

LEGEND - EXISTING SERVICE	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE OH
	ORION U/G POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS

LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	EXISTING STOCKWATER RACE
	PROPOSED STOCKWATER RACE
	PROPOSED SOAK PIT LOCATION
	SOAKPIT OVERLAND FLOW

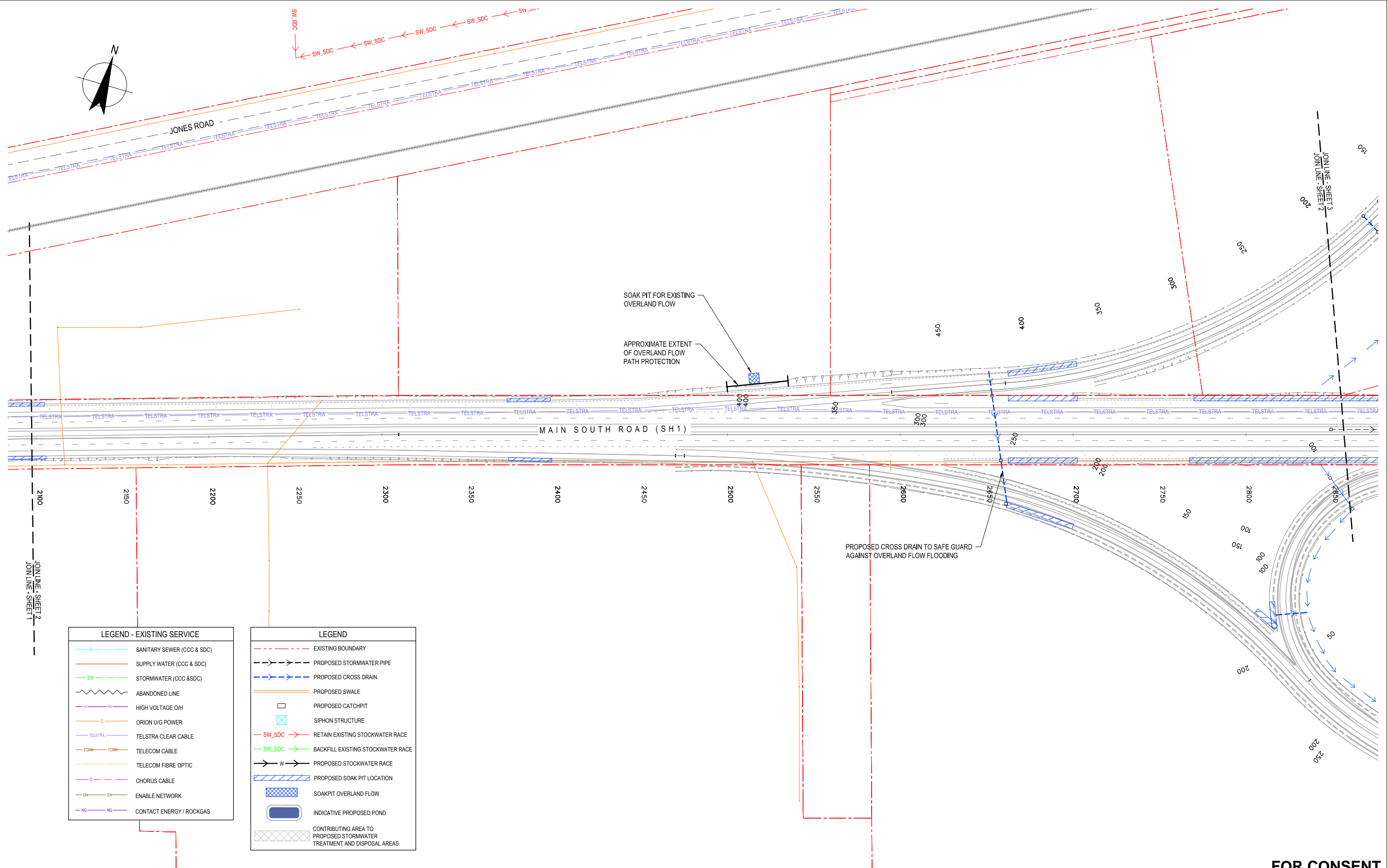
FOR CONSENT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	FOR CONSENT		ALP	DGA	GAP	16.10.12
B	FINAL SCHEME ASSESSMENT		ALP	DGA	CMG	10.05.12
A	FOR INFORMATION		AR/AW	TP	DGA	17.10.11



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Drawn AMW	Designed TP
Drafting Check NJD	Design Check TM
Approved CMG	
Date 10.05.12	
A1 Scale	This Drawing must not be used for Construction unless signed as Approved
A3 Scale 1:2000 (A3)	

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350 3.92 RP365 2.11
Title	MAIN SOUTH ROAD FOUR LANE DRAINAGE LAYOUT PLAN - SHEET 1
Drawing No:	62236-A-C401
Rev:	0



LEGEND - EXISTING SERVICE

—S—	SANITARY SEWER (CCC & SDC)
