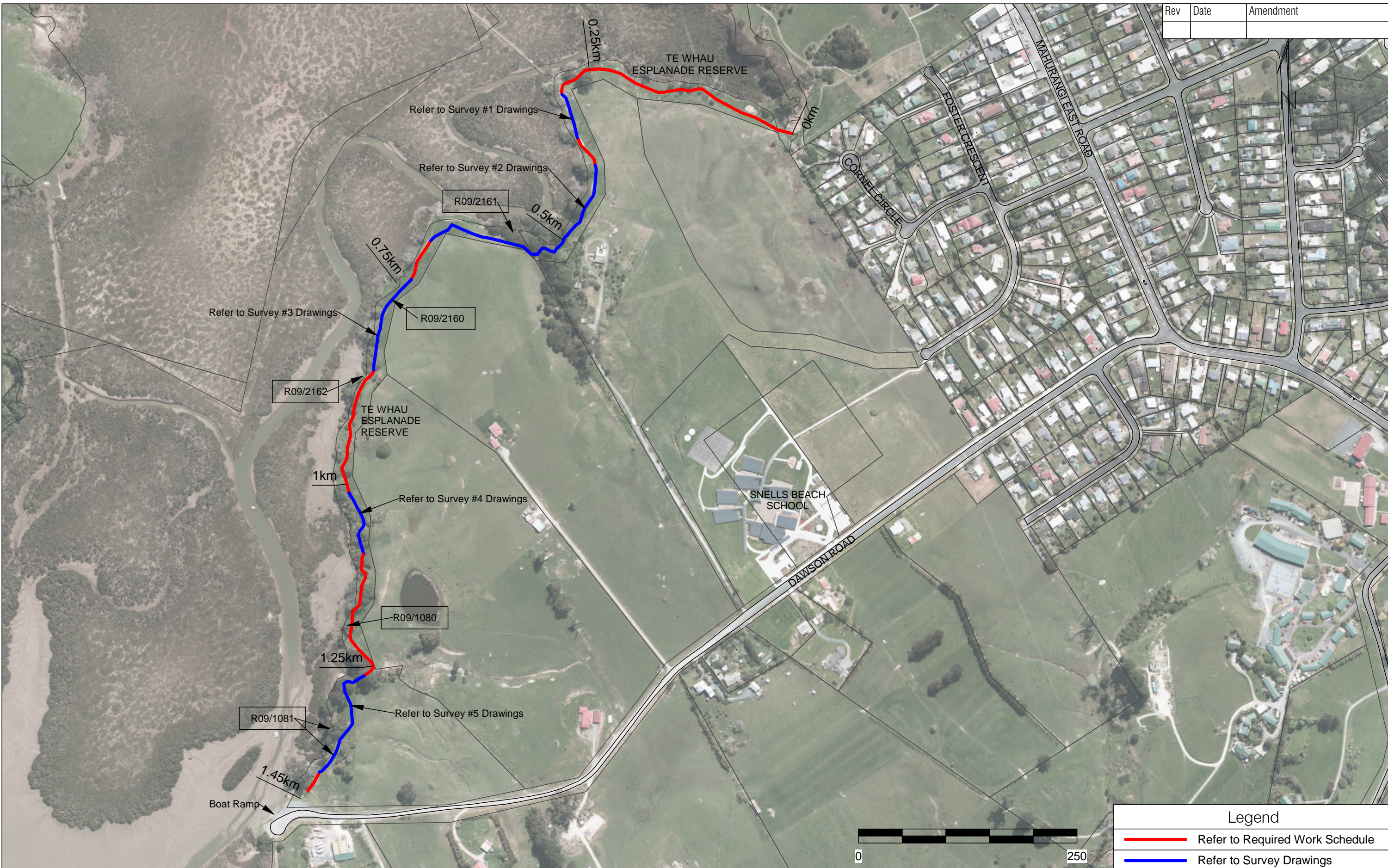


Rev	Date	Amendment



Legend	
—	Refer to Required Work Schedule
—	Refer to Survey Drawings

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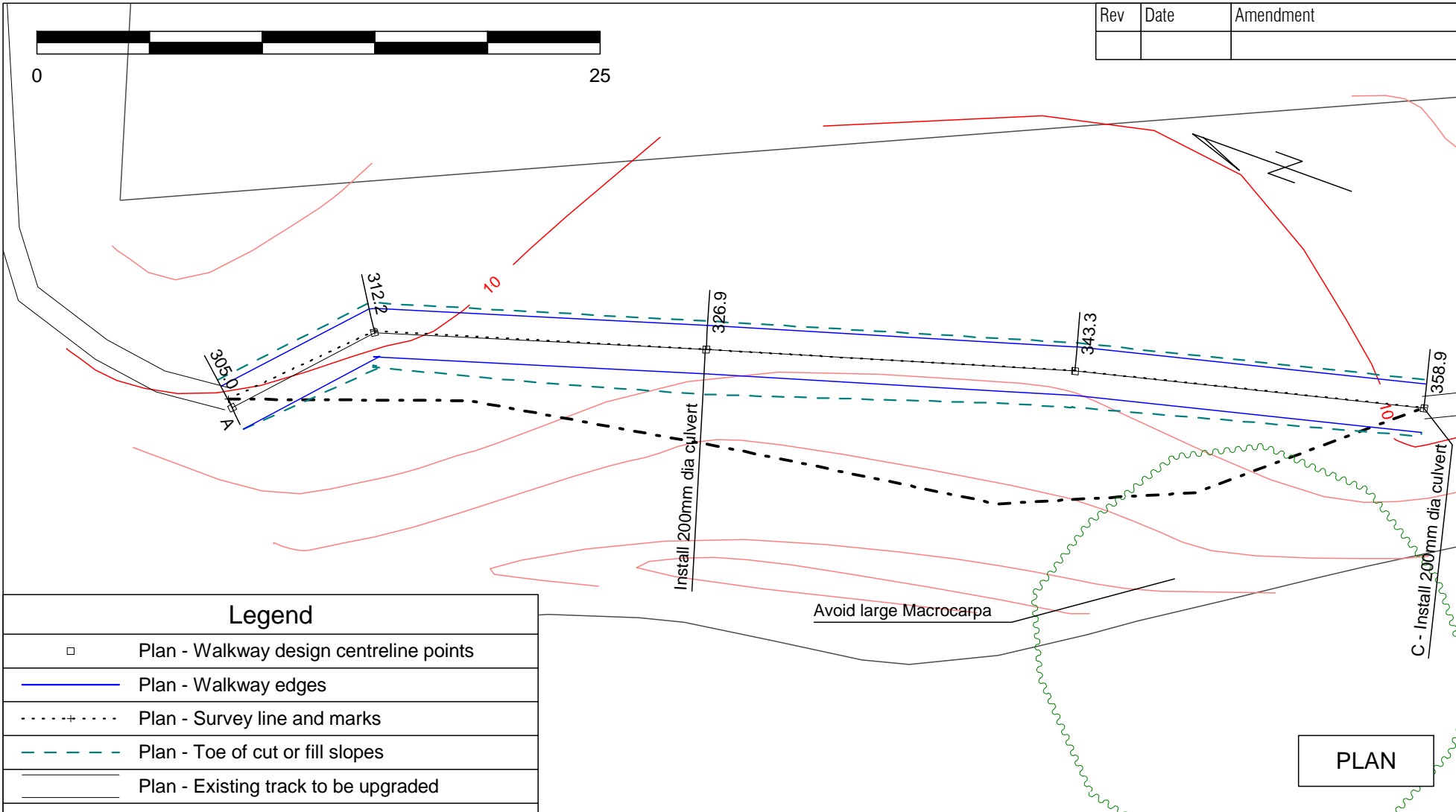
 Auckland Council
 Te Kaitiaki o Tāmaki Makaurau

PROJECT
**TE WHAU ESPLANADE
 WALKWAY DEVELOPMENT**

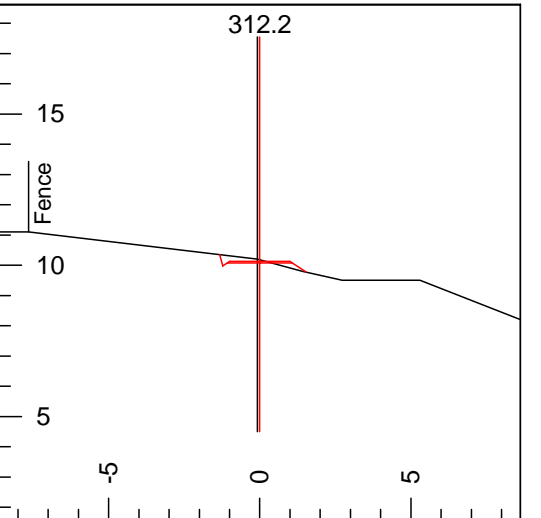
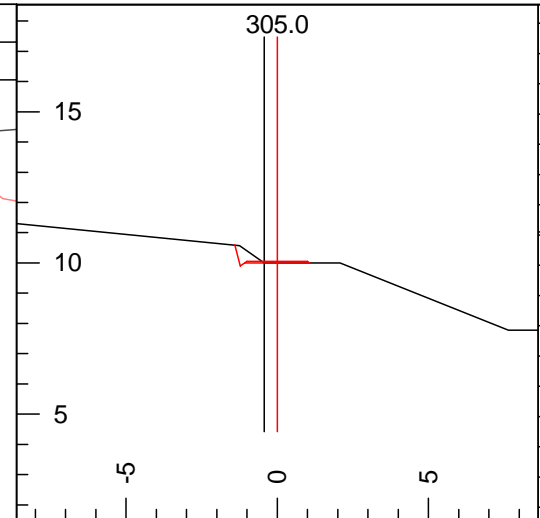
TITLE
OVERALL PLAN

SCALE Plan Scale 1:4000 @ A3	Date: JANUARY 2015
DRAWN JR/DK	FGL JOB 14/103
APPROVED	DRAWING 14/103 sht 0
	REV 0

Rev	Date	Amendment

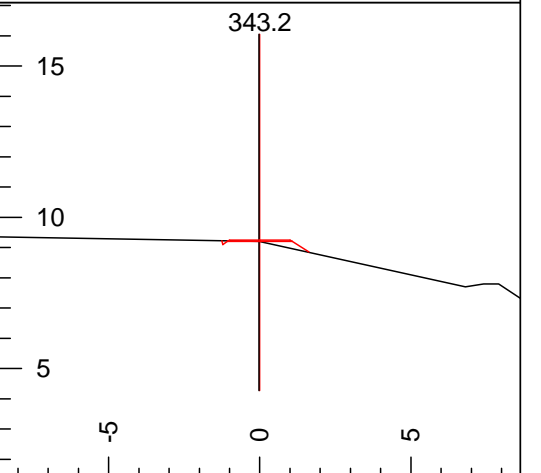
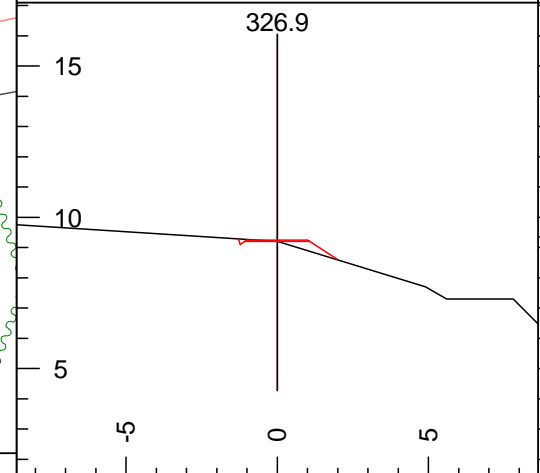


Legend	
□	Plan - Walkway design centreline points
—	Plan - Walkway edges
⋯	Plan - Survey line and marks
- - -	Plan - Toe of cut or fill slopes
—	Plan - Existing track to be upgraded
- - -	Plan - Existing track to be decommissioned
~~~~~	Plan - Approx. tree dripline
—	Profile - Walkway surface level & grade
—	Profile - Topography



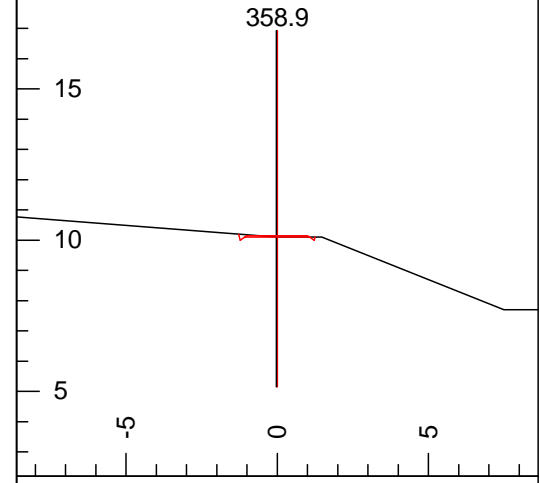
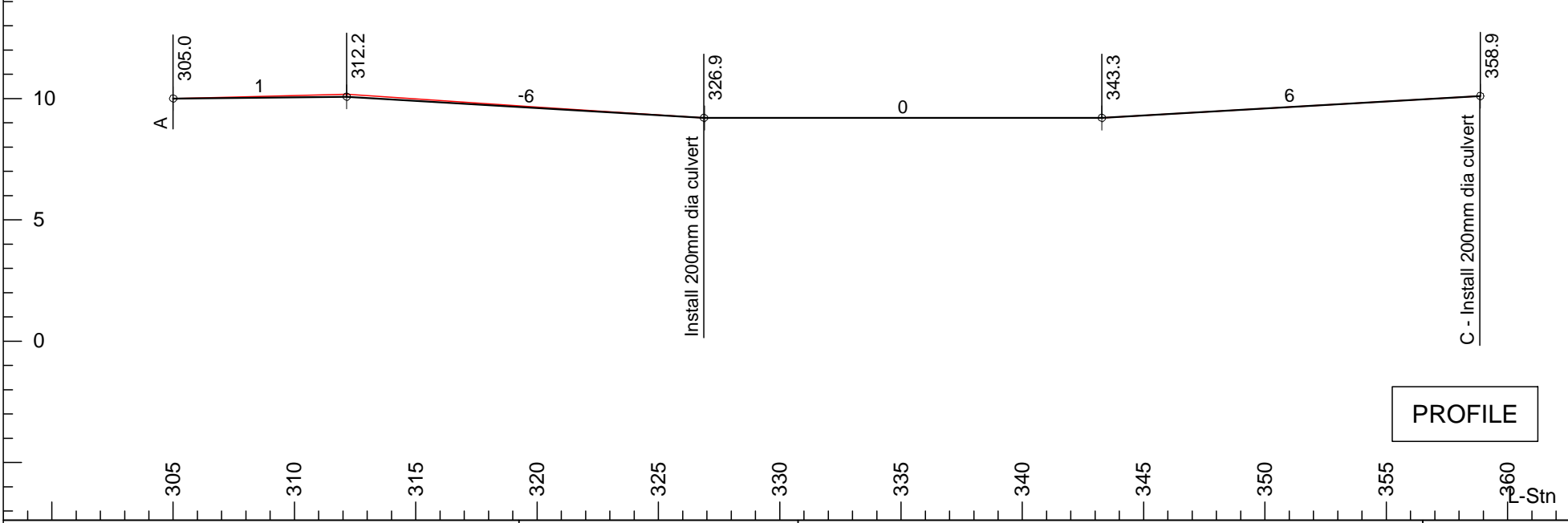
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L-Stn:	312.2	CL Elev:	10.1	H. Offset:	0.1
P-Stn:	6.8	Cut Dp:	0.1		
Total SD:	6.8	V.Offset:	-0.1		



L-Stn:	326.9	Cut Dp:	0.0		
P-Stn:	20.6	V.Offset:	0.0		
Total SD:	20.6	H. Offset:	0.0		
CL Elev:	9.2				

L-Stn:	343.2	Cut Dp:	0.0		
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Total SD:	35.9	H. Offset:	0.0		
CL Elev:	9.2				



L-Stn:	358.9	Cut Dp:	0.0		
P-Stn:	50.6	V.Offset:	0.0		
Total SD:	50.7	H. Offset:	0.0		
CL Elev:	10.1				

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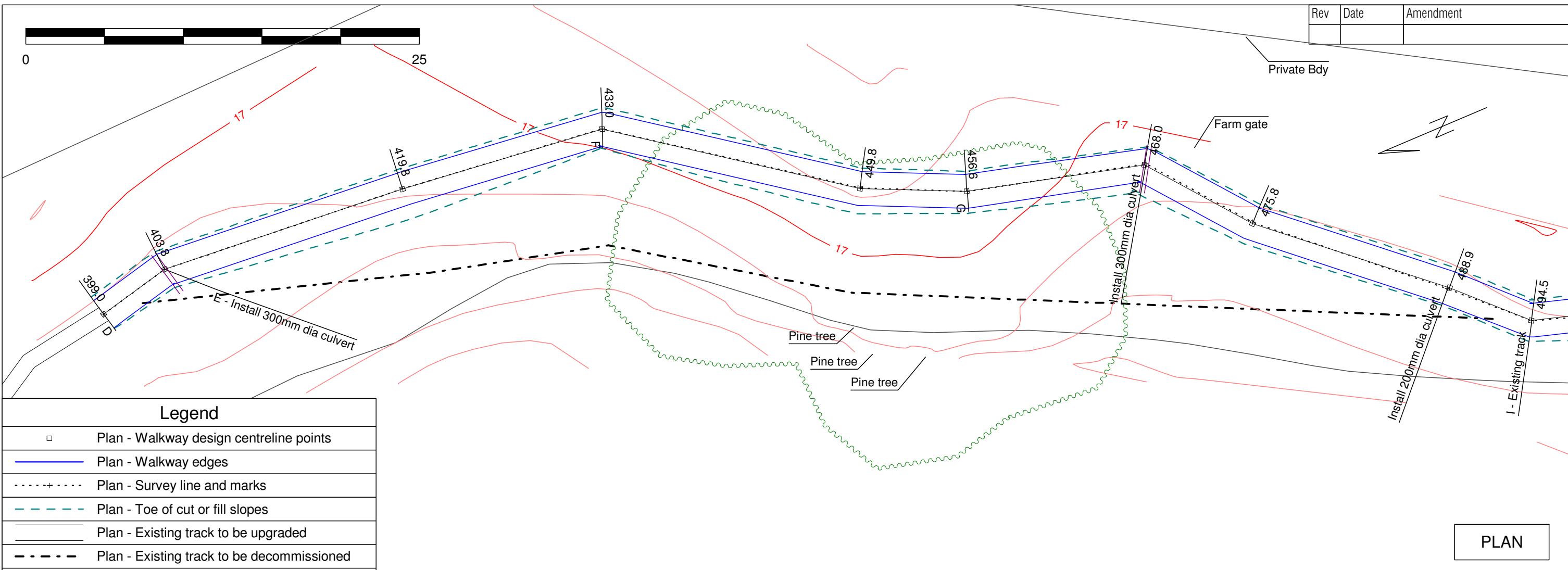
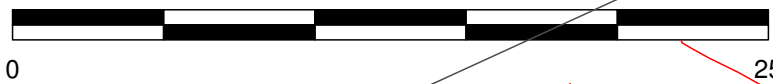
PREPARED FOR  
 Auckland Council  
 Te Kaitiaki o Tamaki Makaurau

PROJECT  
**TE WHAU ESPLANADE  
 WALKWAY DEVELOPMENT**

TITLE  
**SURVEY #1  
 PLAN, PROFILE & CROSS SECTIONS**

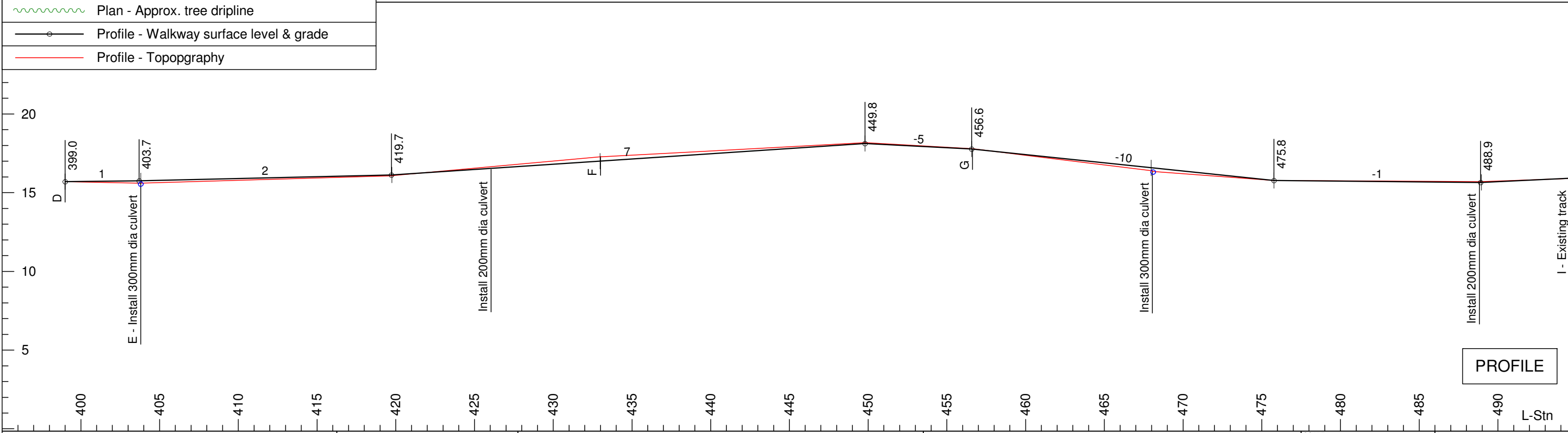
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DRAWN	JR/DK	FGL JOB	14/103
APPROVED		DRAWING	14/103 sht 4
		REV	4

Rev	Date	Amendment



Legend	
□	Plan - Walkway design centreline points
—	Plan - Walkway edges
- - - - -	Plan - Survey line and marks
- - - - -	Plan - Toe of cut or fill slopes
—	Plan - Existing track to be upgraded
- - - - -	Plan - Existing track to be decommissioned
~~~~~	Plan - Approx. tree dripline
—○—	Profile - Walkway surface level & grade
—	Profile - Topography

