

# PLAN SET 9 STORMWATER

EAST WEST LINK DRAWING REGISTER						
DWG NUMBER	DRAWING TITLE	CURRENT REVISION	DATE AND REVISION			
			1/12/2016	14/12/2016		
	PLAN SET 9 - STORMWATER					
AEE-SW-001	STORMWATER - EAST WEST LINK - DRAWING INDEX, NOTES AND LEGEND	1	0	1		
AEE-SW-100	STORMWATER - EAST WEST LINK - OVERVIEW PLAN	1	0	1		
AEE-SW-101	STORMWATER - SH20/NEILSON STREET INTERCHANGE - SHEET 1	0	0			
AEE-SW-102	STORMWATER - NEILSON STREET INTERCHANGE - SHEET 2	0	0			
AEE-SW-103	STORMWATER - GALWAY STREET - SHEET 3	0	0			
AEE-SW-104	STORMWATER - EMBANKMENT - SHEET 4	0	0			
AEE-SW-105	STORMWATER - EMBANKMENT - SHEET 5	0	0			
AEE-SW-106	STORMWATER - EMBANKMENT/ANNS CREEK - SHEET 6	0	0			
AEE-SW-107	STORMWATER - ANNS CREEK - SHEET 7	1	0	1		
AEE-SW-108	STORMWATER - ANNS CREEK/SYLVA PARK ROAD - SHEET 8	1	0	1		
AEE-SW-109	STORMWATER - ANNS CREEK/SYLVA PARK RAMPS - SHEET 9	1	0	1		
AEE-SW-110	STORMWATER - SH1/SYLVA PARK RAMPS - SHEET 10	1	0	1		
AEE-SW-111	STORMWATER - SH1/PANAMA ROAD - SHEET 11	0	0			
AEE-SW-112	STORMWATER - SH1/OTAHUHU CREEK - SHEET 12	0	0			
AEE-SW-113	STORMWATER - PRINCES STREET INTERCHANGE - SHEET 13	0	0			
AEE-SW-114	STORMWATER - NEILSON STREET INTERCHANGE - LOCAL ROADS - SHEET 14A AND 14B	0	0			
AEE-SW-115	STORMWATER - CAPTAIN SPRINGS ROAD/ PORTS LINK - SHEET 15A AND 15B	0	0			
AEE-SW-116	STORMWATER - EMBANKMENT - SHEET 16	0	0			
AEE-SW-301	STORMWATER - TYPICAL WETLAND - PLAN AND SECTION	0	0			
AEE-SW-311	STORMWATER - EMBANKMENT WETLAND - TYPICAL CROSS SECTION	0	0			
AEE-SW-312	STORMWATER - FORESHORE TREATMENT AREA - TYPICAL SECTION	0	0			

**LEGEND: STORMWATER**

**PROPOSED FEATURES**

- STORMWATER FOREBAY AREA
- STORMWATER WETLAND AREA
- STORMWATER BIOFILTRATION AREA
- STORMWATER MANHOLE
- STORMFILTER MANHOLE
- STORMFILTER VAULT
- STORMWATER MANHOLE WITH SCRUFFY DOME
- ONE WAY VALVE
- CATCHPIT
- LEACHATE MANHOLE
- CUT SLOPES
- ROAD ALIGNMENT
- FILL SLOPES
- ROCK
- STORMWATER OUTLET
- STORMWATER PIPE
- OVERLAND FLOW CHANNEL
- OPEN CHANNEL
- BOX CULVERT
- EMERGENCY OVERFLOW
- STORAGE TANK/ PUMP STATION
- PROPOSED LEACHATE COLLECTION PIPE
- PROPOSED LEACHATE WALL
- DESIGNATION BOUNDARY
- FORESHORE VEGETATION
- SHINGLE FORESHORE SLOPE
- BRIDGE STRUCTURE
- CYCLE/ PEDESTRIAN PATH
- RETAINING WALL

**EXISTING FEATURES**

- PROPERTY BOUNDARY
- EXISTING SHARED PATH TO REMAIN
- EXISTING COASTAL MARINE BOUNDARY
- STORMWATER PIPE TO REMAIN
- EXISTING CULVERT
- EXISTING SERVICES TO BE REMOVED/ABANDONED
- EXISTING OPEN CHANNEL TO BE REMOVED
- EXISTING OPEN CHANNEL

STORMWATER PLANS, REFER DRAWINGS AEE-SW-101 TO AEE-SW-116

FOR CONSENT

No.	Issued Status	Drawn	Check'd	App'd	Date
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0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

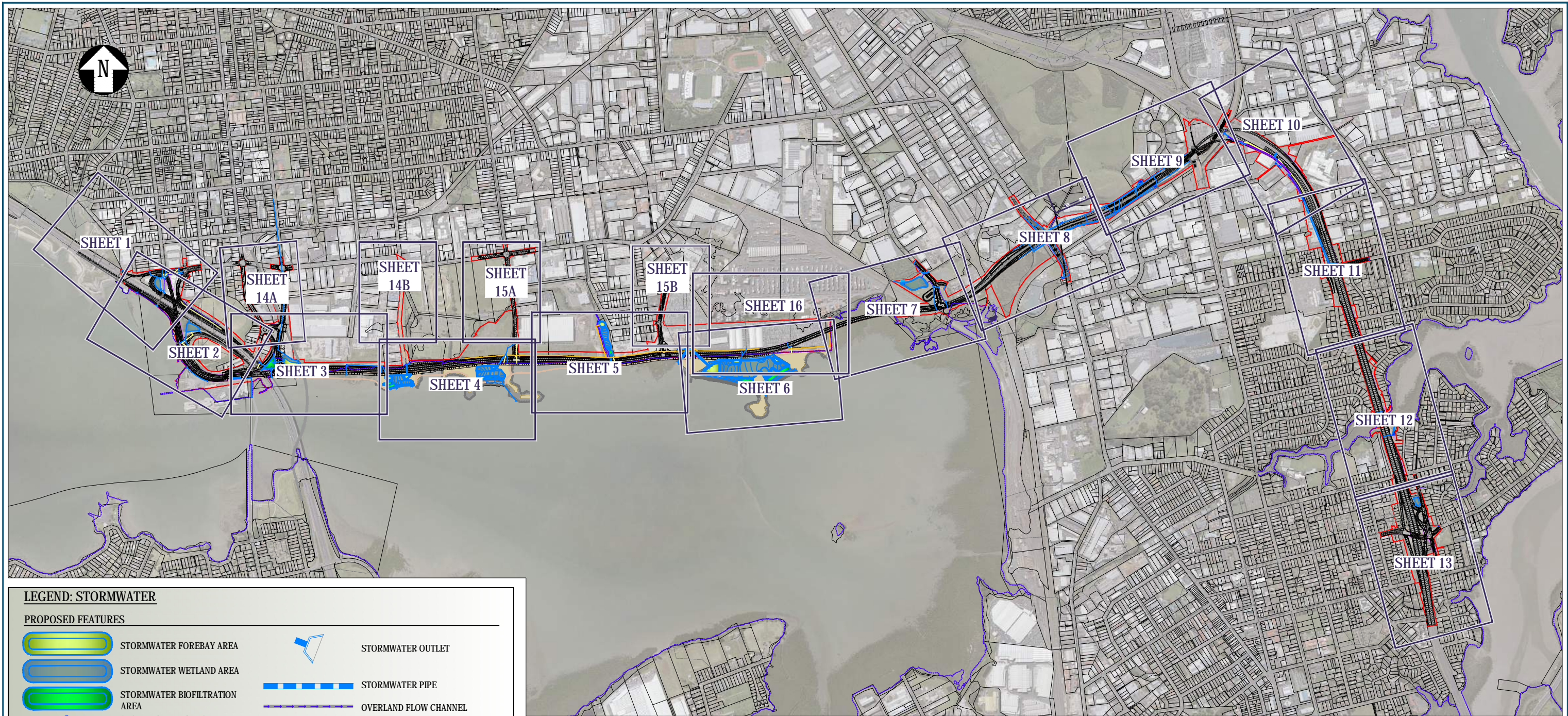
**DISCLAIMER**  
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East West Link


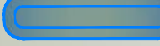









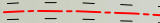



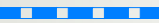
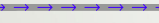
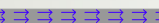



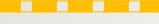






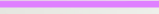
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Designed LB & TB	Design Check DP & TC	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title STORMWATER EAST WEST LINK DRAWING INDEX, NOTES AND LEGEND	Drawing Number AEE-SW-001	Rev No. 1
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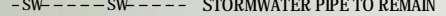
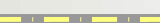


**LEGEND: STORMWATER**

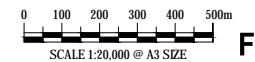
**PROPOSED FEATURES**

-  STORMWATER FOREBAY AREA
-  STORMWATER WETLAND AREA
-  STORMWATER BIOFILTRATION AREA
-  STORMWATER MANHOLE
-  STORMFILTER MANHOLE
-  STORMFILTER VAULT
-  STORMWATER MANHOLE WITH SCRUFFY DOME
-  ONE WAY VALVE
-  CATCHPIT
-  LEACHATE MANHOLE
-  CUT SLOPES
-  ROAD ALIGNMENT
-  FILL SLOPES
-  ROCK
-  STORMWATER OUTLET
-  STORMWATER PIPE
-  OVERLAND FLOW CHANNEL
-  OPEN CHANNEL
-  BOX CULVERT
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**EXISTING FEATURES**

-  PROPERTY BOUNDARY
-  EXISTING SHARED PATH TO REMAIN
-  EXISTING COASTAL MARINE BOUNDARY
-  STORMWATER PIPE TO REMAIN
-  EXISTING CULVERT
-  EXISTING SERVICES TO BE REMOVED/ABANDONED
-  EXISTING OPEN CHANNEL TO BE REMOVED
-  EXISTING OPEN CHANNEL

