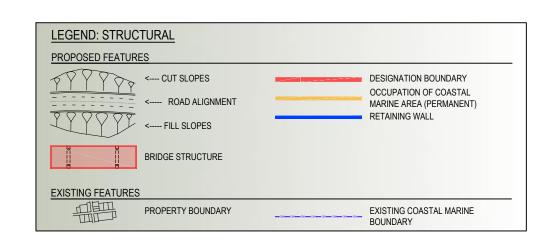
PLAN SET 8 STRUCTURAL

	EAST WEST LINK DRAWING REGISTER						
DWG NUMBER	DRAWING TITLE	CURRENT REVISION	DATE AND REVISION				
			1/12/2016	14/12/2016	7/04/2017	23/05/2017	27/06/2017
	PLAN SET 8 - STRUCTURAL						
AEE-S-001	STRUCTURAL - EAST WEST LINK - DRAWING INDEX, NOTES AND LEGEND	2	0	1			2
AEE-S-010	STRUCTURAL - KEY PLAN	2	0	1			2
AEE-S-011	STRUCTURAL - SH20/ NEILSON ST INTERCHANGE OVERBRIDGE - PLAN AND LONG SECTION	1	0				1
AEE-S-012	STRUCTURAL - SH20/ NEILSON ST INTERCHANGE OVERBRIDGE - TYPICAL CROSS SECTION	1	0				1
AEE-S-014	STRUCTURAL - ONEHUNGA HARBOUR ROAD PEDESTRIAN/CYCLE BRIDGE - PLAN	1	0				1
AEE-S-015	STRUCTURAL - ALFRED STREET PEDESTRIAN/CYCLE BRIDGE - PLAN	1	0				1
AEE-S-016	STRUCTURAL - NEILSON STREET/ ONEHUNGA WHARF TRENCH - PLAN AND LONG SECTION	1	0				1
AEE-S-017	STRUCTURAL - NEILSON STREET/ ONEHUNGA WHARF TRENCH - TYPICAL CROSS SECTIONS - SHEET 1	1	0				1
AEE-S-018	STRUCTURAL - NEILSON STREET/ ONEHUNGA WHARF TRENCH - TYPICAL CROSS SECTIONS - SHEET 2	1	0				1
AEE-S-021	STRUCTURAL - ANNS CREEK VIADUCT - WEST - PLAN AND LONG SECTION - SHEET 1	1	0				1
AEE-S-022	STRUCTURAL - ANNS CREEK VIADUCT - WEST - PLAN AND LONG SECTION - SHEET 2	1	0				1
AEE-S-023	STRUCTURAL - ANNS CREEK VIADUCT - WEST - PLAN AND LONG SECTION - SHEET 3	1	0				1
AEE-S-024	STRUCTURAL - ANNS CREEK VIADUCT - EAST - PLAN AND LONG SECTION - SHEET 4	2	0	1			2
AEE-S-025	STRUCTURAL - ANNS CREEK VIADUCT - EAST - PLAN AND LONG SECTION - SHEET 5	2	0	1			2
AEE-S-031	STRUCTURAL - ANNS CREEK VIADUCT - TYPICAL CROSS SECTION - CONCRETE - SHEET 1	1	0				1
AEE-S-032	STRUCTURAL - ANNS CREEK VIADUCT - TYPICAL CROSS SECTION - CONCRETE - SHEET 2	2	0	1			2
AEE-S-033	STRUCTURAL - ANNS CREEK VIADUCT - TYPICAL CROSS SECTION - STEEL	2	0	1			2
AEE-S-041	STRUCTURAL - EWLINK EB TO SH1 SB ON RAMP PLAN AND LONG SECTION - SHEET 1	2	0	1			2
AEE-S-042	STRUCTURAL - EWLINK EB TO SH1 SB ON RAMP PLAN AND LONG SECTION - SHEET 2	2	0	1			2
AEE-S-043	STRUCTURAL - EWLINK EB TO SH1 SB ON RAMP PLAN AND LONG SECTION - SHEET 3	2	0	1			2
AEE-S-045	STRUCTURAL - EWLINK EB TO SH1 SB ON RAMP TYPICAL CROSS SECTION - CONCRETE	2	0	1			2
AEE-S-046	STRUCTURAL - EWLINK EB TO SH1 SB ON RAMP TYPICAL CROSS SECTION - STEEL	2	0	1			2
AEE-S-051	STRUCTURAL - SH1 NB TO EWLINK WB OFF RAMP - PLAN AND LONG SECTION - SHEET 1	2	0	1			2
AEE-S-052	STRUCTURAL - SH1 NB TO EWLINK WB OFF RAMP - PLAN AND LONG SECTION - SHEET 2	2	0	1			2
AEE-S-055	STRUCTURAL - SH1 NB TO EWLINK WB OFF RAMP - TYPICAL CROSS SECTION - SHEET 1	2	0	1			2
AEE-S-056	STRUCTURAL - SH1 NB TO EWLINK WB OFF RAMP - TYPICAL CROSS SECTION - SHEET 2	2	0	1			2

	EAST WEST LINK DRAWING REGISTER						
DWG NUMBER	DRAWING TITLE	CURRENT REVISION	DA	TE AI	ND R	EVIS	ilON
			1/12/2016	14/12/2016	7/04/2017	23/05/2017	27/06/2017
AEE-S-061	STRUCTURAL - PANAMA ROAD OVERBRIDGE - PLAN AND LONG SECTION	1	0				1
AEE-S-062	STRUCTURAL - PANAMA ROAD OVERBRIDGE - TYPICAL CROSS SECTION	1	0				1
AEE-S-065	STRUCTURAL - OTAHUHU CREEK - PLAN AND LONG SECTION	1	0				1
AEE-S-066	STRUCTURAL - OTAHUHU CREEK - TYPICAL CROSS SECTION	1	0				1
AEE-S-071	STRUCTURAL - PRINCES STREET OVERBRIDGE - PLAN AND LONG SECTION	1	0				1
AEE-S-072	STRUCTURAL - PRINCES STREET OVERBRIDGE - TYPICAL CROSS SECTION	1	0				1
AEE-S-081	STRUCTURAL - GREAT SOUTH ROAD RAIL OVERBRIDGE WIDENING - PLAN AND CROSS SECTION	1	0	1			1



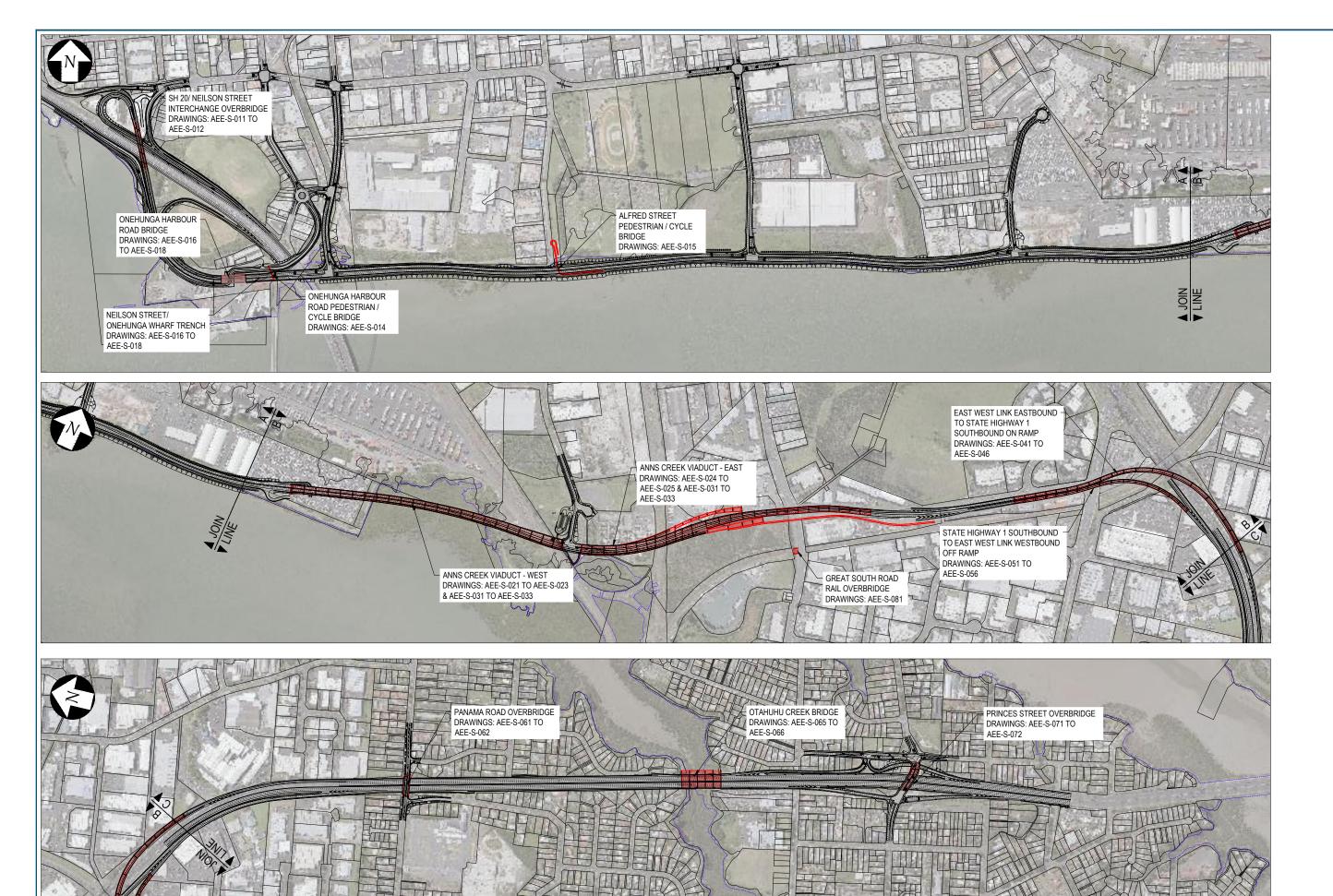
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Drawn	A RAM	Drafting Check J MURA	AHIDY	Reviewed Design Manager		Approved Alliance Manager
Designe	O LUMB	Design Check J MURA	AHIDY	N NANCEKIV 27.06.17	ELL.	J CALDWELL 27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SH	IOWN	Contra	PA4014

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Drawing Title	STRUCTURAL DRAWING INDEX, NOTES AND LEGEND	
Drawing Number	AEE-S-001	Rev No.



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	()	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
ı	N	0.	Issued Status	Drawn	Check'd	App'd	Date

DISCLAIMER

This drawing is for the purpose of supporting applications Inis drawing is for the purpose or supporting applications, under the RMA for resource consents and designations. All information shown is subject to final design. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions w prevail. This Drawing must not be used for construction

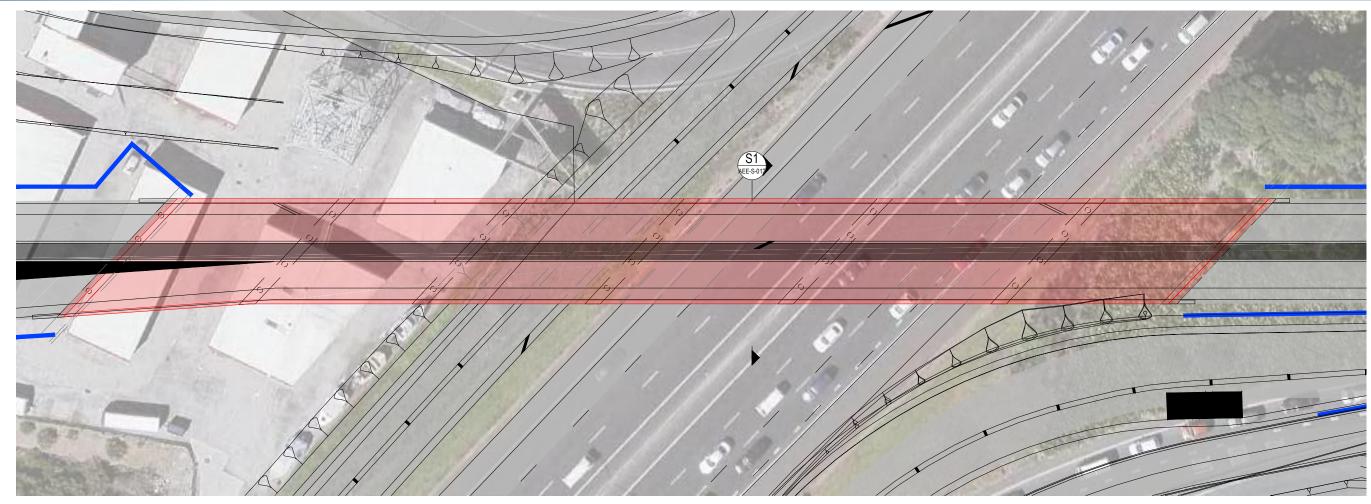


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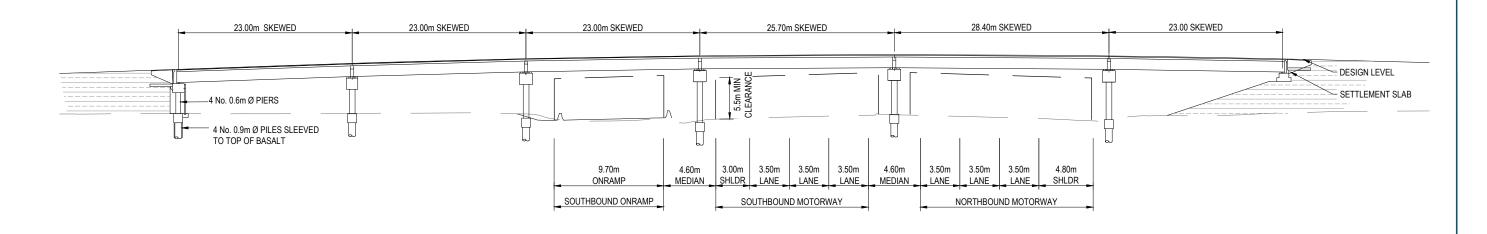
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wn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager		Approved Alliance Manager	Dr	rawing
igned O LUMB	Design Check J MURAHIDY	N NANCEKIVELL 27.06.17		J CALDWELL		
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Orawing Title	STRUCTURAL KEY PLAN		
Orawing Numbe	AEE-S-010		Rev No.