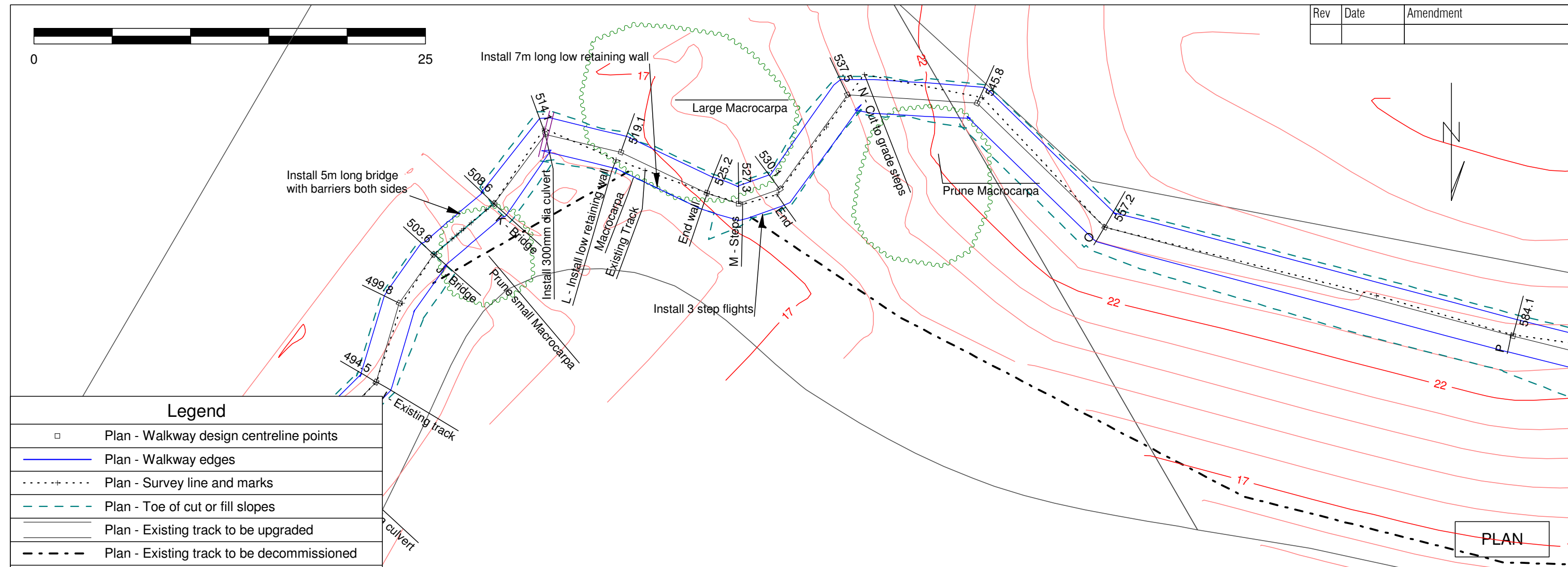
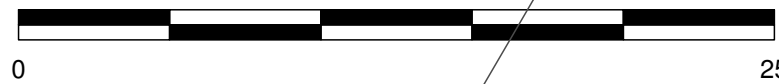
PLAN



PROFILE

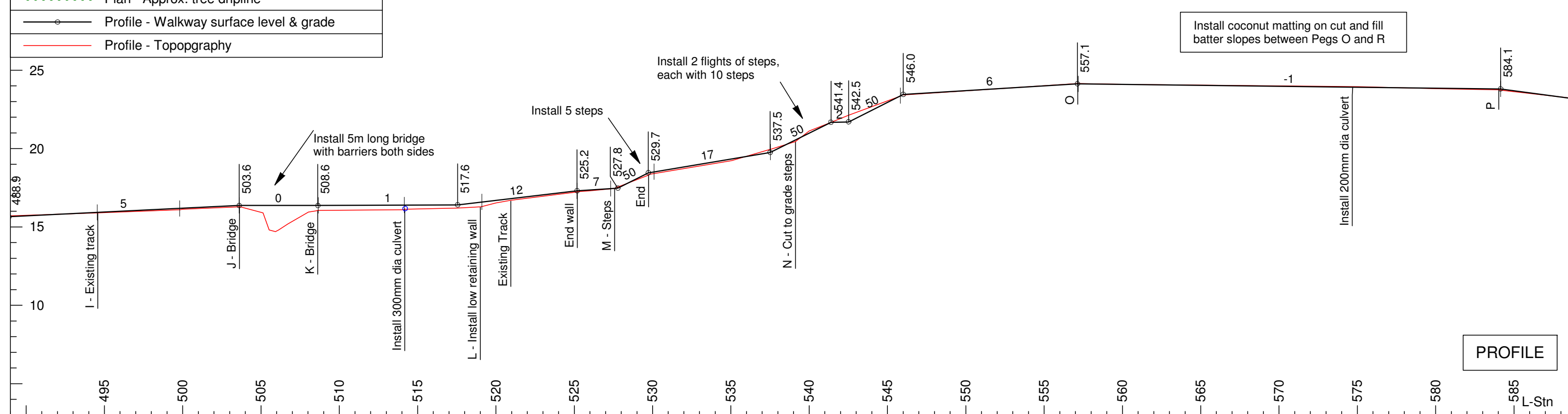
<p>Frame Group Limited PO BOX 147211, PONSONBY, AUCKLAND 1144 LEVEL 2, 16 COLLEGE HILL, AUCKLAND, NZ PHONE: 64 9 638 7221 FAX: 64 9 376 0513 © FRAME GROUP LTD, 2014</p>	PREPARED FOR 	PROJECT TE WHAU ESPLANADE WALKWAY DEVELOPMENT	TITLE SURVEY #2 PLAN & PROFILE	SCALE Plan Scale 1:250 Profile Vert Scale 1:250 Profile Horz Scale 1:250	Date: JANUARY 2015
	DRAWN JR/DK	FGL JOB 14/103	APPROVED	DRAWING 14/103 sht 5	REV 5

Rev	Date	Amendment



Legend

	Plan - Walkway design centreline points
	Plan - Walkway edges
	Plan - Survey line and marks
	Plan - Toe of cut or fill slopes
	Plan - Existing track to be upgraded
	Plan - Existing track to be decommissioned
	Plan - Approx. tree dripline
	Profile - Walkway surface level & grade
	Profile - Topography



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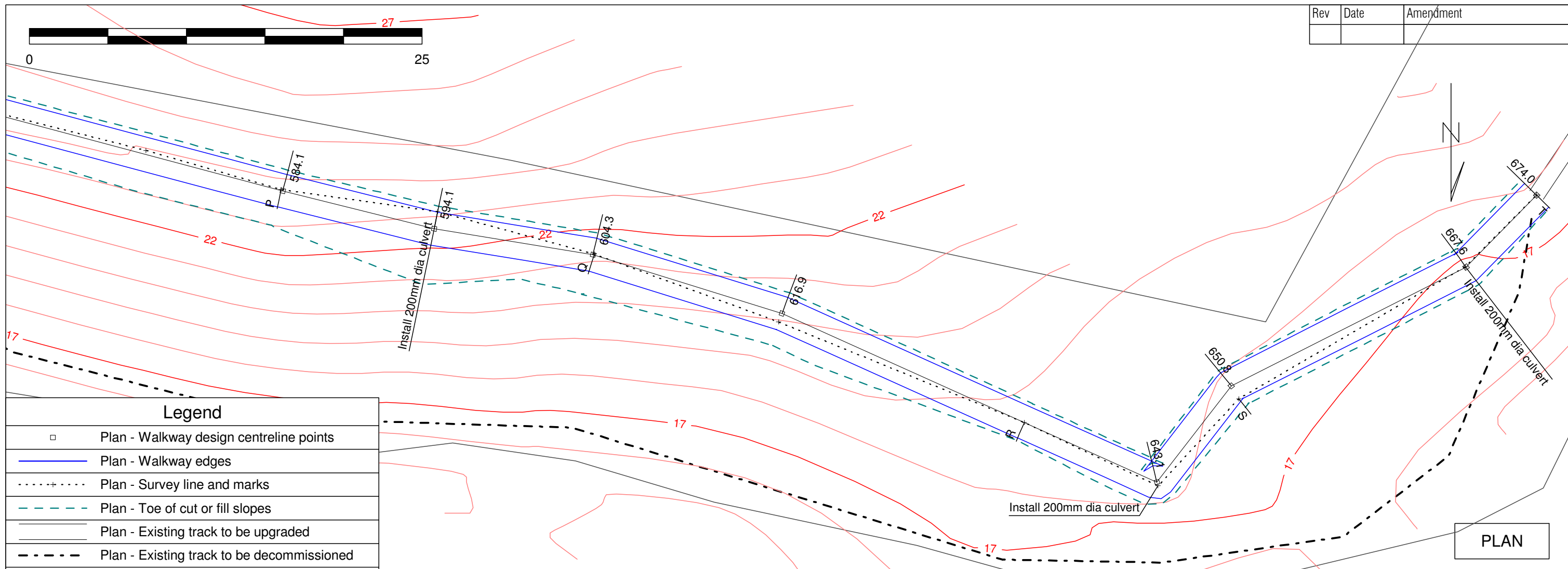
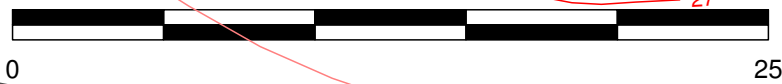
PREPARED FOR
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PROJECT
**TE WHAU ESPLANADE
 WALKWAY DEVELOPMENT**

TITLE
**SURVEY #2
 PLAN & PROFILE**

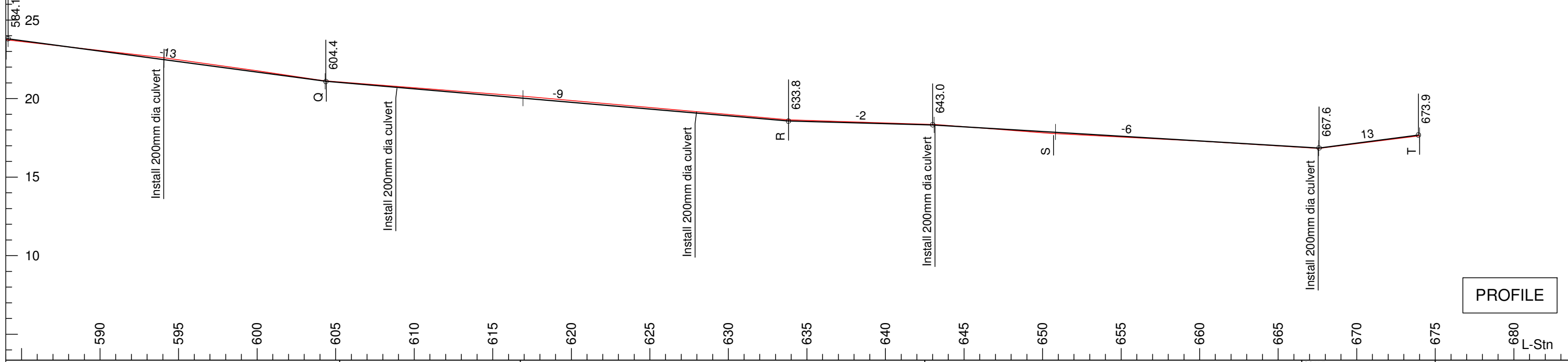
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DRAWN	JR/DK	FGL JOB	14/103
APPROVED		DRAWING	14/103 sht 6
		REV	6