STORMWATER PLANS, REFER DRAWINGS AEE-SW-101 TO AEE-SW-116



**FOR CONSENT**

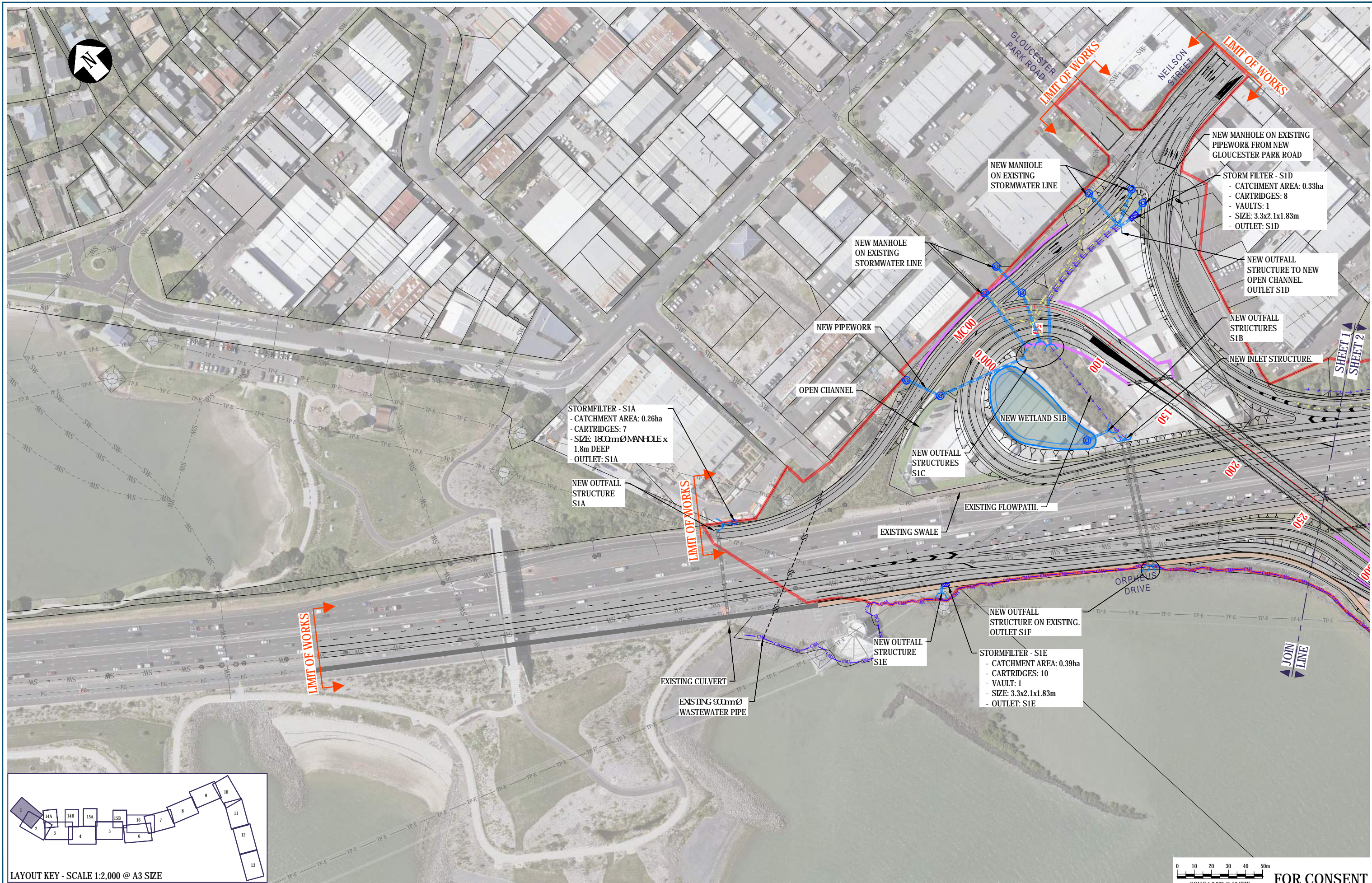
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1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	AR	NN*	PK*	14/12/2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

**DISCLAIMER**  
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 under the RMA for resource consents and designations.  
 Areas and measurements are subject to survey.  
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed L BOLAM & T BLOUNT	Design Check D PAICE & T CAIN	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title <b>STORMWATER EAST WEST LINK OVERVIEW PLAN</b>	Drawing Number <b>AEE-SW-100</b>	Rev No. 1
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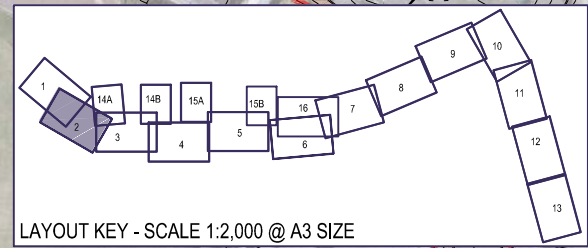
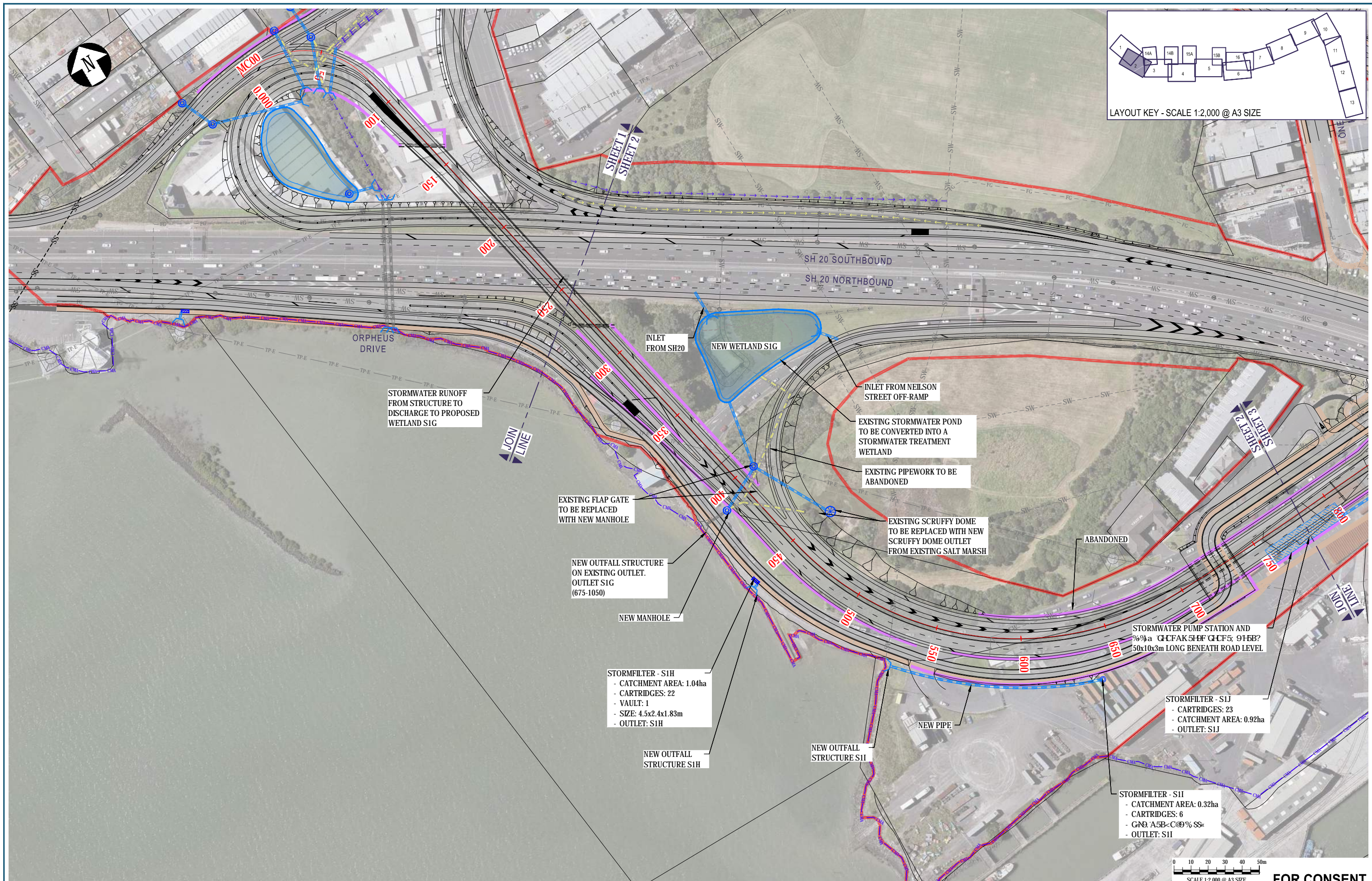
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No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed L BOLAM & T BLOUNT	Design Check D PAICE & T CAIN	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title <b>STORMWATER SH20/ NEILSON STREET INTERCHANGE SHEET 1</b>	Drawing Number AEE-SW-101	Rev No. 0
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STORMWATER RUNOFF FROM STRUCTURE TO DISCHARGE TO PROPOSED WETLAND SIG

EXISTING FLAP GATE TO BE REPLACED WITH NEW MANHOLE

NEW OUTFALL STRUCTURE ON EXISTING OUTLET. OUTLET SIG (675-1050)

STORMFILTER - S1H  
 - CATCHMENT AREA: 1.04ha  
 - CARTRIDGES: 22  
 - VAULT: 1  
 - SIZE: 4.5x2.4x1.83m  
 - OUTLET: S1H

NEW OUTFALL STRUCTURE S1H

NEW WETLAND SIG

INLET FROM NEILSON STREET OFF-RAMP

EXISTING STORMWATER POND TO BE CONVERTED INTO A STORMWATER TREATMENT WETLAND

EXISTING PIPEWORK TO BE ABANDONED

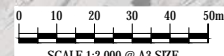
EXISTING SCRUFFY DOME TO BE REPLACED WITH NEW SCRUFFY DOME OUTLET FROM EXISTING SALT MARSH

ABANDONED

STORMWATER PUMP STATION AND 50x10x3m LONG BENEATH ROAD LEVEL

STORMFILTER - S1J  
 - CARTRIDGES: 23  
 - CATCHMENT AREA: 0.92ha  
 - OUTLET: S1J

STORMFILTER - S1I  
 - CATCHMENT AREA: 0.32ha  
 - CARTRIDGES: 6  
 - OUTLET: S1I



FOR CONSENT

0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016
No.	Issued Status	Drawn	Check'd	App'd	Date

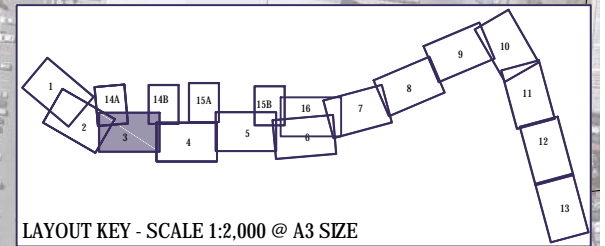
**DISCLAIMER**  
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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	P KELLY
Designed	L BOLAM & T BLOUNT	Design Check	D PAICE & T CAIN	Design Manager	1/12/16	Alliance Manager	1/12/16
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