<u>PLAN</u> SCALE 1:500 @ A3



LONG SECTION

SCALE 1:500 @ A3



FOR BOI ISSUE

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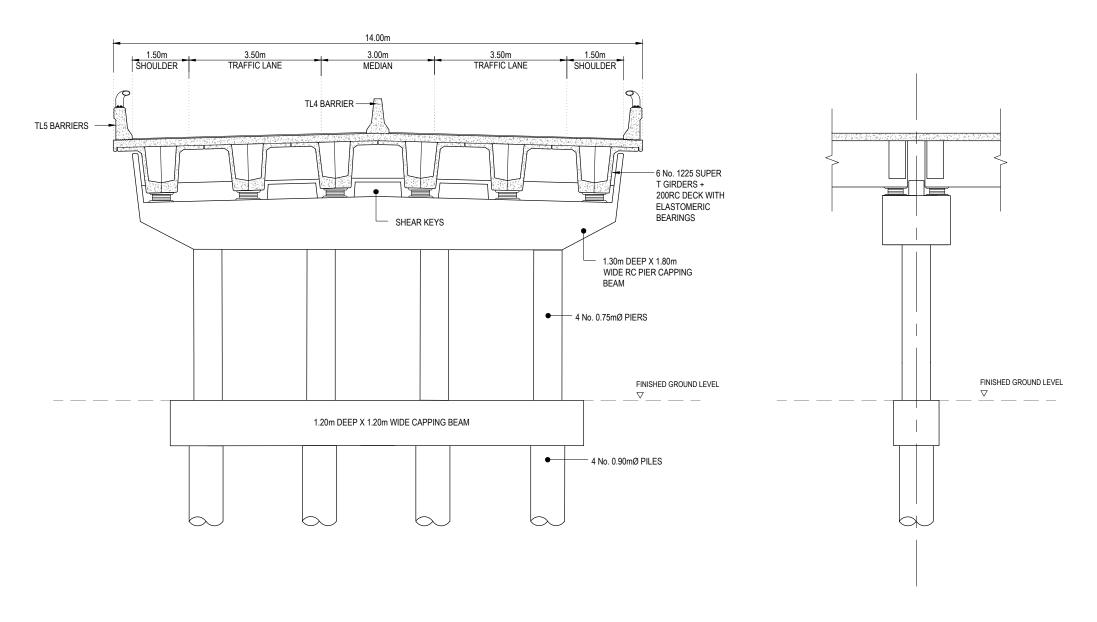
East West Link	
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Design	O LUMB	Design Check I BILLIN	NGS	N NANCEKIV 27.06.17		J CALDWELL 27.06.17
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SI	HOWN	Contra	PA4014

Drawing Title STRUCTURAL SH20/ NELSON ST INTERCHANGE OVERBRIDGE PLAN AND LONG SECTION

AEE-S-011

DISCLAIMER





TYPICAL CROSS SECTION
SH20/ NEILSON STREET INTERCHANGE OVERBRIDGE
SCALE 1:100 @ A3

SECTION ALONG PIER

SCALE 1:100 @ A3



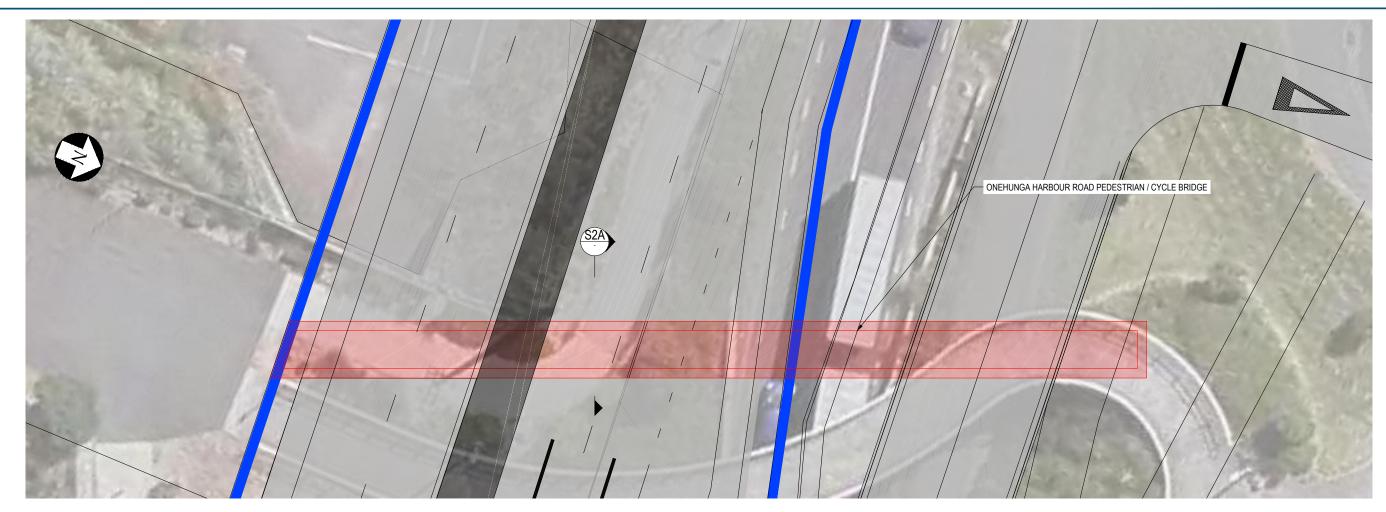
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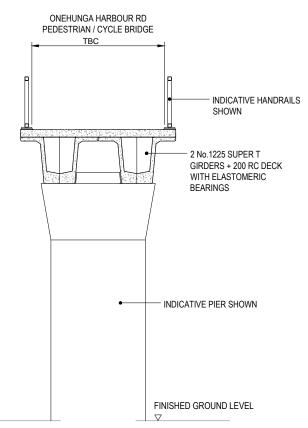
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Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL 27.06.17	J CALDWELL 27.06.17
Scale: Original Scale (A1)	Reduced AS SH Scale (A3)	OWN	PA4014

	STRUCTURAL	ND 05
	SH20/ NELSON ST INTERCHANGE OVERBR TYPICAL CROSS SECTION	(IDGE
Drawing Number	AEE-S-012	Rev No.



PLAN

SCALE 1:500 @ A3



S2A SECTION -ONEHUNGA HARBOUR ROAD PEDESTRIAN / CYCLE BRIDGE

SCALE 1: 100 @ A3

0 2.5 5 7.5 10 12.5m SCALE 1:500 @ A3 SIZE

FOR BOI ISSUE

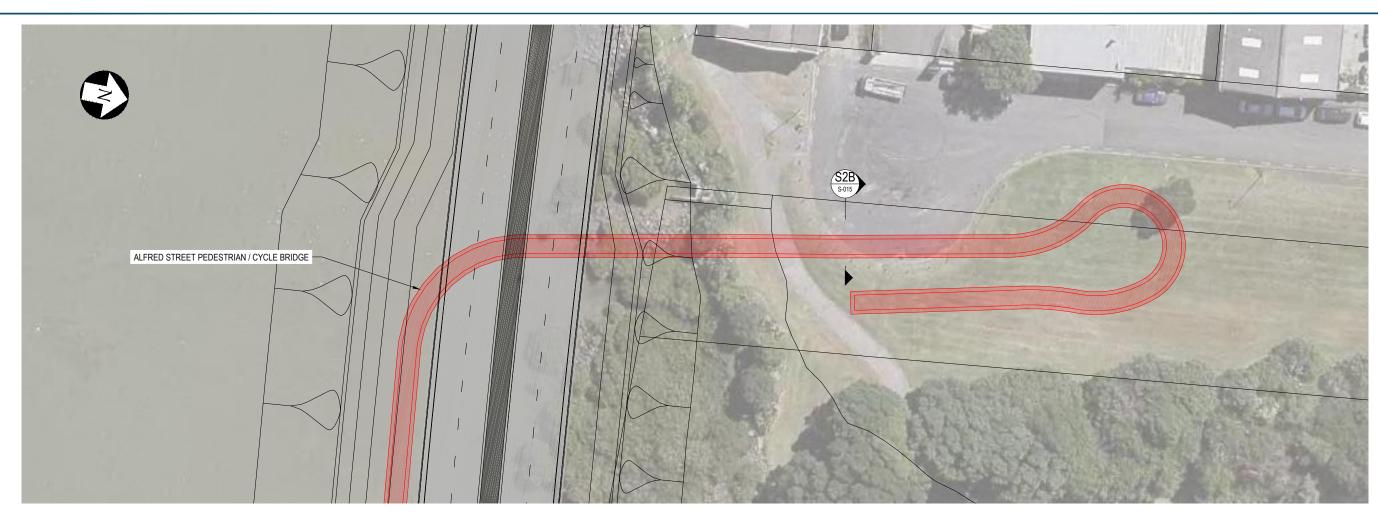
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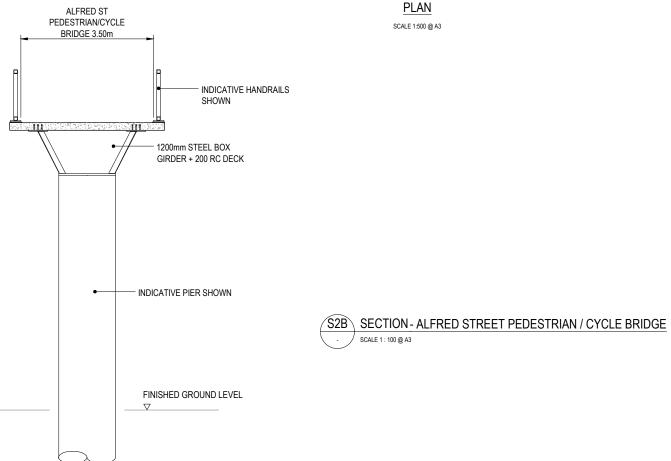




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Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL 27.06.17	J CALDWELL 27.06.17
Scale: Original Scale (A1)	Reduced AS SH Scale (A3)	OWN	PA4014

Drawing Title	STRUCTURAL	
	ONEHUNGA HARBOUR ROAL)
	PEDESTRIAN BRIDGE PLAN	
Drawing Number	AEE-S-014	





FOR BOI ISSUE

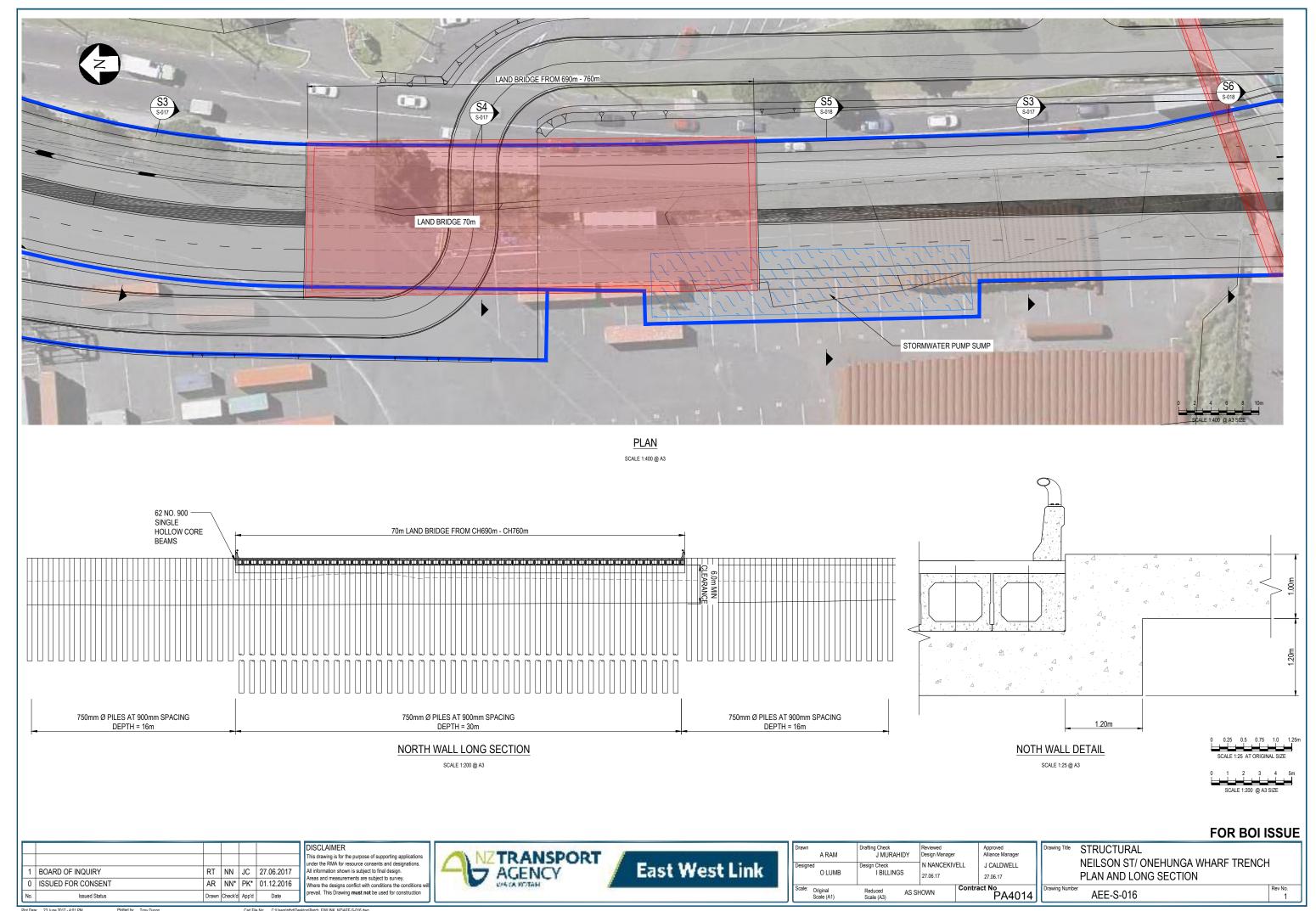
0 2.5 5 7.5 10 12.5m SCALE 1:500 @ A3 SIZE

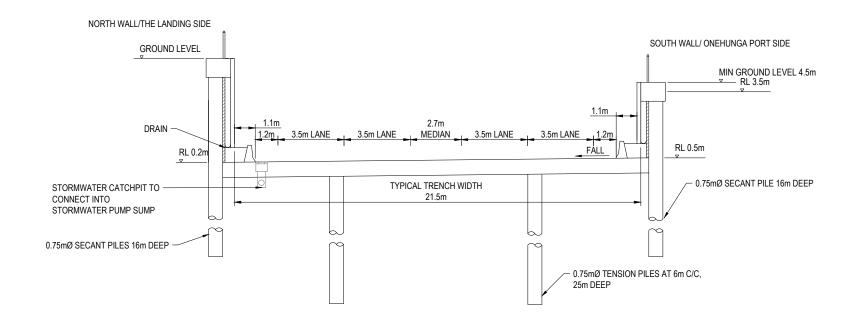




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awing Title	STRUCTURAL ALFRED STREET PEDESTRIAN BRIDGE PL	AN
awing Number	AEE-S-015	Rev No.