—SW—	SUPPLY WATER (CCC & SDC)
—SW—	STORMWATER (CCC & SDC)
~~~~~	ABANDONED LINE
—HV—	HIGH VOLTAGE O/H
—E—	ORION U/G POWER
—TELSTRA—	TELSTRA CLEAR CABLE
—TCOM—	TELECOM CABLE
—FO—	TELECOM FIBRE OPTIC
—C—	CHORUS CABLE
—EN—	ENABLE NETWORK
—NG—	CONTACT ENERGY / ROCKGAS

**LEGEND**

---	EXISTING BOUNDARY
---	PROPOSED STORMWATER PIPE
---	PROPOSED CROSS DRAIN
---	PROPOSED SWALE
□	PROPOSED CATCHPIT
□	SIPHON STRUCTURE
—SW_SDC—	RETAIN EXISTING STOCKWATER RACE
—SW_SDC—	BACKFILL EXISTING STOCKWATER RACE
—W—	PROPOSED STOCKWATER RACE
▨	PROPOSED SOAK PIT LOCATION
▨	SOAKPIT OVERLAND FLOW
▨	INDICATIVE PROPOSED POND
▨	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS

**FOR CONSENT**

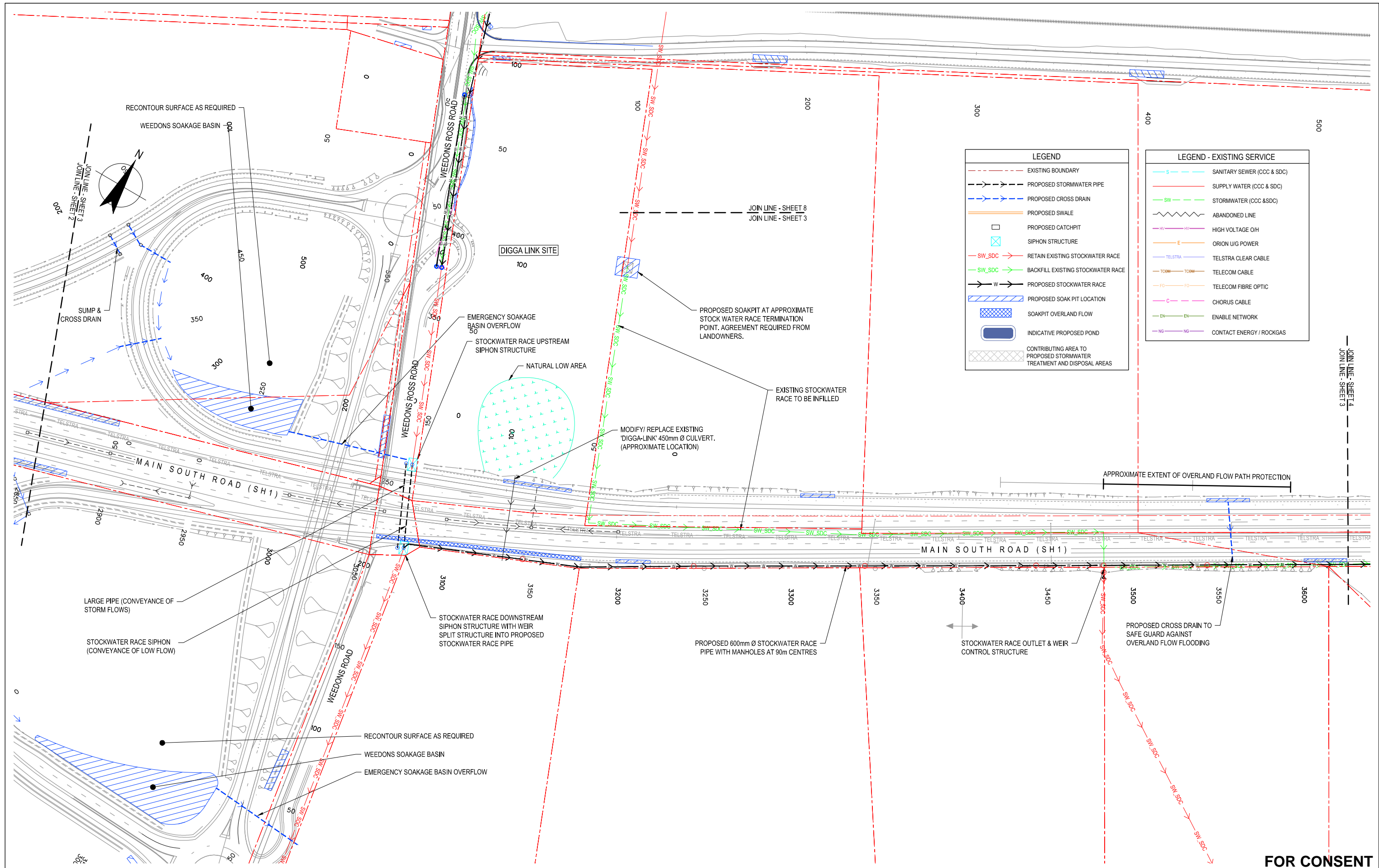
1	FOR EVIDENCE IN CHIEF	JAL	TP/DGA	GAP	18.04.13	
0	FOR CONSENT	ALP	DGA	GAP	16.10.12	
B	FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12	
A	FOR INFORMATION	AR/AW	TP	DGA	20.10.11	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