Rev	Date	Amendment



PLAN

Legend	
□	Plan - Walkway design centreline points
—	Plan - Walkway edges
· · · · ·	Plan - Survey line and marks
- - - - -	Plan - Toe of cut or fill slopes
—	Plan - Existing track to be upgraded
- - - - -	Plan - Existing track to be decommissioned
~~~~~	Plan - Approx. tree dripline
—○—	Profile - Walkway surface level & grade
—	Profile - Topography



PROFILE

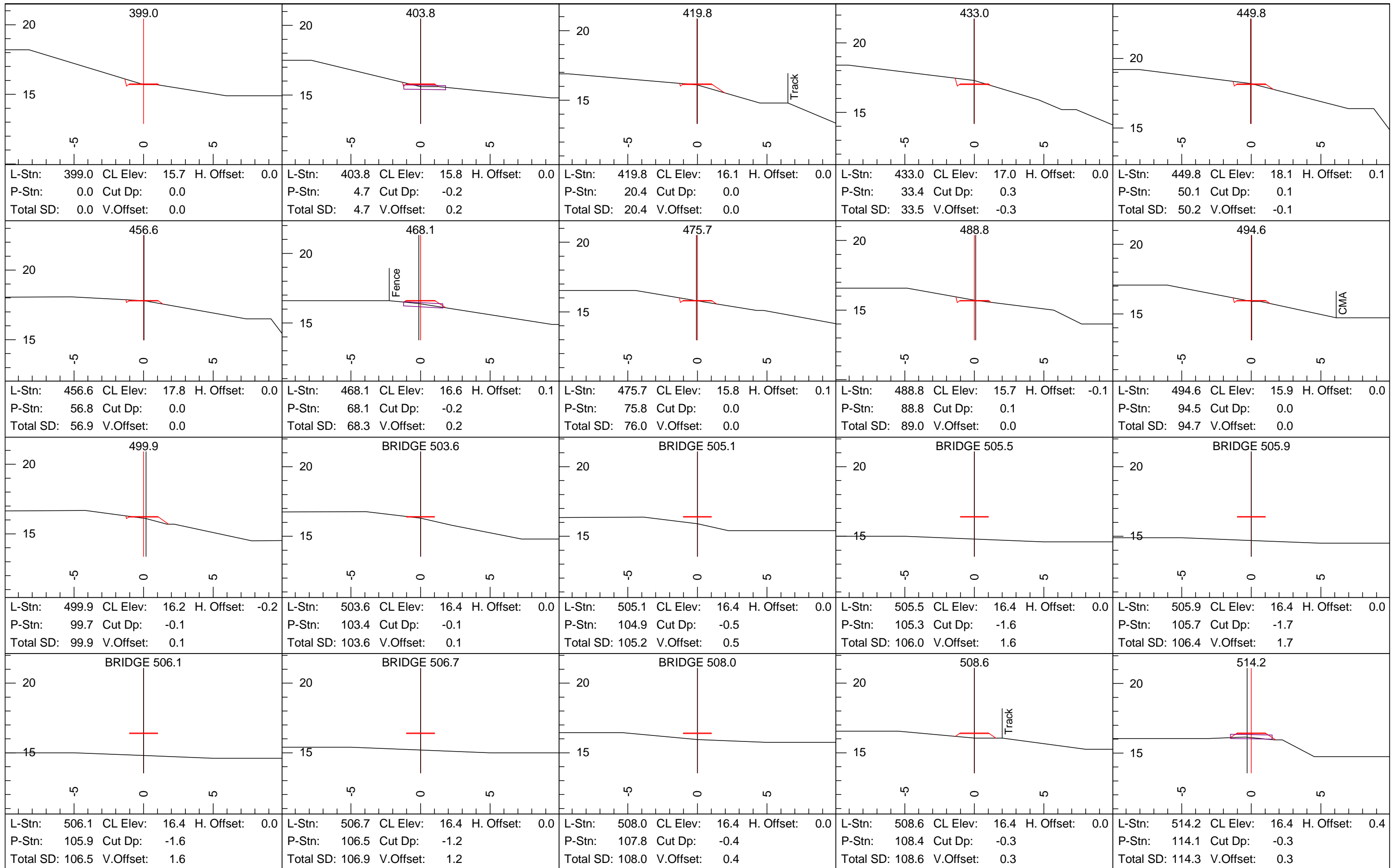
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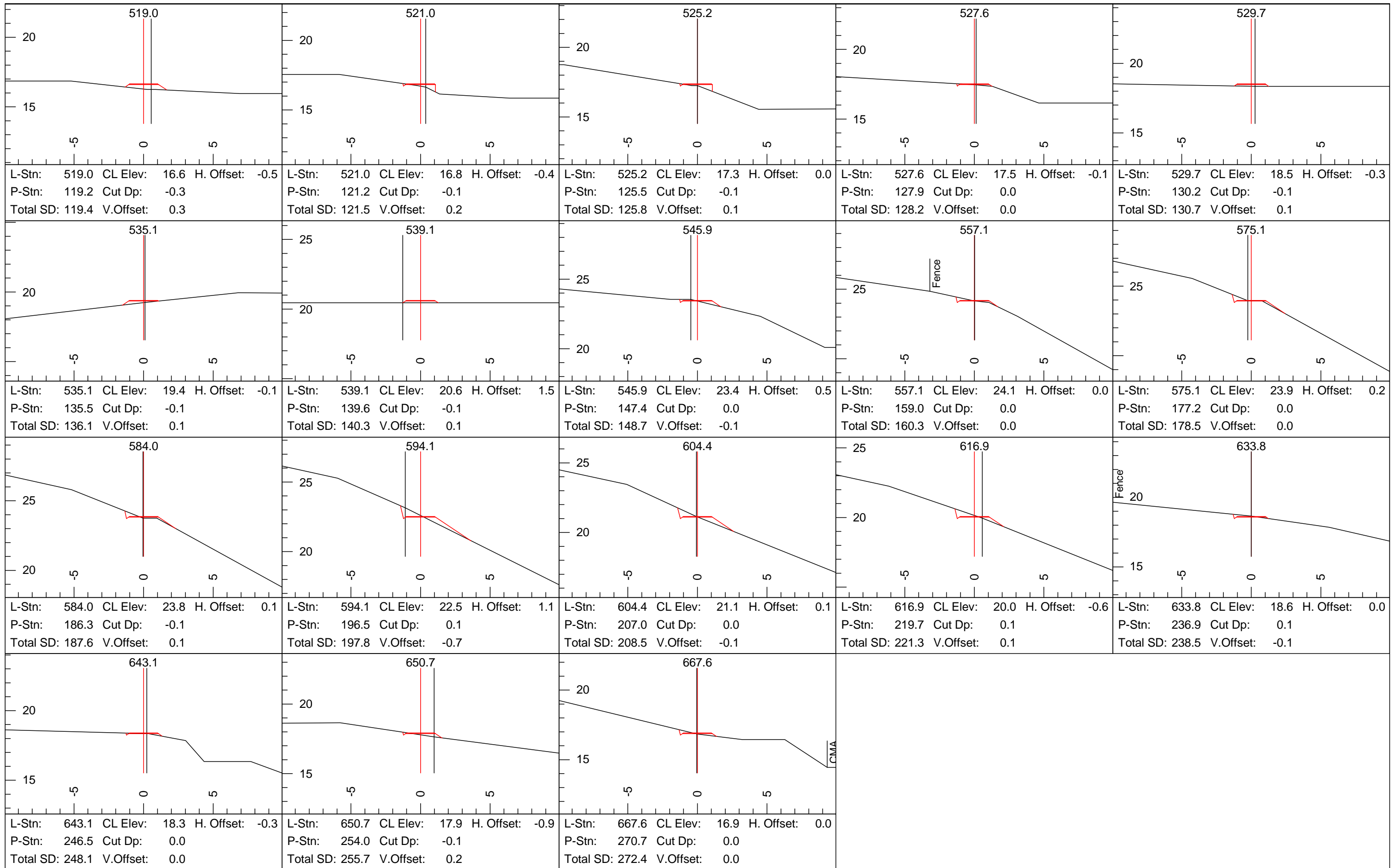
PREPARED FOR  
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PROJECT  
**TE WHAU ESPLANADE  
 WALKWAY DEVELOPMENT**

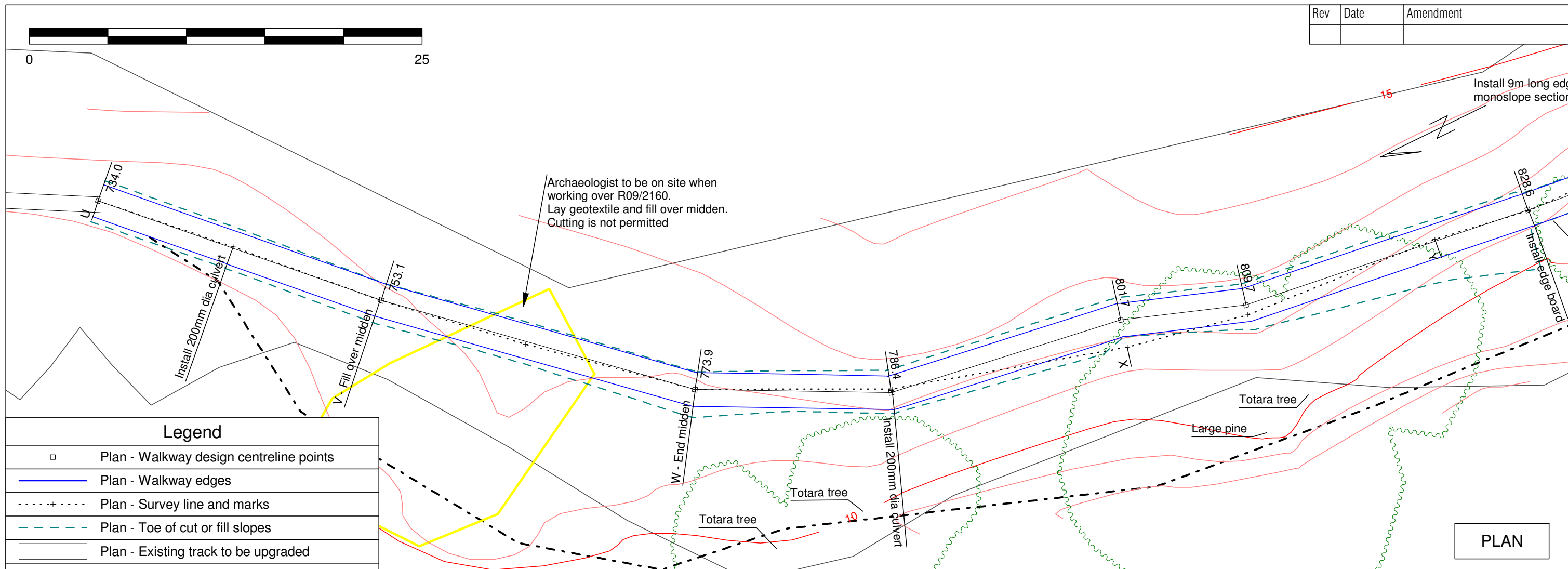
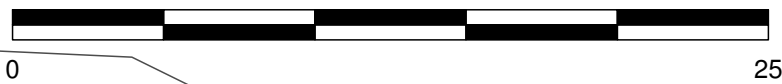
TITLE  
**SURVEY #2  
 PLAN & PROFILE**

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DRAWN	JR/DK	FGL JOB	14/103
APPROVED		DRAWING	14/103 sht 7
		REV	7



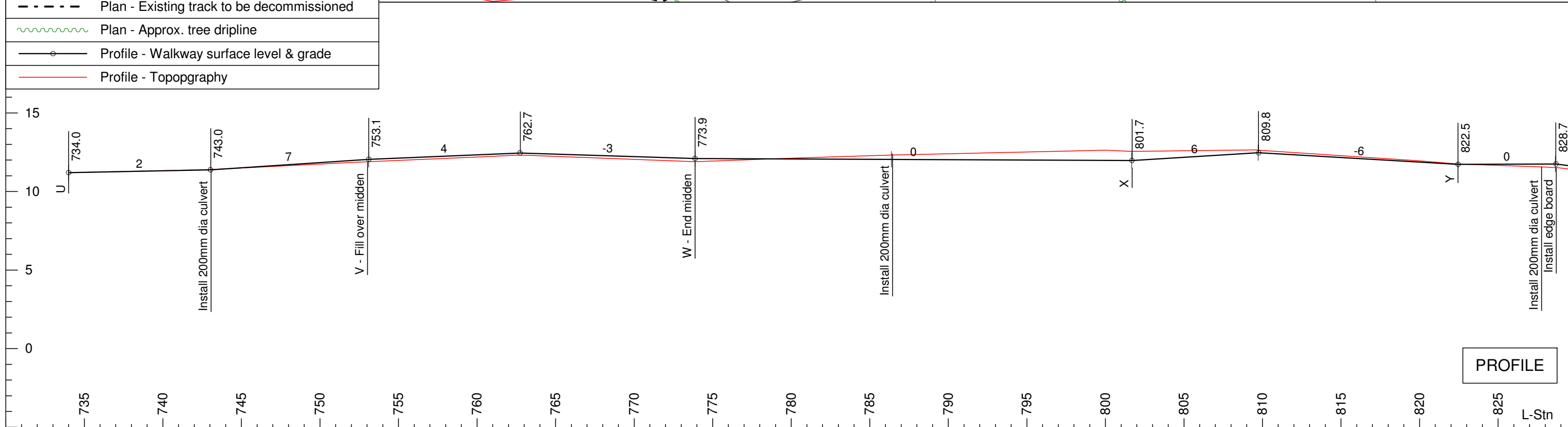


Rev	Date	Amendment



Legend	
□	Plan - Walkway design centreline points
—	Plan - Walkway edges
⋯	Plan - Survey line and marks
- - -	Plan - Toe of cut or fill slopes
—	Plan - Existing track to be upgraded
- - -	Plan - Existing track to be decommissioned
~~~~~	Plan - Approx. tree dripline
—○—	Profile - Walkway surface level & grade
—	Profile - Topography

PLAN



PROFILE

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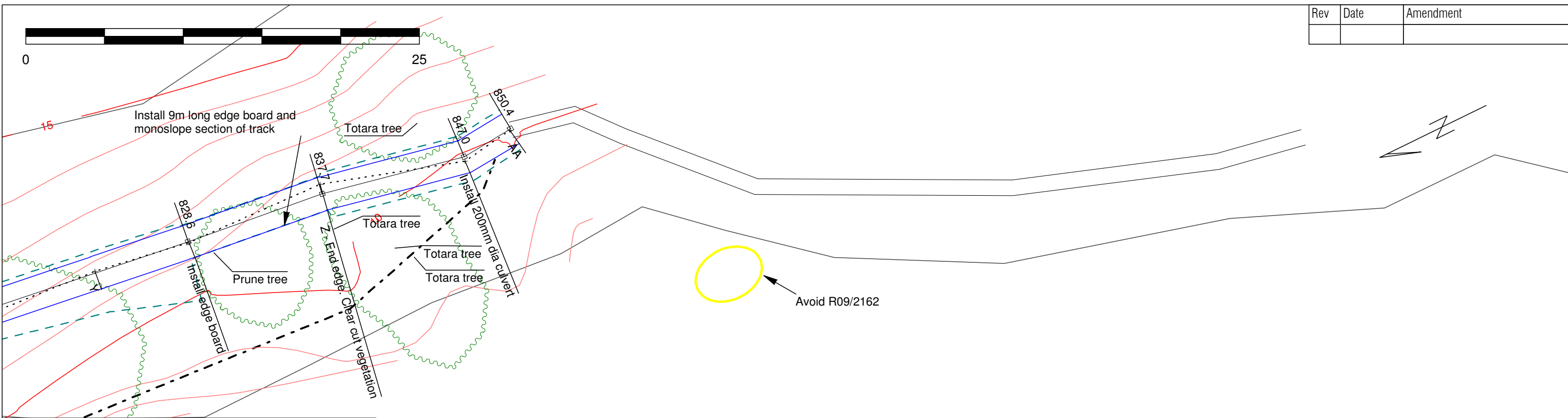
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PROJECT
 TE WHAU ESPLANADE
 WALKWAY DEVELOPMENT

TITLE
 SURVEY #3
 PLAN & PROFILE

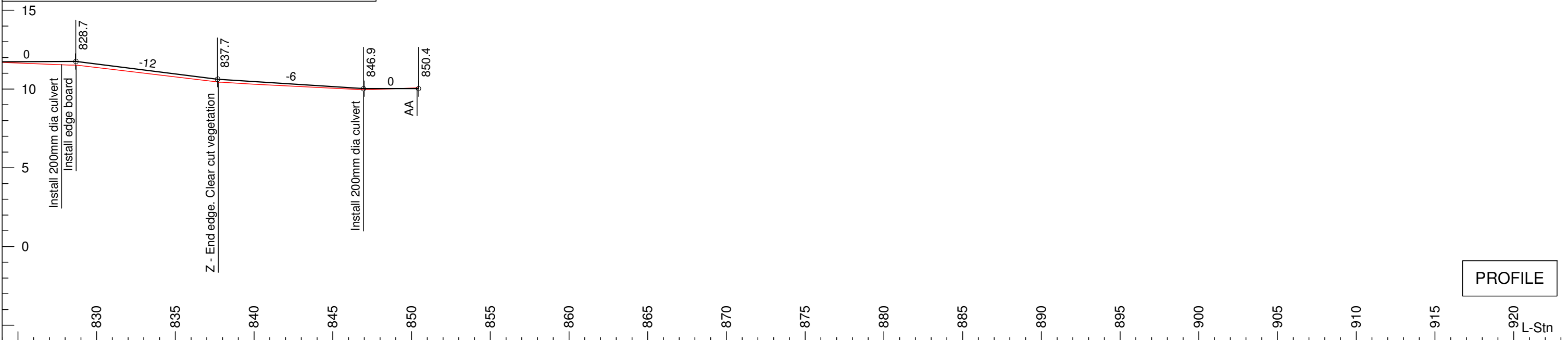
SCALE	Plan Scale 1:250 Profile Vert Scale 1:250 Profile Horz Scale 1:250	Date:	JANUARY 2015
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APPROVED		DRAWING	14/103 sht 10
		REV	10

Rev	Date	Amendment



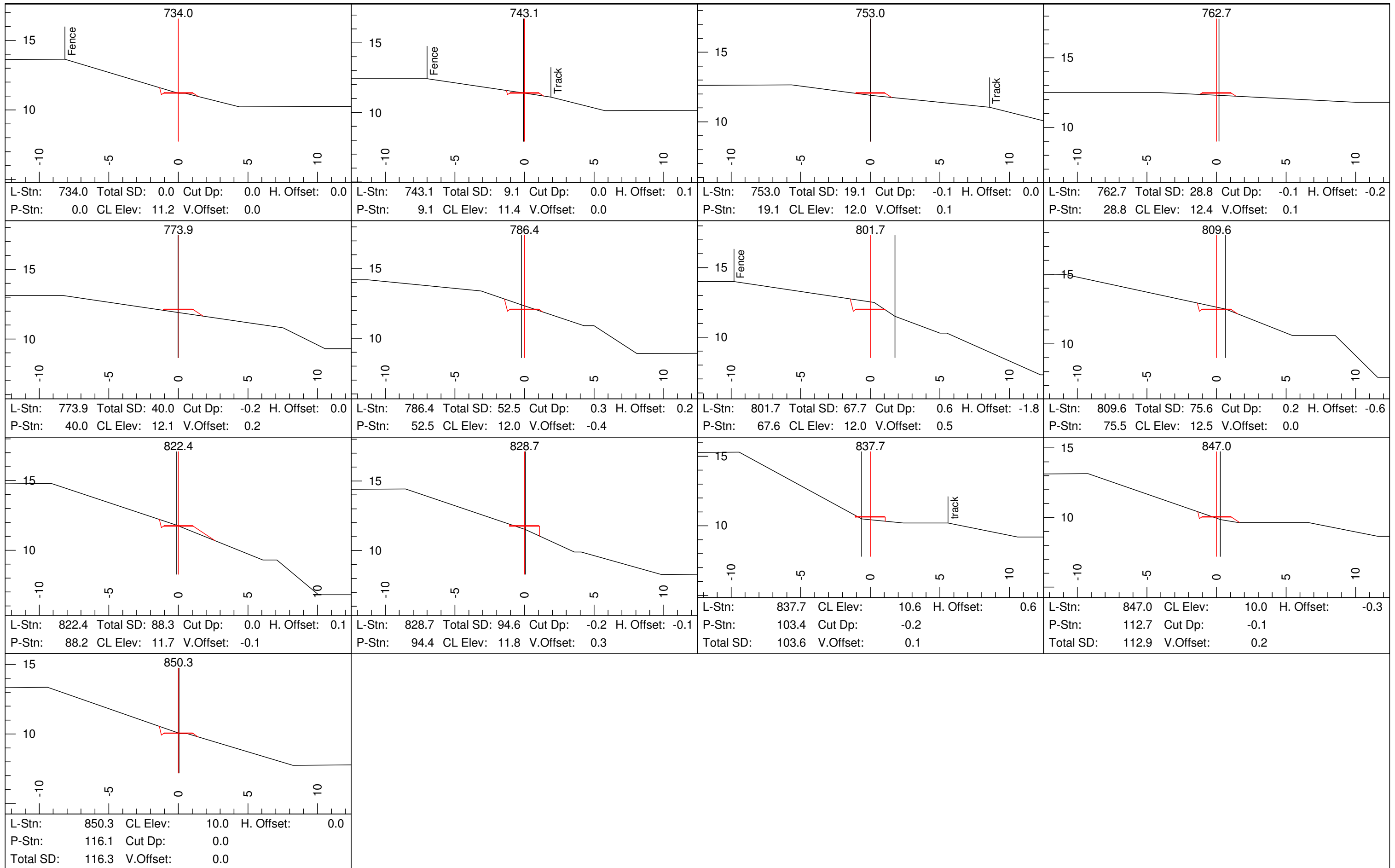
Legend	
□	Plan - Walkway design centreline points
—	Plan - Walkway edges
· · · · ·	Plan - Survey line and marks
- - - - -	Plan - Toe of cut or fill slopes
—	Plan - Existing track to be upgraded
- - - - -	Plan - Existing track to be decommissioned
~~~~~	Plan - Approx. tree dripline
—○—	Profile - Walkway surface level & grade
—	Profile - Topography

PLAN



PROFILE

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				DRAWN <b>JR/DK</b>	FGL JOB <b>14/103</b>
					APPROVED DRAWING <b>14/103 sht 11</b>



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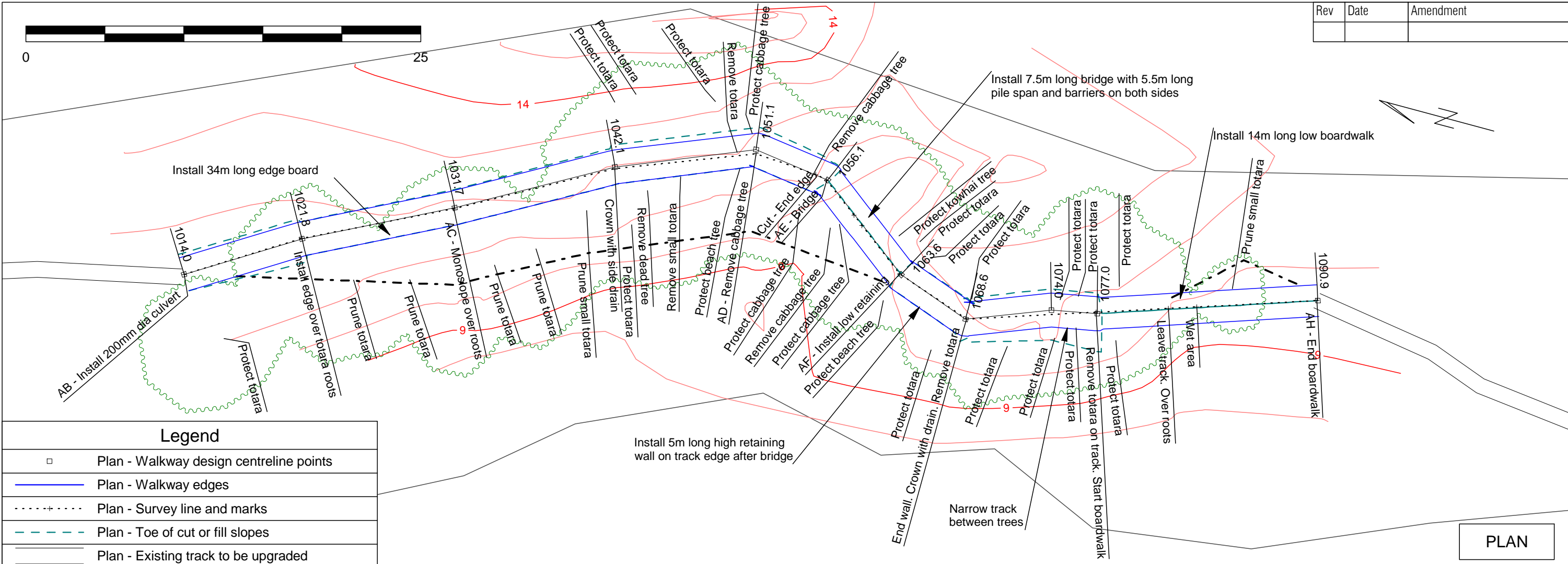
PREPARED FOR  
  
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PROJECT  
 TE WHAU ESPLANADE  
 WALKWAY DEVELOPMENT

TITLE  
 SURVEY #3  
 CROSS SECTIONS

SCALE	Section Scale 1:250	Date:	JANUARY 2015
DRAWN	JR/DK	FGL JOB	14/103
APPROVED		DRAWING	14/103 sht 12
		REV	

Rev	Date	Amendment



PLAN

Legend	
□	Plan - Walkway design centreline points
—	Plan - Walkway edges
.....	Plan - Survey line and marks
- - - - -	Plan - Toe of cut or fill slopes
—	Plan - Existing track to be upgraded
- - - - -	Plan - Existing track to be decommissioned
~~~~~	Plan - Approx. tree dripline
—○—	Profile - Walkway surface level & grade
—	Profile - Topography