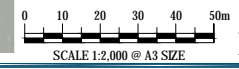
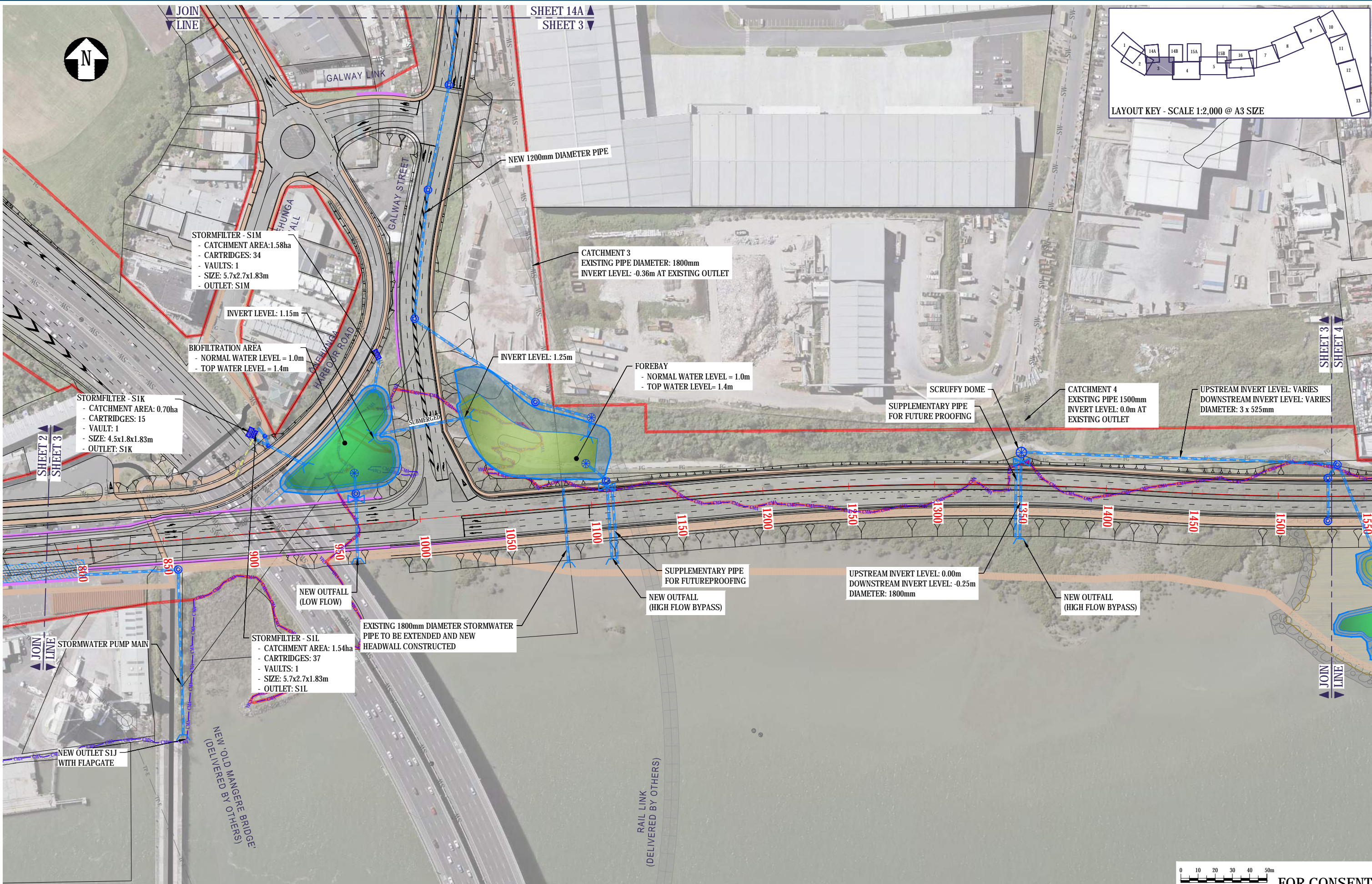
Drawing Title	STORMWATER NEILSON STREET INTERCHANGE SHEET 2
Drawing Number	AEE-SW-102
Rev No.	0



SHEET 14A  
SHEET 3



LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE



SCALE 1:2,000 @ A3 SIZE

FOR CONSENT

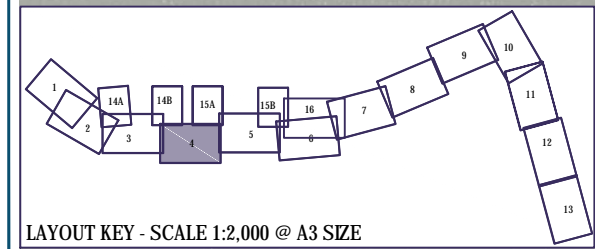
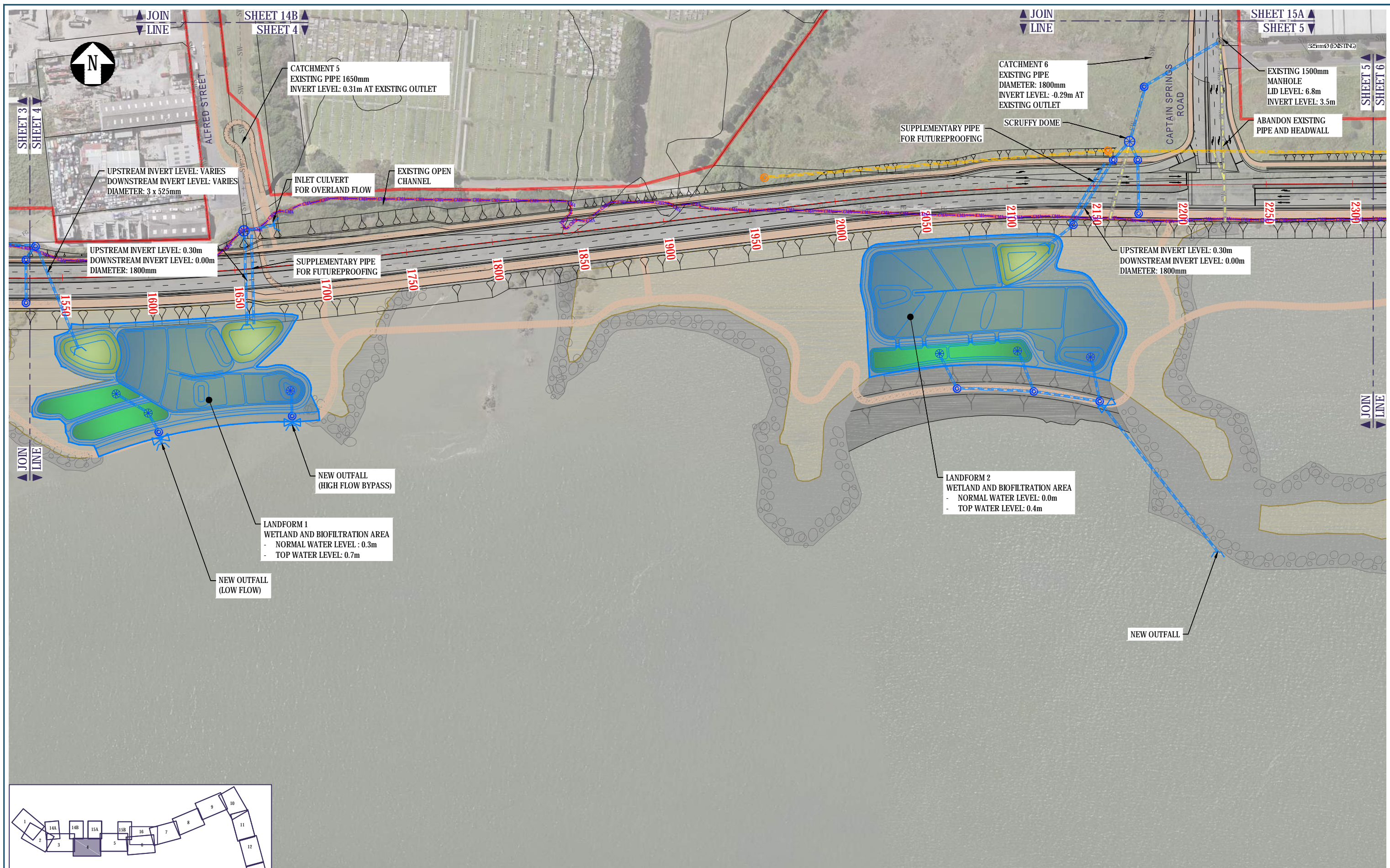
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No.	Issued Status	Drawn	Check'd	App'd	Date

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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	P KELLY
Designed	L BOLAM & T BLOUNT	Design Check	D PAICE & T CAIN	Design Manager	N NANCEKIVELL	Alliance Manager	P KELLY
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	STORMWATER EAST WEST LINK/ GALWAY STREET SHEET 3	
Drawing Number	AEE-SW-103	Rev No. 0



LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE

0 10 20 30 40 50m  
SCALE 1:2,000 @ A3 SIZE **FOR CONSENT**

No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed L BOLAM & T BLOUNT	Design Check D PAICE & T CAIN	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No <b>PA4014</b>

Drawing Title <b>STORMWATER EMBANKMENT SHEET 4</b>	Drawing Number <b>AEE-SW-104</b>	Rev No. <b>0</b>
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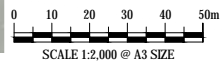
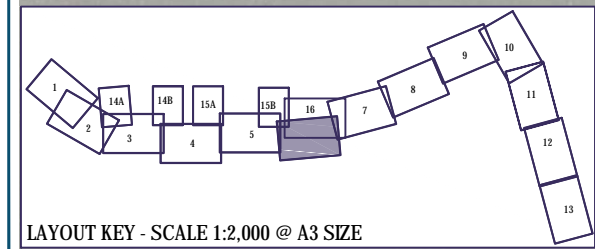
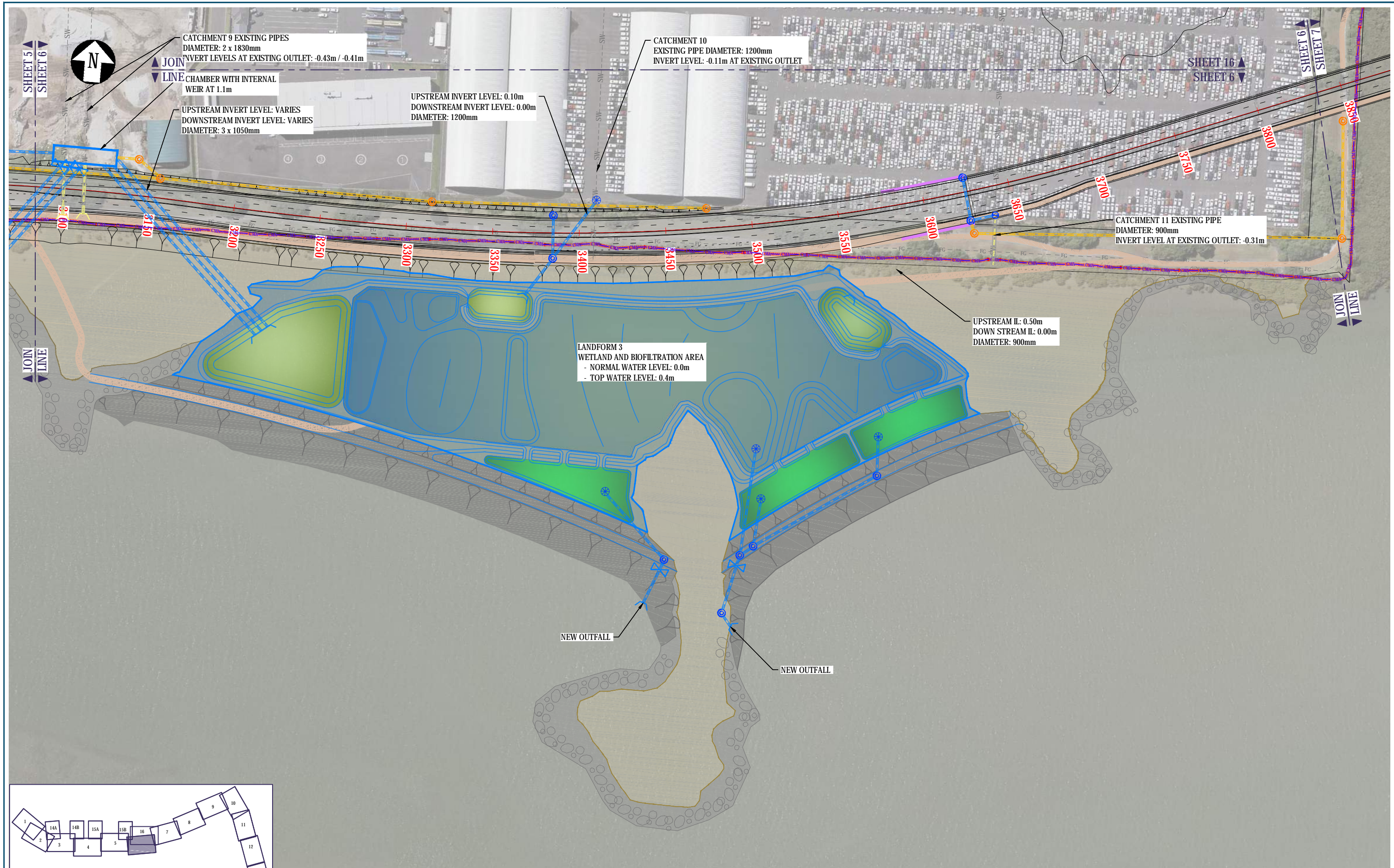