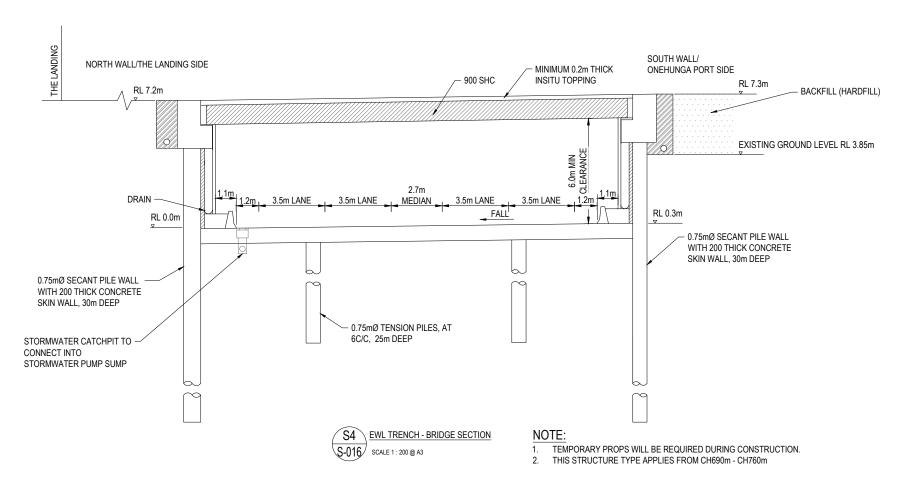




S-016 EWL TRENCH - TYPICAL SECTION SCALE 1: 200 @ A3

NOTE:

- 1. TEMPORARY PROPS WILL BE REQUIRED DURING CONSTRUCTION.
- THIS STRUCTURE TYPE APPLIES FROM CH580m CH690m AND CH810m - CH920m





FOR BOI ISSUE

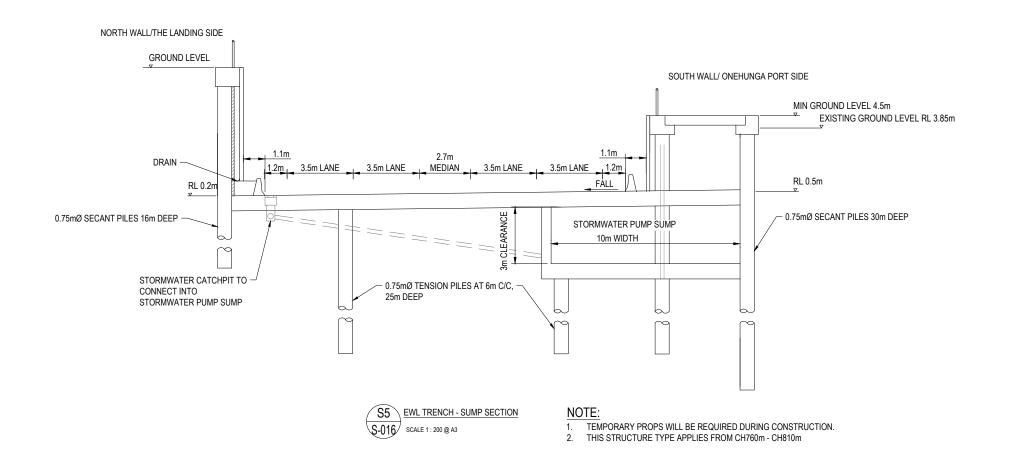
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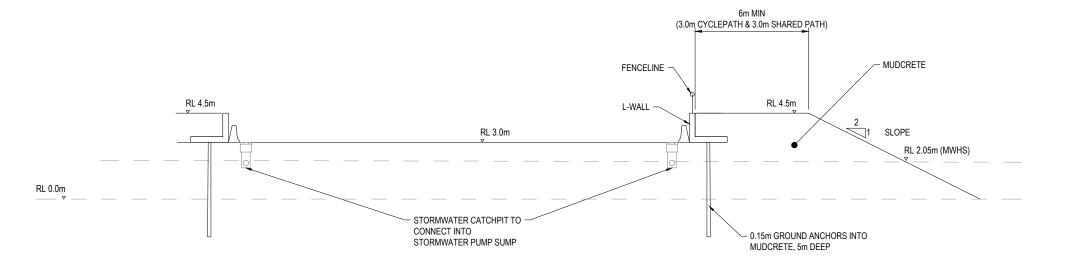


East West Link

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O LUMB	I BILLINGS	27.06.17	27.06.17
Scale: Original Scale (A1)	Reduced AS S Scale (A3)	HOWN	PA4014

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Drawing Title	STRUCTURAL	
	NEILSON ST/ ONEHUNGA WHARF TRENCH	
	TYPICAL CROSS SECTION - SHEET 01	
Drawing Number	AEE C 047	Rev No.
	AEE-S-017	, 1





S6 \$-016 EWL TRENCH - MUDCRETE SECTION SCALE 1: 200 @ A3

NOTE:

THIS STRUCTURE TYPE APPLIES FROM CH920m - CH1060m



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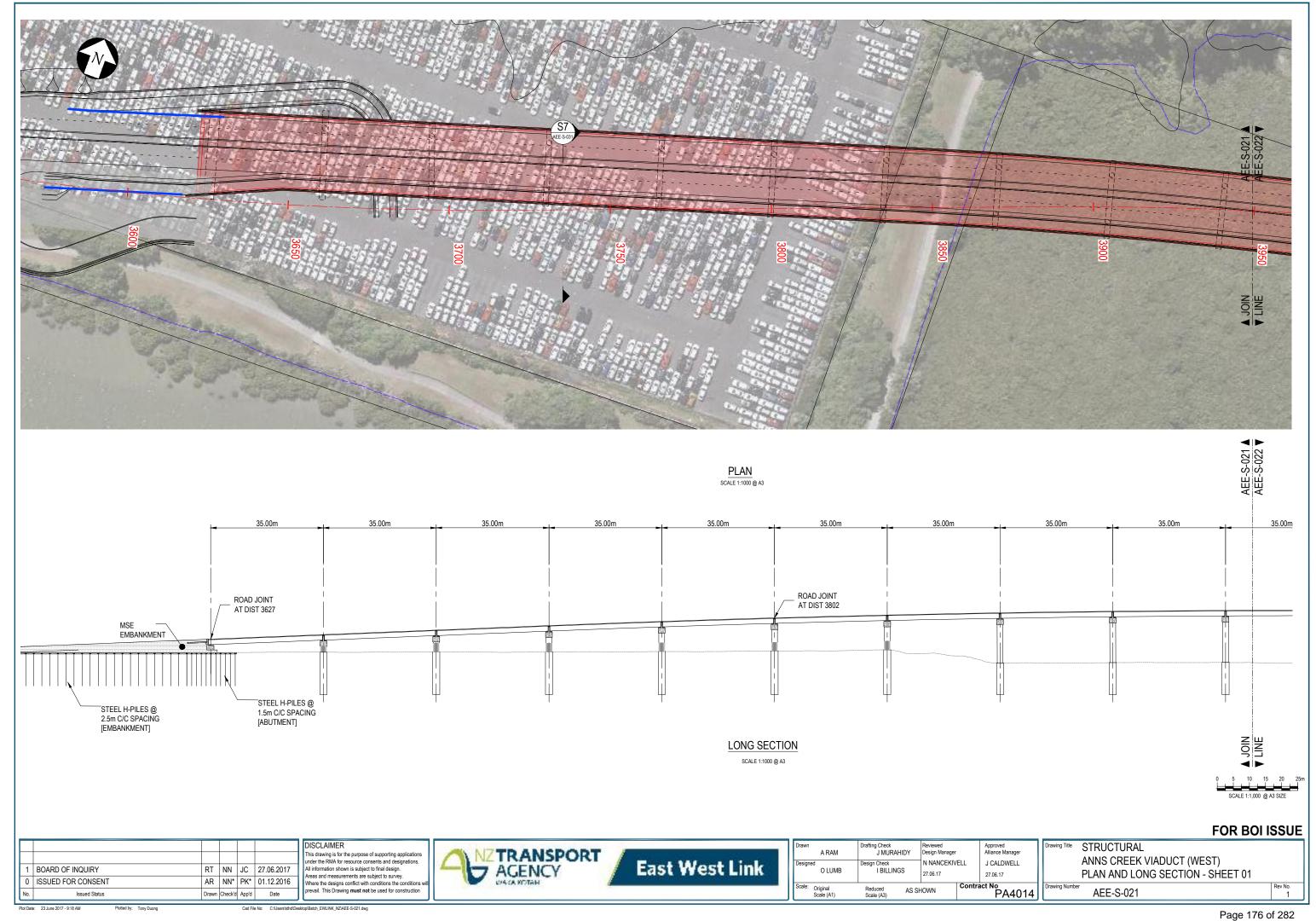
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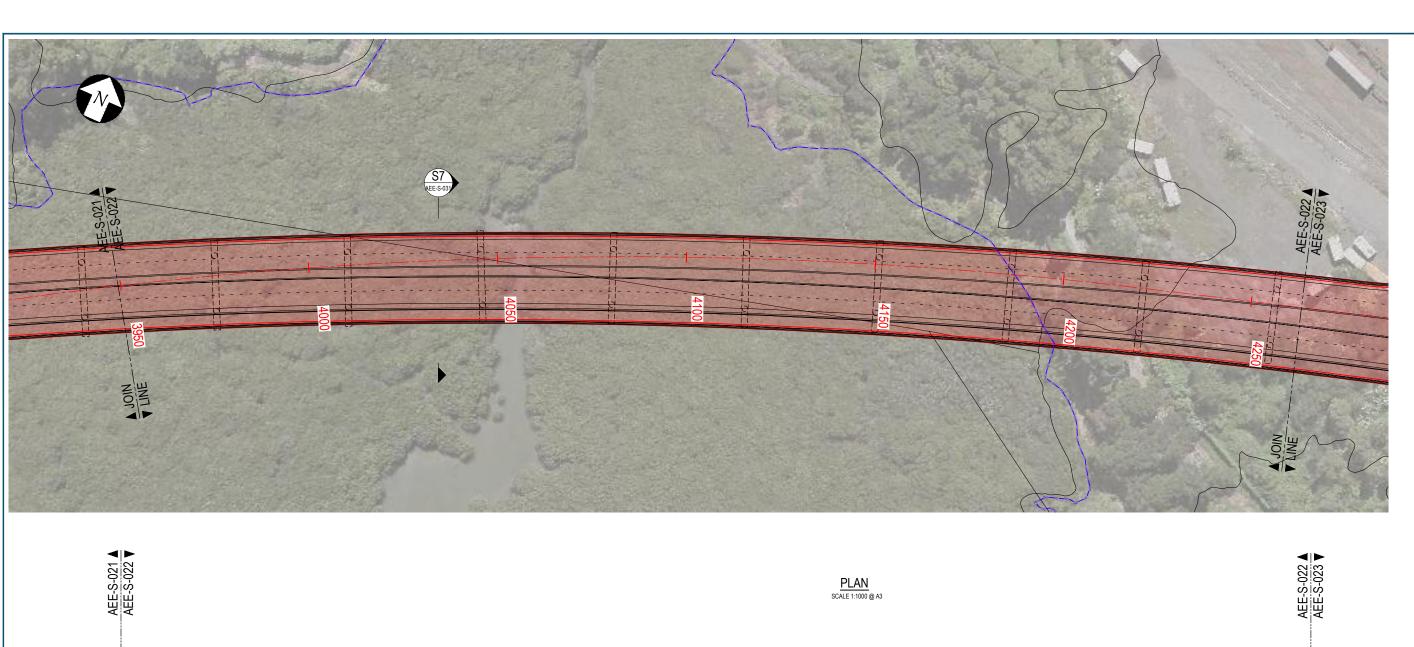


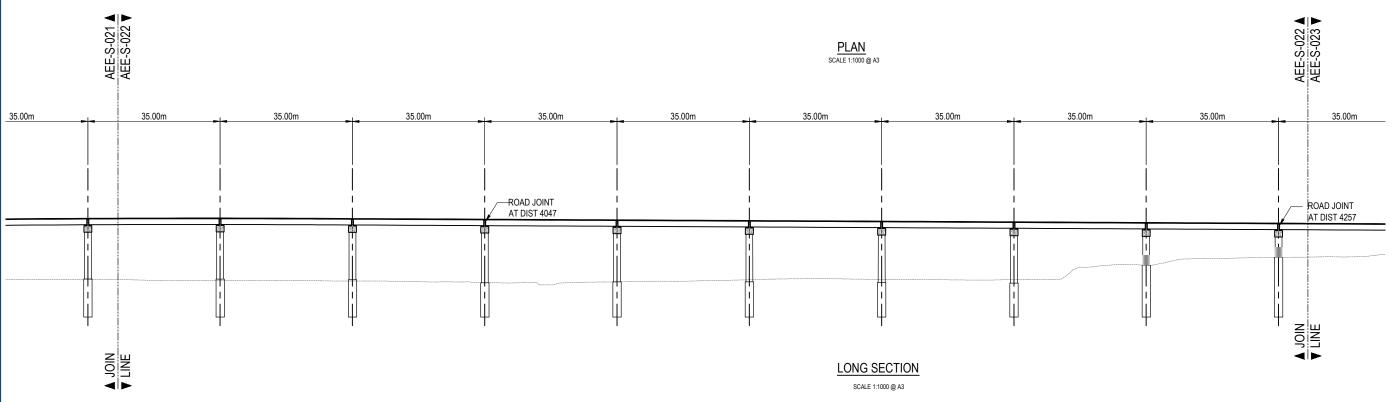
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Drawing Title	STRUCTURAL	
	NEILSON ST/ ONEHUNGA WHARF TRENCH	
	TYPICAL CROSS SECTION - SHEET 02	
Drawing Number	AEE-S-018	Rev N







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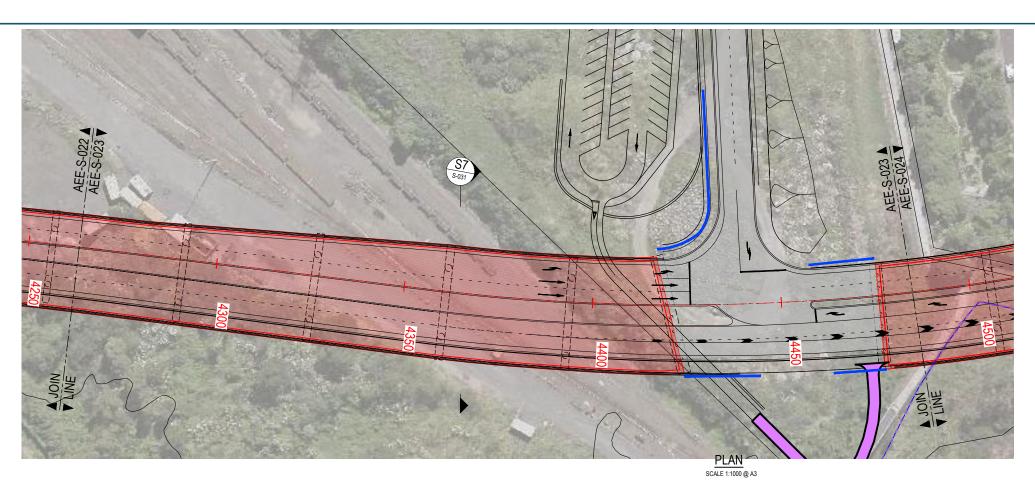


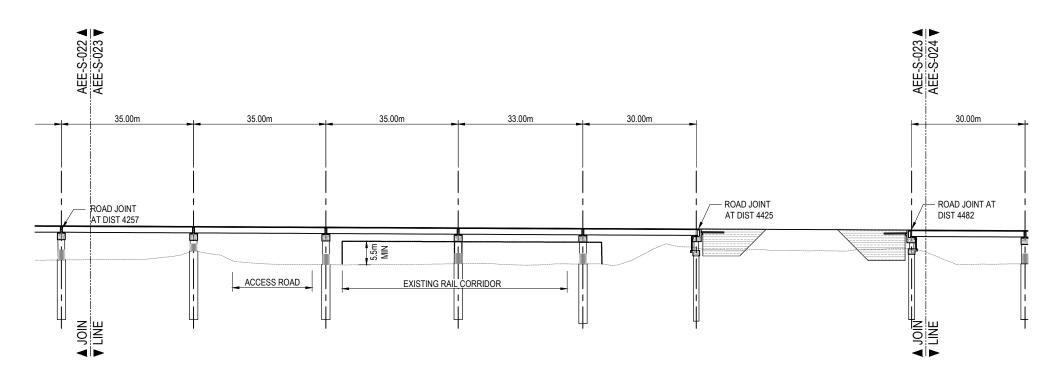
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Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL 27.06.17	J CALDWELL 27.06.17
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Drawing Title	STRUCTURAL	
	ANNS CREEK VIADUCT (WEST)	
	PLAN AND LONG SECTION - SHEET 02	
Drawing Number	AEE-S-022	Rev No.