PROFILE

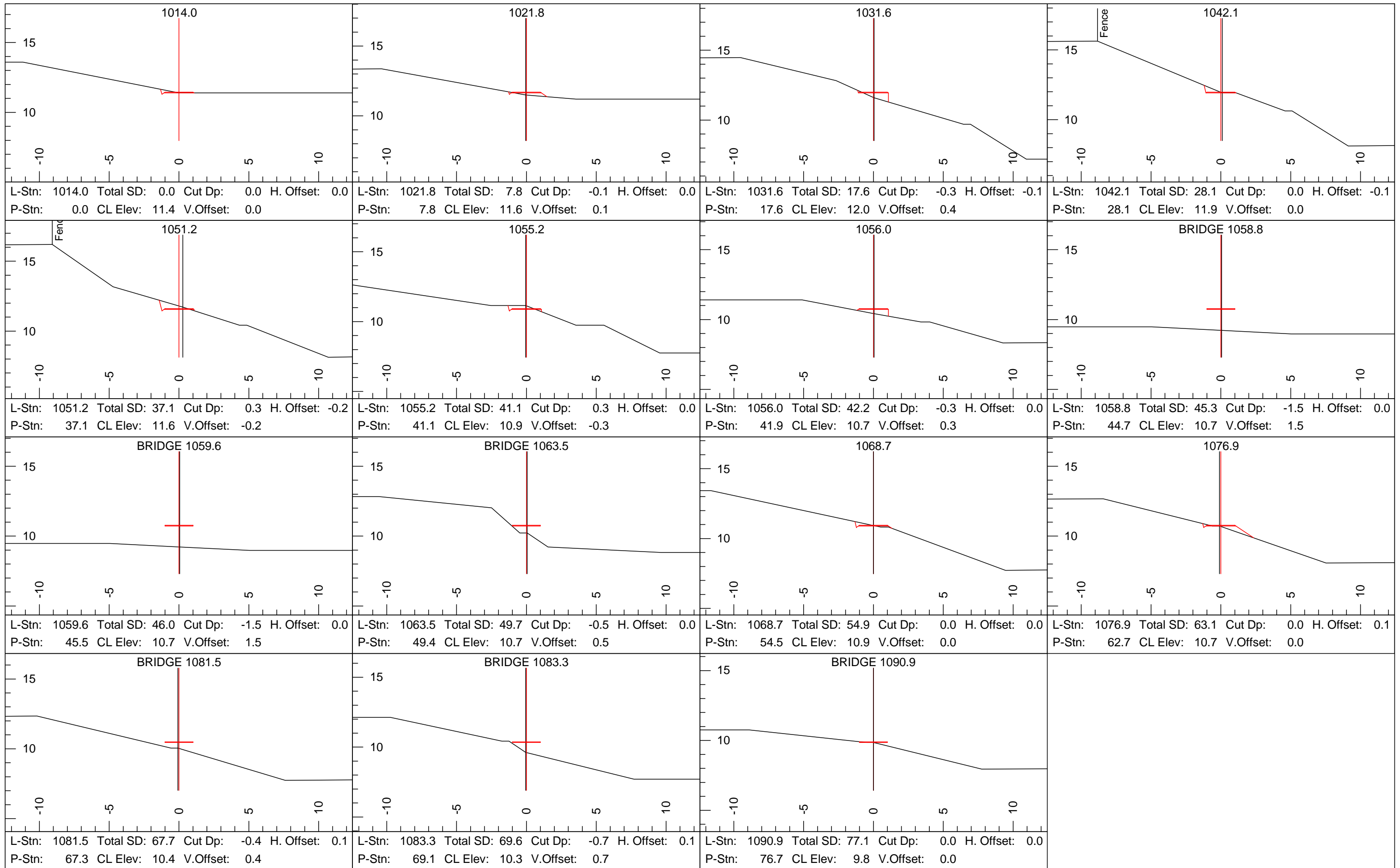
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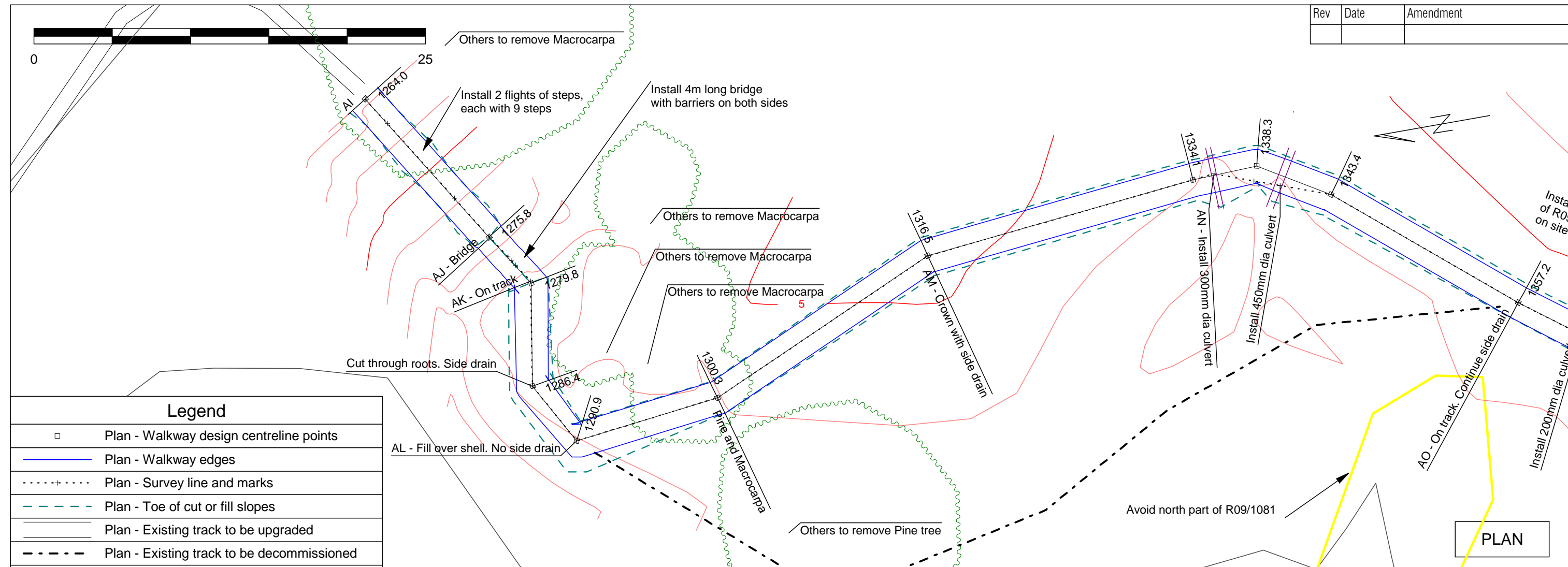
PROJECT
**TE WHAU ESPLANADE
 WALKWAY DEVELOPMENT**

TITLE
**SURVEY #4
 PLAN & PROFILE**

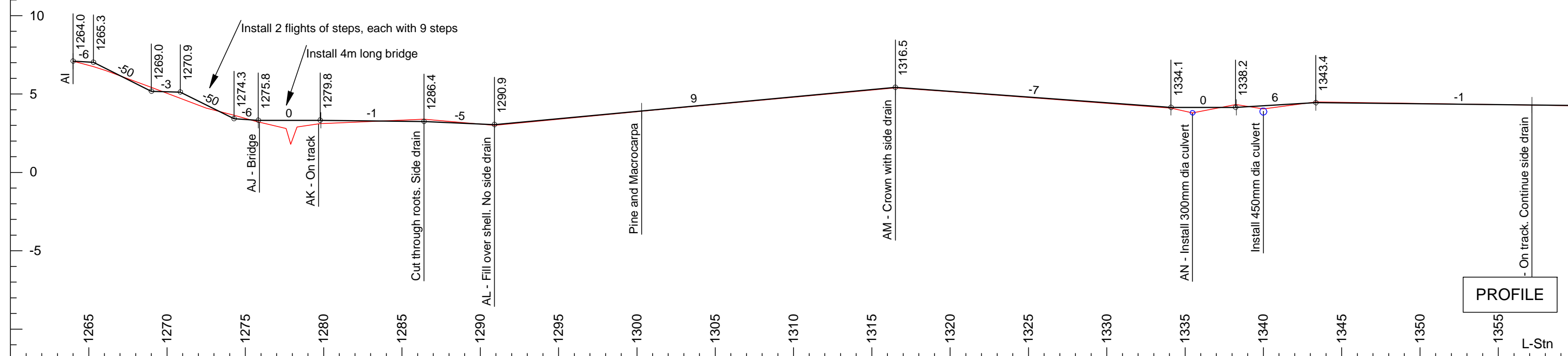
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DRAWN	JR/DK	FGL JOB	14/103
APPROVED		DRAWING	14/103 sht 13
		REV	



Rev	Date	Amendment



Legend	
□	Plan - Walkway design centreline points
—	Plan - Walkway edges
· · · · ·	Plan - Survey line and marks
- - - - -	Plan - Toe of cut or fill slopes
—	Plan - Existing track to be upgraded
- - - - -	Plan - Existing track to be decommissioned
~~~~~	Plan - Approx. tree dripline
—○—	Profile - Walkway surface level & grade
—	Profile - Topography



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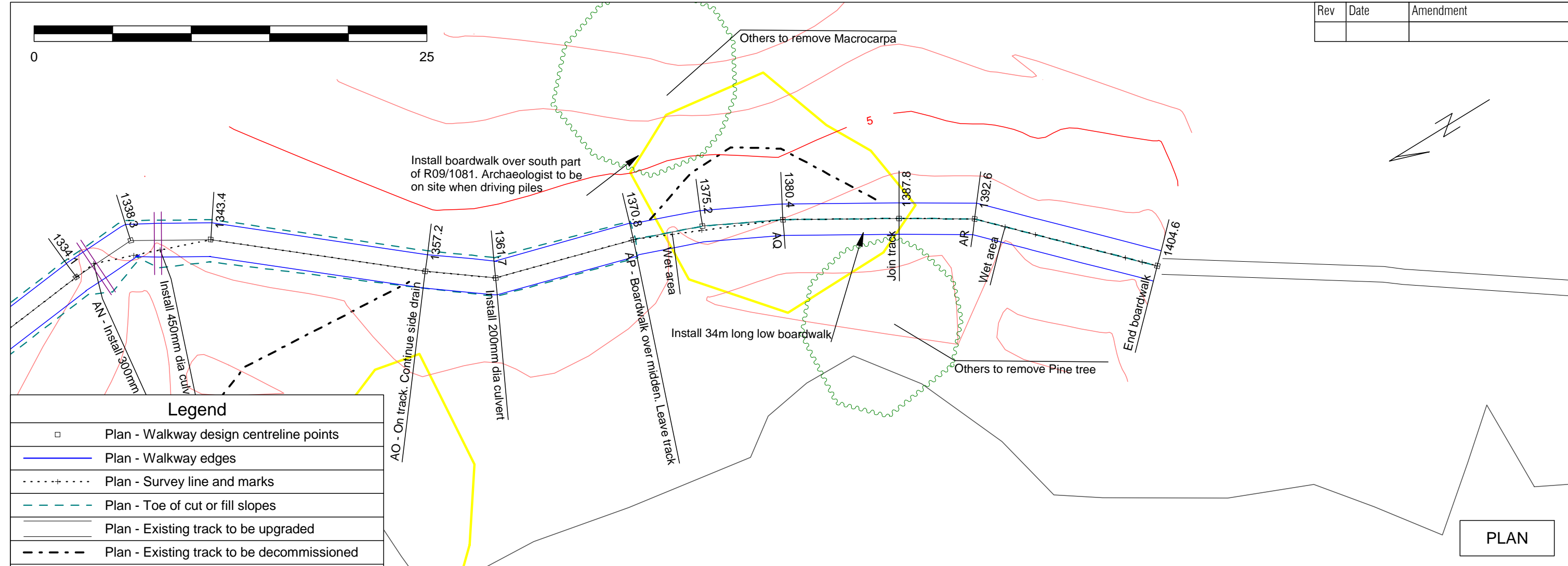
PREPARED FOR  
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PROJECT  
**TE WHAU ESPLANADE WALKWAY DEVELOPMENT**

TITLE  
**SURVEY #5 PLAN & PROFILE**

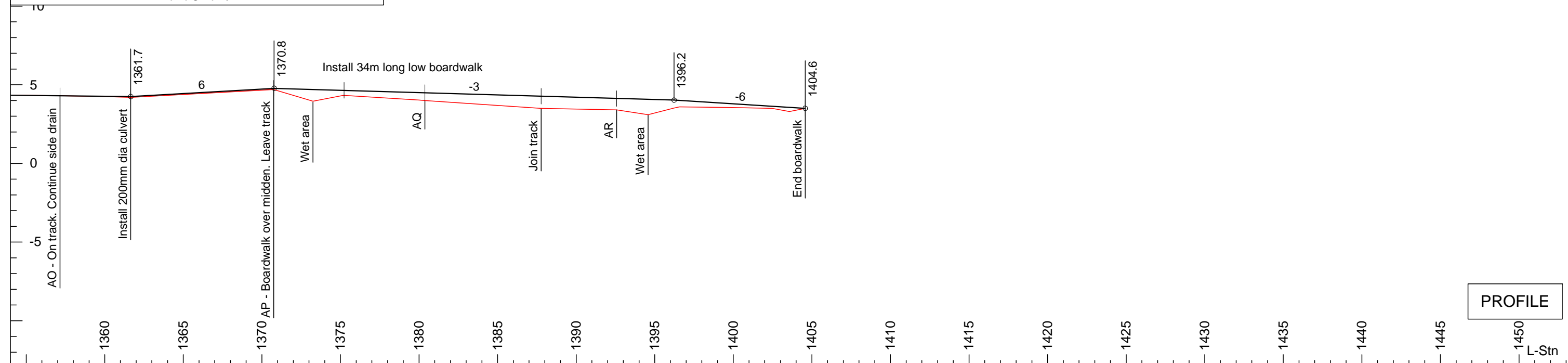
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DRAWN	JR/DK	FGL JOB	14/103
APPROVED		DRAWING	14/103 sht 15
		REV	15

Rev	Date	Amendment



PLAN

Legend	
□	Plan - Walkway design centreline points
—	Plan - Walkway edges
.....	Plan - Survey line and marks
- - - - -	Plan - Toe of cut or fill slopes
—	Plan - Existing track to be upgraded
- - - - -	Plan - Existing track to be decommissioned
~~~~~	Plan - Approx. tree dripline
—○—	Profile - Walkway surface level & grade
—	Profile - Topography



PROFILE

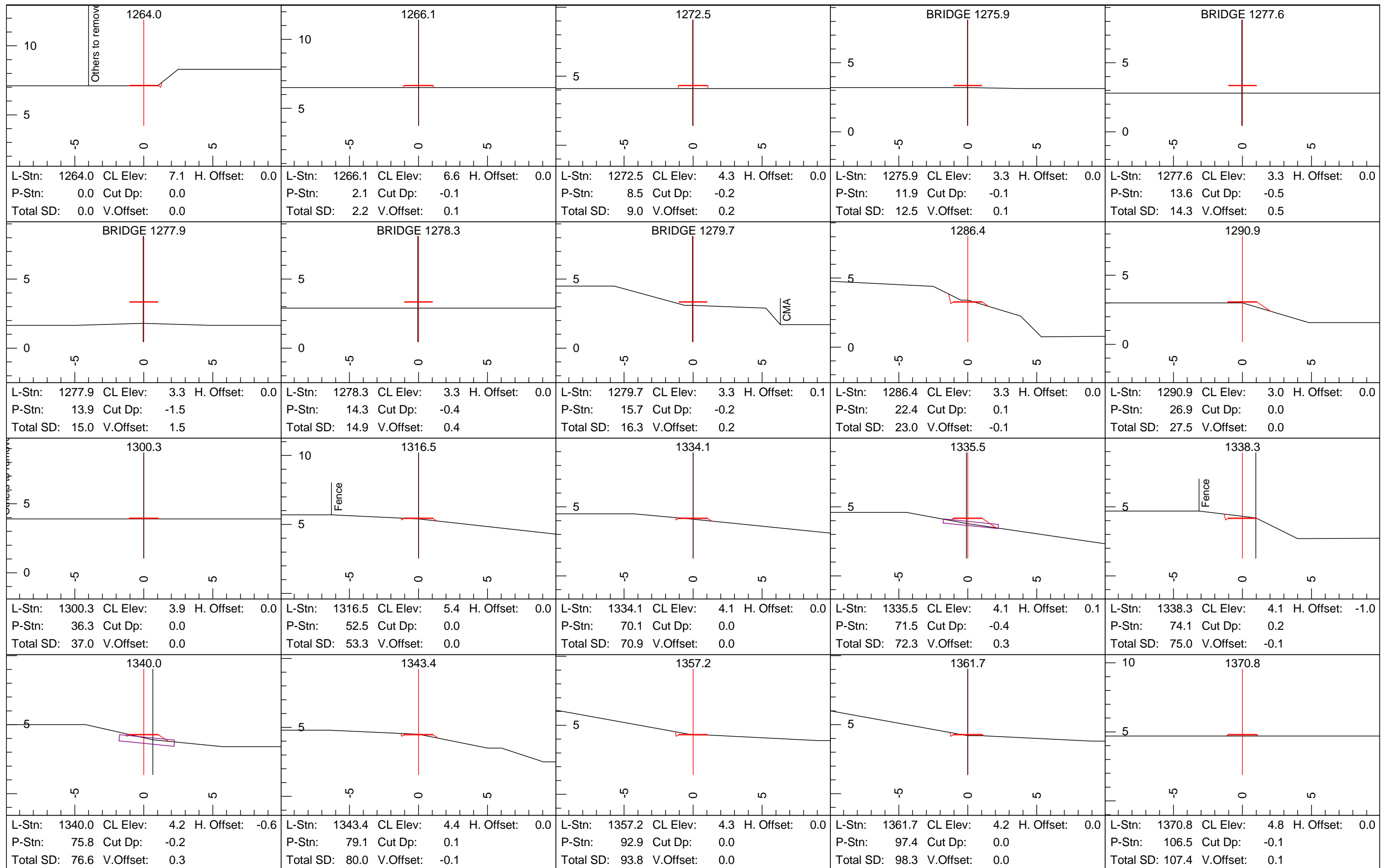
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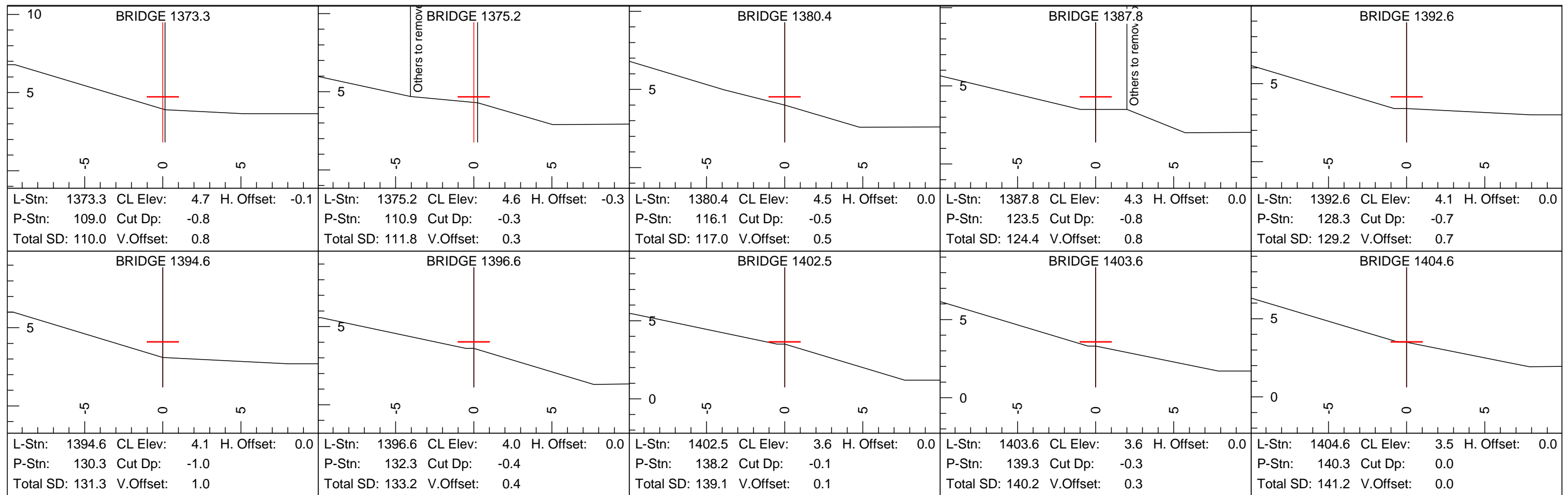
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PROJECT
 TE WHAU ESPLANADE
 WALKWAY DEVELOPMENT

