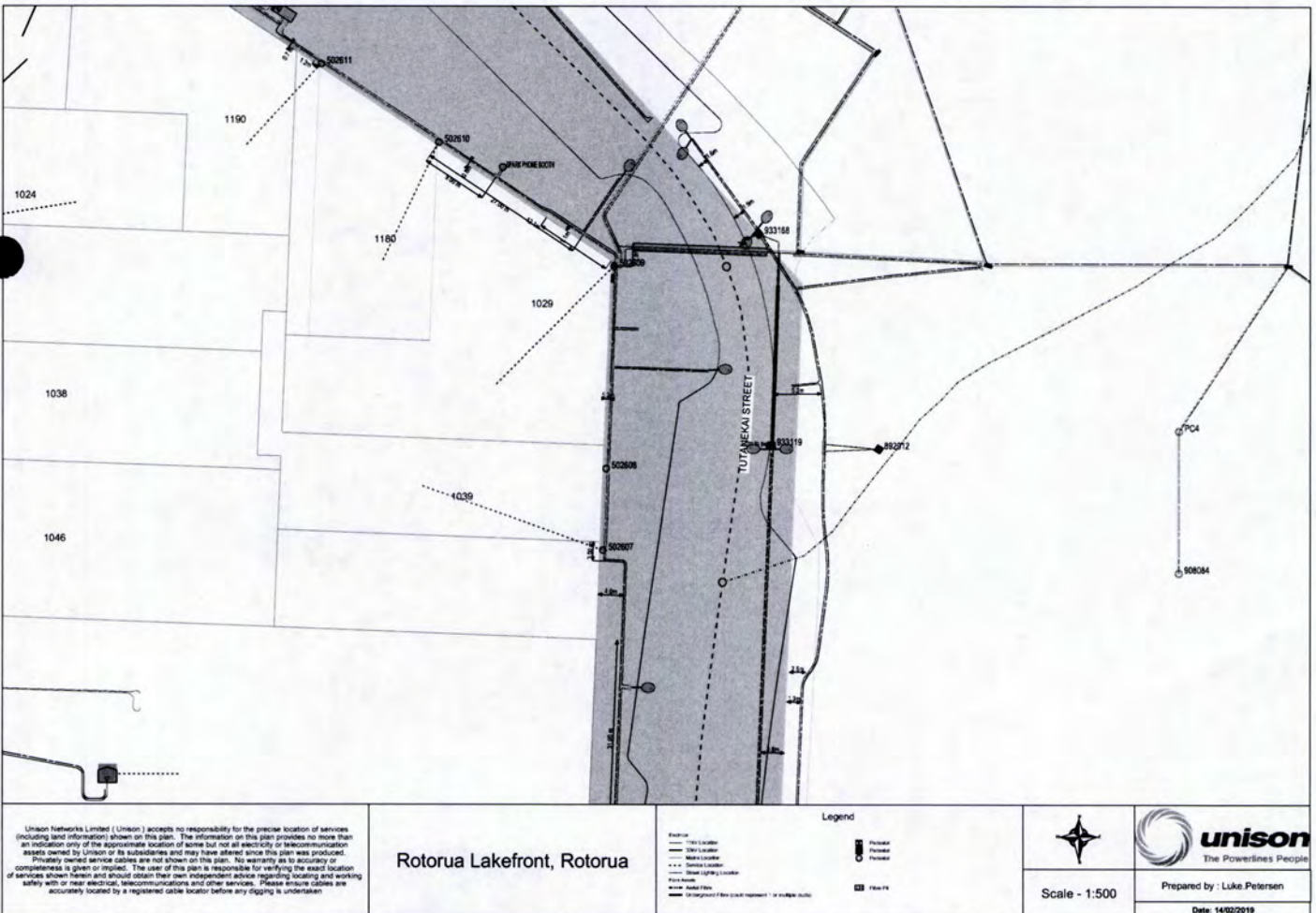
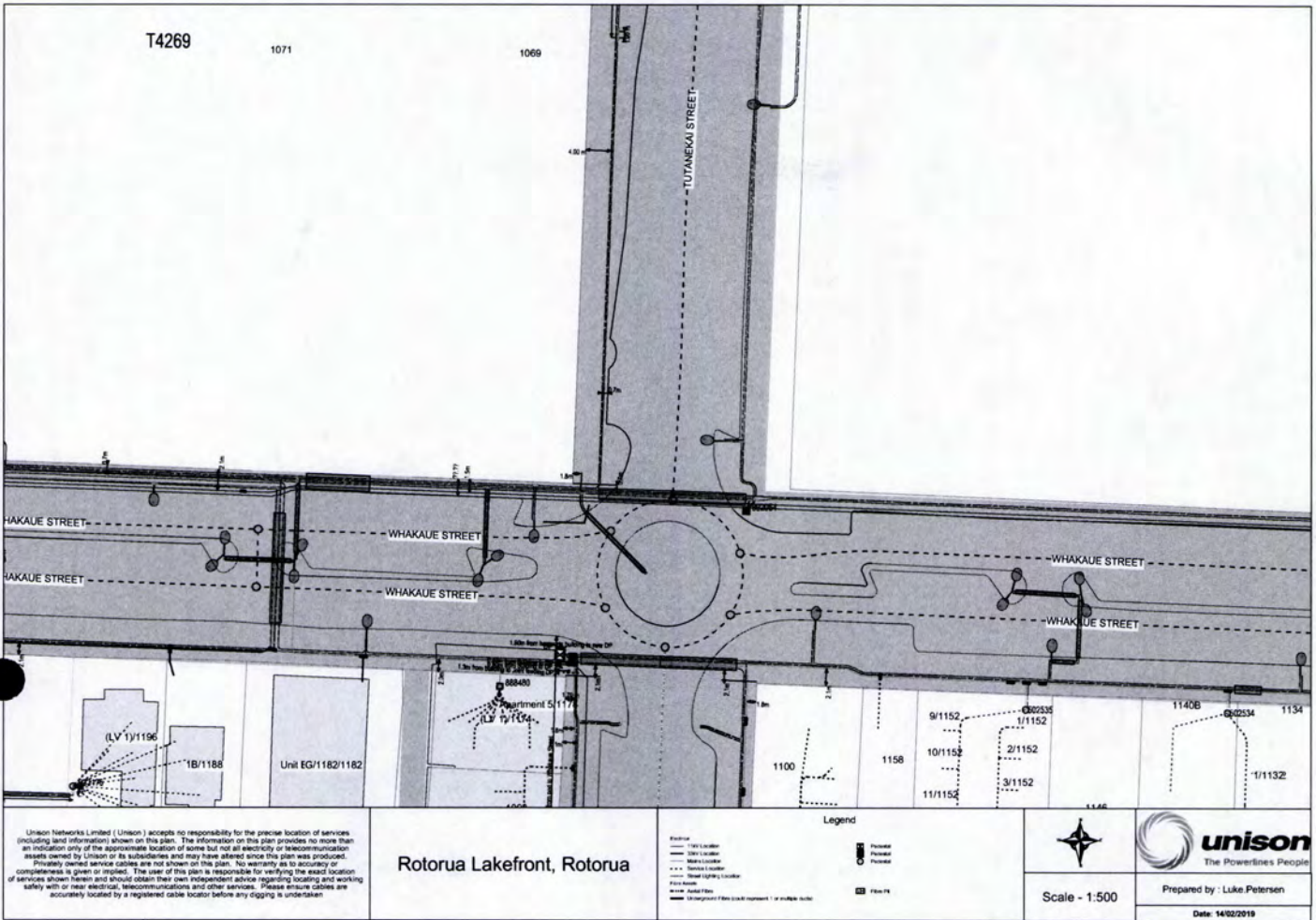