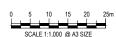






LONG SECTION

SCALE 1:1000 @ A3



FOR BOI ISSUE

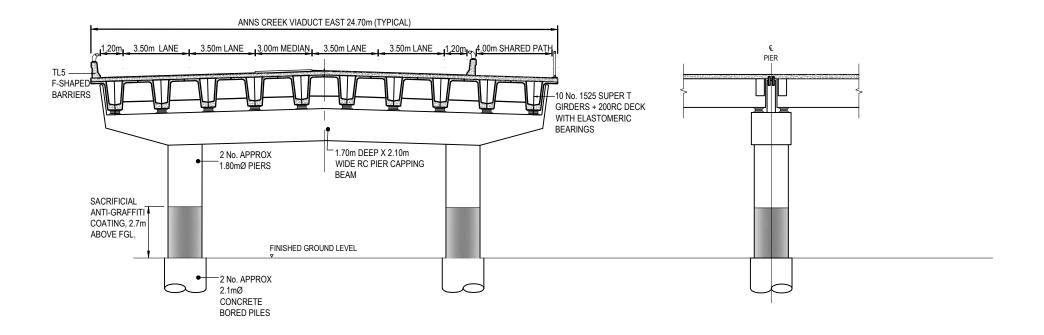
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East West Link

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PLAN AND LONG SECTION - SHEET 03	
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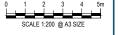


ST SECTION -ANNS CREEK VIADUCT -TYPICAL CROSS SECTION

SCALE 1.200 @ A3

LONGSECTION AT PIER

SCALE 1:200 @ A3



FOR BOI ISSUE

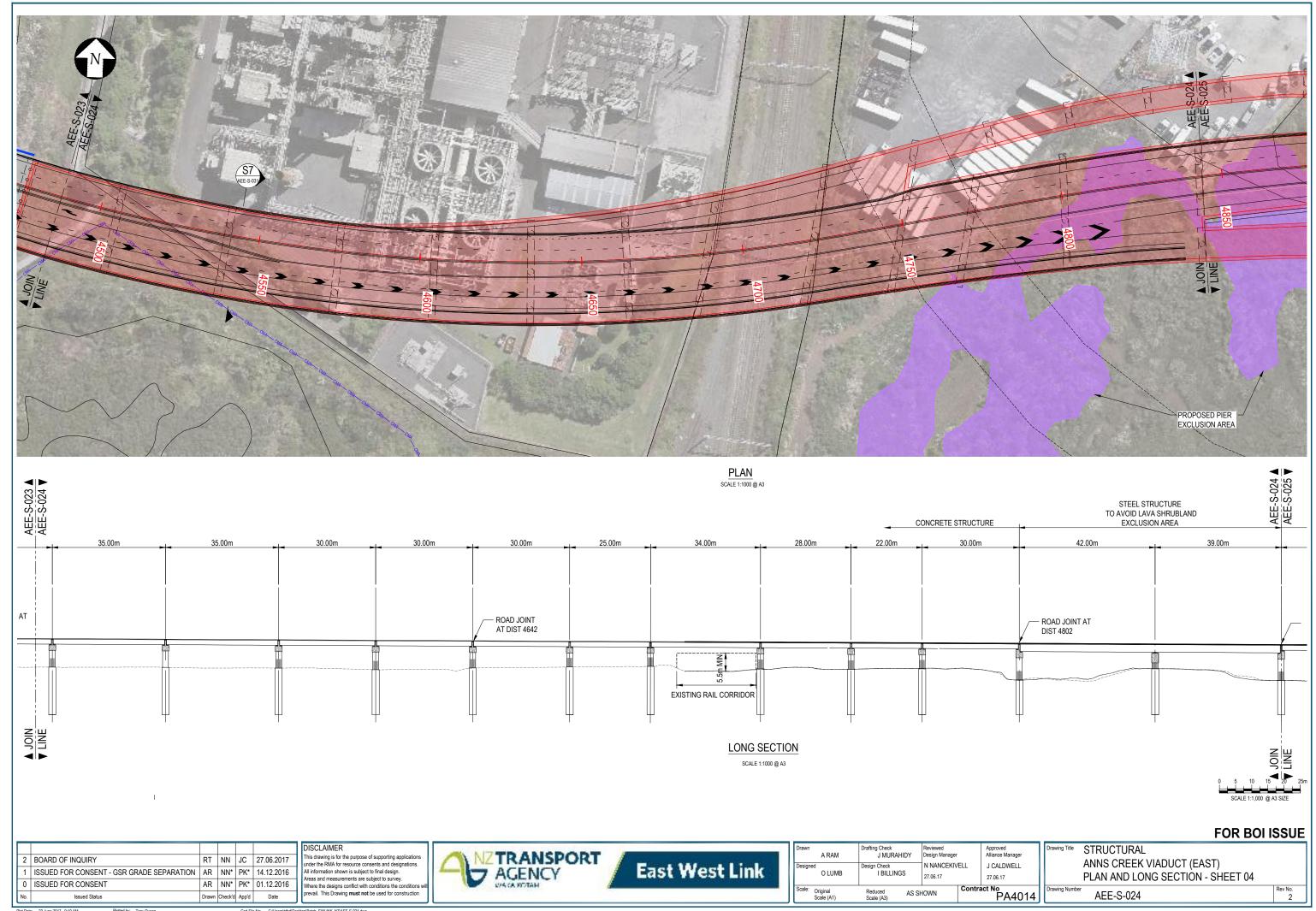
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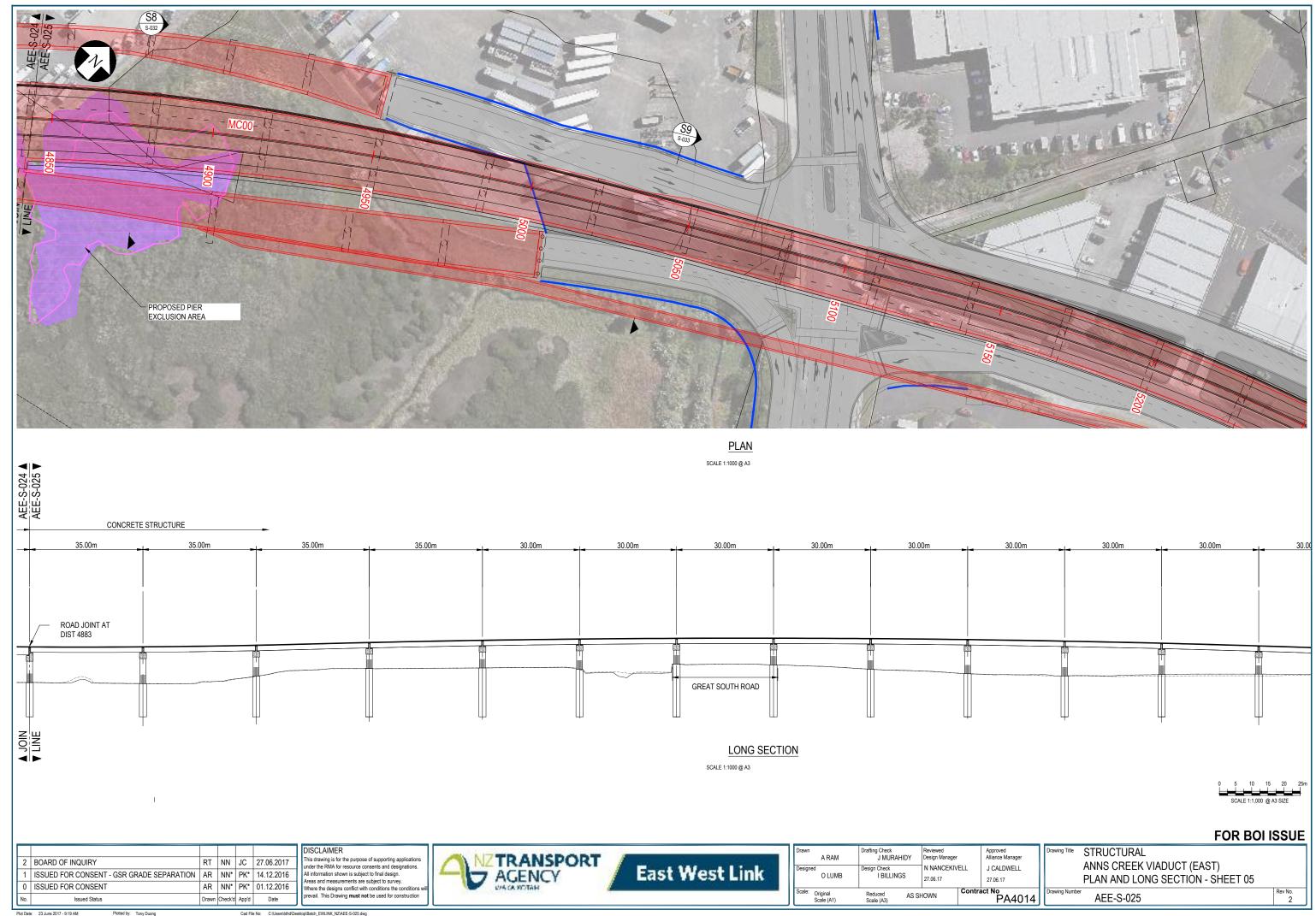


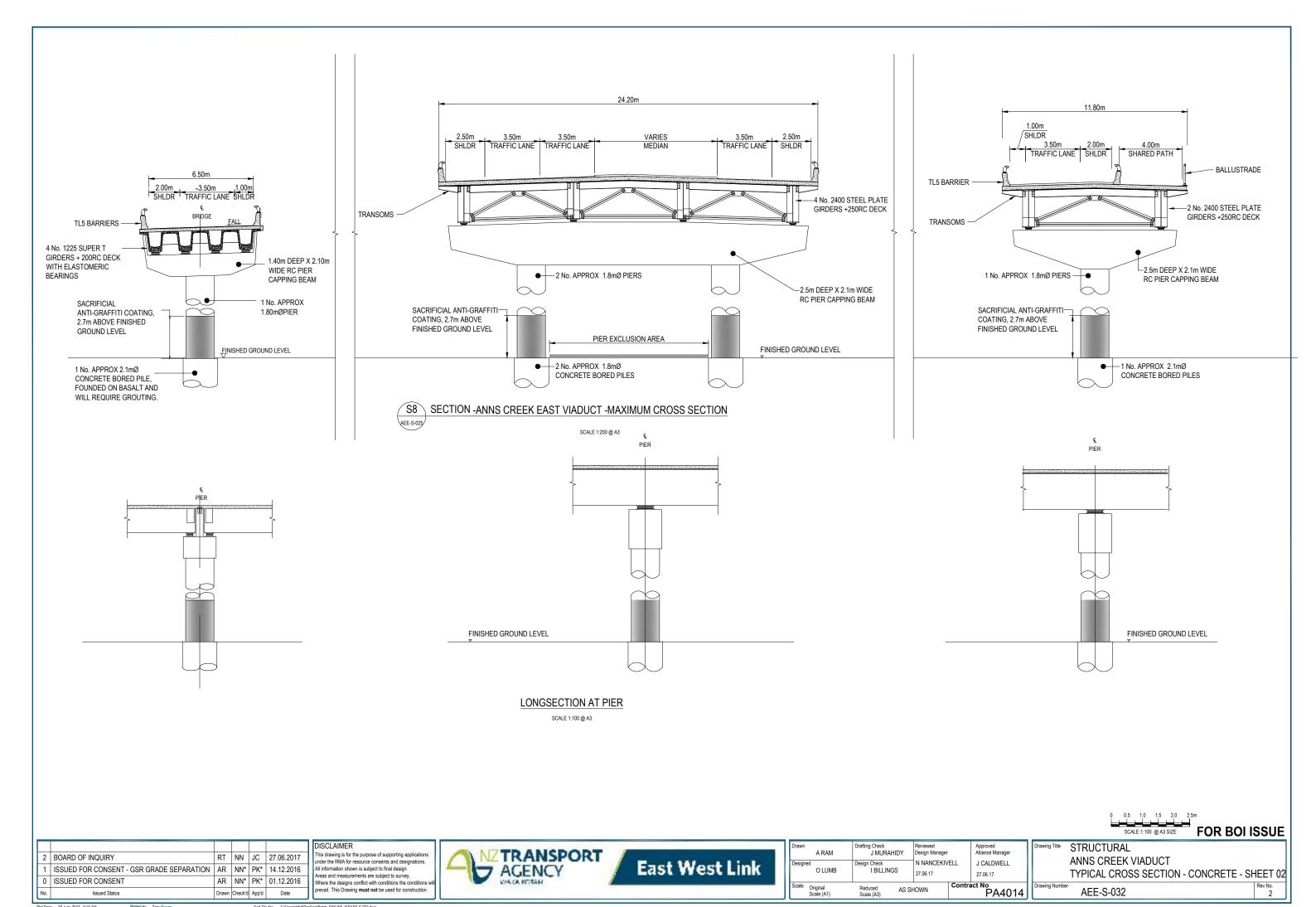


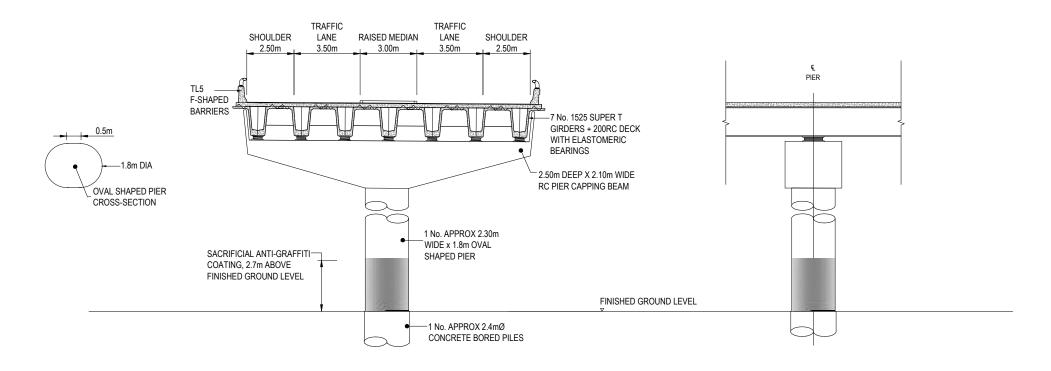
Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager	Approved Alliance Manager
Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL 27.06.17	J CALDWELL 27.06.17
Scale: Original Scale (A1)	Reduced AS SI Scale (A3)	HOWN	PA4014

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Drawing Title	STRUCTURAL	
	ANNS CREEK VIADUCT	
	TYPICAL CROSS SECTION - SHEET 01	
Drawing Nun	AFF-S-031	Rev No.