TITLE
 SURVEY #5
 PLAN & PROFILE

SCALE	Plan Scale 1:250 Profile Vert Scale 1:250 Profile Horz Scale 1:250	Date:	JANUARY 2015
DRAWN	JR/DK	FGL JOB	14/103
APPROVED		DRAWING	14/103 sht 16
		REV	

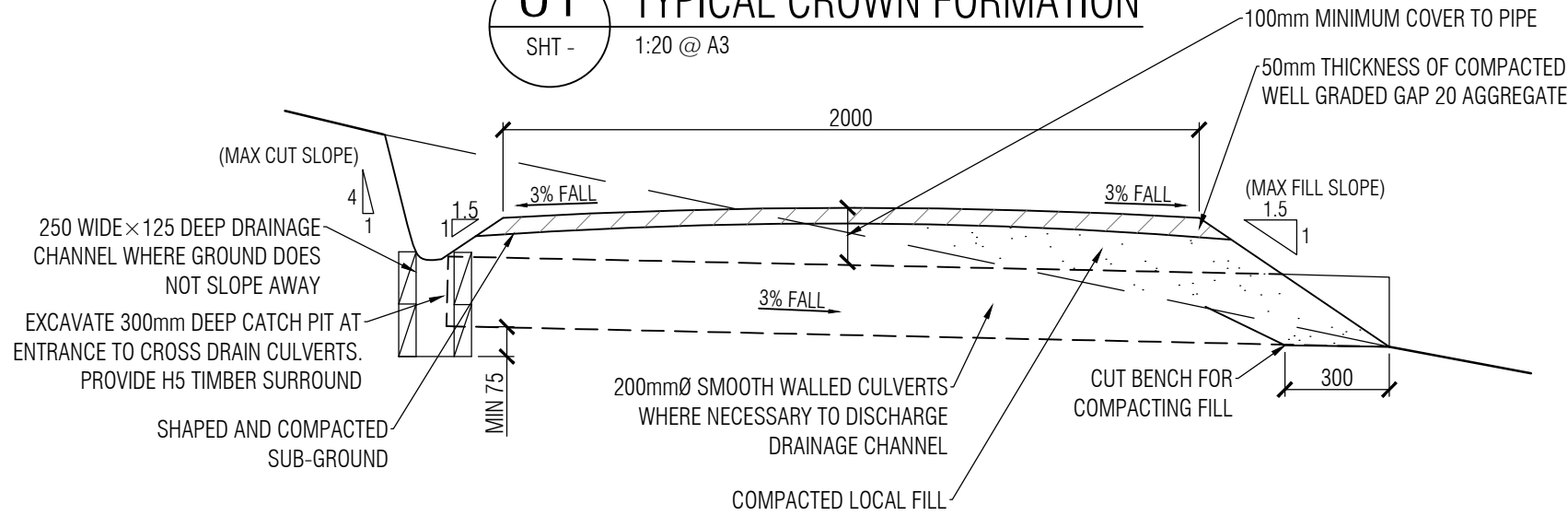




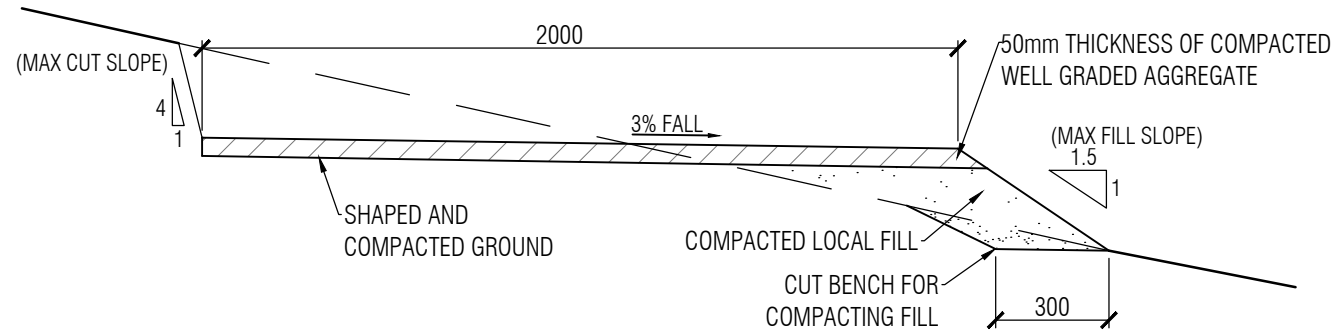
DO NOT SCALE

Rev	Date	Amendment

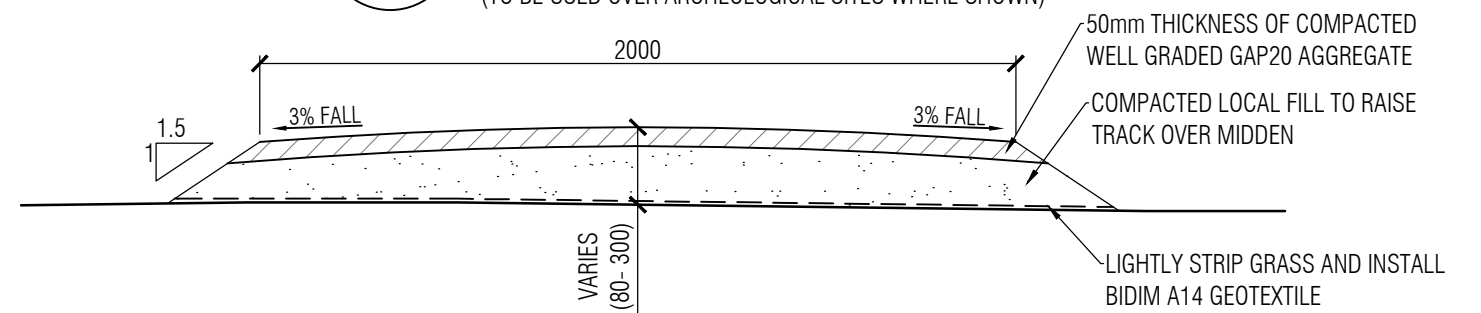
01 TYPICAL CROWN FORMATION
SHT - 1:20 @ A3



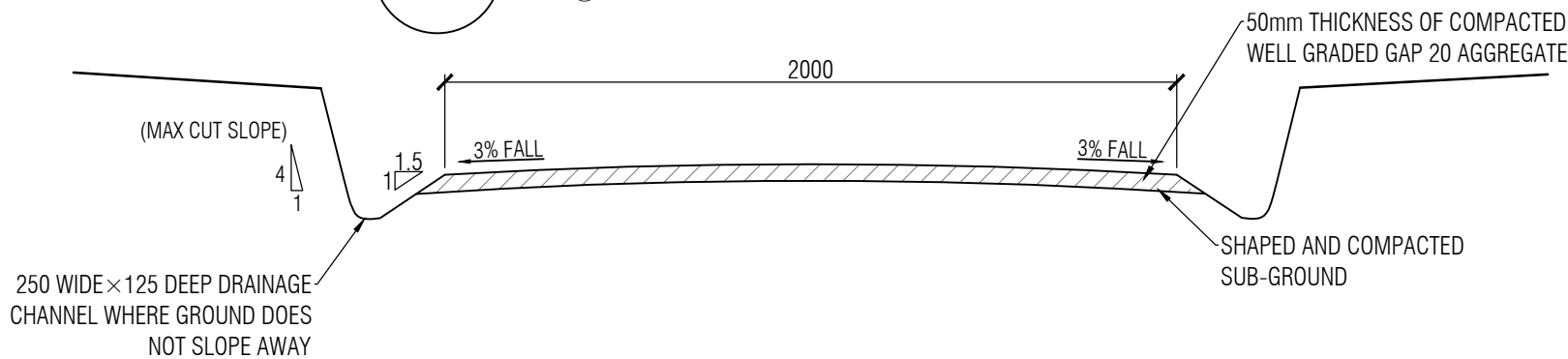
02 TYPICAL MONOSLOPE FORMATION
SHT - 1:20 @ A3
(TO BE USED OVER TREE ROOTS WHERE SHOWN)



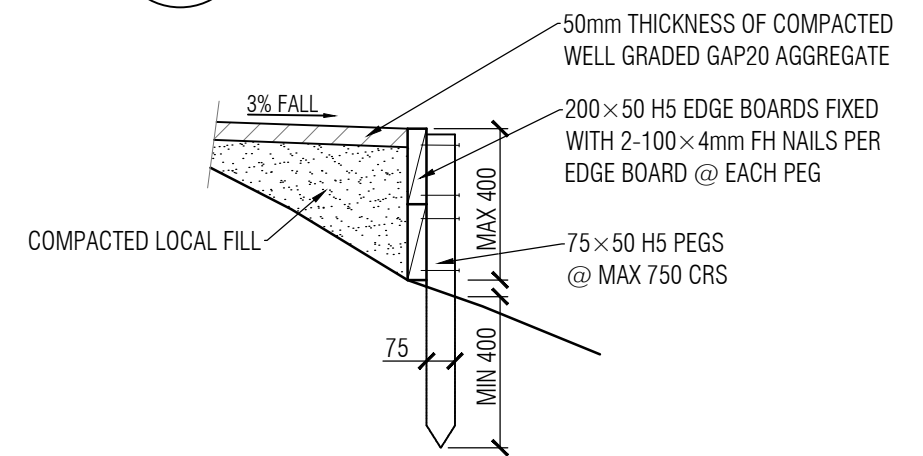
04 TYPICAL FILL FORMATION
SHT - 1:20 @ A3
(TO BE USED OVER ARCHEOLOGICAL SITES WHERE SHOWN)



03 TYPICAL FULL CUT FORMATION
SHT - 1:20 @ A3



05 EDGE BOARD DETAIL
SHT - 1:20 @ A3



DO NOT SCALE

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PROJECT
**TE WHAU ESPLANADE
WALKWAY DEVELOPMENT**

TITLE
TRACK DETAILS

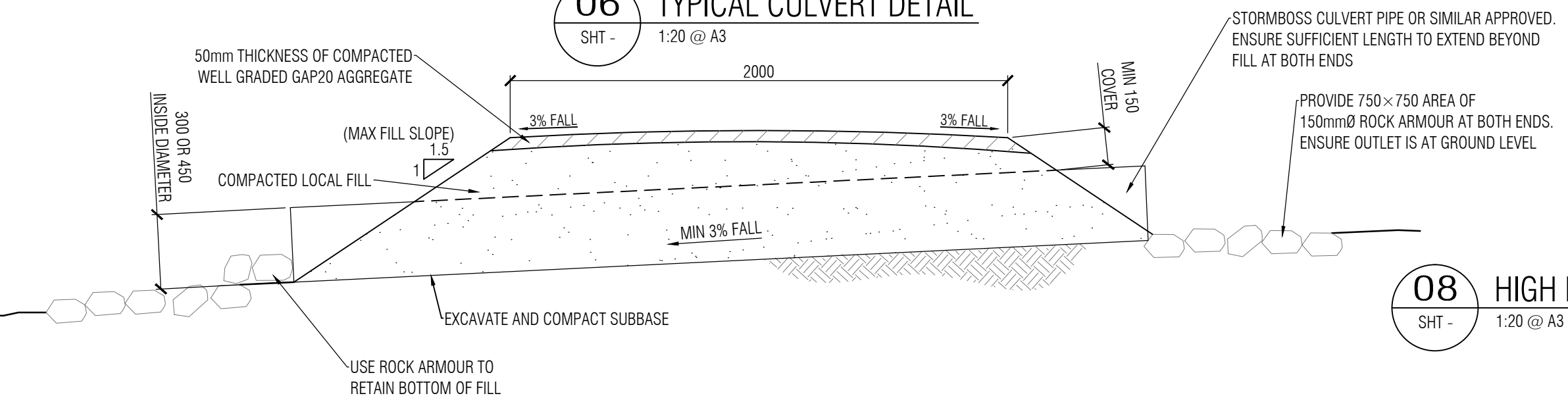
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DRAWN	HM	DESIGNED	DK
		FGL JOB	14/103
APPROVED		DRAWING	14/103 SHT 19
		REV	