General Note
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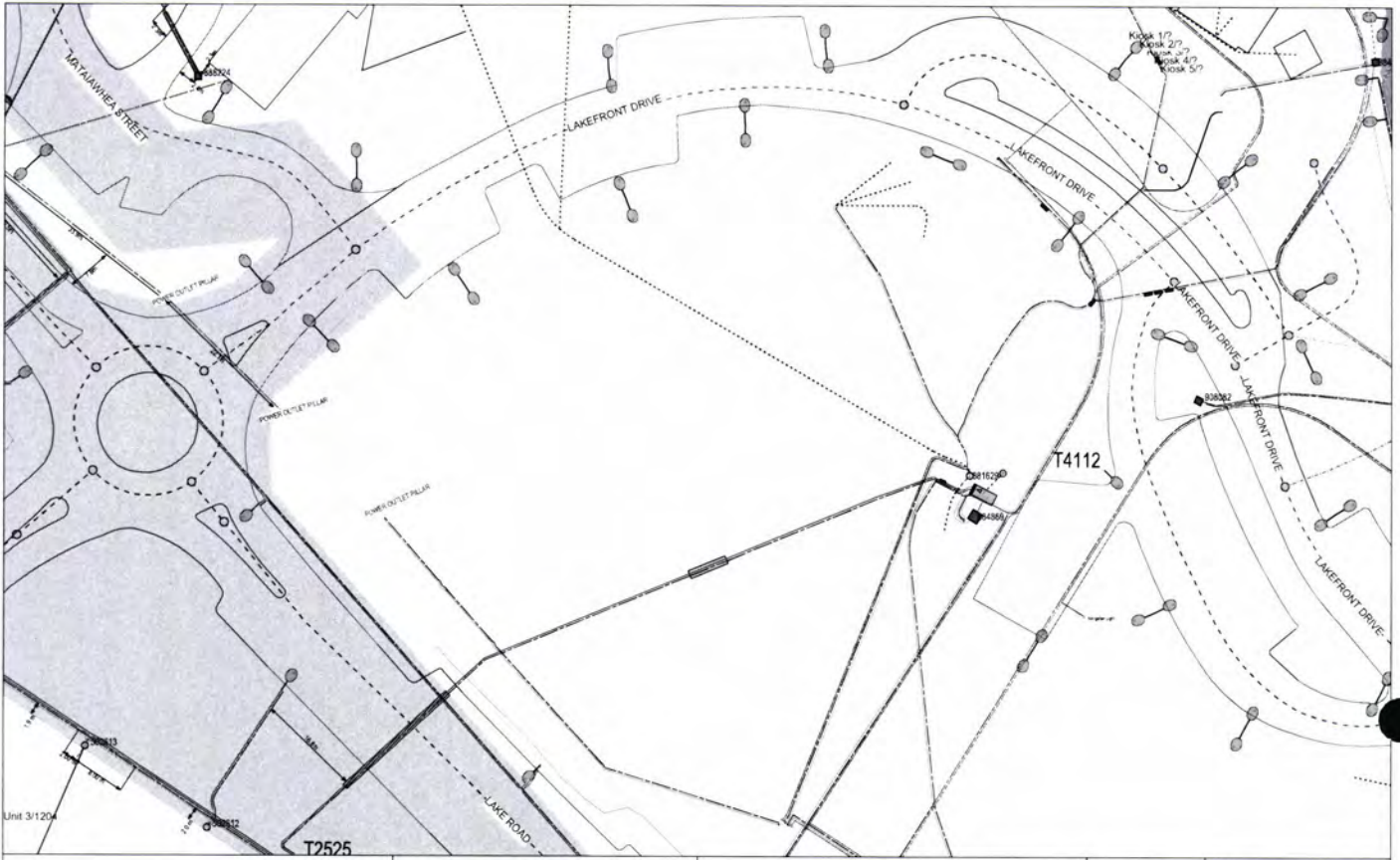
Rev	Description	Date