S9 SECTION - ANNS CREEK EAST STEEL VIADUCT - OUTRIGGER PIER CROSS SECTION SCALE 1200 @ A3

LONGSECTION AT PIER

SCALE 1:200 @ A3



FOR BOI ISSUE

2	BOARD OF INQUIRY	RT	NN	JC	27.06.2017
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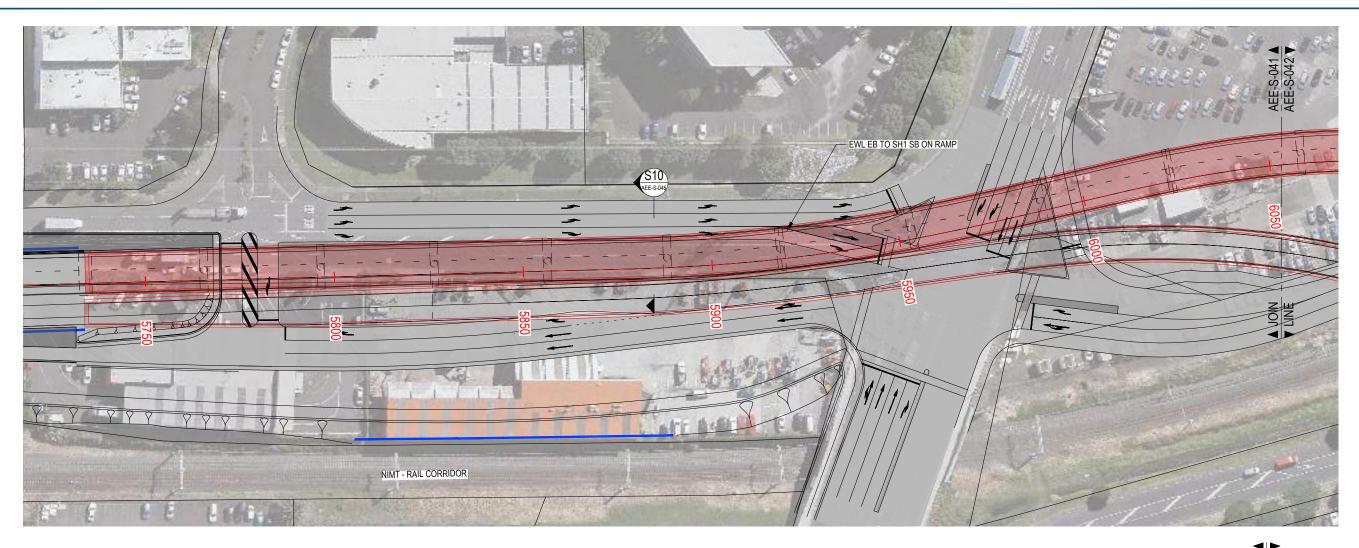


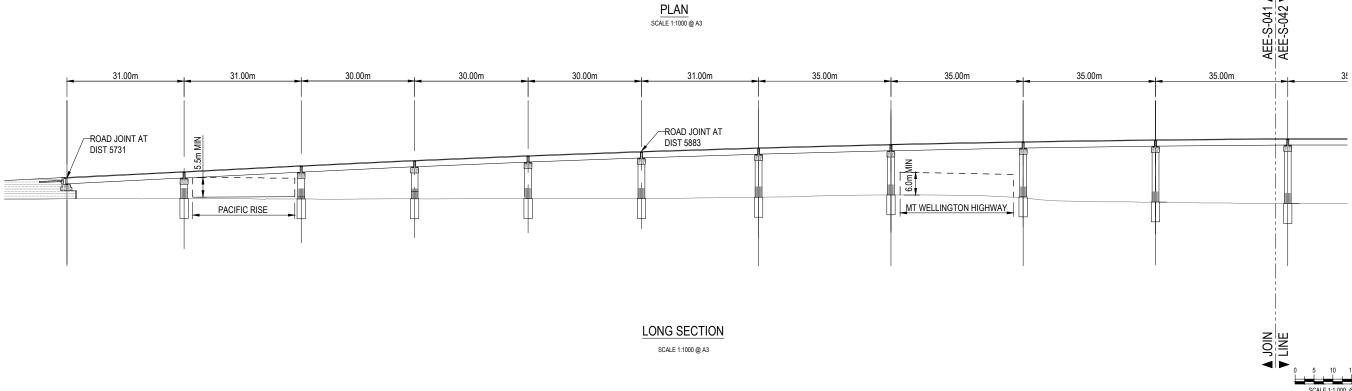
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Drawing Title	STRUCTURAL	
	ANNS CREEK VIADUCT	
	TYPICAL CROSS SECTION	
Drawing Number	AEE-S-033	Rev No.







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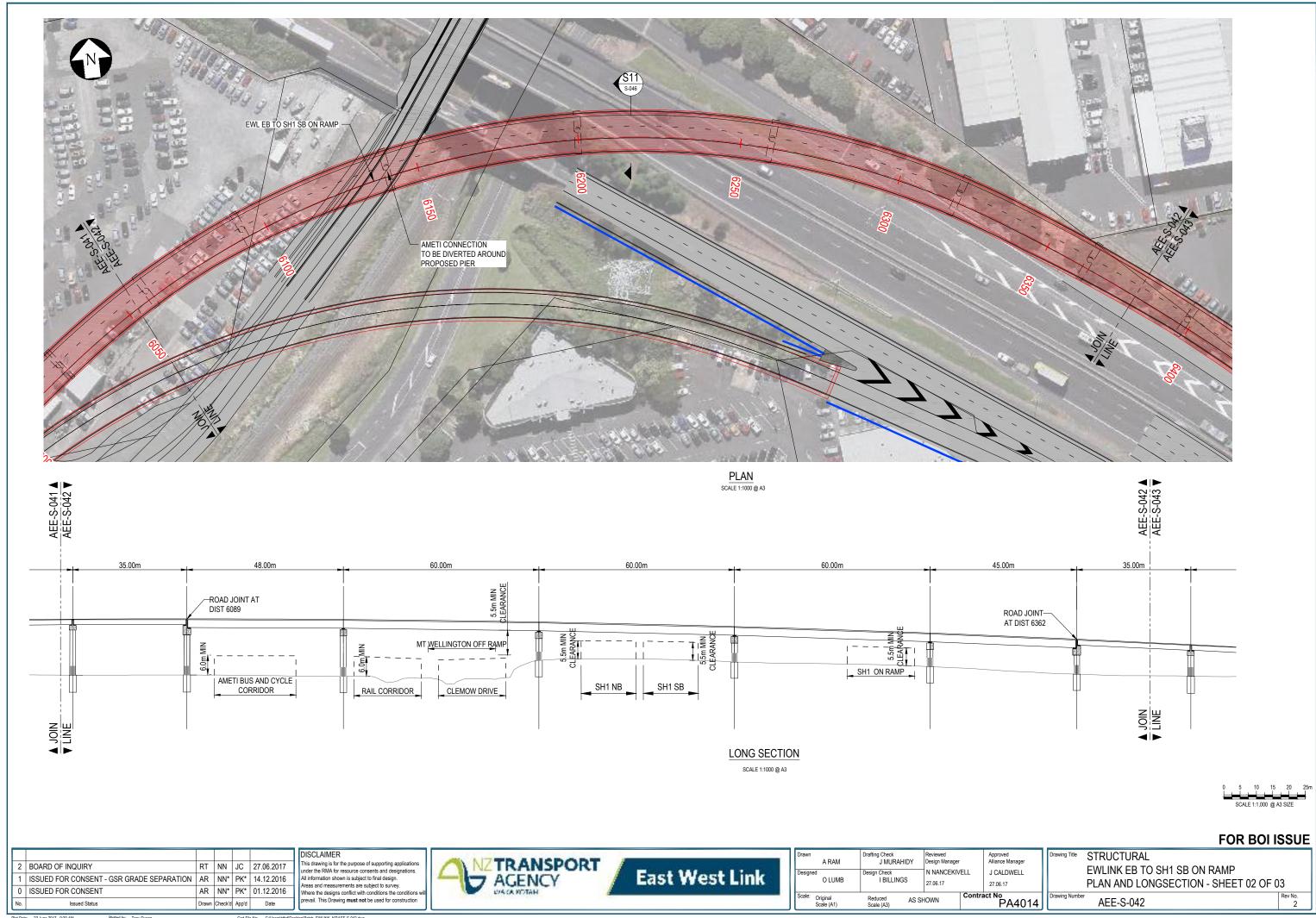


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	Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL 27.06.17	J CALDWELL 27.06.17	
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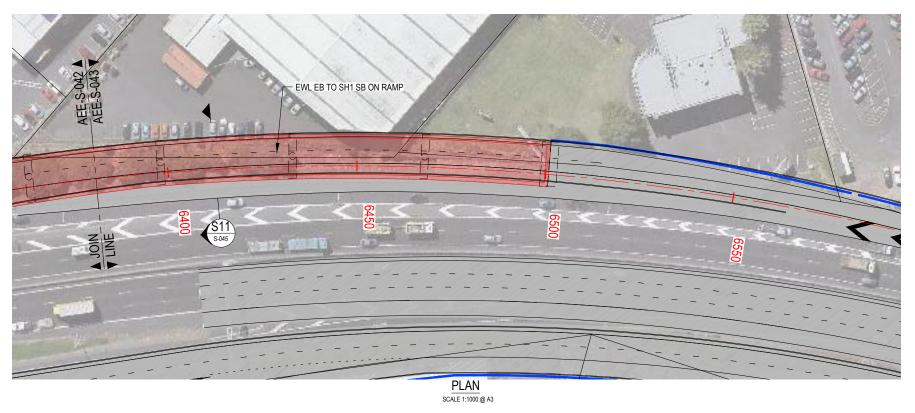
FOR BOI ISSUE Drawing Title STRUCTURAL EWLINK EB TO SH1 SB ON RAMP PLAN AND LONGSECTION - SHEET 01 OF 03 AEE-S-041

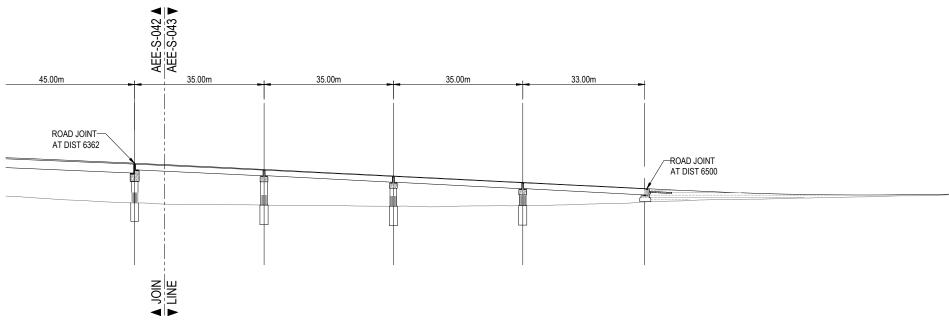
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LONG SECTION

SCALE 1:1000 @ A3



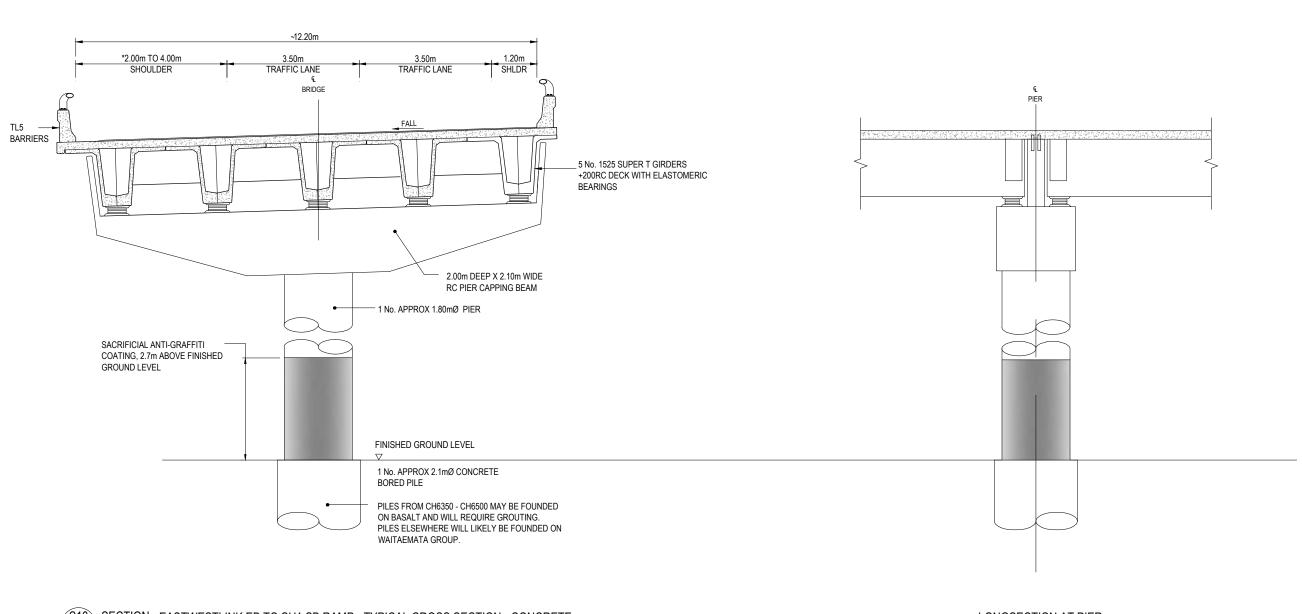
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	EWLINK EB TO SH1 SB ON RAMP	
	PLAN AND LONGSECTION -SHEET 03 OF 03	3
Drawing Number	AEE-S-043	Rev No.