DO NOT SCALE

Rev	Date	Amendment

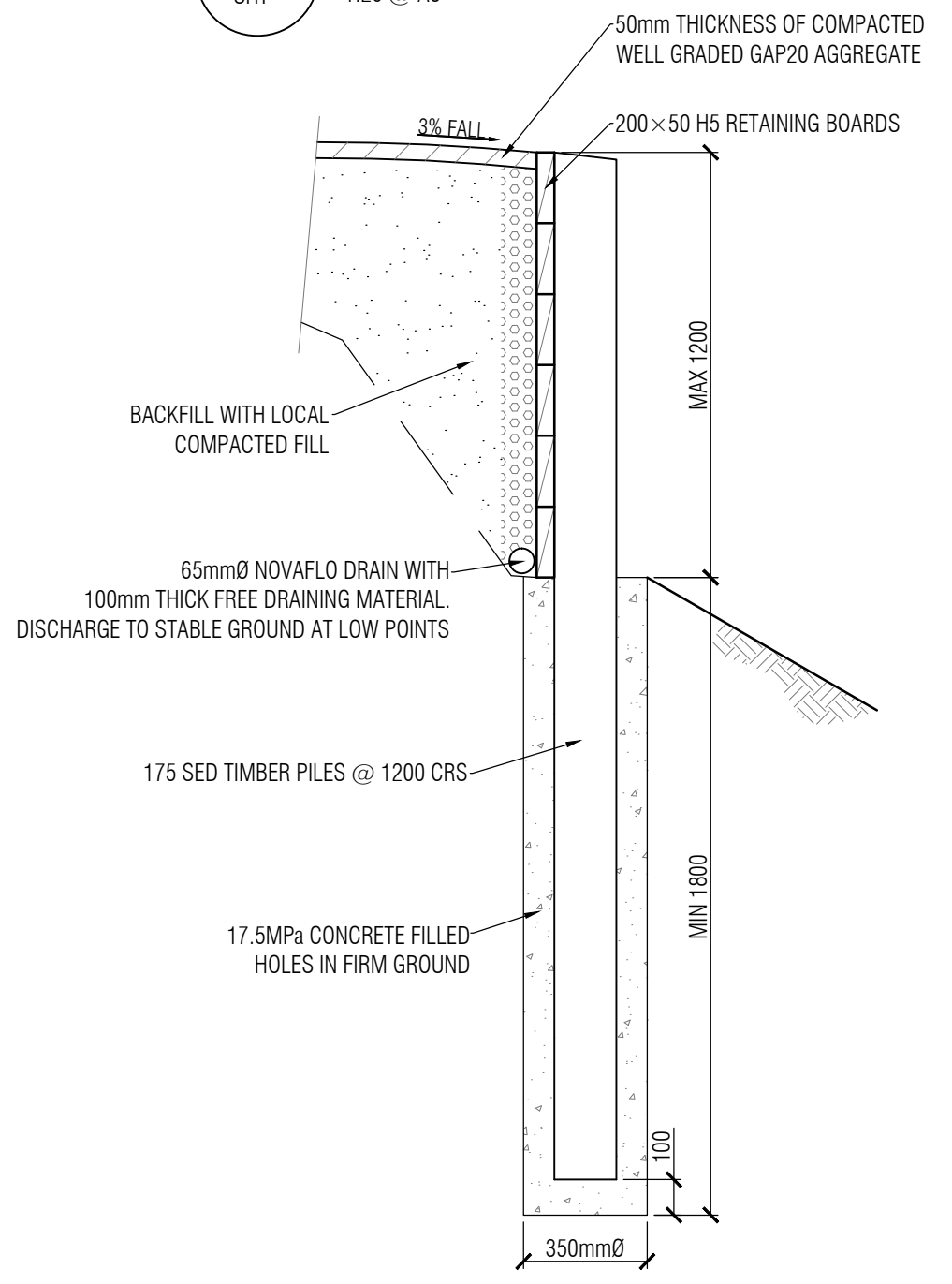
06 TYPICAL CULVERT DETAIL

SHT - 1:20 @ A3



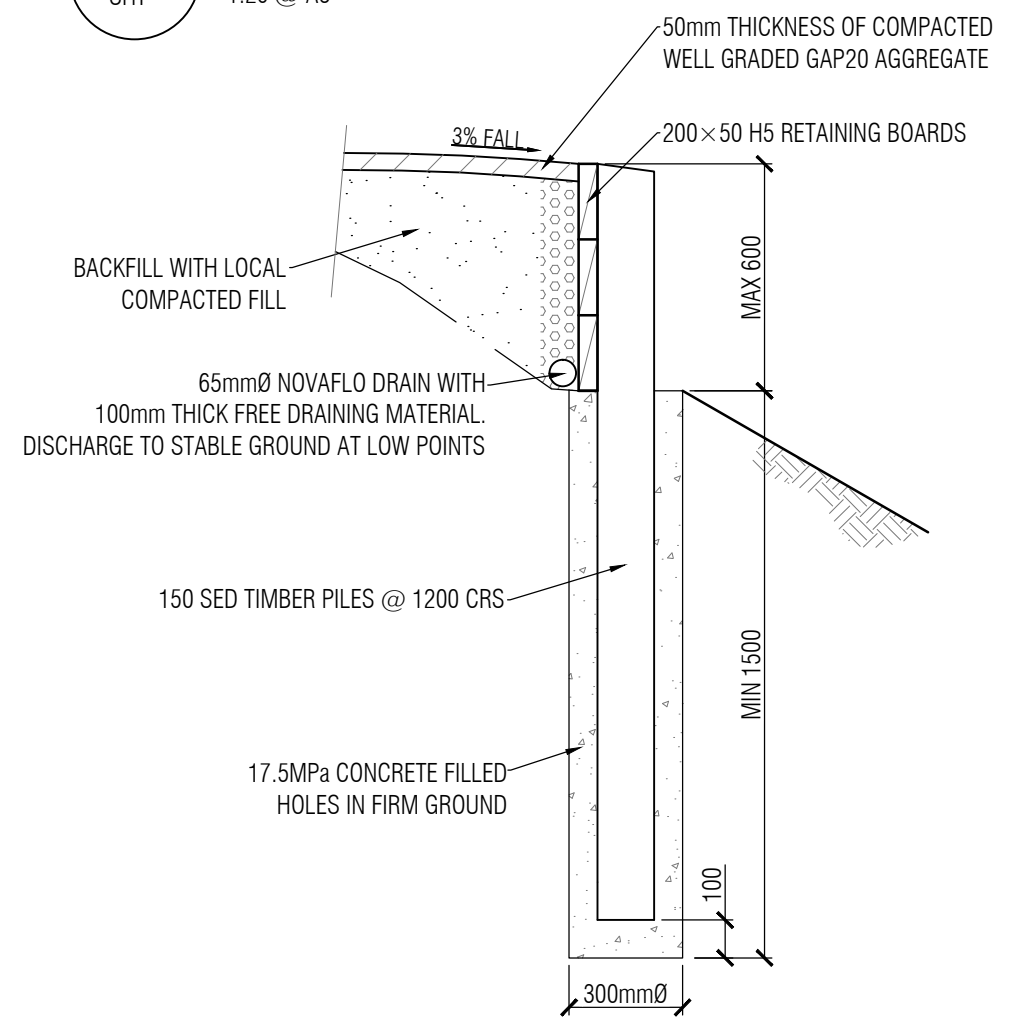
08 HIGH RETAINING WALL DETAIL

SHT - 1:20 @ A3



07 LOW RETAINING WALL DETAIL

SHT - 1:20 @ A3



DO NOT SCALE

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PROJECT
**TE WHAU ESPLANADE
 WALKWAY DEVELOPMENT**

TITLE
**CULVERT AND RETAINING WALL
 DETAILS**

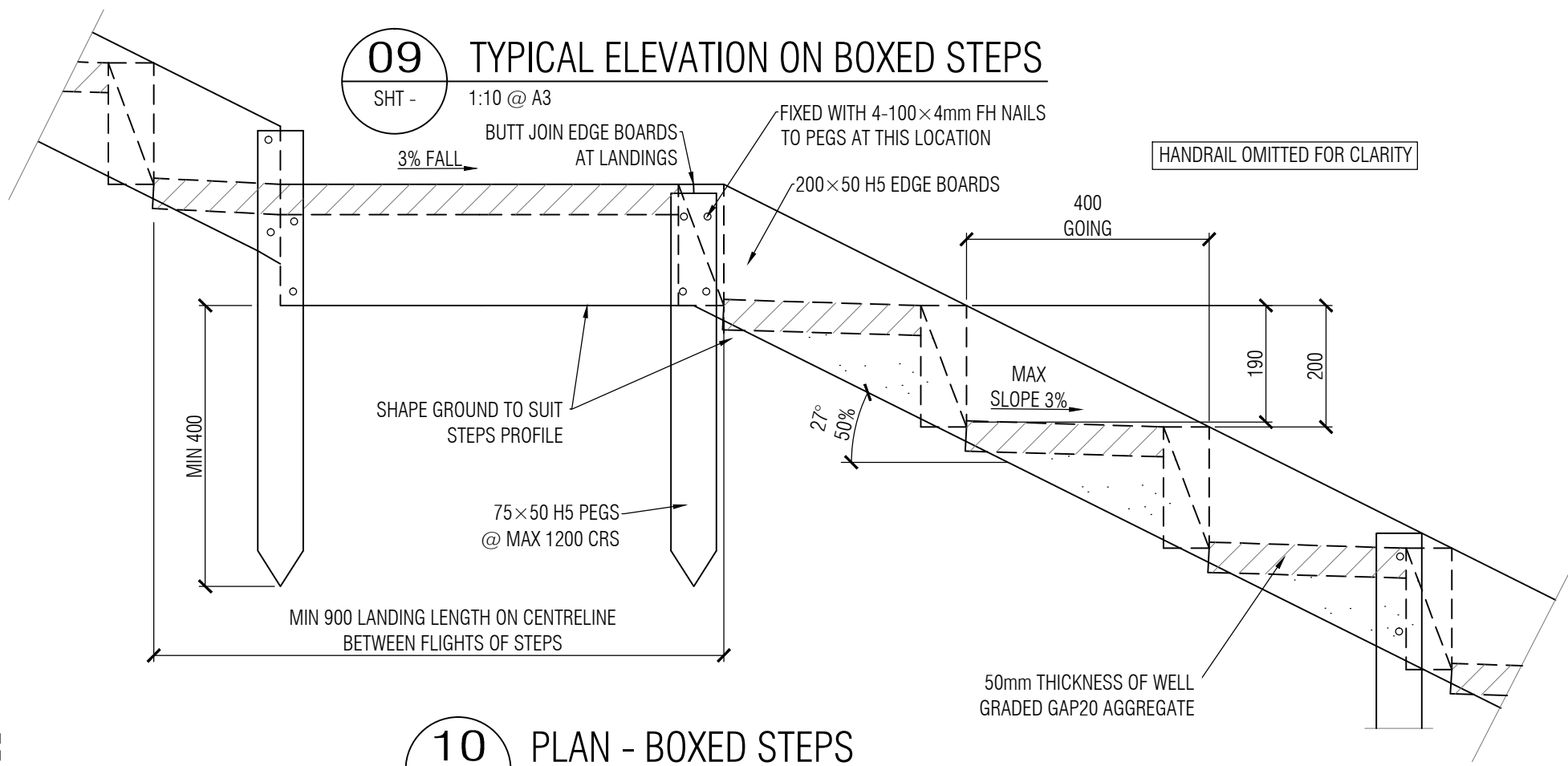
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DRAWN	HM	DESIGNED	DK
APPROVED	DRAWING		REV
14/103 SHT 20		14/103	