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Drawn	AMW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale			
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350 3.92 RP365 2.11</b>
Title	<b>MAIN SOUTH ROAD FOUR LANING DRAINAGE LAYOUT PLAN - SHEET 2</b>
Drawing No:	<b>62236-A-C402</b>
Rev:	<b>1</b>



LEGEND		LEGEND - EXISTING SERVICE	
	EXISTING BOUNDARY		SANITARY SEWER (CCC & SDC)
	PROPOSED STORMWATER PIPE		SUPPLY WATER (CCC & SDC)
	PROPOSED CROSS DRAIN		STORMWATER (CCC & SDC)
	PROPOSED SWALE		ABANDONED LINE
	PROPOSED CATCHPIT		HIGH VOLTAGE O/H
	SIPHON STRUCTURE		ORION U/G POWER
	RETAIN EXISTING STOCKWATER RACE		TELSTRA CLEAR CABLE
	BACKFILL EXISTING STOCKWATER RACE		TELECOM CABLE
	PROPOSED STOCKWATER RACE		TELECOM FIBRE OPTIC
	PROPOSED SOAK PIT LOCATION		CHORUS CABLE
	SOAKPIT OVERLAND FLOW		ENABLE NETWORK
	INDICATIVE PROPOSED POND		CONTACT ENERGY / ROCKGAS
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS		

**FOR CONSENT**

No	Revision	Note	Drawn	Checked	Approved	Date
1		FOR EVIDENCE IN CHIEF	JAL	TP/DGA	GAP	18.04.13