No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed L BOLAM & T BLOUNT	Design Check D PAICE & T CAIN	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title <b>STORMWATER EMBANKMENT SHEET 5</b>	Rev No. 0
Drawing Number AEE-SW-105	



FOR CONSENT

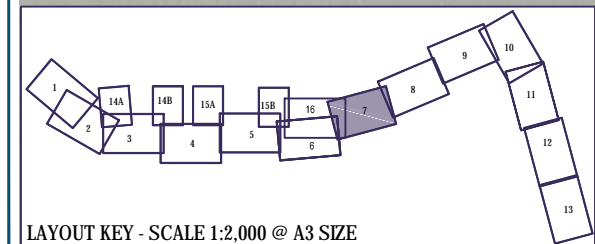
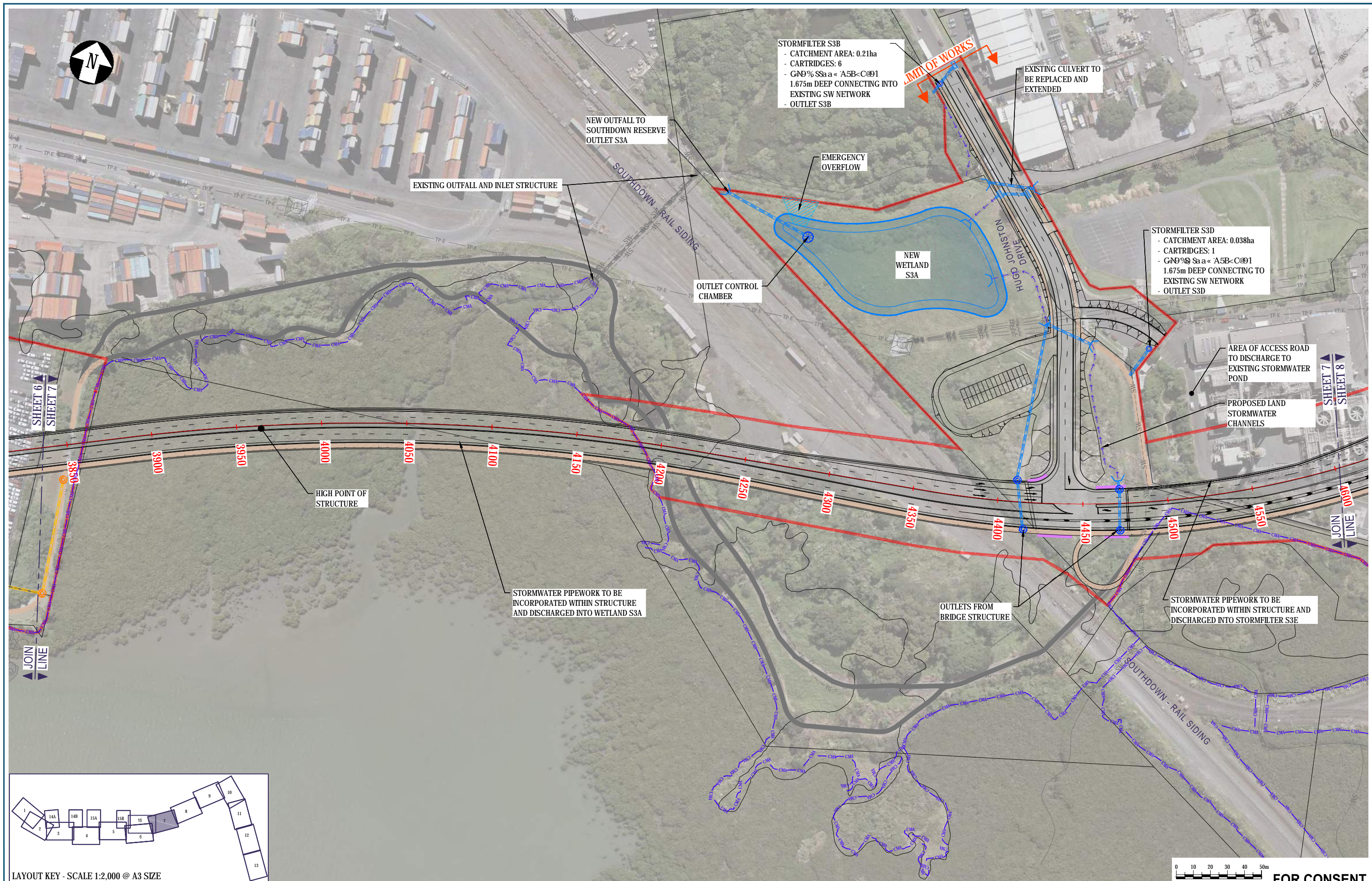
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0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

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Designed L BOLAM & T BLOUNT	Design Check D PAICE & T CAIN	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title <b>STORMWATER EMBANKMENT/ ANNS CREEK SHEET 6</b>	Drawing Number AEE-SW-106	Rev No. 0
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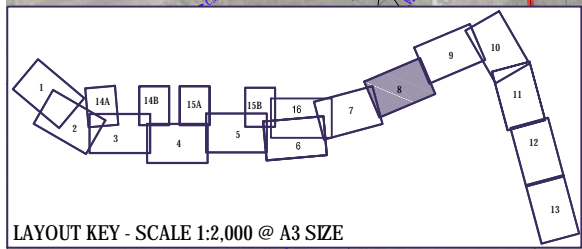
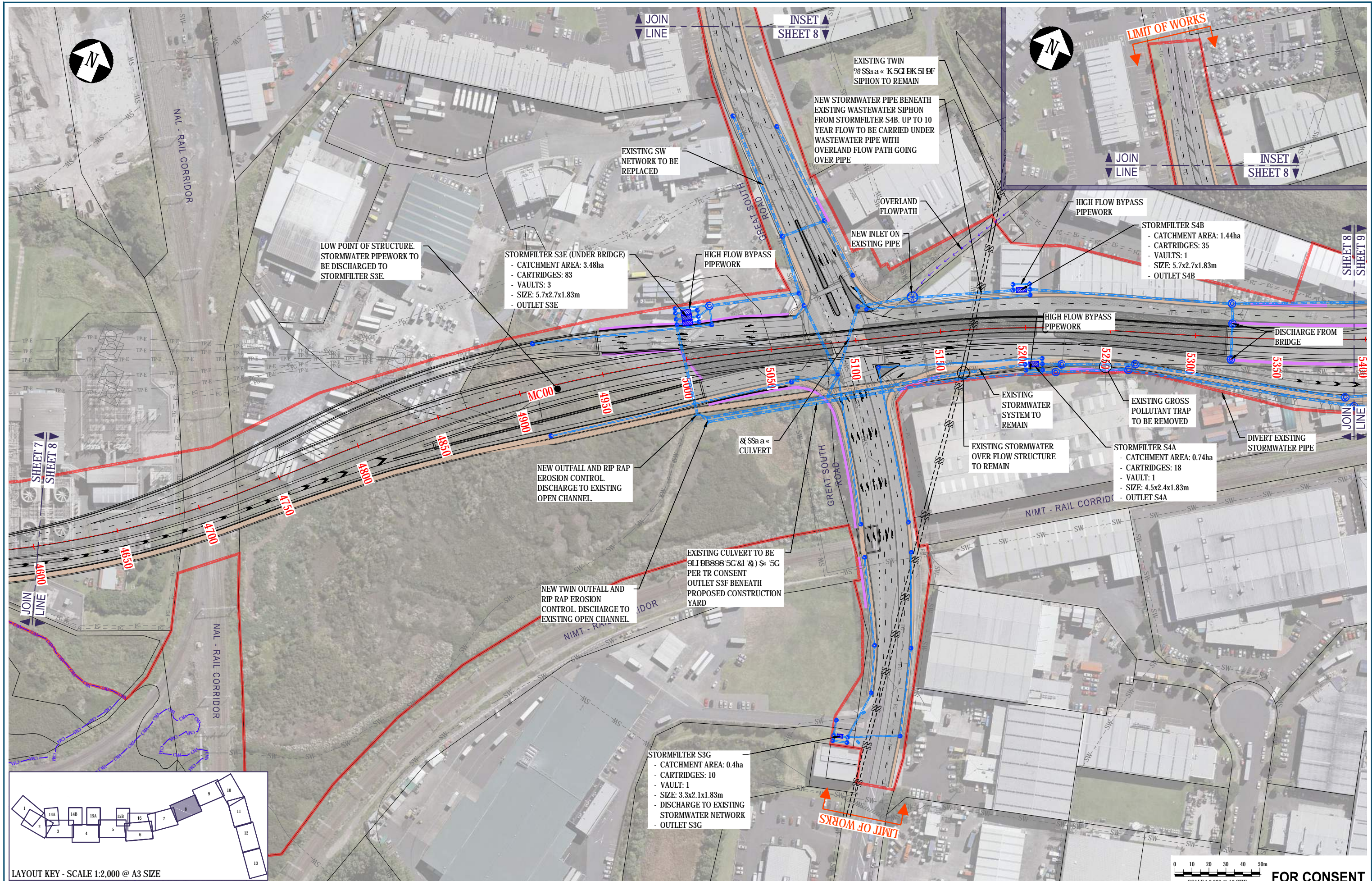


No.	Issued Status	Drawn	Check'd	App'd	Date
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0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