PROJECT: Rotorua Lakefront

CLIENT: Rotorua Lakes Council

DESIGNED BY: BW	REVIEWED BY: BW	DATE: 21.02.2019
SCALE 1:150		PROJECT NUMBER: S1B-037
DRAWING NUMBER: 51B-037-E14		REV: 001





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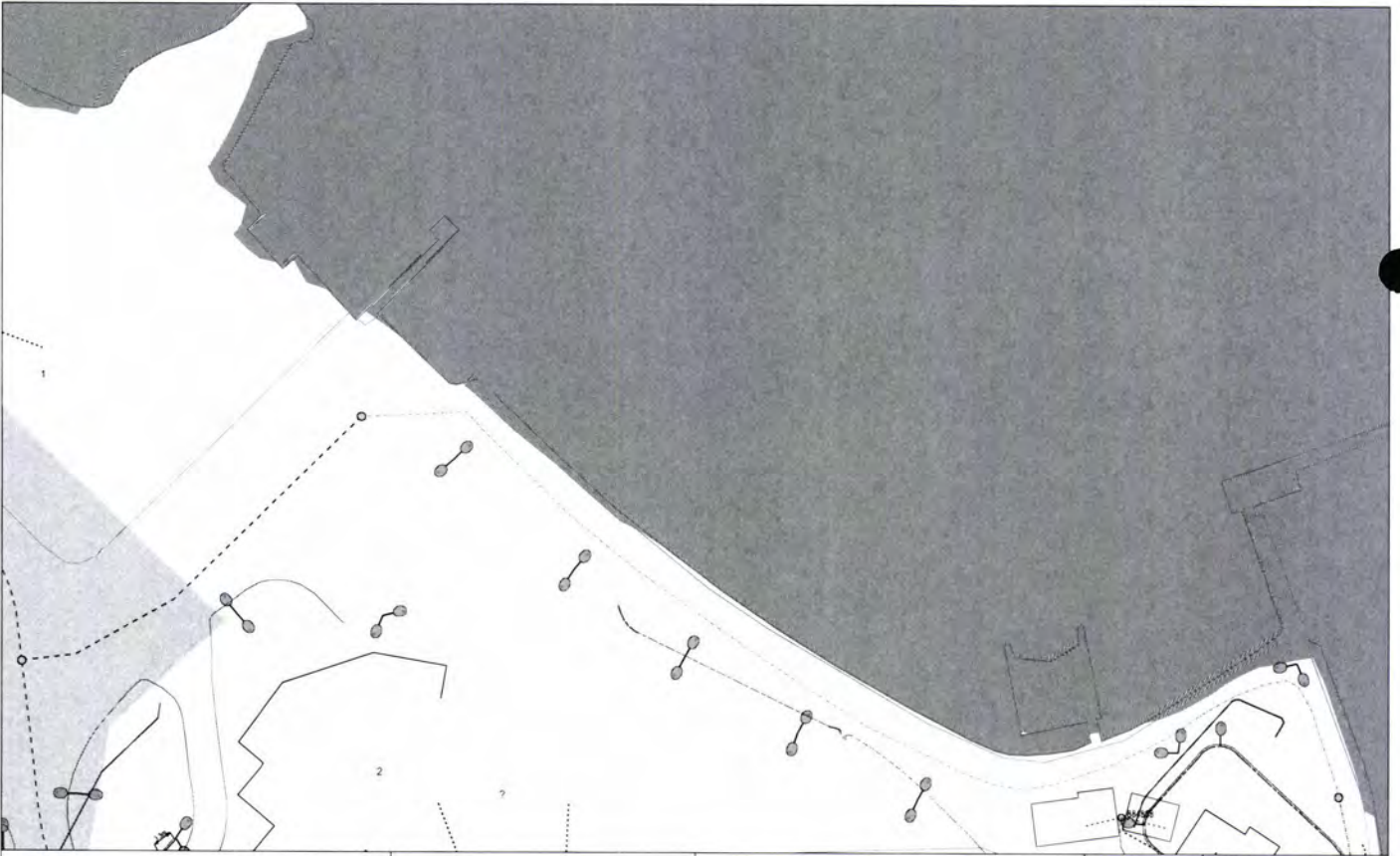
Rotorua Lakefront, Rotorua