0		FOR CONSENT	ALP	DGA	GAP	16.10.12
B		UNDER REVISION	ALP	DGA	CMG	10.05.12
A		FOR INFORMATION	AR/AW	TP	DGA	20.10.11

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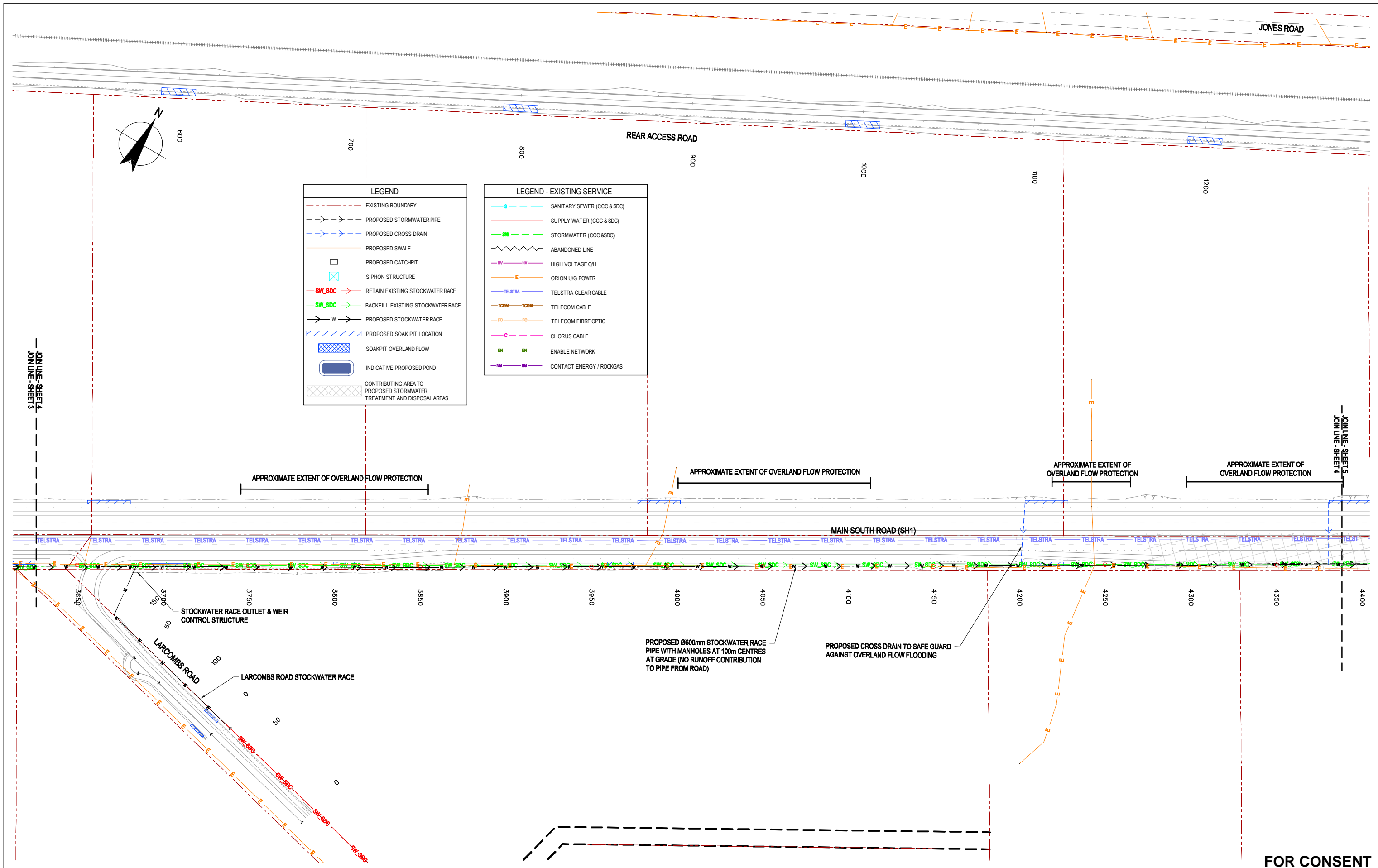
Drawn AMW  
Designed TP  
Drafting Check NJD  
Design Check TM  
Approved CMG  
Date 10.05.12  
A1 Scale  
A3 Scale 1:2000

Client **NEW ZEALAND TRANSPORT AGENCY**  
Project **SH1 REGION 11 RP350 3.92 RP365 2.11**  
Title **MAIN SOUTH ROAD FOUR LANING DRAINAGE LAYOUT PLAN - SHEET 3**  
Drawing No: **62236-A-C403**  
Rev: **1**

NZ TRANSPORT AGENCY  
WAKA KOTAHĪ

GHD

Beca



0	FOR CONSENT	ALP	DGA	GAP	16.10.12	
B	FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12	
A	FOR INFORMATION	AR/AW	TP	DGA	20.10.11	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date

**NZ TRANSPORT AGENCY**  
WAKA KOTAHĪ

**Beca**

**DO NOT SCALE**

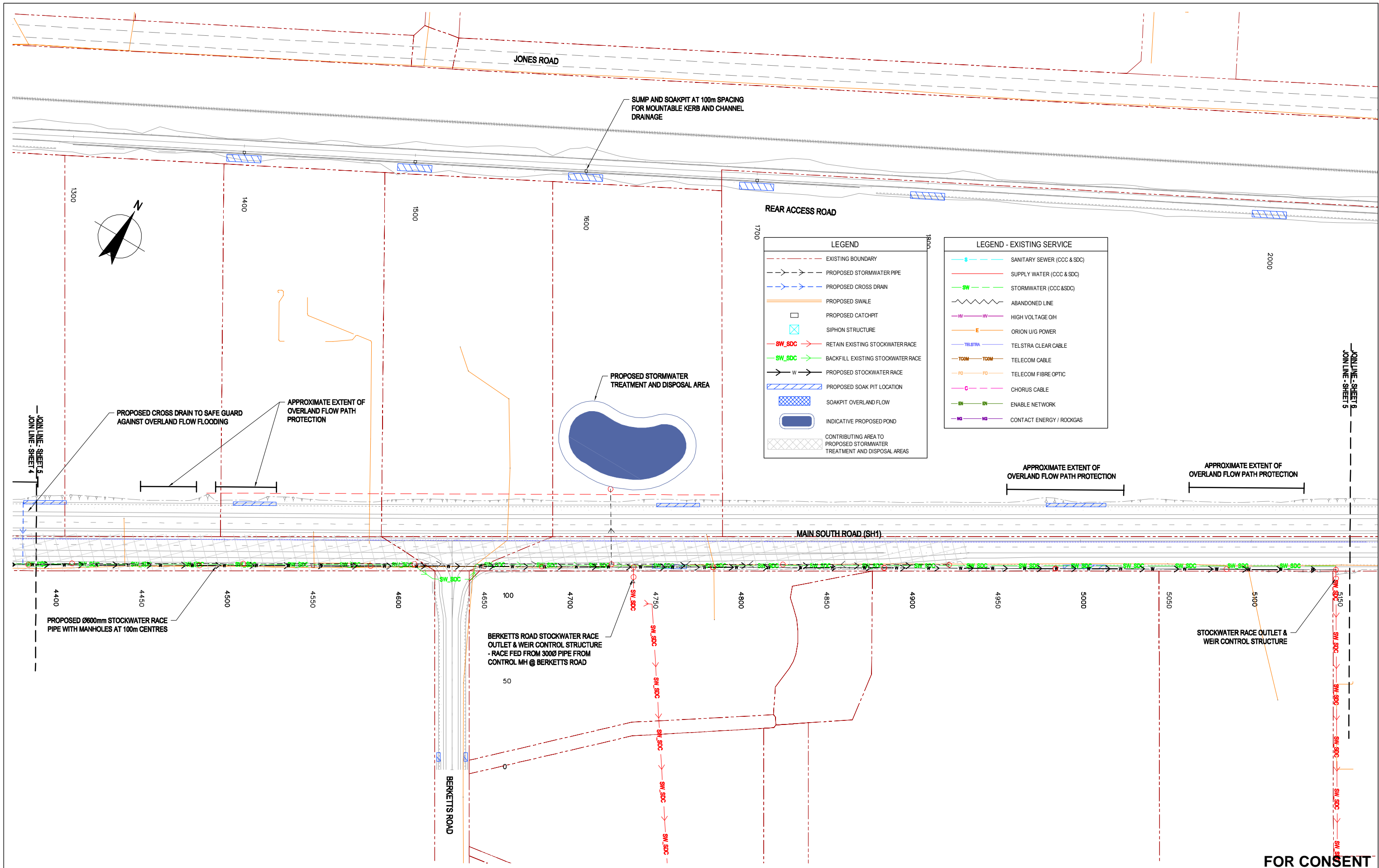
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Drawn	AMW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale			
A3 Scale	1:2000		