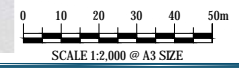
**DISCLAIMER**  
 Hāwhiri te ika a Māui...  
 under the RMA for resource consents and designations.  
 5' 72'fa Uf-b'g'ckb l'g'g' V'W'W'e 7'U'X'g'g' b'  
 Areas and measurements are subject to survey.  
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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	P KELLY
Designed	L BOLAM & T BLOUNT	Design Check	D PAICE & T CAIN	1/12/16	1/12/16	Contract No PA4014	
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN				

Drawing Title:	STORMWATER ANNS CREEK SHEET 7		
Drawing Number:	AEE-SW-107		
Rev No.:	1		



LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE



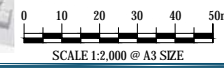
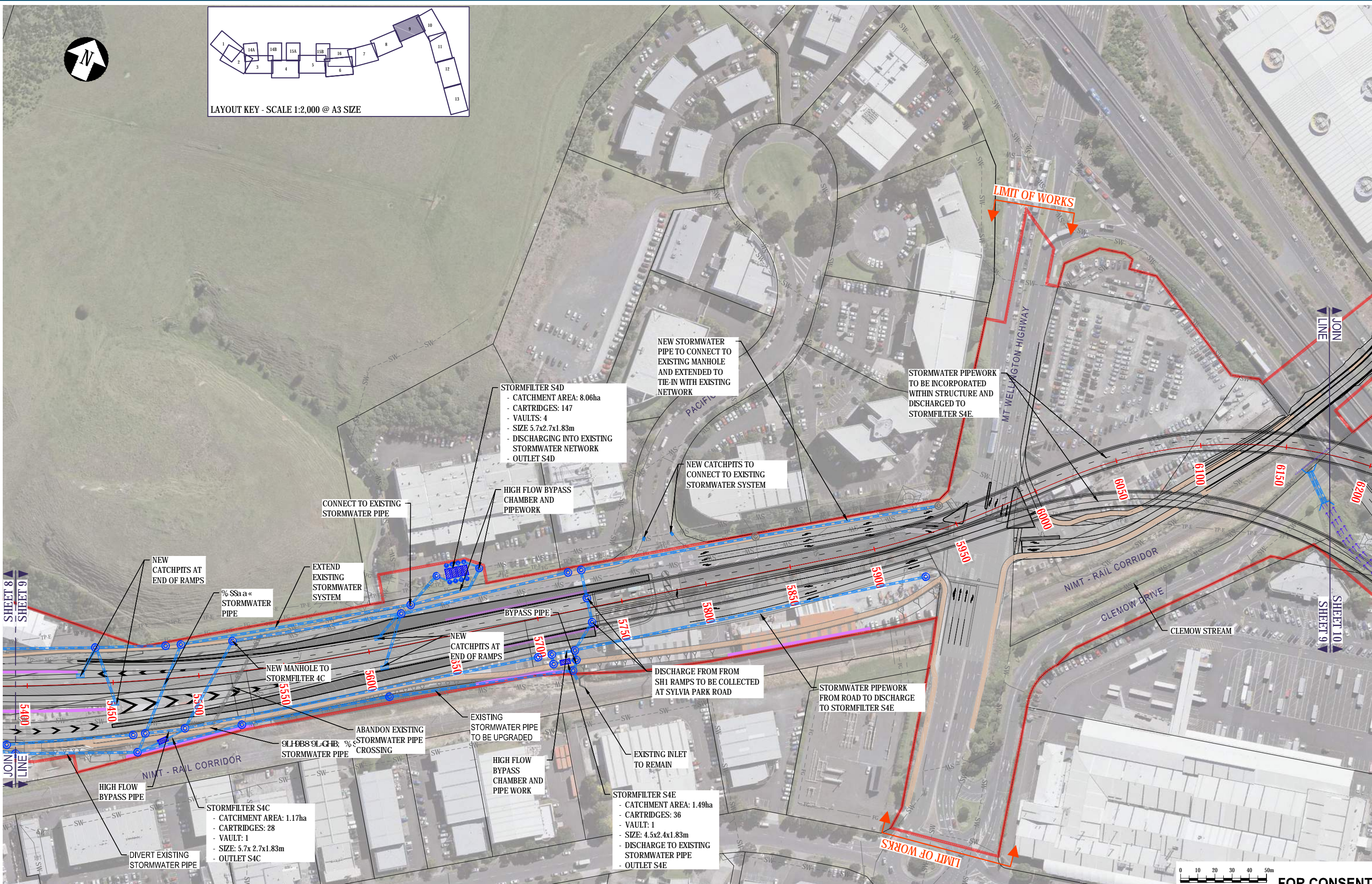
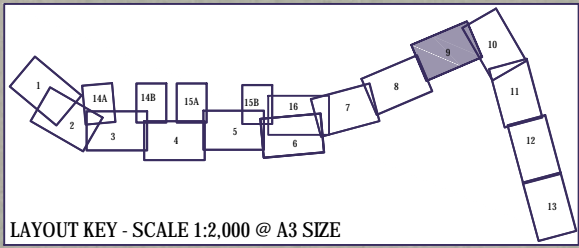
FOR CONSENT

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0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

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Designed	L BOLAM & T BLOUNT	Design Check	D PAICE & T CAIN	Date	1/12/16	Contract No	PA4014
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN				

Drawing Title	STORMWATER ANNS CREEK/SYLVA PARK ROAD SHEET 8		
Drawing Number	AEE-SW-108	Rev No.	1



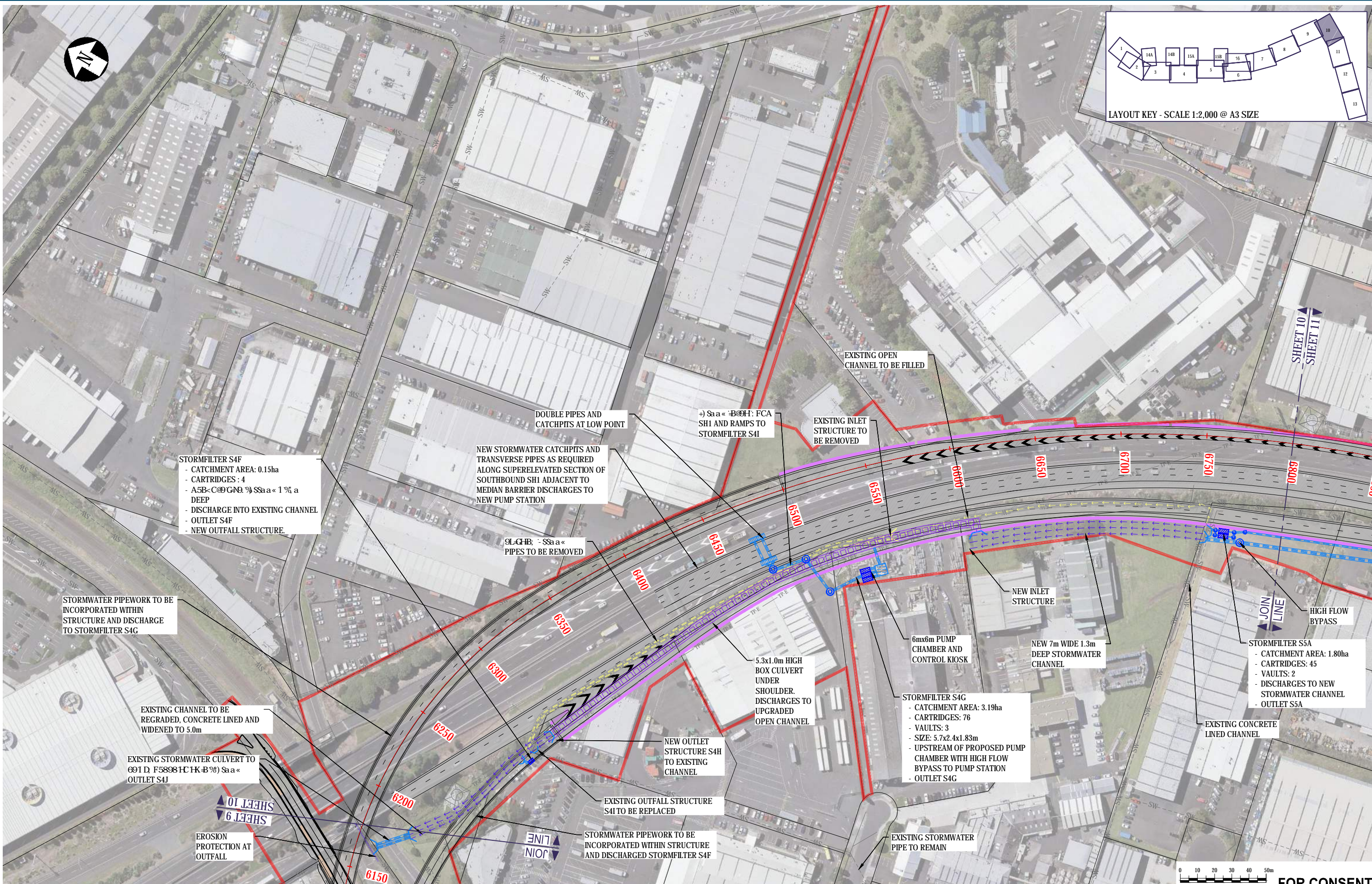
**FOR CONSENT**

No.	Issued Status	Drawn	Check'd	App'd	Date
1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	AR	NN*	PK*	14/12/2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

**DISCLAIMER**  
 Hāwhiri te ika a Māui...  
 under the RMA for resource consents and designations.  
 Areas and measurements are subject to survey.  
 Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction

Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	Design Manager	Approved	Alliance Manager
Designed	L BOLAM & T BLOUNT	Design Check	D PAICE & T CAIN	Design	N NANCEKIVELL	Design	P KELLY
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Date	1/12/16	Contract No	PA4014

Drawing Title	STORMWATER SH1/ SYLVIA PARK RAMPS SHEET 9		
Drawing Number	AEE-SW-109		
Rev No.	1		



No.	Issued Status	Drawn	Checked	App'd	Date
1	ISSUED FOR CONSENT - GSR GRADE SEPARATION	AR	NN*	PK*	14/12/2016
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