S10 SECTION - EASTWESTLINK EB TO SH1 SB RAMP - TYPICAL CROSS SECTION - CONCRETE

AEE -041,5-042,6-043

SCALE 1:100 @ A3

LONGSECTION AT PIER

SCALE 1:100 @ A3

SCALE 1:100 @ A3 SIZE

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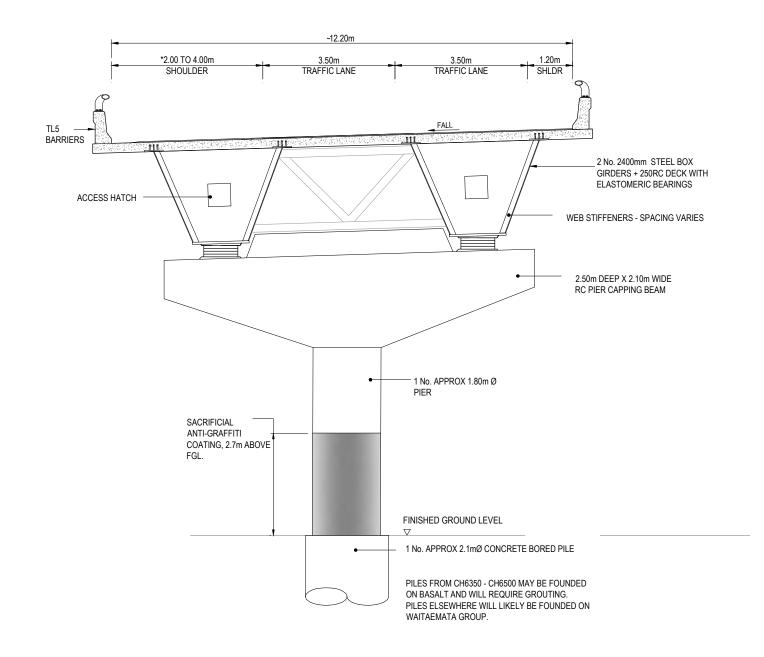
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East West Link	
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Scale: Original Scale (A1)	Reduced AS Si	HOWN	ract No PA4014	Dr
Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL 27.06.17	J CALDWELL 27.06.17	
Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager	Approved Alliance Manager	Dr

Drawing Title	STRUCTURAL	
	EWLINK EB TO SH1 SB ON RAMP	
	TYPICAL CROSS SECTION - CONCRETE	
Drawing Number	AFF-S-045	Rev No



LONGSECTION AT PIER

SCALE 1:100 @ A3

S11 SECTION - EAST WEST LINK EB TO SH1 SB RAMP

TYPICAL CROSS SECTION - STEEL

SCALE 1:100 @ A3

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FOR BOI ISSUE

 2
 BOARD OF INQUIRY
 RT
 NN
 JC
 27.06.2017

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 ISSUED FOR CONSENT - GSR GRADE SEPARATION
 AR
 NN*
 PK*
 14.12.2016

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 01.12.2016

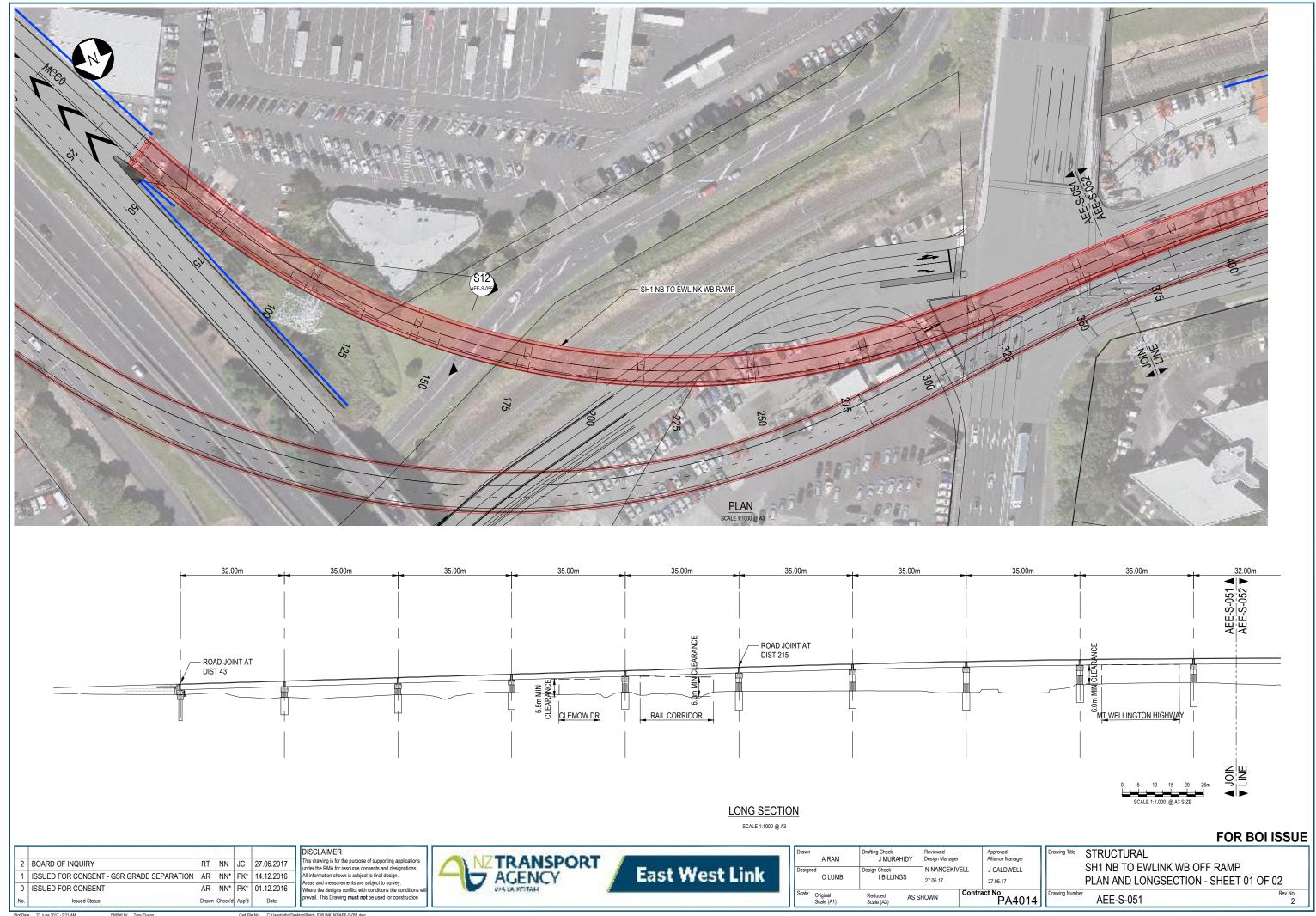
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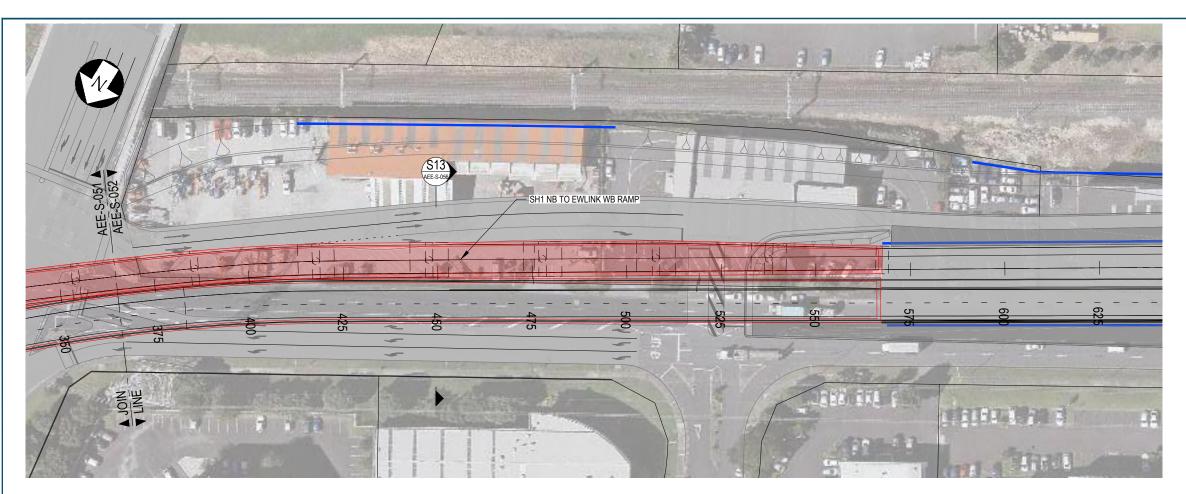


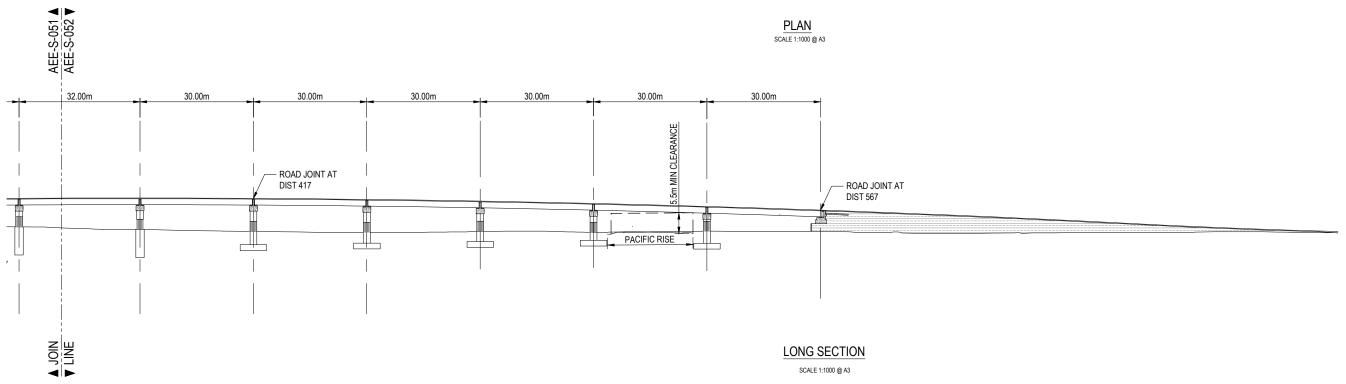


Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager	Approved Alliance Manager	ĺ
Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL 27.06.17	J CALDWELL 27.06.17	
Scale: Original	Reduced AS SH	HOWN Contr	act No	ŀ

wing Title	STRUCTURAL
	EWLINK EB TO SH1 SB ON RAMP
	TYPICAL CROSS SECTION - STEEL
wing Number	AEE-S-046









FOR BOI ISSUE

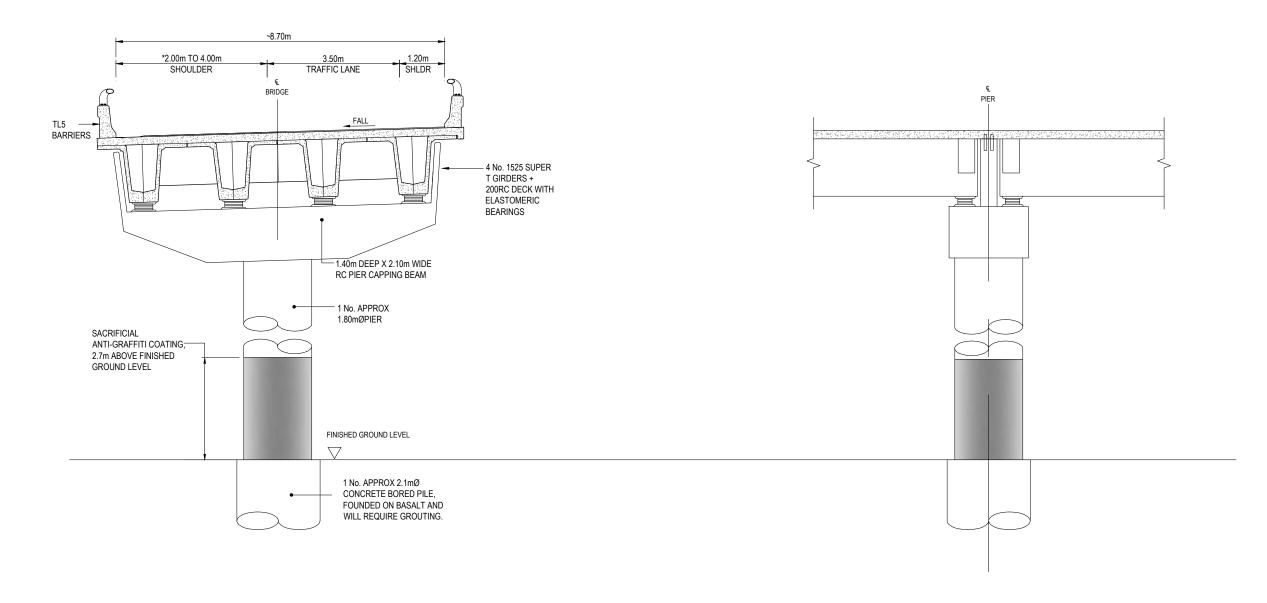
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ı	No.	Issued Status	Drawn	Check'd	App'd	Date



1	Frot Mont Link
1	East West Link

Drawn	Drafting Check J MURAHIDY	Reviewed	Approved
A RAM		Design Manager	Alliance Manager
Designed O LUMB	Design Check	N NANCEKIVELL	J CALDWELL
	I BILLINGS	27.06.17	27.06.17
Scale: Original Scale (A1)	Reduced AS S Scale (A3)	HOWN	PA4014

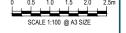
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	SH1 NB TO EWLINK WB OFF RAMP	
	PLAN AND LONGSECTION - SHEET 01 OF 0	2
rawing Number	AFF-S-052	Rev No.