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350 3.92 RP365 2.11
Title	MAIN SOUTH ROAD FOUR LANING DRAINAGE LAYOUT PLAN - SHEET 4
Drawing No:	62236-A-C404
Rev:	0

This Drawing must not be used for Construction unless signed as Approved



FOR CONSENT

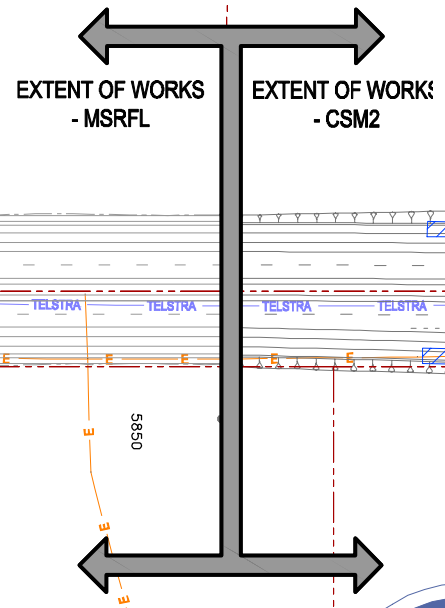
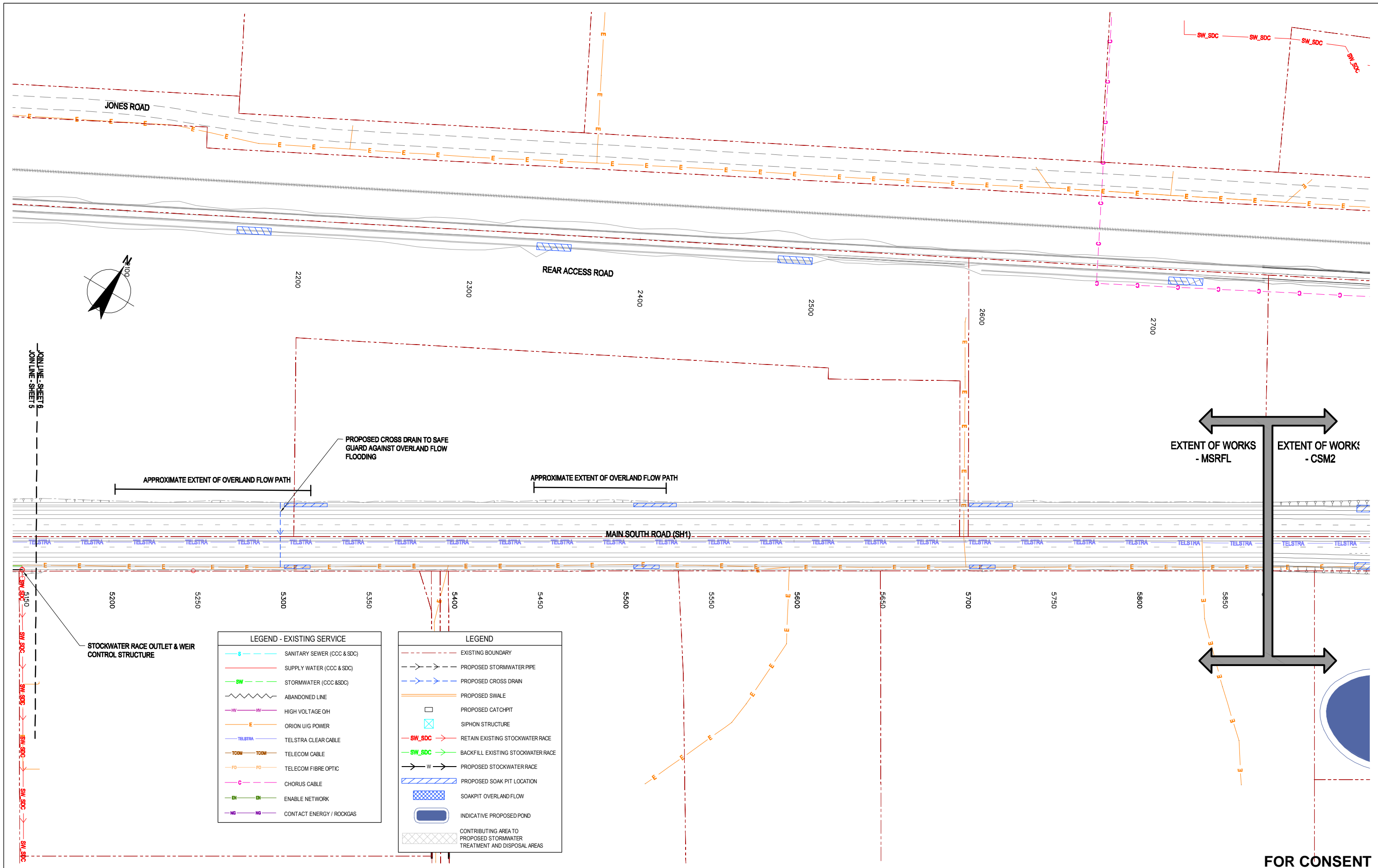
0	FOR CONSENT	ALP	DGA	GAP	16.10.12	
B	FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12	
A	FOR INFORMATION	AMW	TP	DGA	20.10.11	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



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Drawn	AMW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale		This Drawing must not be used for Construction unless signed as Approved	
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350 3.92 RP365 2.11</b>
Title	<b>MAIN SOUTH ROAD FOUR LANING DRAINAGE LAYOUT PLAN - SHEET 5</b>
Drawing No:	<b>62236-A-C405</b>
Rev:	<b>0</b>



LEGEND - EXISTING SERVICE			
	SANITARY SEWER (CCC & SDC)		
	SUPPLY WATER (CCC & SDC)		