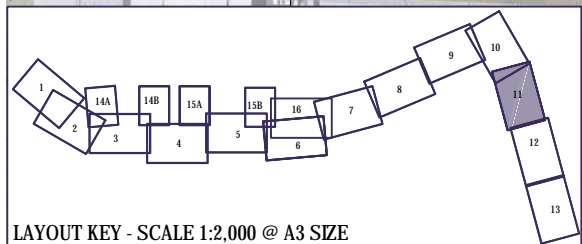
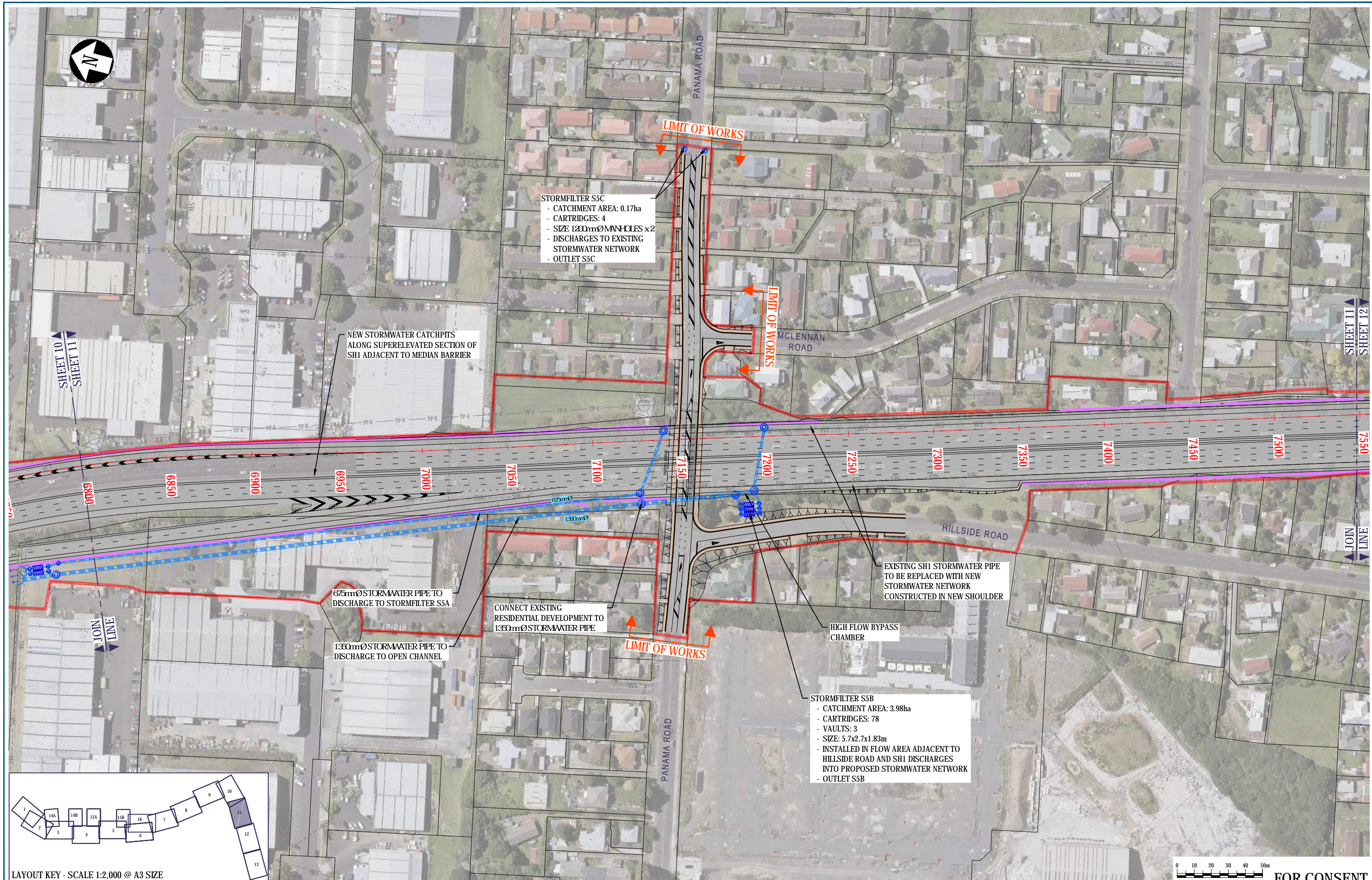
**DISCLAIMER**  
 This drawing is prepared by the Engineer for the purpose of resource consent and designations. It is not to be used for any other purpose without the written consent of the Engineer. Areas and measurements are subject to survey. Where the designs conflict with conditions the conditions will prevail. This Drawing must not be used for construction.

**NZ TRANSPORT AGENCY**  
 WAKA KOTAHĪ

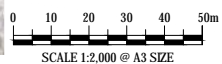
**East West Link**

Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed L BOLAM & T BLOUNT	Design Check D PAICE & T CAIN	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title <b>STORMWATER SH1/ SYLVIA PARK RAMPS SHEET 10</b>	Drawing Number AEE-SW-110	Rev No. 1
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LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE



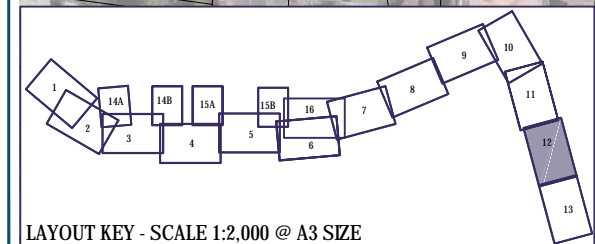
FOR CONSENT

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 will prevail. This Drawing must not be used for construction

Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	Design Manager	Approved	Alliance Manager
Designed	L BOLAM & T BLOUNT	Design Check	D PAICE & T CAIN	Reviewed	N NANCEKIVELL	Approved	P KELLY
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No	PA4014		

Drawing Title	STORMWATER SH1/ PANAMA ROAD SHEET 11		
Drawing Number	AEE-SW-111	Rev No.	0

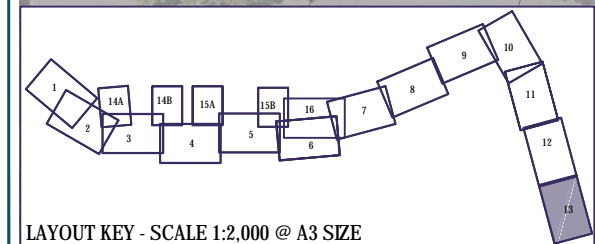
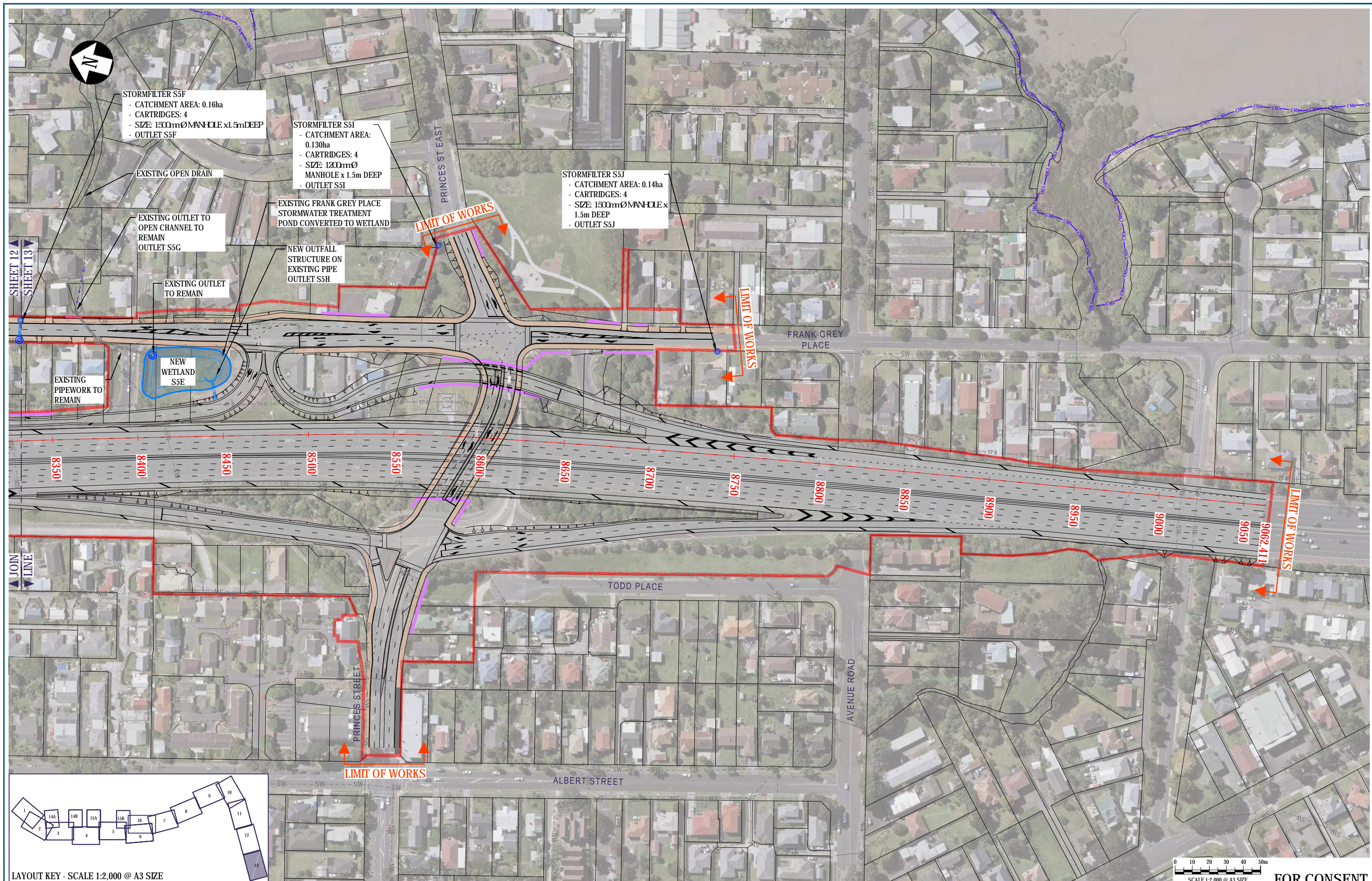


No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

**DISCLAIMER**  
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed L BOLAM & T BLOUNT	Design Check D PAICE & T CAIN	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title <b>STORMWATER SH1/ OTAHUHU CREEK SHEET 12</b>	Rev No. 0
Drawing Number AEE-SW-112	