S12 SECTION - SH1 NB RAMP TO EASTWEST LINK WB - TYPICAL CROSS SECTION (PILED)

LONGSECTION AT PIER

SCALE 1:100 @ A3



FOR BOI ISSUE

 2
 BOARD OF INQUIRY
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 NN
 JC
 27.06.2017

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 14.12.2016

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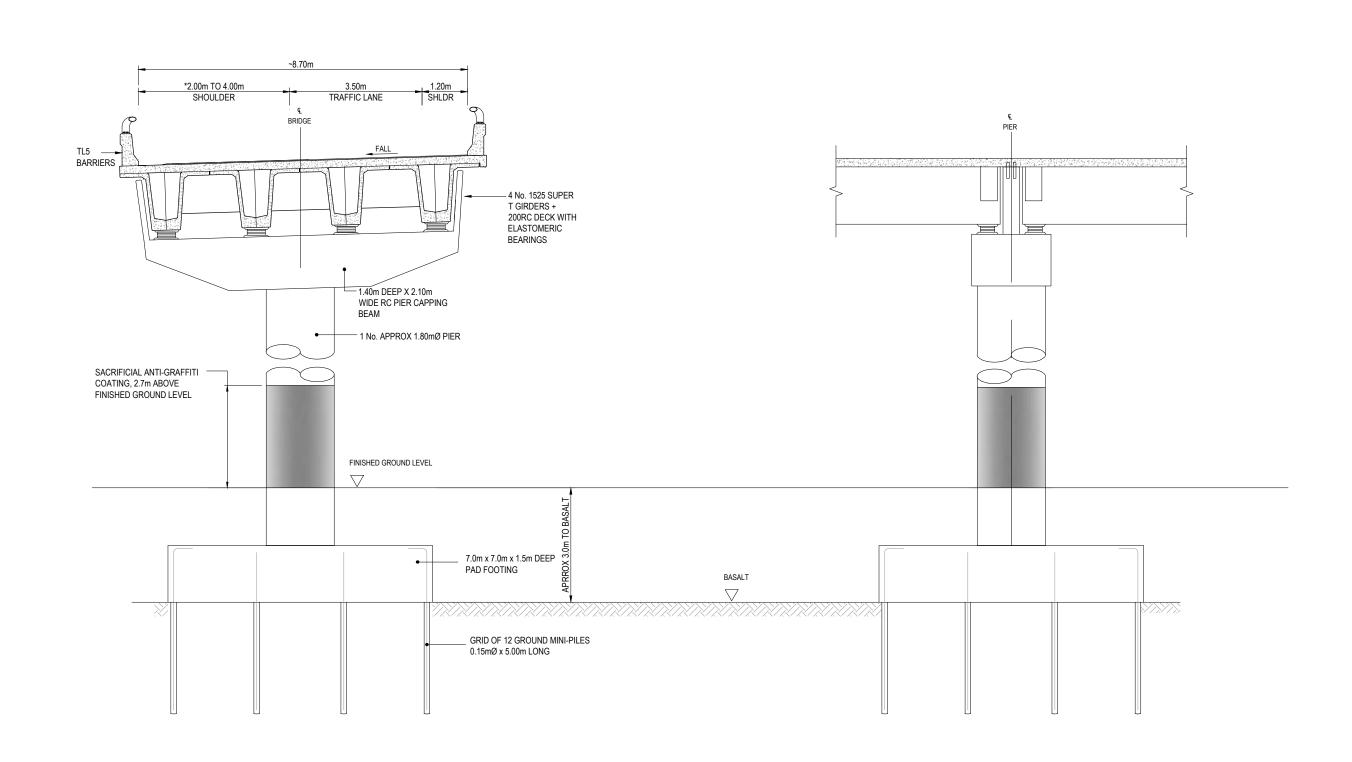
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1	Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager	Approved Alliance Manager
	Designed	Design Check	N NANCEKIVELL	J CALDWELL
	O LUMB	I BILLINGS	LINGS 27.06.17 27.06.1	
	Scale: Original	Reduced AS SI	-OWN Contra	act No

	I OK DOI I	000.
Drawing Title	STRUCTURAL	
	SH1 NB TO EWLINK WB OFF RAMP	
	TYPICAL CROSS SECTION - SHEET 01 OF ()2
Drawing Number	AEE-S-055	Rev No.
	ALL O 000	



S13 SECTION - SH1 NB RAMP TO EASTWEST LINK WB - TYPICAL CROSS SECTION (PAD FOOTINGS)

SCALE 1:100 @ A3

LONGSECTION AT PIER

SCALE 1:100 @ A3



OR BOI	ISSUE	

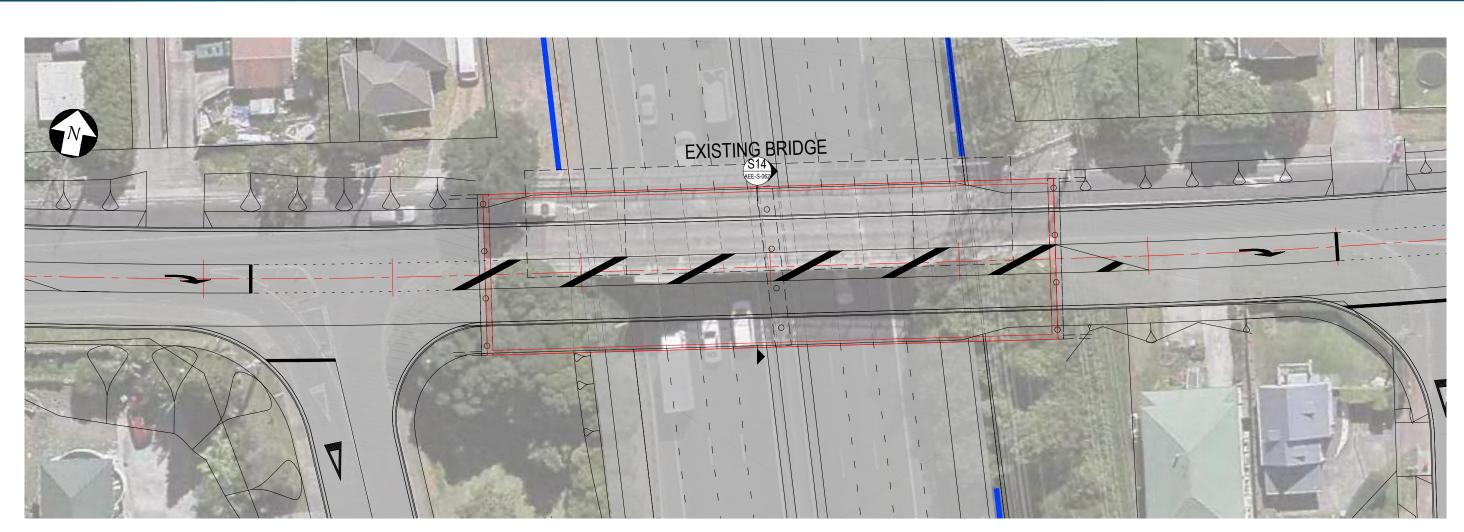
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0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	Appid	Date



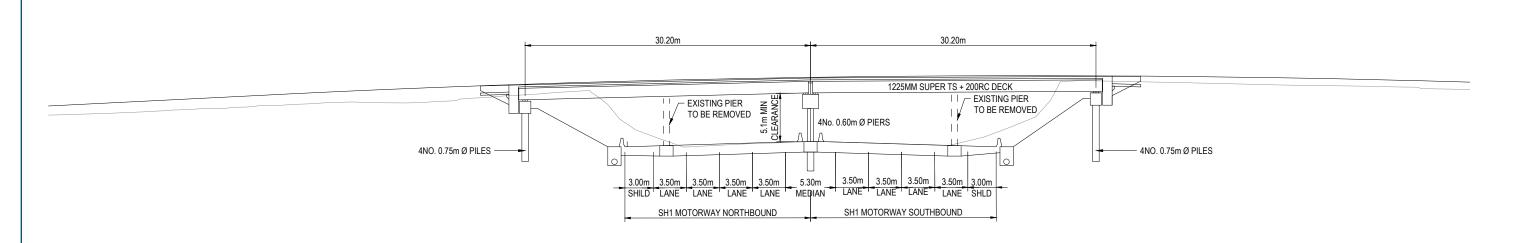
East West Link	
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager	Approved Alliance Manager
Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL 27.06.17	J CALDWELL 27.06.17
Scale: Original Scale (A1)	Reduced AS SH Scale (A3)	HOWN	PA4014

Drawing Title	STRUCTURAL	
	SH1 NB TO EWLINK WB OFF RAMP	
	TYPICAL CROSS SECTION - SHEET 2 OF 0)2
Drawing Numbe	AFF-S-056	Rev No.



PLAN SCALE 1:400 @ A3



LONG SECTION

SCALE 1:400 @ A3

SCALE 1:400 @ A3 SIZE

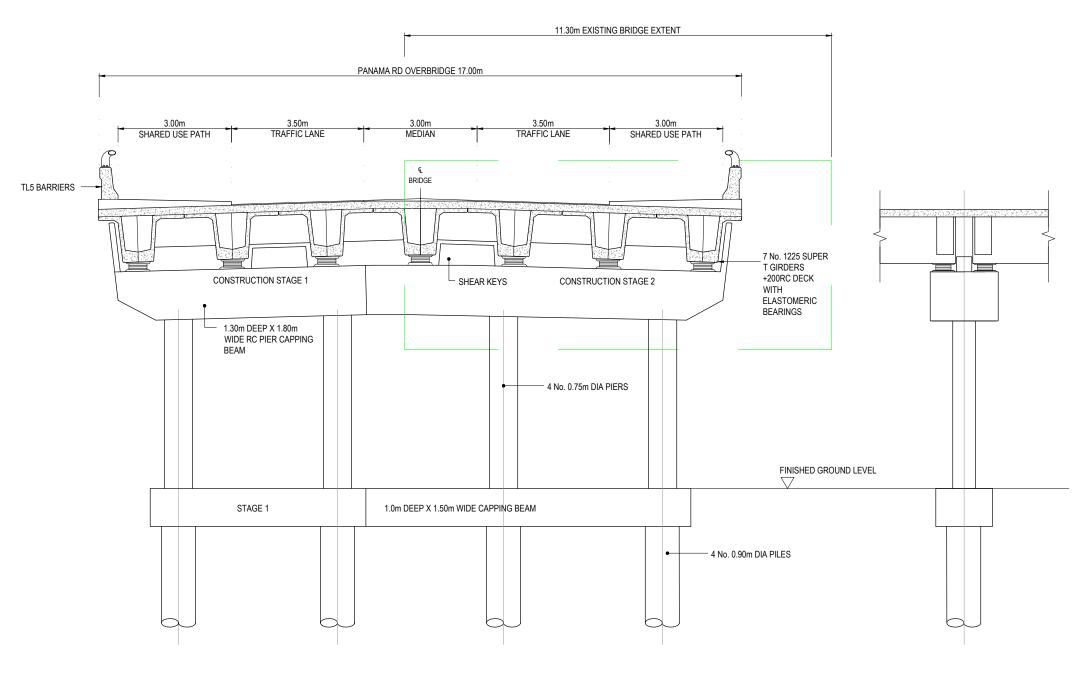
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l	1	BOARD OF INQUIRY	RT	NN	JC	27.06.2017
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	No.	Issued Status	Drawn	Check'd	App'd	Date



1	East West Link
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager	Approved Alliance Manager	
Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL 27.06.17	J CALDWELL 27.06.17	
Scale: Original	Reduced AS SI	HOWN Contr	act No	

	FOR BOI I	SSUE
Drawing Title	STRUCTURAL	
	PANAMA ROAD OVERBRIDGE	
	PLAN AND LONGSECTION	
Drawing Number	AEE-S-061	Rev No.



S14 SECTION - PANAMA RD BRIDGE - TYPICAL CROSS SECTION

SCALE 1:100 @ A3

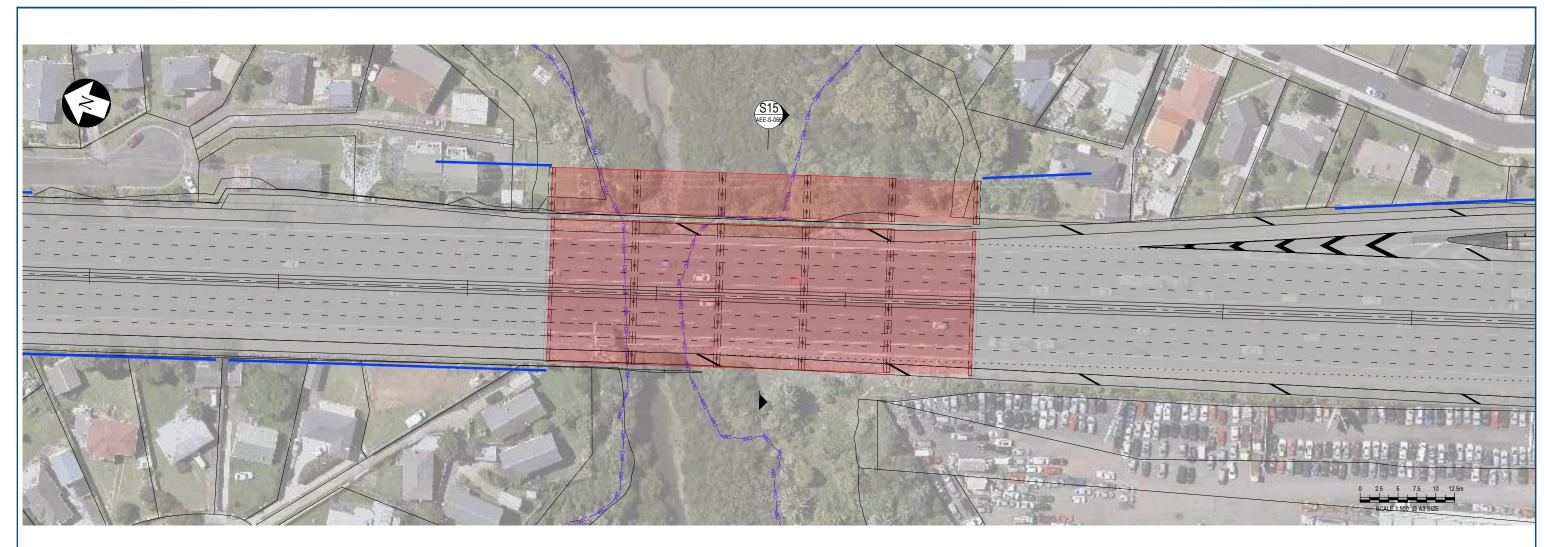




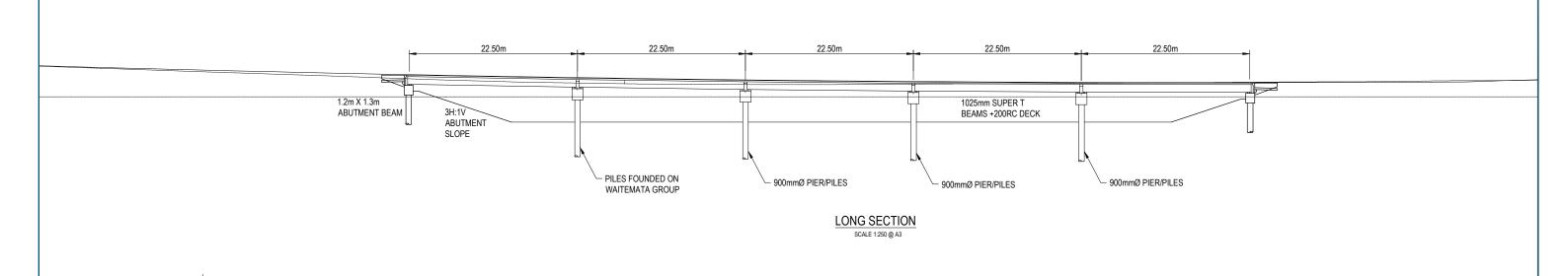
East West Link	
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1	Drawn A RAM	A RAM J MURAHIDY Design Manager		Approved Alliance Manager
	Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL 27.06.17	J CALDWELL 27.06.17
	Scale: Original Scale (A1)	Reduced AS SH Scale (A3)	HOWN	PA4014

	F	OR BOI IS	SSUE
Drawing Title	STRUCTURAL		
	PANAMA ROAD OVERBRIDGE		
	TYPICAL CROSS SECTION		
Drawing Number	* AFF-S-062		Rev No.