	STORMWATER (CCC & SDC)		
	ABANDONED LINE		
	HIGH VOLTAGE OH		
	ORION U/G POWER		
	TELSTRA CLEAR CABLE		
	TELECOM CABLE		
	TELECOM FIBRE OPTIC		
	CHORUS CABLE		
	ENABLE NETWORK		
	CONTACT ENERGY / ROCKGAS		

LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	RETAIN EXISTING STOCKWATER RACE
	BACKFILL EXISTING STOCKWATER RACE
	PROPOSED STOCKWATER RACE
	PROPOSED SOAK PIT LOCATION
	SOAKPIT OVERLAND FLOW
	INDICATIVE PROPOSED POND
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS

FOR CONSENT

0	FOR CONSENT	ALP	DGA	GAP	16.10.12	
B	FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12	
A	FOR INFORMATION	AMW	DGA	CG	20.10.11	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



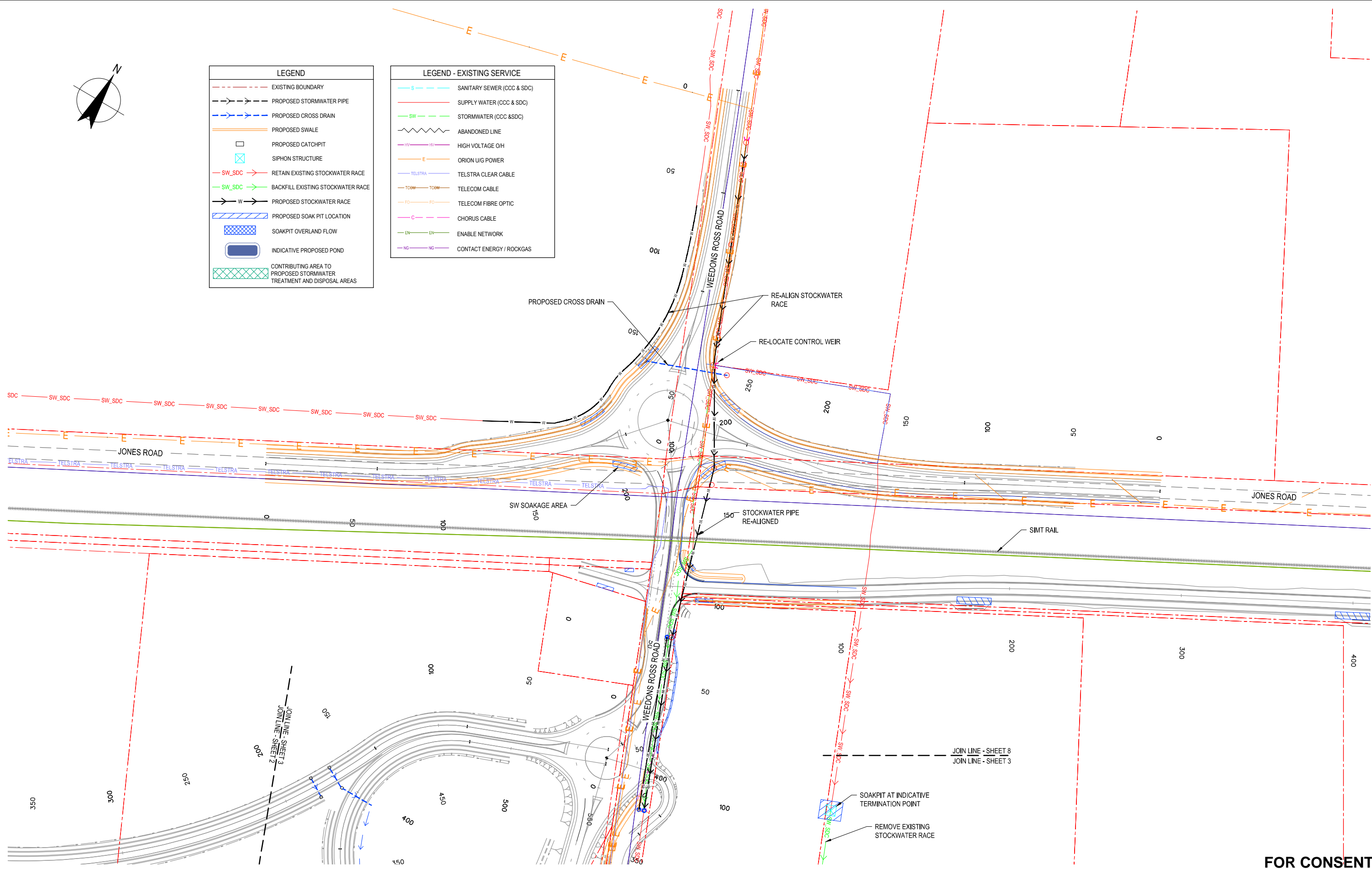
<b>DO NOT SCALE</b>	Drawn AMW	Designed TP
<small>This drawing has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by these companies or any employee or sub-consultant of these companies with respect to its use by any other person. This disclaimer shall apply notwithstanding that the drawing may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.</small>	Drafting Check NJD	Design Check TM