DO NOT SCALE

Rev	Date	Amendment

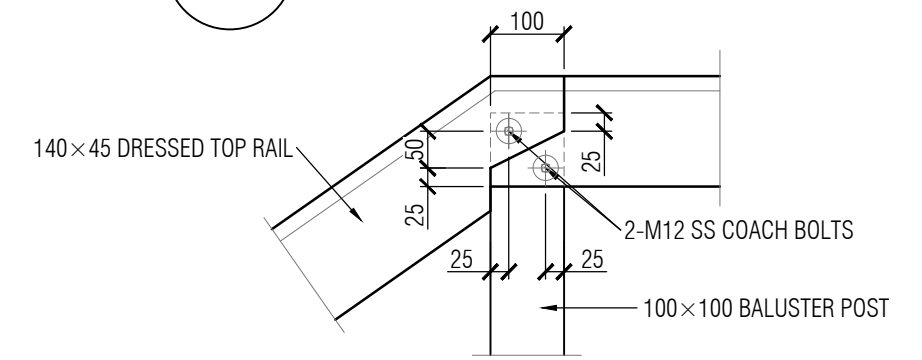
09 TYPICAL ELEVATION ON BOXED STEPS

SHT - 1:10 @ A3



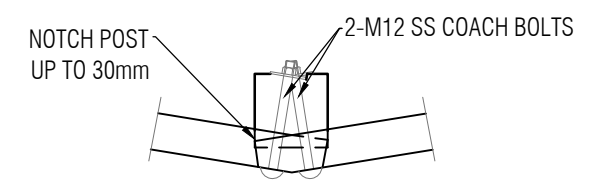
11 HANDRAIL SPLICE ELEVATION

SHT - 1:10 @ A3



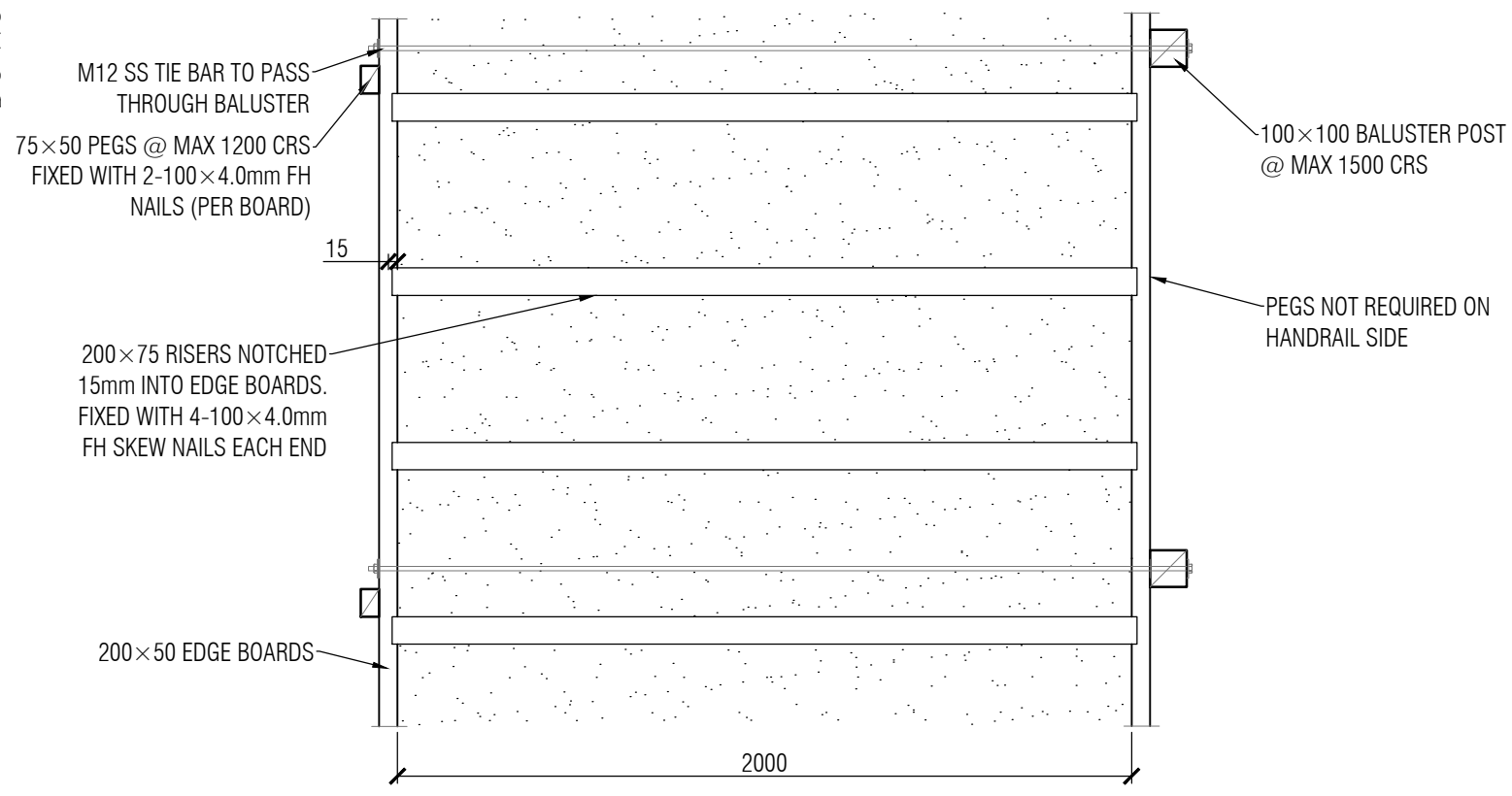
12 HANDRAIL SPLICE PLAN

SHT - 1:10 @ A3



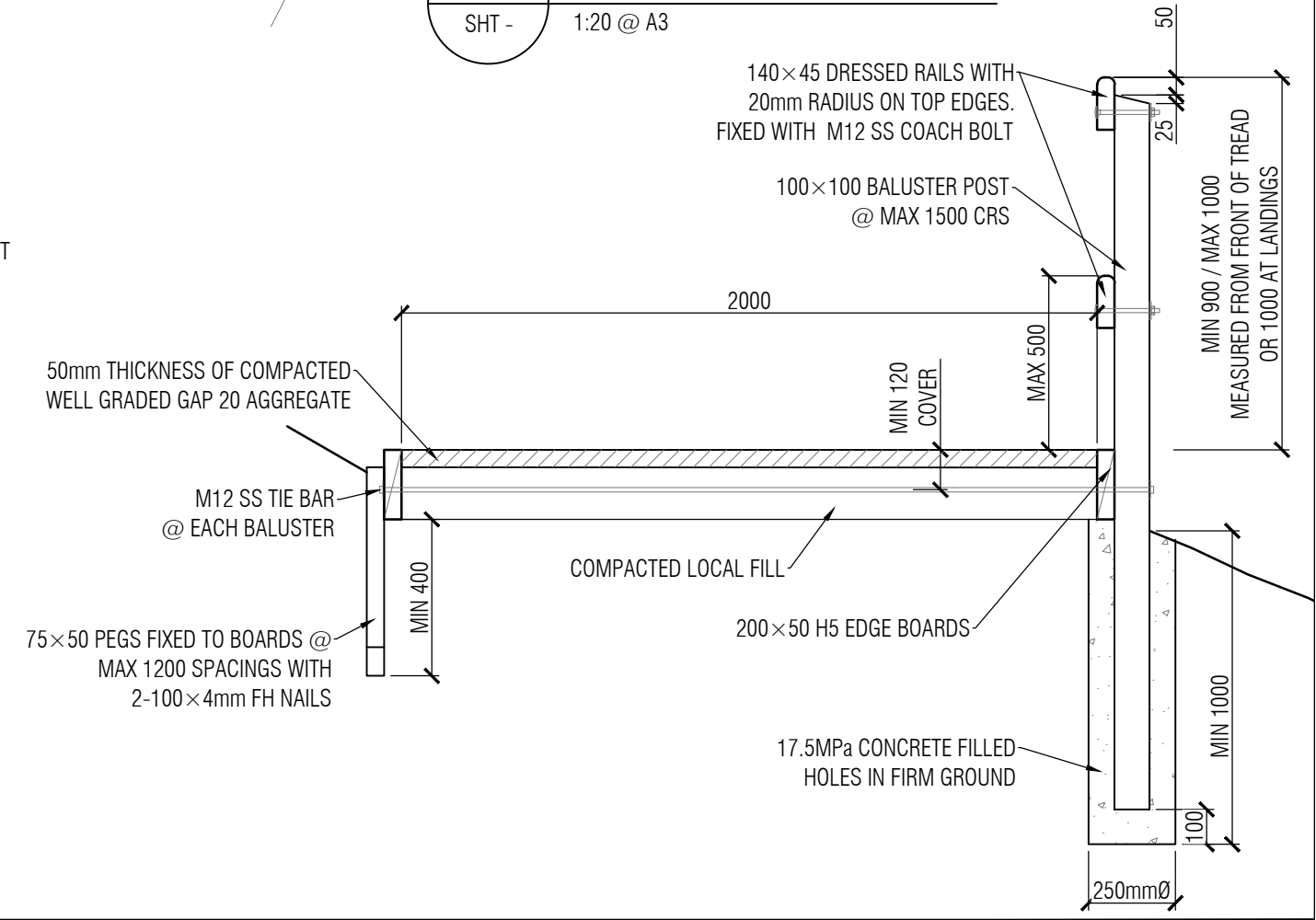
10 PLAN - BOXED STEPS

SHT - 1:20 @ A3

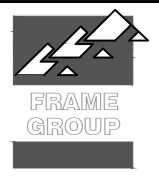


A BOXED STEPS SECTION

SHT - 1:20 @ A3



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PREPARED FOR PROJECT
TE WHAU ESPLANADE WALKWAY DEVELOPMENT

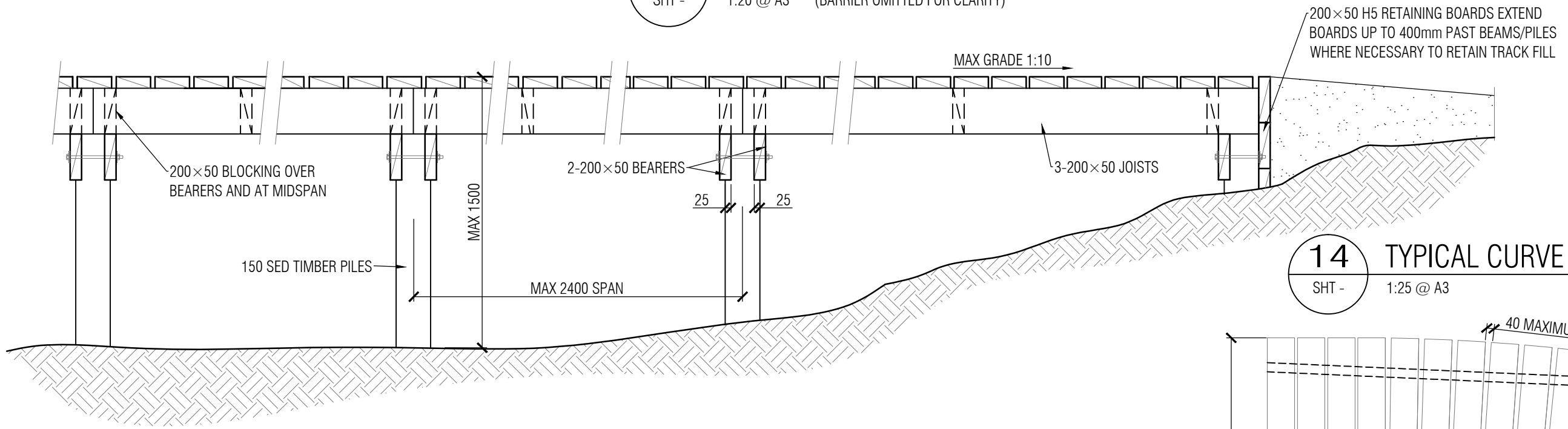
TITLE
BOXED STEPS DETAILS

SCALE	AS SHOWN	DATE	FEBRUARY 2015
DRAWN	HM	DESIGNED	DK
APPROVED		DRAWING	14/103 SHT 21
		REV	

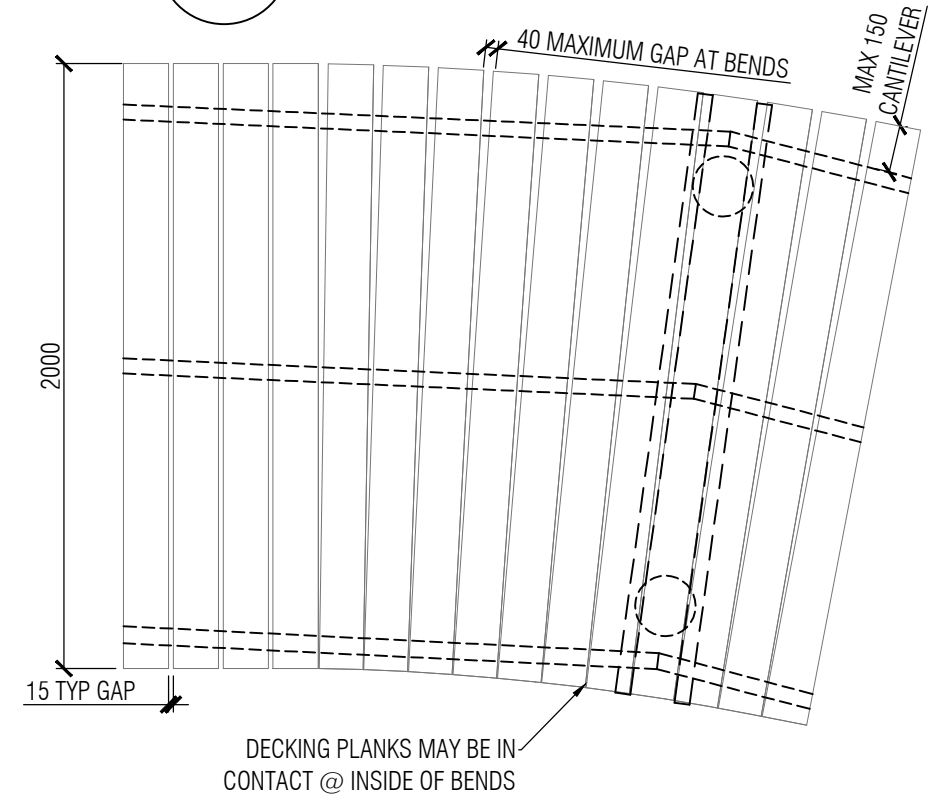
DO NOT SCALE

Rev	Date	Amendment

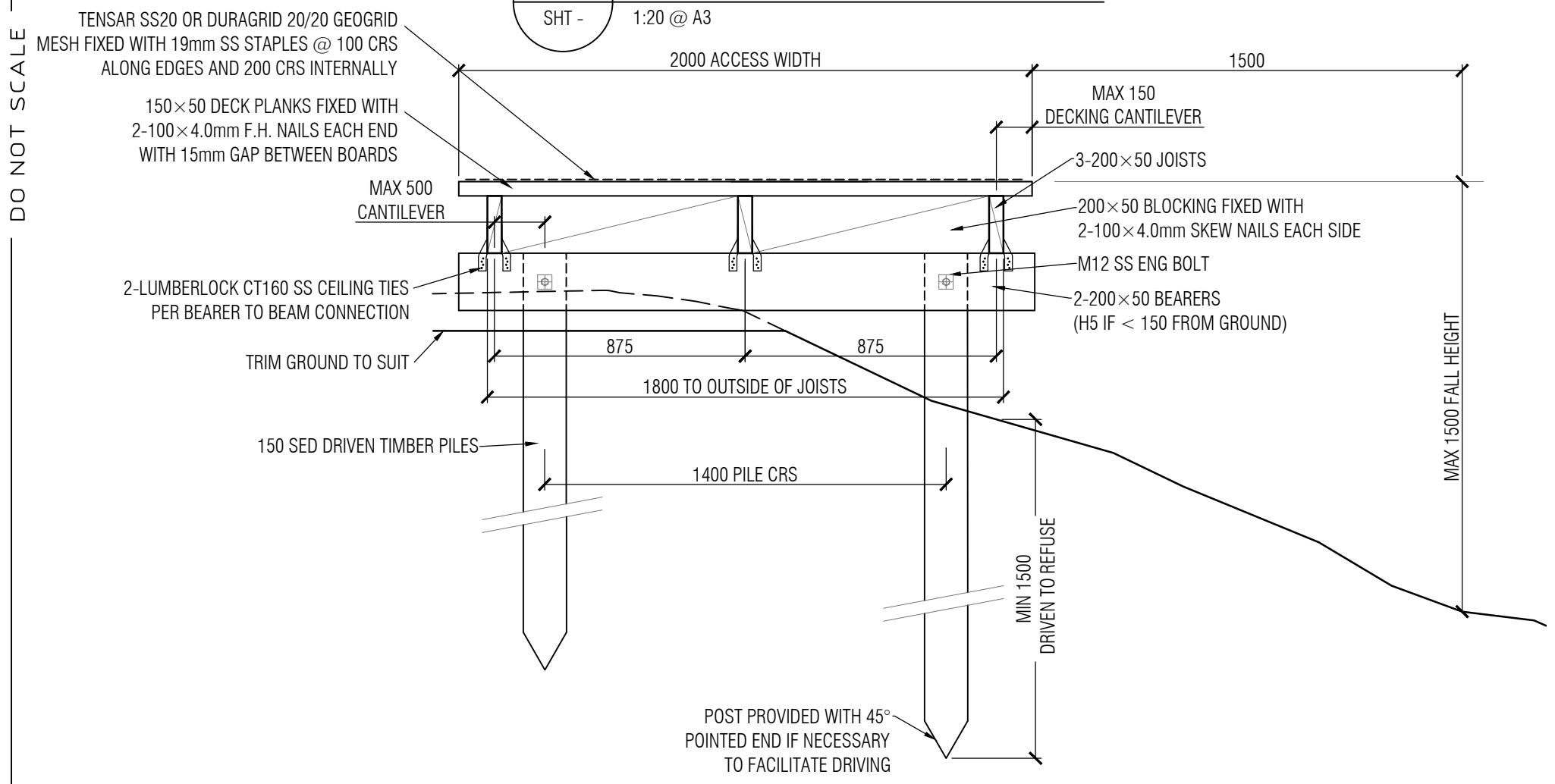
13 BOARDWALK ELEVATION
SHT - 1:20 @ A3 (BARRIER OMITTED FOR CLARITY)



14 TYPICAL CURVE DETAIL
SHT - 1:25 @ A3



B NEW LOW BOARDWALK SECTION
SHT - 1:20 @ A3



THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH SNZ HB 8630:2004 "TRACKS AND OUTDOOR VISITOR STRUCTURES"

DESIGN DETAILS	
SITE USER GROUP	SST
BARRIER DESIGN LOAD	N/A
DECK DESIGN LOAD	3.6 kPa
EFFECTIVE FALL HEIGHT	>1.5m
FALL SURFACE	FAV

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Te Kaitiaki o Tāmaki Makaurau

PROJECT
TE WHAU ESPLANADE WALKWAY DEVELOPMENT

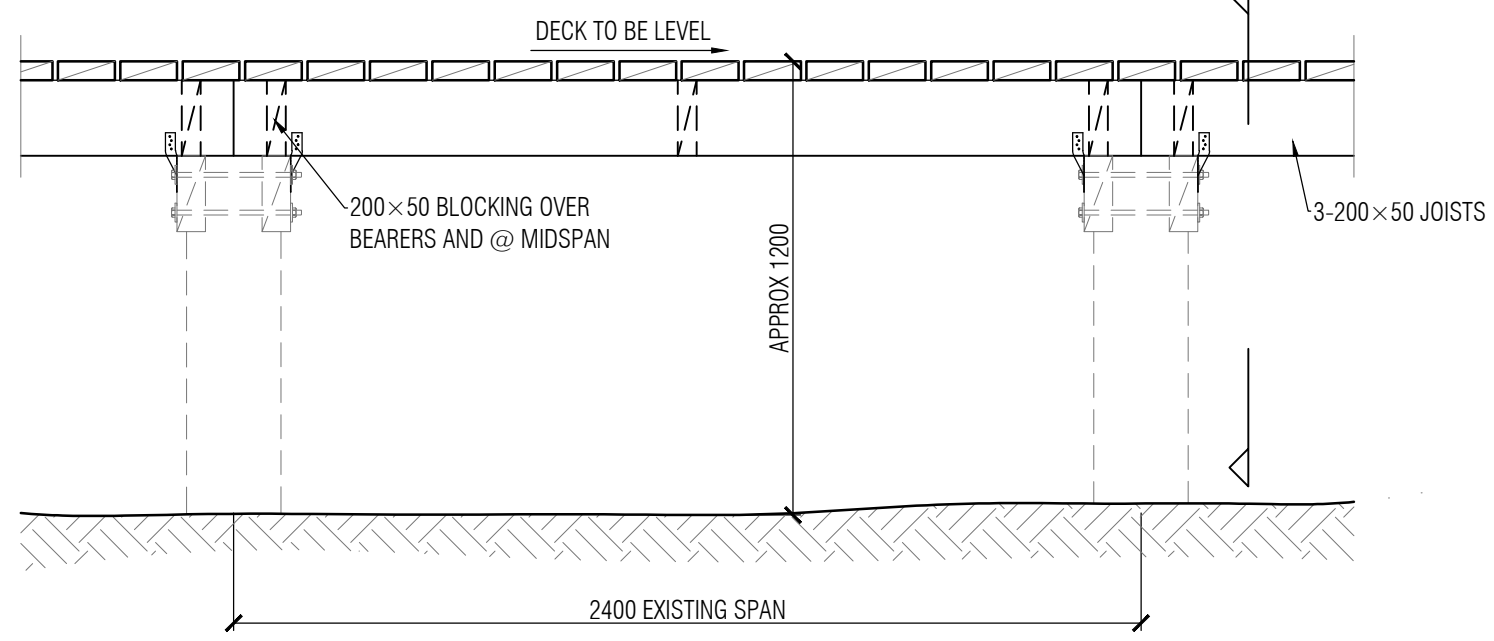
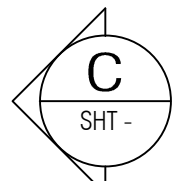
TITLE
NEW LOW BOARDWALK SECTION AND DETAILS

SCALE	AS SHOWN	DATE	FEBRUARY 2015
DRAWN	HM	DESIGNED	DK
FGL JOB		14/103	
APPROVED	DRAWING		REV
14/103 SHT 22			

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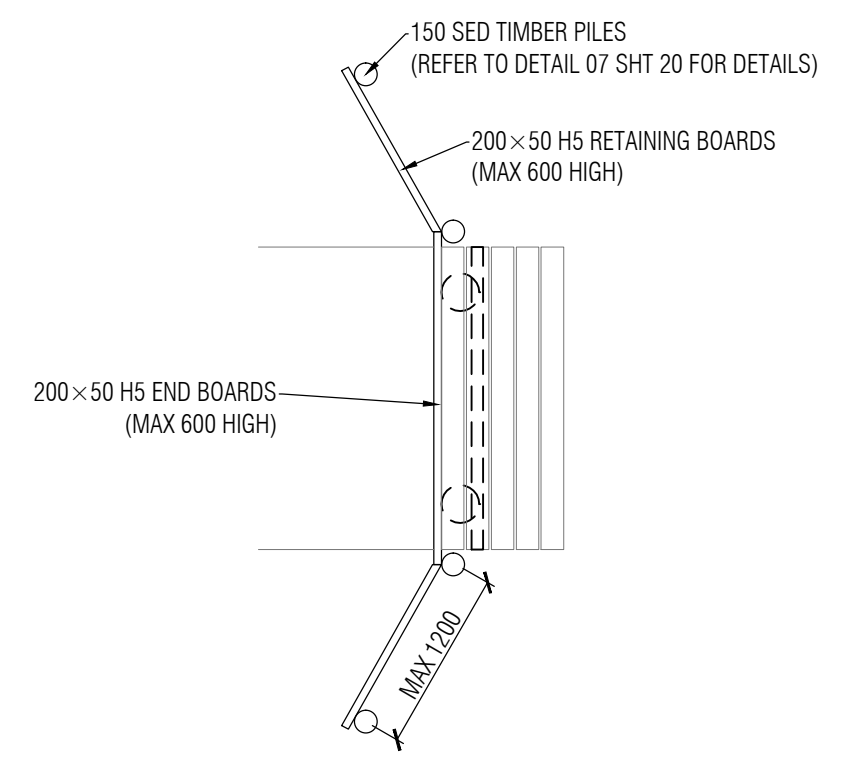
Rev	Date	Amendment

15 LOW BOARDWALK PART ELEVATION
SHT - 1:20 @ A3

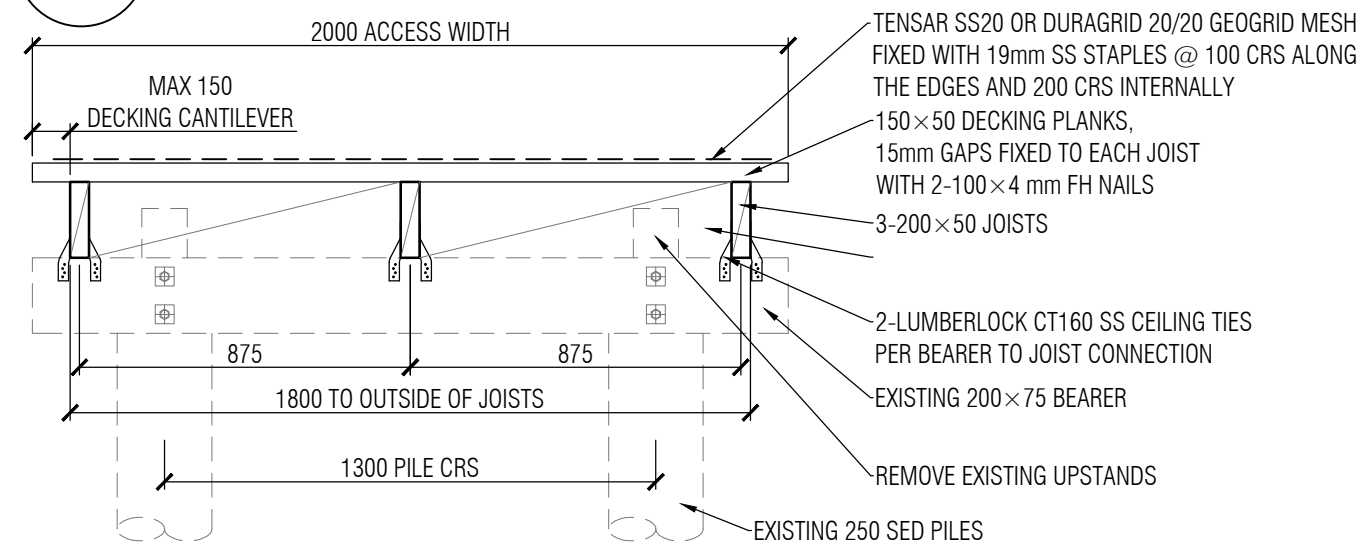


- NOTES:**
- REMOVE AND DISPOSE OF EXISTING UNUSED BOARDWALK SUPER STRUCTURE (JOISTS, BLOCKING, DECKING AND BARRIERS).
 - RE-USE SS FIXINGS WHERE POSSIBLE.
 - RE-USE 200x50 DRESSED TIMBER AS BLOCKING.

16 BOARDWALK END DETAIL
SHT - 1:20 @ A3



C EXISTING LOW BOARDWALK SECTION
SHT - 1:20 @ A3



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PROJECT
TE WHAU ESPLANADE WALKWAY DEVELOPMENT

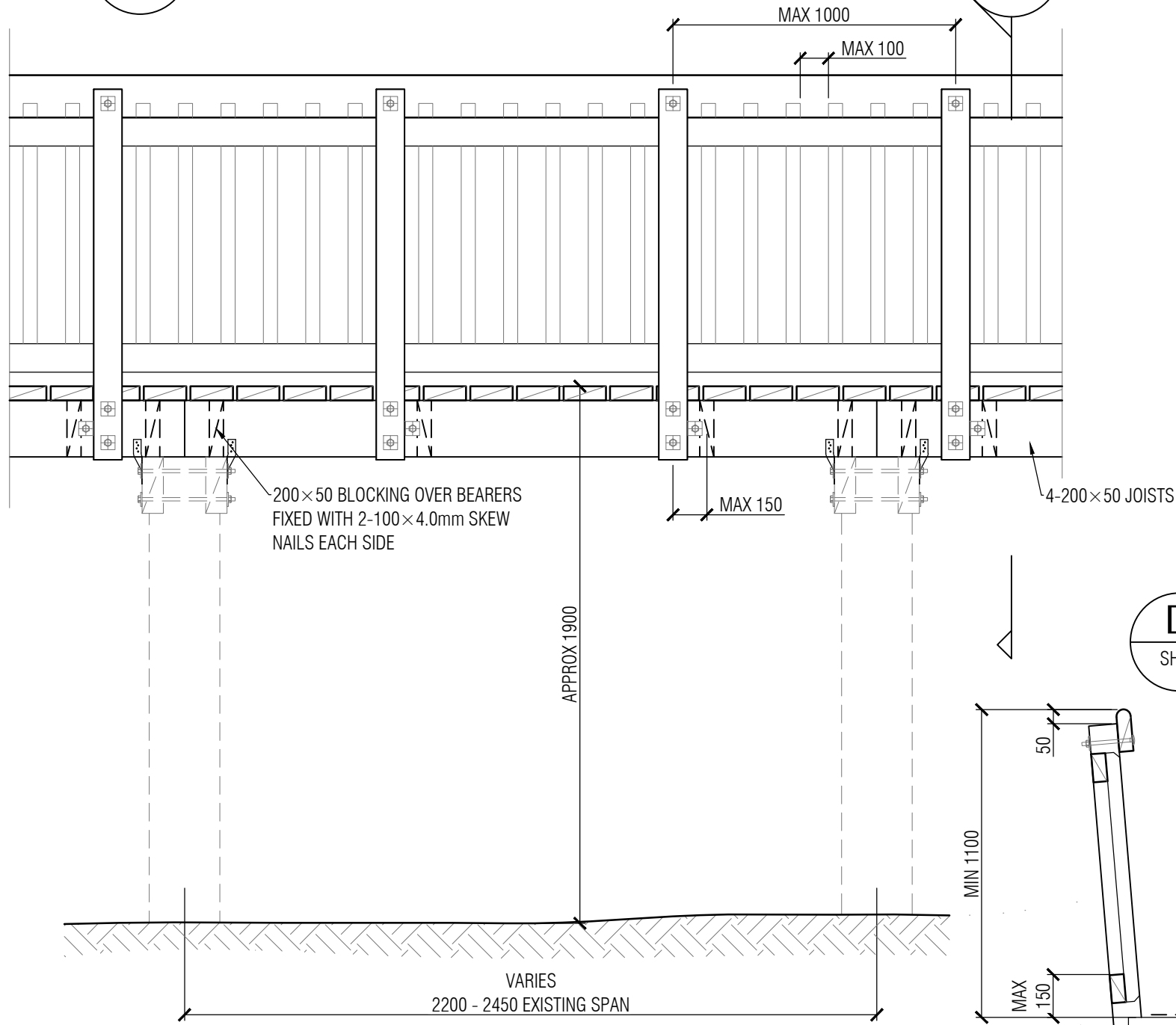
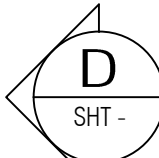
TITLE
EASTERN BOARDWALK SECTION AND ELEVATION