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The Powerlines People

Scale - 1:500

Prepared by : Luke Petersen
Date: 14/02/2019



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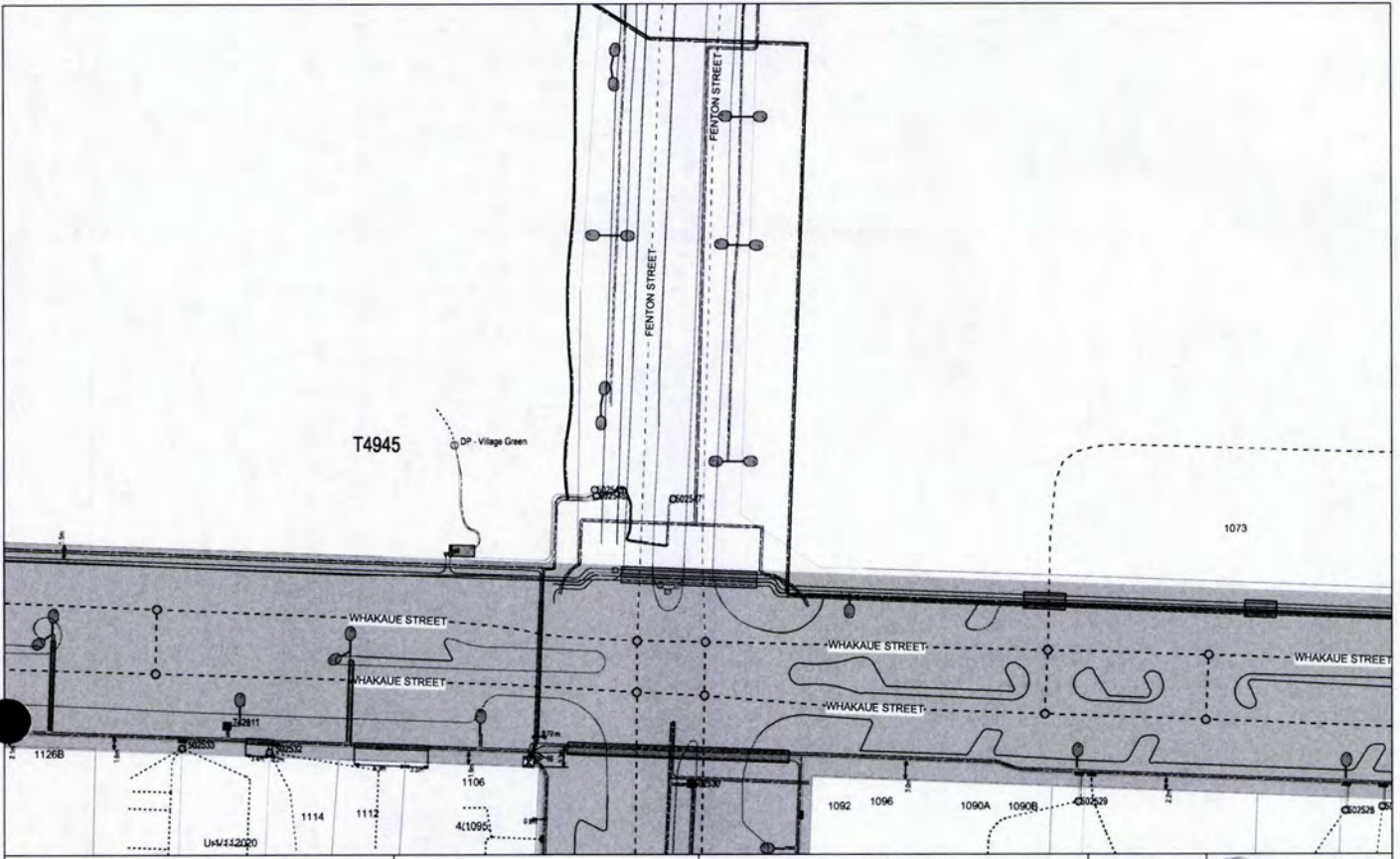
Rotorua Lakefront, Rotorua