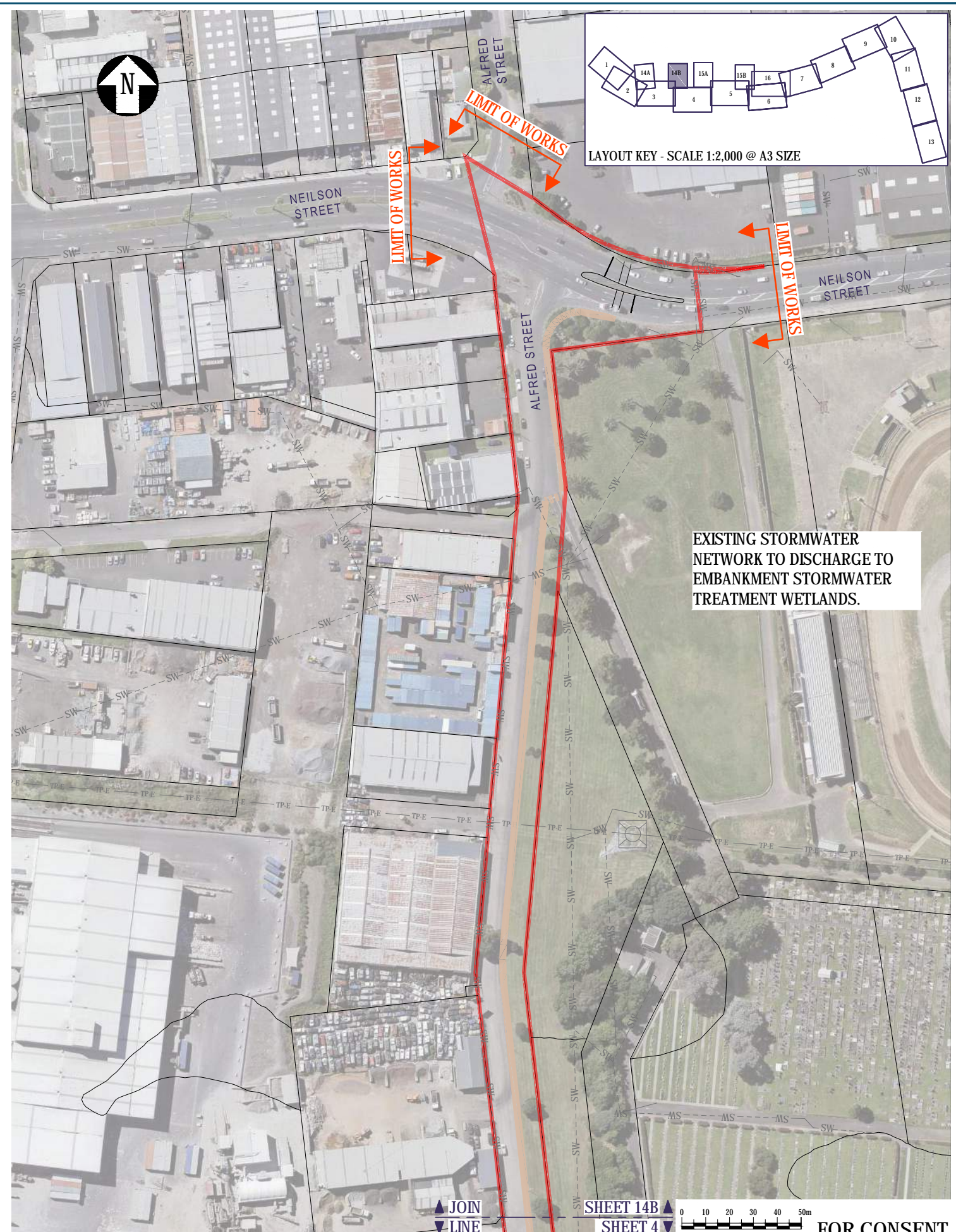
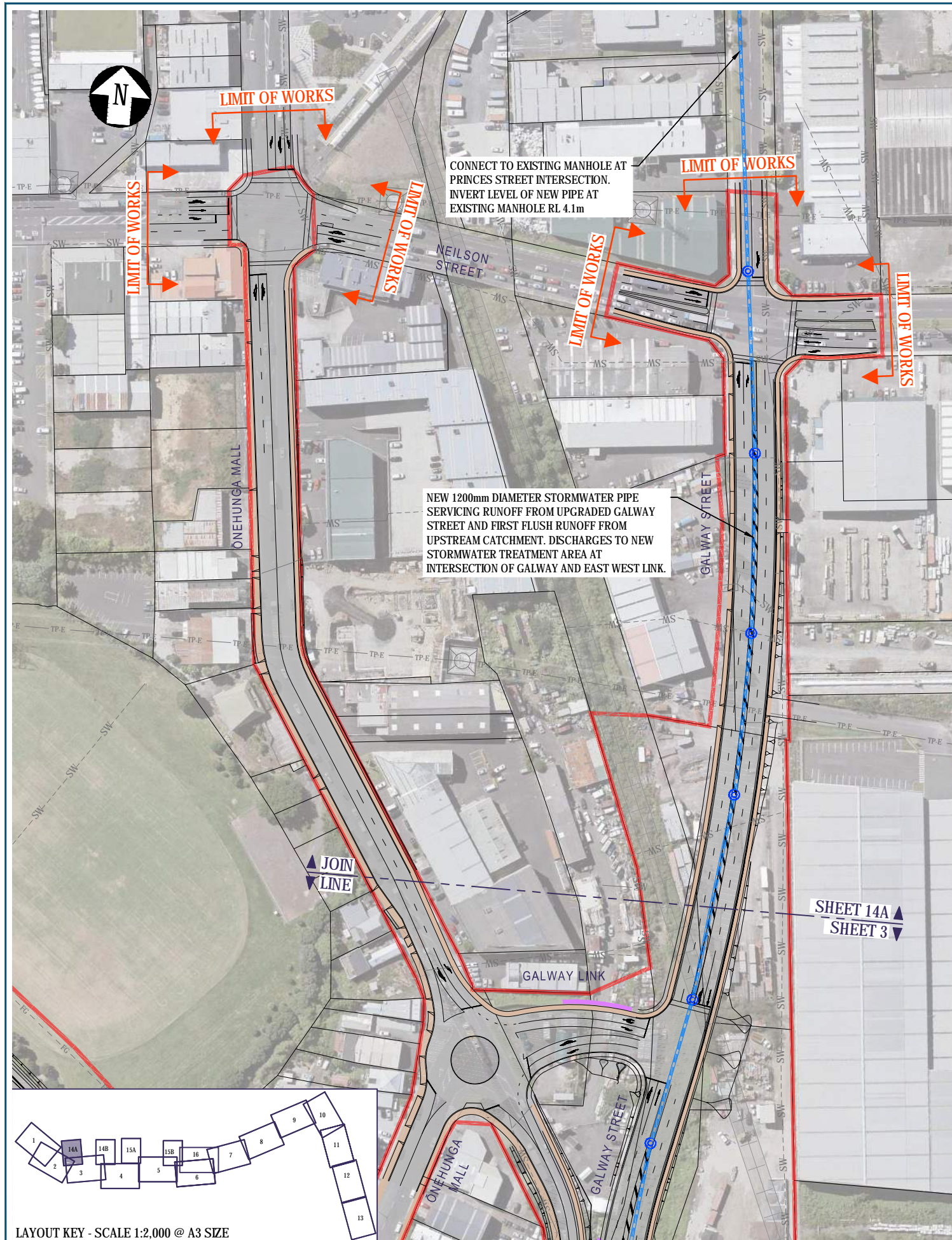


No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

**DISCLAIMER**  
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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed L BOLAM & T BLOUNT	Design Check D PAICE & T CAIN	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title <b>STORMWATER PRINCES STREET INTERCHANGE SHEET 13</b>	Drawing Number AEE-SW-113	Rev No. 0
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LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE

SHEET 14B  
SHEET 4  
SCALE 1:2,000 @ A3 SIZE

FOR CONSENT

0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016
No.	Issued Status	Drawn	Check'd	App'd	Date

**DISCLAIMER**  
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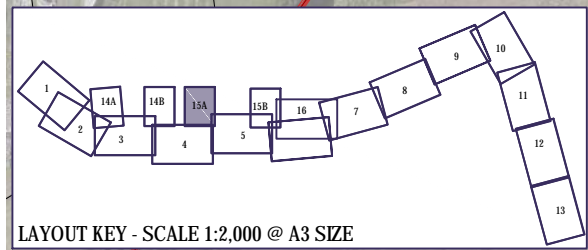


**East West Link**

Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed L BOLAM & T BLOUNT	Design Check D PAICE & T CAIN	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title <b>STORMWATER NEILSON STREET INTERCHANGE - LOCAL ROAD SHEET 14A AND 14B</b>	Drawing Number AEE-SW-114	Rev No. 0
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LAYOUT KEY - SCALE 1:2,000 @ A3 SIZE

0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	Design Manager	Approved	Alliance Manager
Designed	L BOLAM & T BLOUNT	Design Check	D PAICE & T CAIN		N NANCEKIVELL		P KELLY
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No.	PA4014		

Drawing Title:	STORMWATER CAPTAIN SPRINGS ROAD/ PORTS LINK SHEET 15A AND 15B		
Drawing Number:	AEE-SW-115	Rev No.:	0



0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016
No.	Issued Status	Drawn	Check'd	App'd	Date

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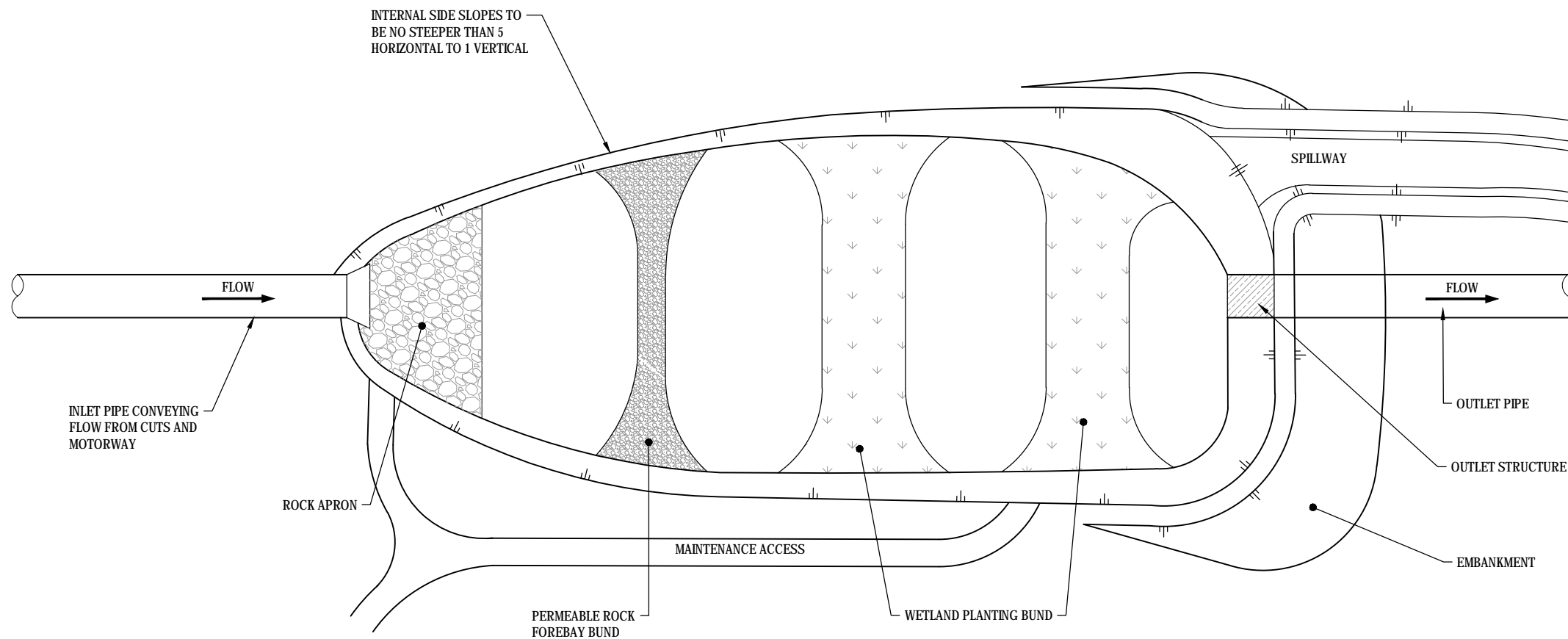
**NZ TRANSPORT AGENCY**  
WAKA KOTAHĪ