SCALE	AS SHOWN	DATE	FEBRUARY 2015
DRAWN	HM	DESIGNED	DK
		FGL JOB	14/103
APPROVED		DRAWING	14/103 SHT P23
		REV	

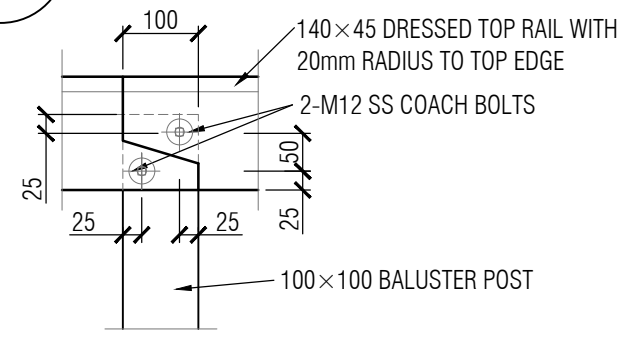
DO NOT SCALE

Rev	Date	Amendment

17 HIGH BOARDWALK PART ELEVATION
SHT - 1:20 @ A3



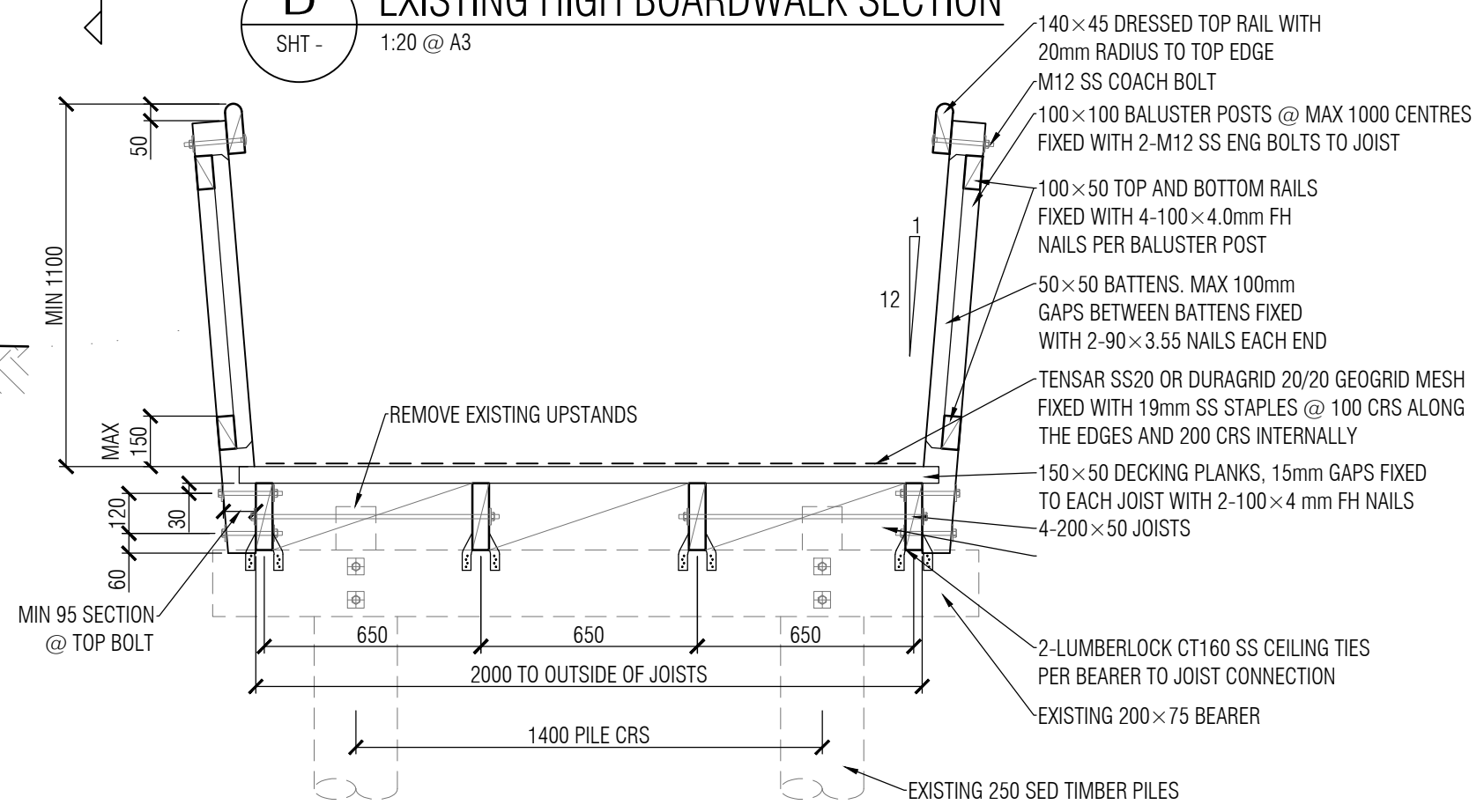
18 TOP RAIL SPLICE ELEVATION
SHT - 1:10 @ A3



DRAFT

DO NOT SCALE

D EXISTING HIGH BOARDWALK SECTION
SHT - 1:20 @ A3



- NOTES:
- REMOVE AND DISPOSE OF EXISTING UNUSED BOARDWALK SUPER STRUCTURE (JOISTS, BLOCKING, DECKING AND BARRIERS).
 - RE-USE SS FIXINGS WHERE POSSIBLE.
 - RE-USE 200x50 DRESSED TIMBER AS BLOCKING.
 - REFER TO DETAIL 16 SHT 23 FOR BOARDWALK END DETAIL.

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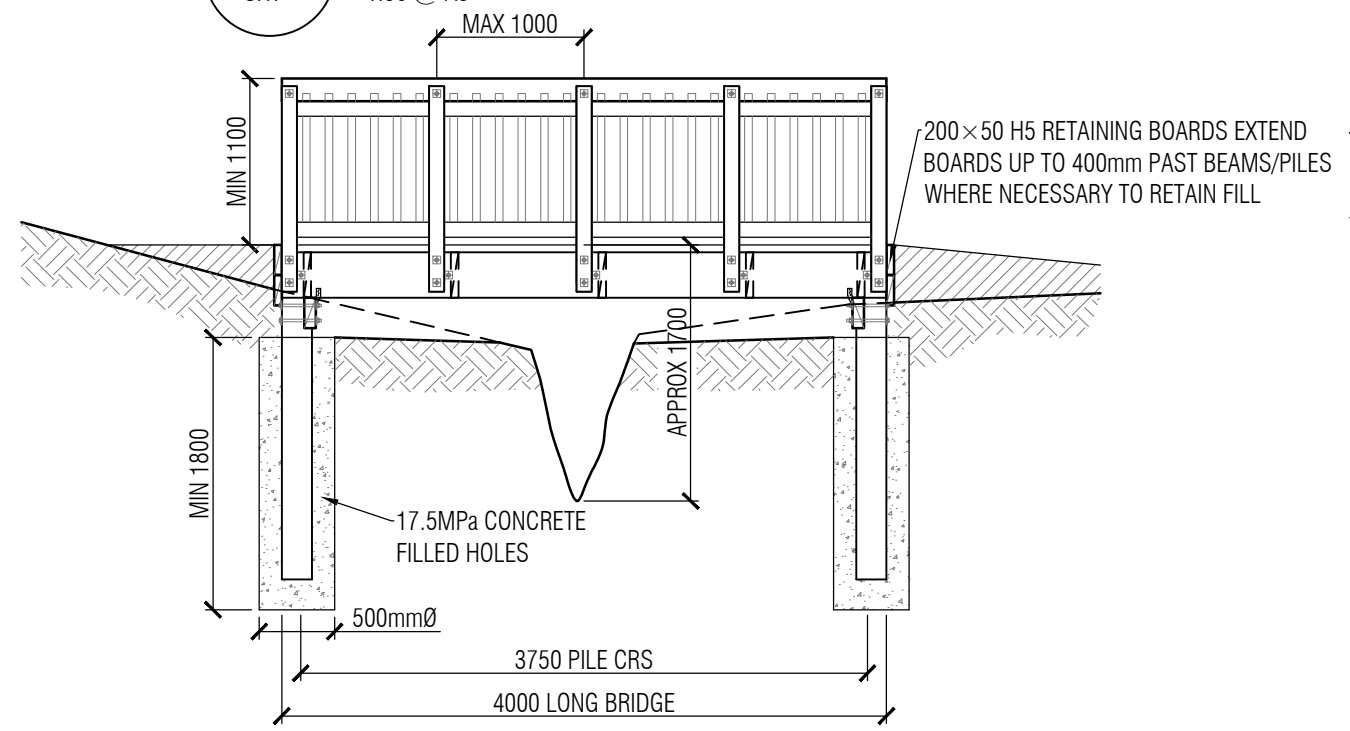
PROJECT
**TE WHAU ESPLANADE
WALKWAY DEVELOPMENT**

TITLE
**WESTERN BOARDWALK
SECTION AND ELEVATION**

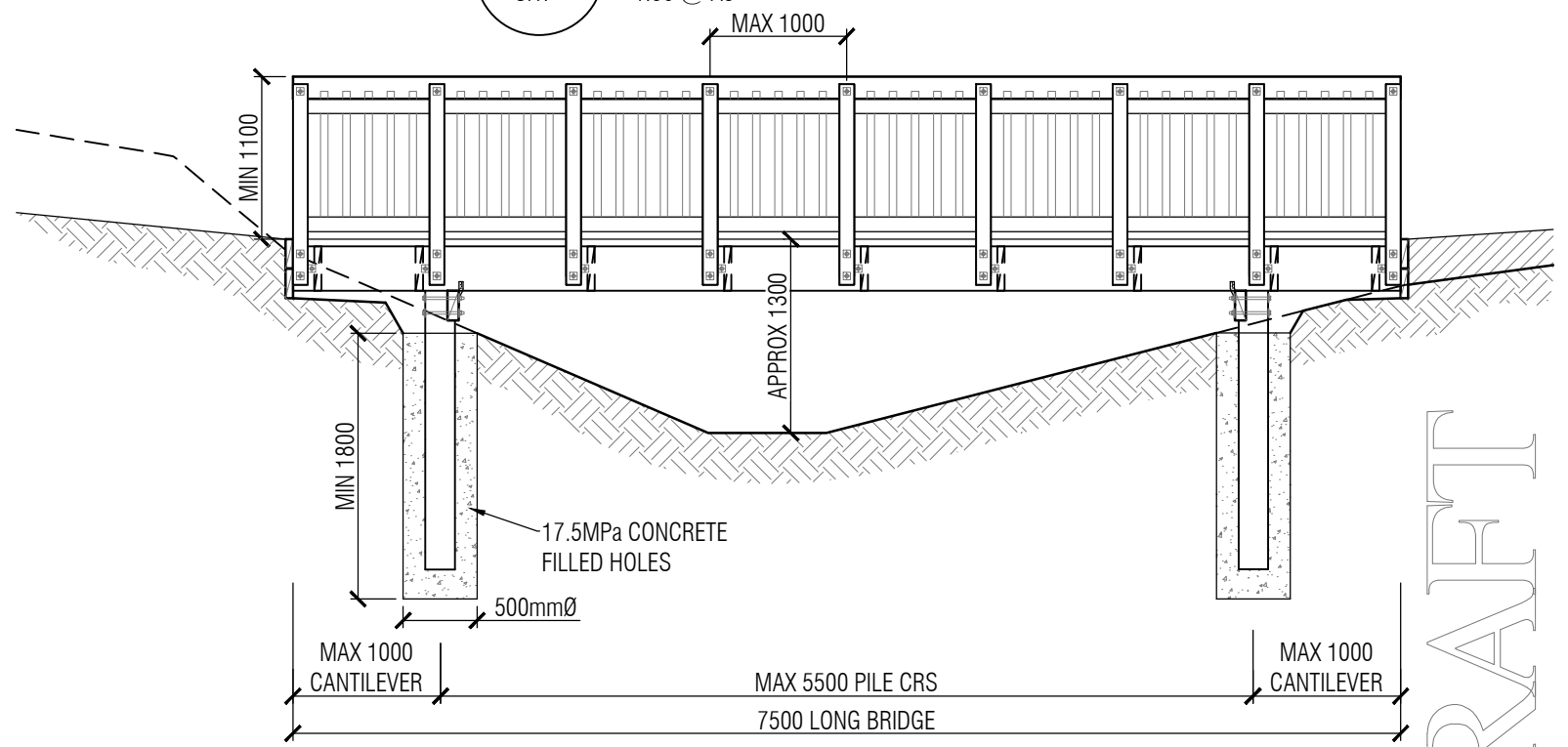
SCALE	AS SHOWN	DATE	FEBRUARY 2015
DRAWN	HM	DESIGNED	DK
		FGL JOB	14/103
APPROVED		DRAWING	14/103 SHT P24
		REV	

Rev	Date	Amendment

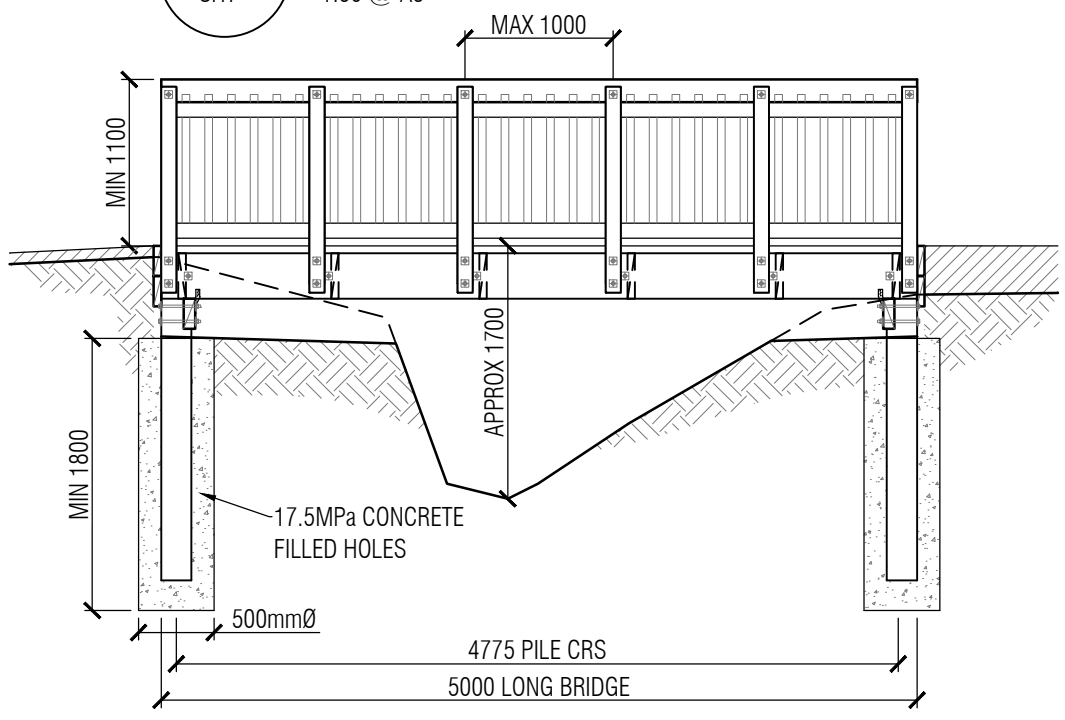
19 4m LONG BRIDGE ELEVATION
SHT - 1:50 @ A3



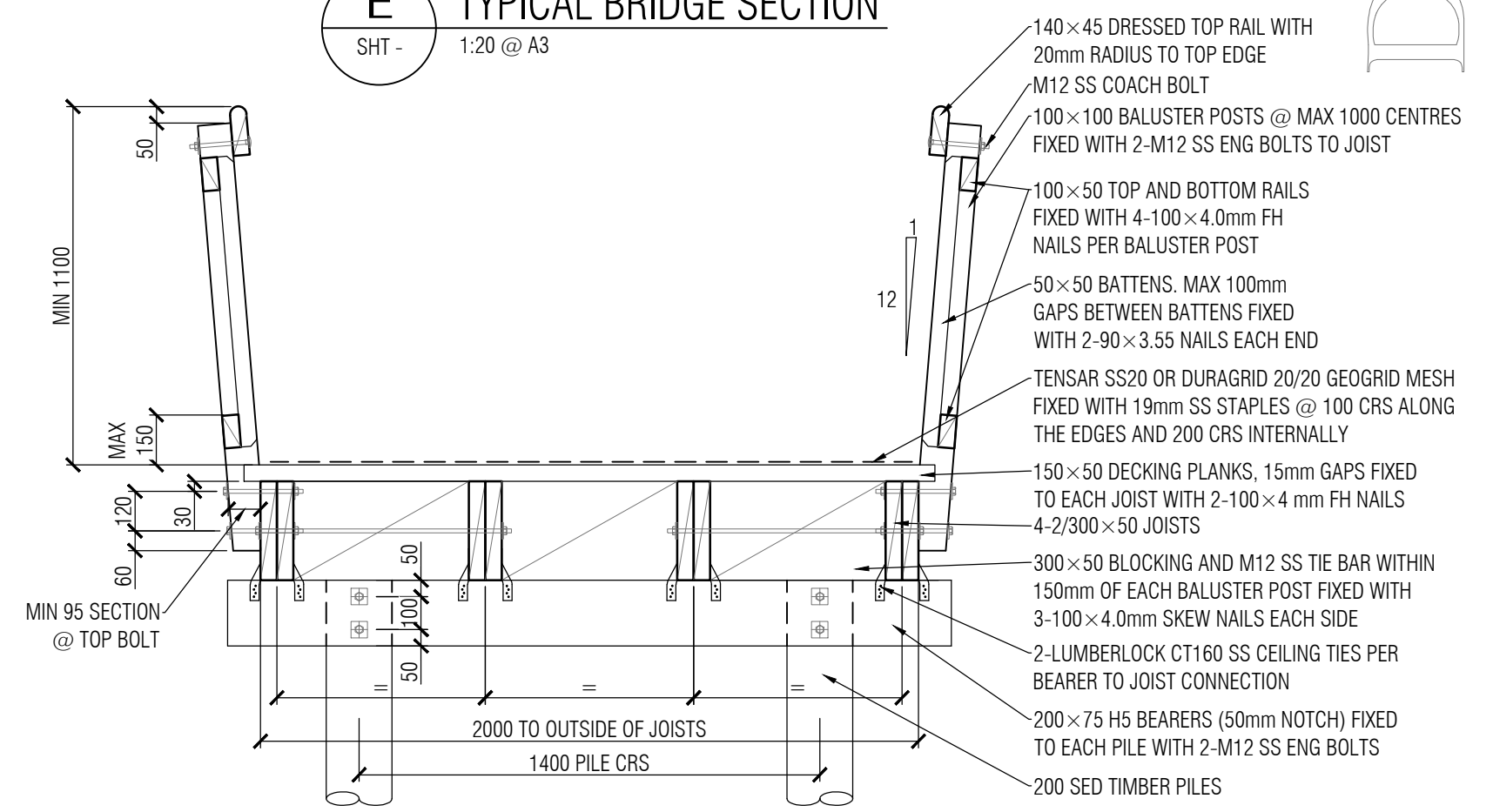
21 7.5m LONG BRIDGE ELEVATION
SHT - 1:50 @ A3



20 5m LONG BRIDGE ELEVATION
SHT - 1:50 @ A3

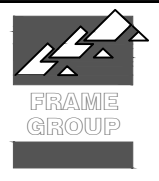


E TYPICAL BRIDGE SECTION
SHT - 1:20 @ A3



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PROJECT

TE WHAU ESPLANADE
WALKWAY DEVELOPMENT

TITLE

BRIDGE
ELEVATIONS AND SECTION

SCALE	AS SHOWN	DATE	FEBRUARY 2015
DRAWN	HM	DESIGNED	DK
APPROVED	DRAWING		REV
14/103		14/103 SHT P25	