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Scale - 1:500

Prepared by : Luke Petersen
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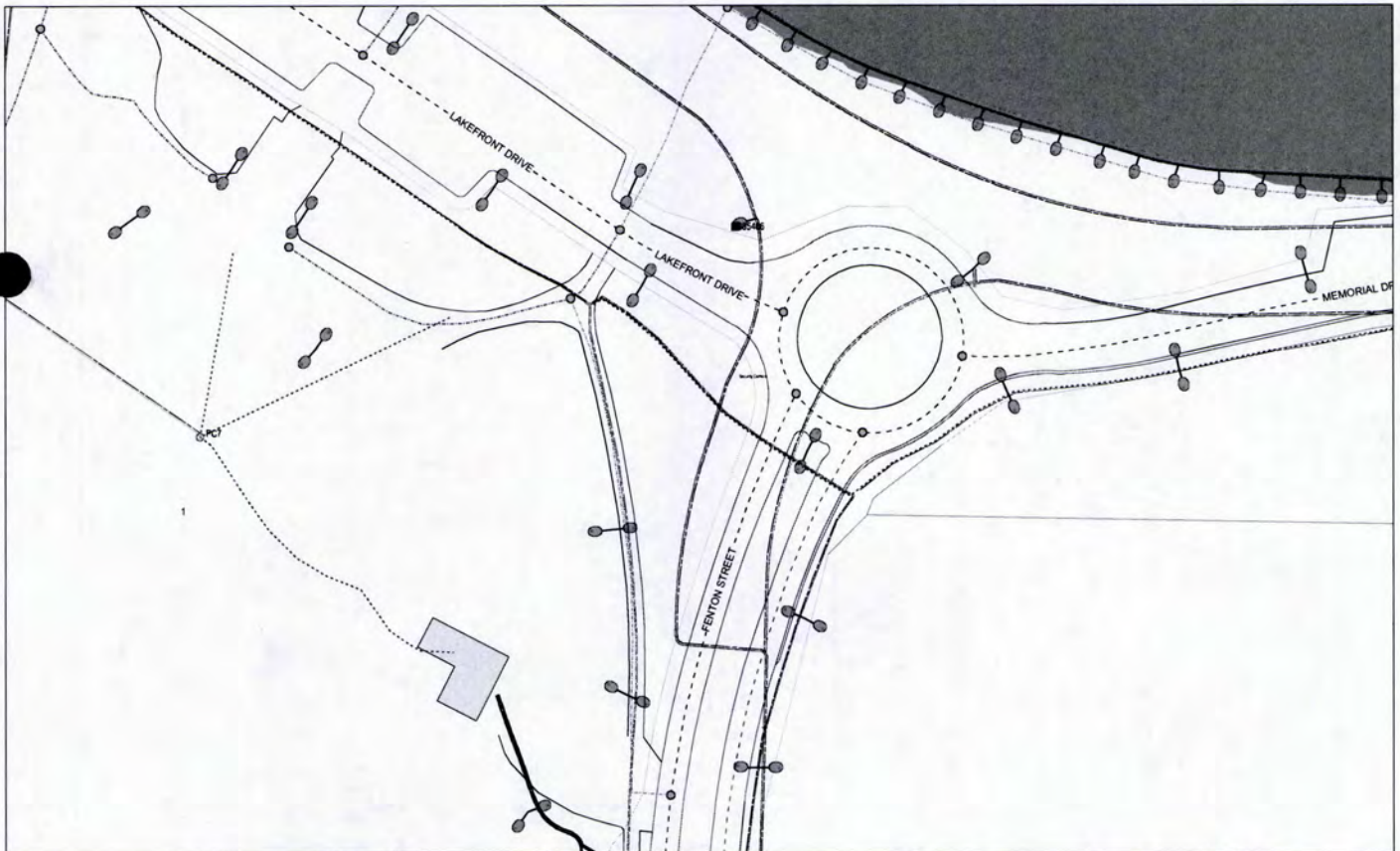
Rotorua Lakefront, Rotorua

Legend

- Electricity
 - 11kV Cable
 - 33kV Cable
 - 66kV Cable
 - 110kV Cable
 - 220kV Cable
 - 330kV Cable
 - 500kV Cable
 - Overhead 11kV Cable (Support 1 or multiple poles)
- Telecommunications
 - 12mm Fibre
- Other
 - 11kV Pole
 - 33kV Pole
 - 66kV Pole
 - 110kV Pole
 - 220kV Pole
 - 330kV Pole
 - 500kV Pole
 - Overhead 11kV Cable (Support 1 or multiple poles)