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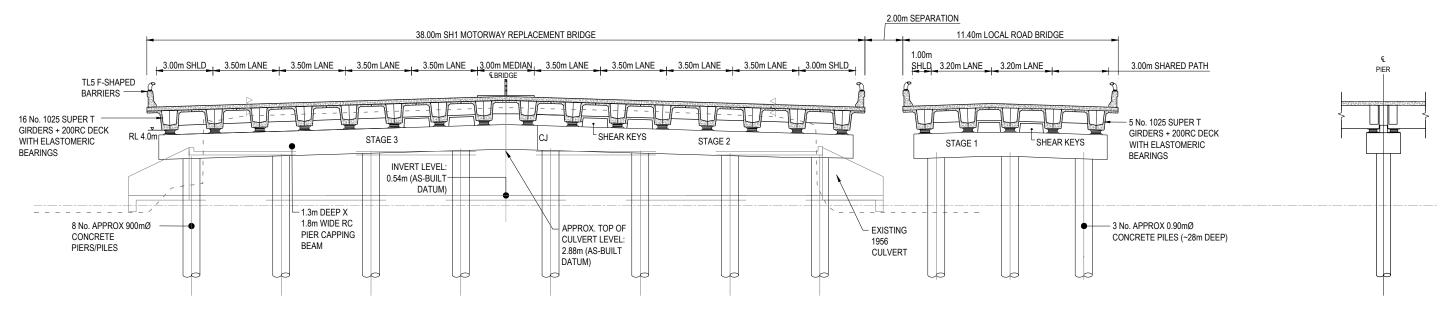
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East West Link

Scale: Original Scale (A1)	Reduced AS SH Scale (A3)	HOWN Contra	PA4014
Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL 27.06.17	J CALDWELL 27.06.17
Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager	Approved Alliance Manager

Drawing Title	STRUCTURAL	
	OTAHUHU CREEK	
	PLAN AND LONGSECTION	
Drawing Numb	AEE-S-065	Rev No.



S15 SECTION - OTAHUHU CREEK BRIDGE - TYPICAL CROSS SECTION

SCALE 1200 @ A3



FOR	BOI	ISSUE	

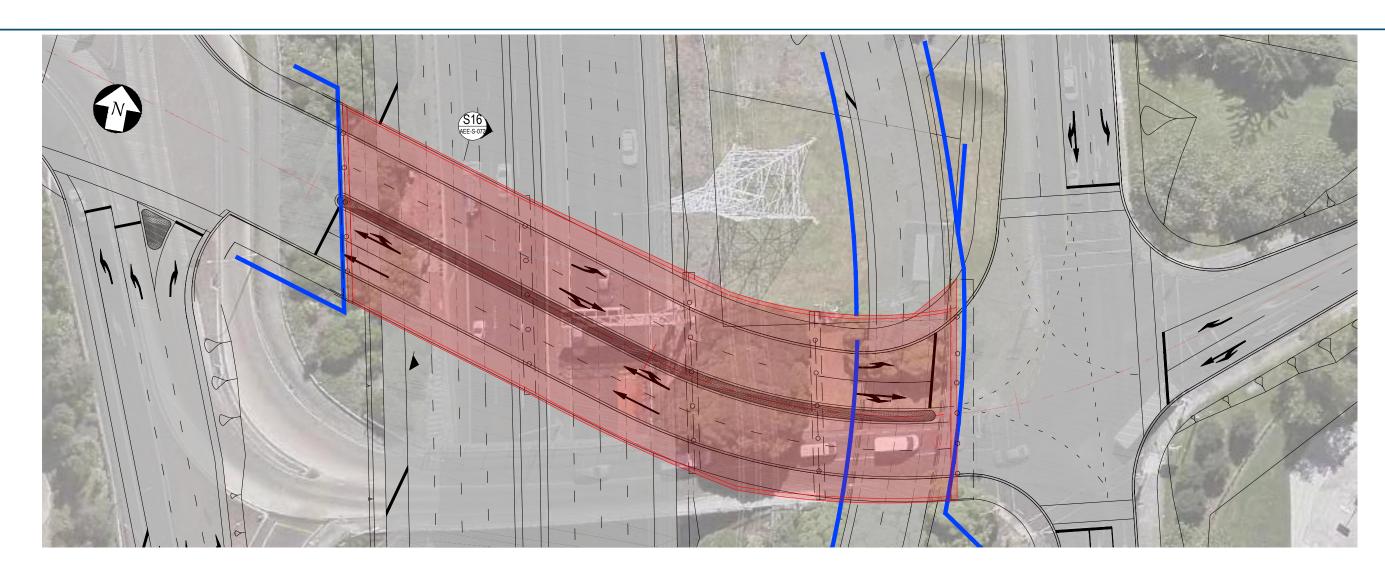
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No.	Issued Status	Drawn	Check'd	App'd	Date



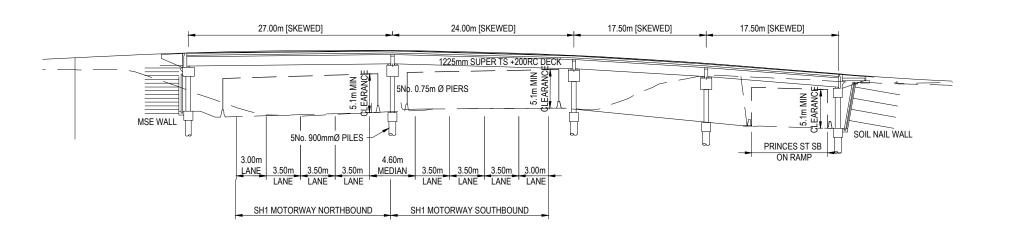
East West Link	
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager	Approved Alliance Manager
Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL 27.06.17	J CALDWELL 27.06.17
Scale: Original Scale (A1)	Reduced AS SI Scale (A3)	HOWN	PA4014

_			1 011 20
	Drawing Title	STRUCTURAL	
		OTAHUHU CREEK	
		TYPICAL CROSS SECTION	
	Drawing Number	AEE-S-066	



PLAN SCALE 1:500 @ A3



LONG SECTION



East West Link

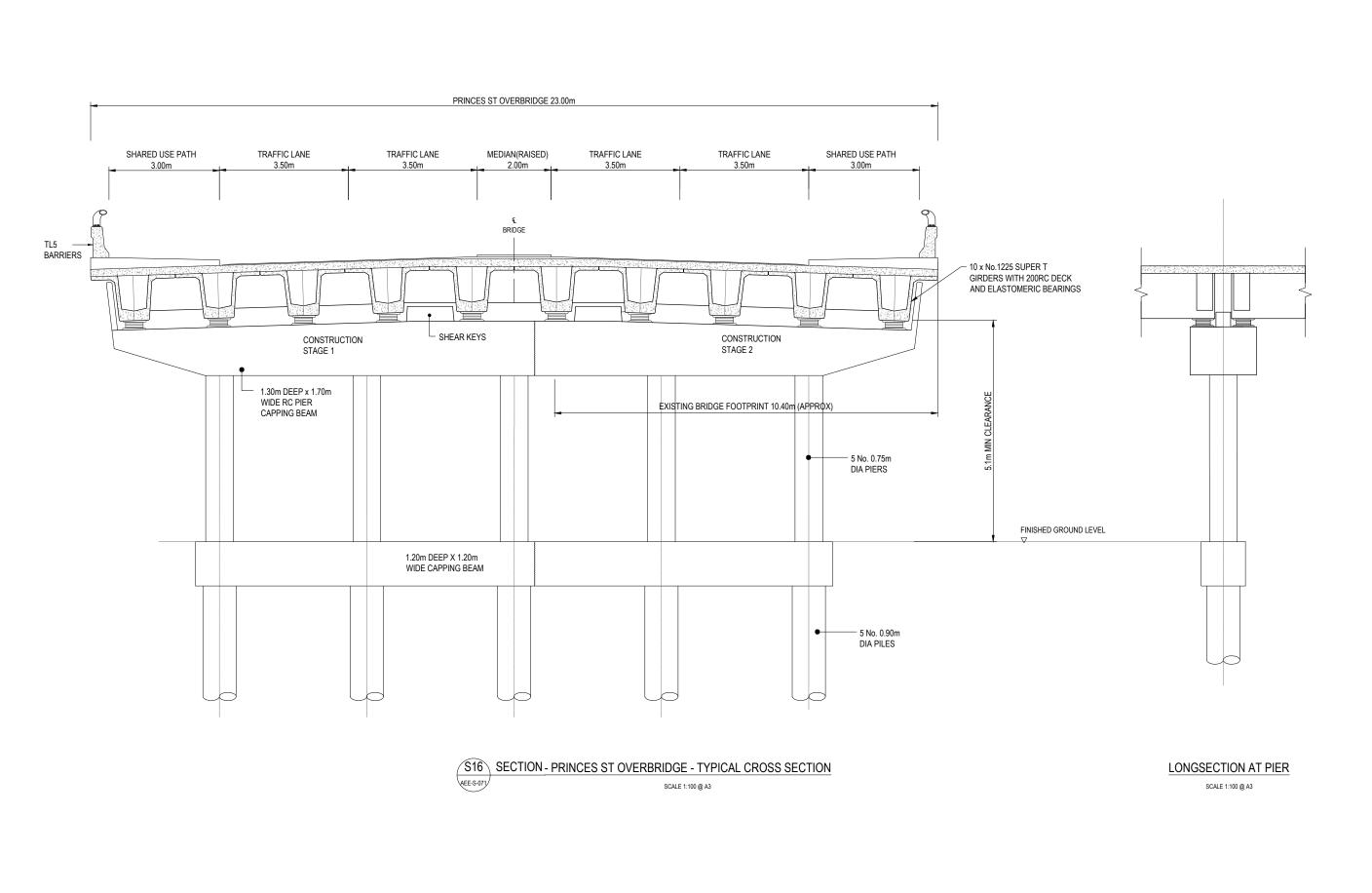
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Designed O LUMB		LBILLINGS		N NANCEKIVELL 27.06.17		J CALDWELL 27.06.17	
Scale: Original Scale (A1)		Reduced AS SHOWN Scale (A3)		Contra	Contract No PA4014		

FOR BOI ISSUE awing Title STRUCTURAL PRINCES ST OVERBRIDGE PLAN AND LONGSECTION AEE-S-071

1	BOARD OF INQUIRY	RT	NN	JC	27.06.2017
0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
No.	Issued Status	Drawn	Check'd	App'd	Date

DISCLAIMER
This drawing is for the purpose of supporting applications under the RMA for resource consents and designations. All information shown is subject to final design. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions with prevail. This Drawing must not be used for construction

ZTRANSPORT AGENCY DIAGRAMOTAN



SCALE 1:100 @ A3 SIZE

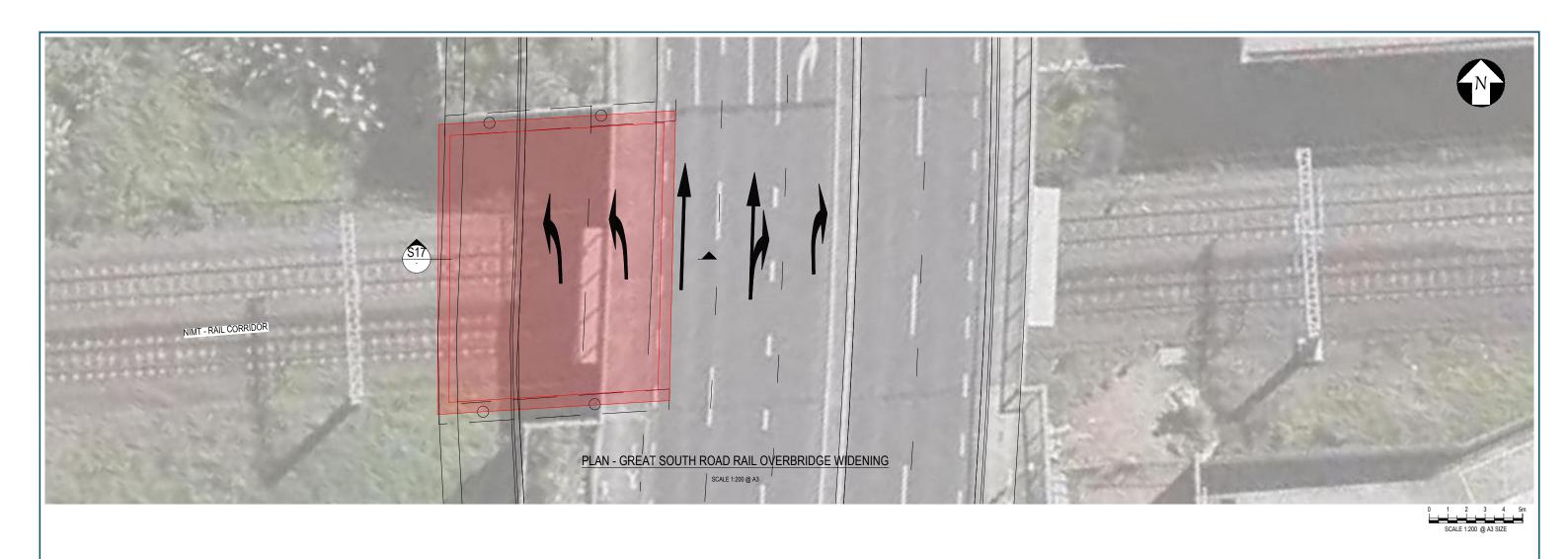
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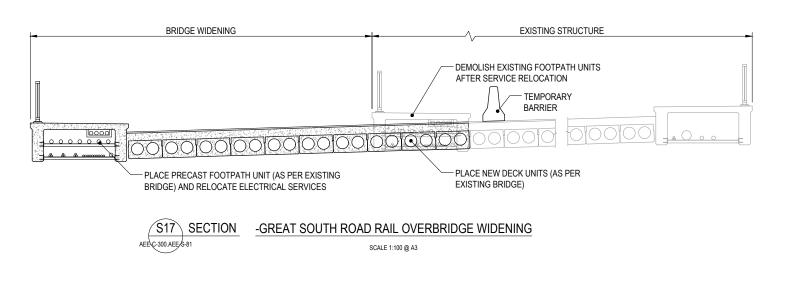


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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager	Approved Alliance Manager
Designed O LUMB	Design Check I BILLINGS	N NANCEKIVELL J CALDWE 27.06.17 27.06.17	
Scale: Original Scale (A1)	Reduced AS SH Scale (A3)	HOWN	PA4014

Drawing Title	STRUCTURAL	
	PRINCES ST OVERBRIDGE	
	TYPICAL CROSS SECTION	
Drawing Numb	er AEE-S-072	Rev No.







FOR BOI ISSUE

	2	BOARD OF INQUIRY	RT	NN	JC	27.06.2017
l	1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	AR	NN*	PK*	14.12.2016
	0	ISSUED FOR CONSENT	AR	NN*	PK*	01.12.2016
ı	No.	Issued Status	Drawn	Check'd	App'd	Date

DISCLAIMER
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Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction





Designed O LUMB Drafting Check J MURAHIDY Designed Design Check I BILLINGS			Reviewed Design Manager N NANCEKIVELL 27.06.17		Approved Alliance Manager J CALDWELL 27.06.17
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SI	HOWN	Contra	

rawing Title	STRUCTURAL
	GREAT SOUTH ROAD RAIL OVERBRIDGE WIDENING
	PLAN AND SECTION SECTION

AEE-S-081

Plot Date: 23 June 2017 - 9:24 AM

Plotted by: Tony Duong

Cad File No: C:\Users\tdhd\Desktop\Batch_EWLINK_NZ\AEE-S-081.du

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