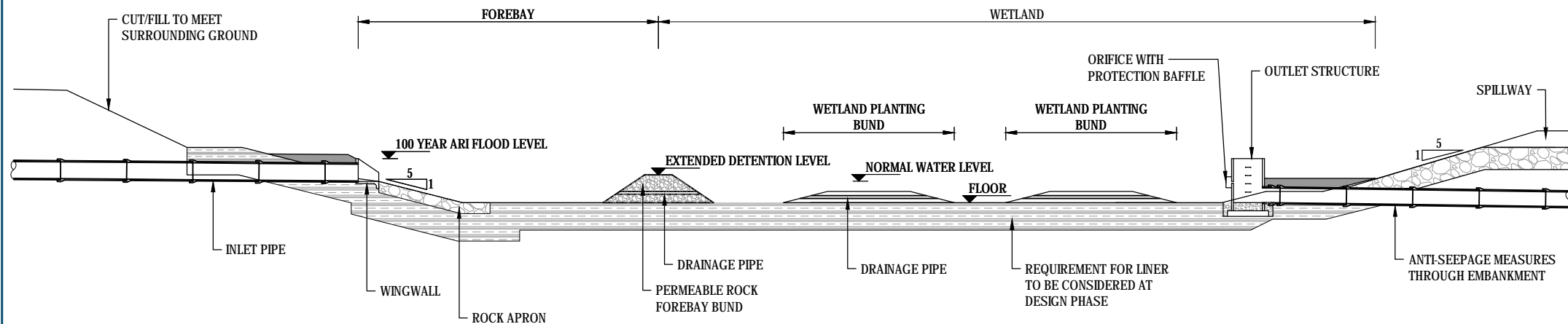
**East West Link**

Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed L BOLAM & T BLOUNT	Design Check D PAICE & T CAIN	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No PA4014

Drawing Title <b>STORMWATER EMBANKMENT SHEET 16</b>	Drawing Number AEE-SW-116	Rev No. 0
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**PLAN - TYPICAL WETLAND**  
NOT TO SCALE



**SECTION - TYPICAL WETLAND**  
NOT TO SCALE

FOR CONSENT

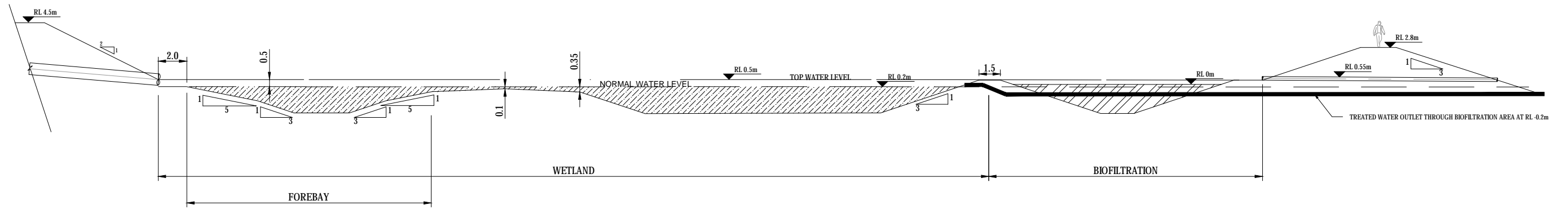
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016
No.	Issued Status	Drawn	Check'd	App'd	Date

**DISCLAIMER**  
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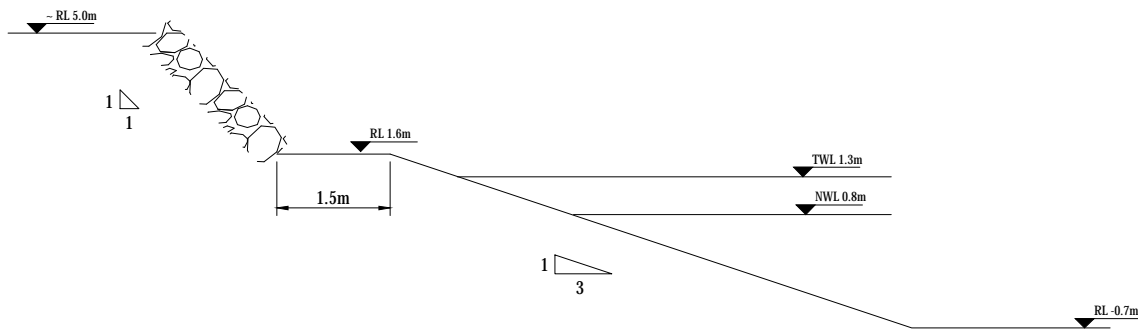
Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed	N NANCEKIVELL	Approved	P KELLY
Designed	L BOLAM & T BLOUNT	Design Check	D PAICE & T CAIN	Design Manager	1/12/16	Alliance Manager	1/12/16
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No		PA4014	

Drawing Title	STORMWATER TYPICAL WETLAND PLAN AND SECTION		
Drawing Number	AEE-SW-301		
Rev No.	0		



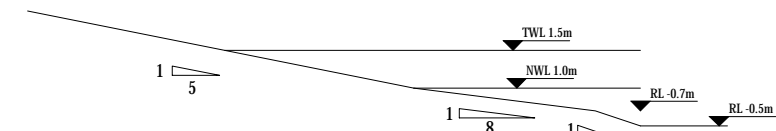
**EMBANKMENT WETLAND  
TYPICAL CROSS SECTION**

NTS



**TYPICAL EDGE BATTER**

NTS



**TYPICAL WETLAND EDGE PROFILE**

NTS

FOR CONSENT

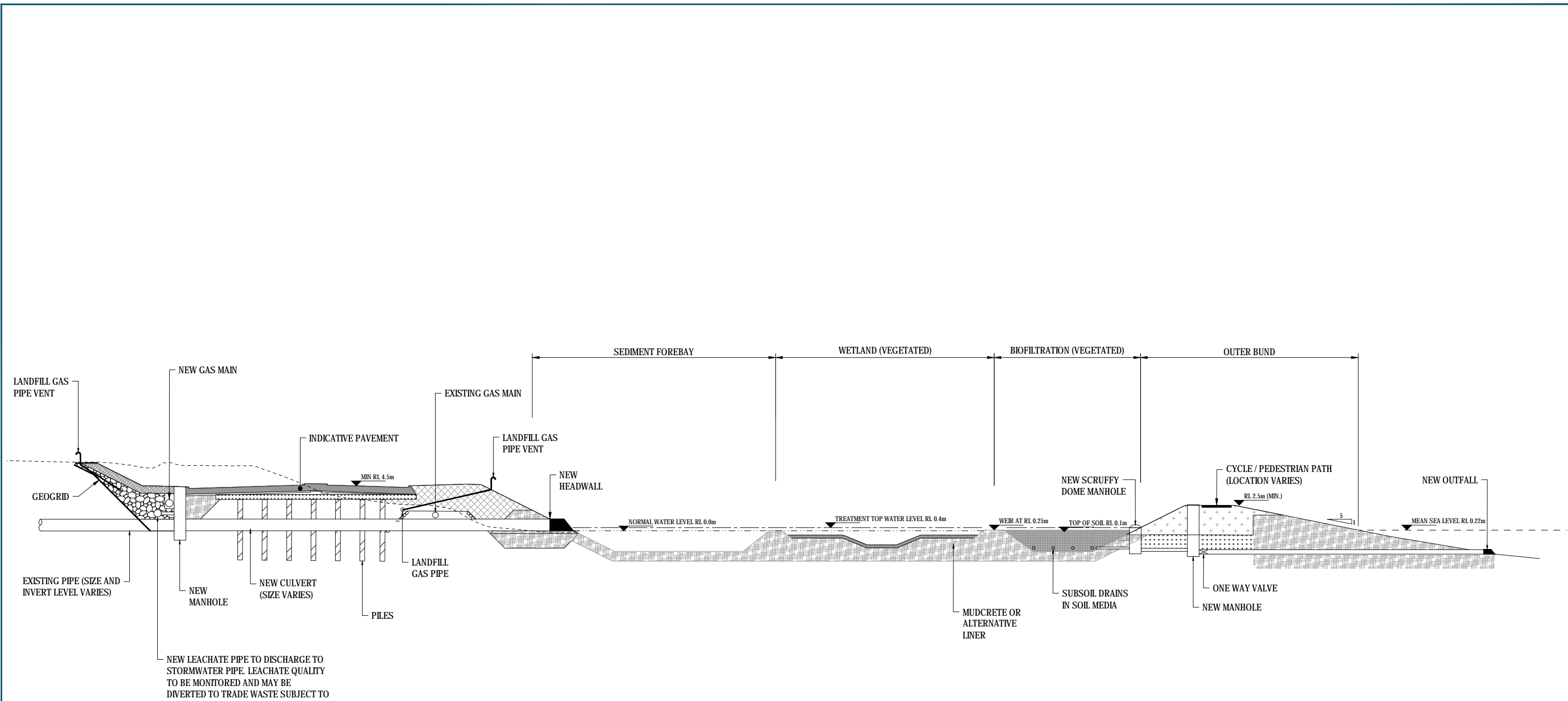
No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

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Drawn A RAM	Drafting Check J MURAHIDY	Reviewed Design Manager N NANCEKIVELL	Approved Alliance Manager P KELLY
Designed L BOLAM & T BLOUNT	Design Check D PAICE & T CAIN	1/12/16	1/12/16
Scale: Original Scale (A1)	Reduced Scale (A3)	Contract No <b>PA4014</b>	

Drawing Title <b>STORMWATER EMBANKMENT WETLAND TYPICAL CROSS SECTION - SHEET 1</b>	Drawing Number <b>AEE-SW-311</b>	Rev No. <b>0</b>
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**1 SECTION - TYPICAL FORESHORE TREATMENT AREA CROSS SECTION**  
 SW-312 NOT TO SCALE

**GENERAL NOTE.**  
 1. REFER TO GEOTECH DRAWINGS FOR MATERIAL TYPES

No.	Issued Status	Drawn	Check'd	App'd	Date
0	ISSUED FOR CONSENT	AR	NN*	PK*	01/12/2016

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Drawn	A RAM	Drafting Check	J MURAHIDY	Reviewed Design Manager	N NANCEKIVELL	Approved Alliance Manager	P KELLY
Designed	L BOLAM & T BLOUNT	Design Check	D PAICE & T CAIN		1/12/16		1/12/16
Scale:	Original Scale (A1)	Reduced Scale (A3)	AS SHOWN	Contract No.	PA4014		

Drawing Title	STORMWATER FORESHORE TREATMENT AREA TYPICAL SECTION			
Drawing Number	AEE-SW-312		Rev No.	0

FOR CONSENT