Scale - 1:500

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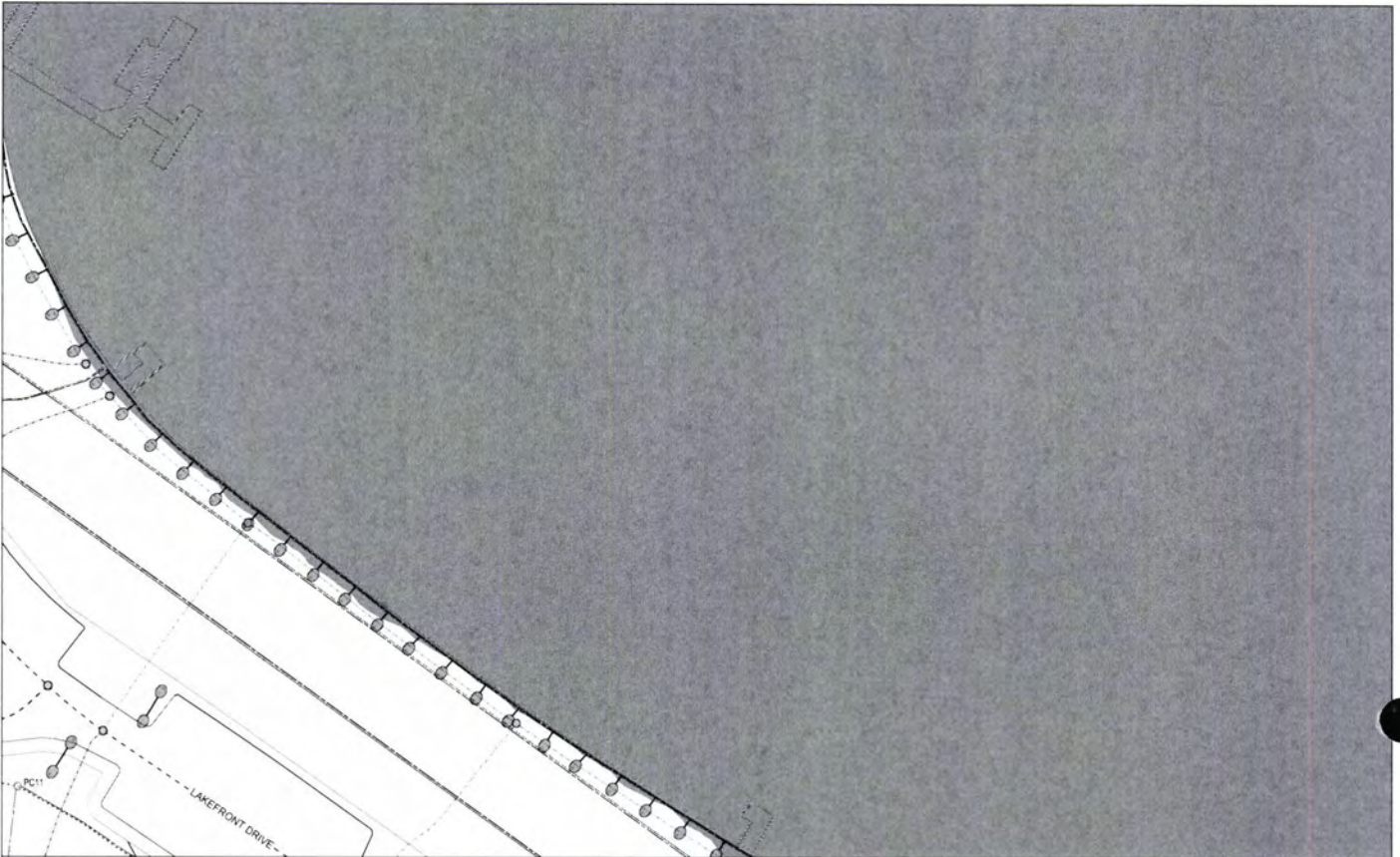
Rotorua Lakefront, Rotorua

Legend

- Electricity
 - 11kV Cable
 - 33kV Cable
 - 66kV Cable
 - 110kV Cable
 - 220kV Cable
 - 330kV Cable
 - 500kV Cable
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Rotorua Lakefront, Rotorua

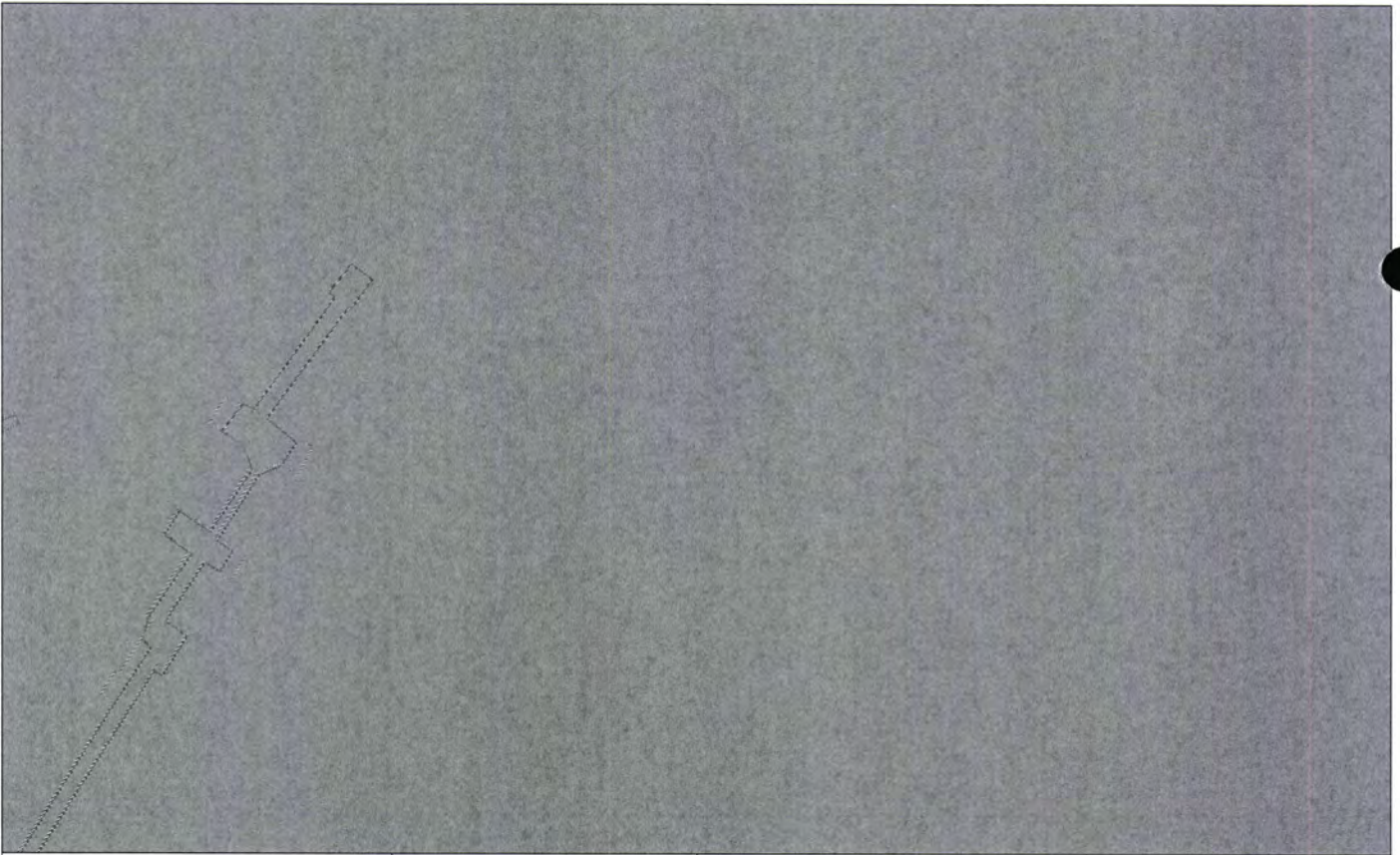
Legend

- PC11
- 100V 10kV
- 150V 10kV
- 250V 10kV
- 300V 10kV
- 350V 10kV
- 400V 10kV
- 450V 10kV
- 500V 10kV
- 550V 10kV
- 600V 10kV
- 650V 10kV
- 700V 10kV
- 750V 10kV
- 800V 10kV
- 850V 10kV
- 900V 10kV
- 950V 10kV
- 1000V 10kV
- 1050V 10kV
- 1100V 10kV
- 1150V 10kV
- 1200V 10kV
- 1250V 10kV
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- 10000V 10kV

Scale - 1:500

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Prepared by: Luke Petersen
Date: 14/02/2019



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Rotorua Lakefront, Rotorua

Legend

- PC11
- 100V 10kV
- 150V 10kV
- 250V 10kV
- 300V 10kV
- 350V 10kV
- 400V 10kV
- 450V 10kV
- 500V 10kV
- 550V 10kV
- 600V 10kV
- 650V 10kV
- 700V 10kV
- 750V 10kV
- 800V 10kV
- 850V 10kV
- 900V 10kV
- 950V 10kV
- 1000V 10kV
- 1050V 10kV
- 1100V 10kV
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- 8600V 10kV
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- 8800V 10kV
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- 10000V 10kV

Scale - 1:500

unison
The Powerlines People

Prepared by: Luke Petersen
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