	Approved CMG	
	Date 10.05.12	
	A1 Scale A3 Scale 1:2000 (A3)	This Drawing must not be used for Construction unless signed as Approved

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350 3.92 RP365 2.11</b>
Title	<b>MAIN SOUTH ROAD FOUR LANING DRAINAGE LAYOUT PLAN - SHEET 6</b>
Drawing No:	<b>62236-A-C406</b>
Rev:	<b>0</b>



LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	RETAIN EXISTING STOCKWATER RACE
	BACKFILL EXISTING STOCKWATER RACE
	PROPOSED STOCKWATER RACE
	PROPOSED SOAK PIT LOCATION
	SOAKPIT OVERLAND FLOW
	INDICATIVE PROPOSED POND
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS

LEGEND - EXISTING SERVICE	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE OIH
	ORION U/G POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS



**FOR CONSENT**

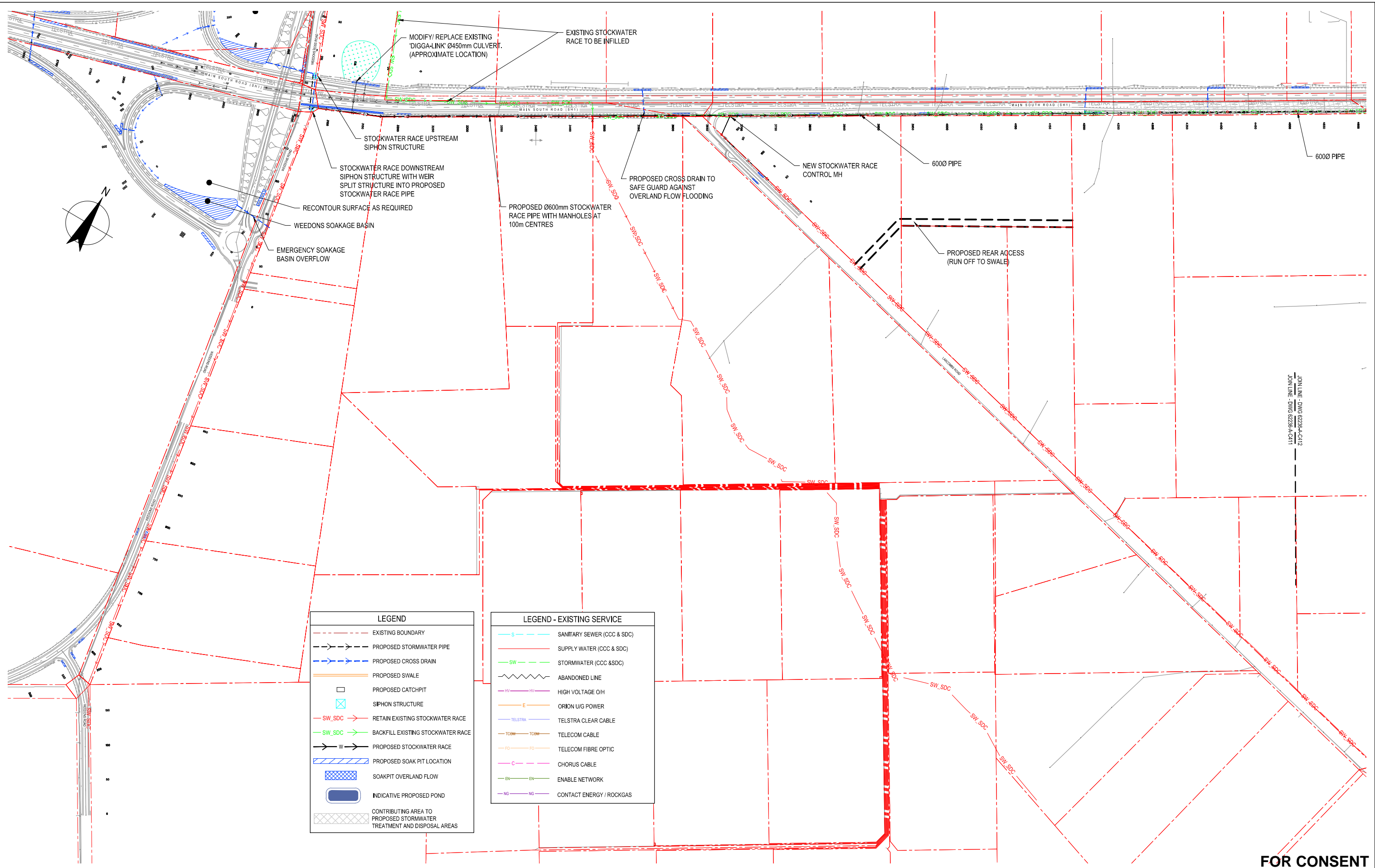
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
1	FOR EVIDENCE IN CHIEF		JAL	TP/DGA	GAP	18.04.13
0	FOR CONSENT		DX	DGA	GAP	16.10.11



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Drawn	DX	Designed	TP
Drafting	TM	Design	TM
Check		Check	
Approved	GAP		
Date	16.10.12		
A1 Scale			
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350 3.92 RP365 2.11</b>
Title	<b>MAIN SOUTH ROAD FOUR LANING I&amp;R PHASE DRAINAGE LAYOUT PLAN - SHEET 8</b>
Drawing No:	<b>62236-A-C408</b>
Rev:	<b>1</b>



LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	RETAIN EXISTING STOCKWATER RACE
	BACKFILL EXISTING STOCKWATER RACE
	PROPOSED STOCKWATER RACE
	PROPOSED SOAK PIT LOCATION
	SOAKPIT OVERLAND FLOW
	INDICATIVE PROPOSED POND
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS

LEGEND - EXISTING SERVICE	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE O/H
	ORION U/G POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS

**FOR CONSENT**

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
1	FOR EVIDENCE IN CHIEF		JAL	TP/DGA	GAP	18.04.13
0	FOR CONSENT		ALP	DGA	GAP	16.10.12

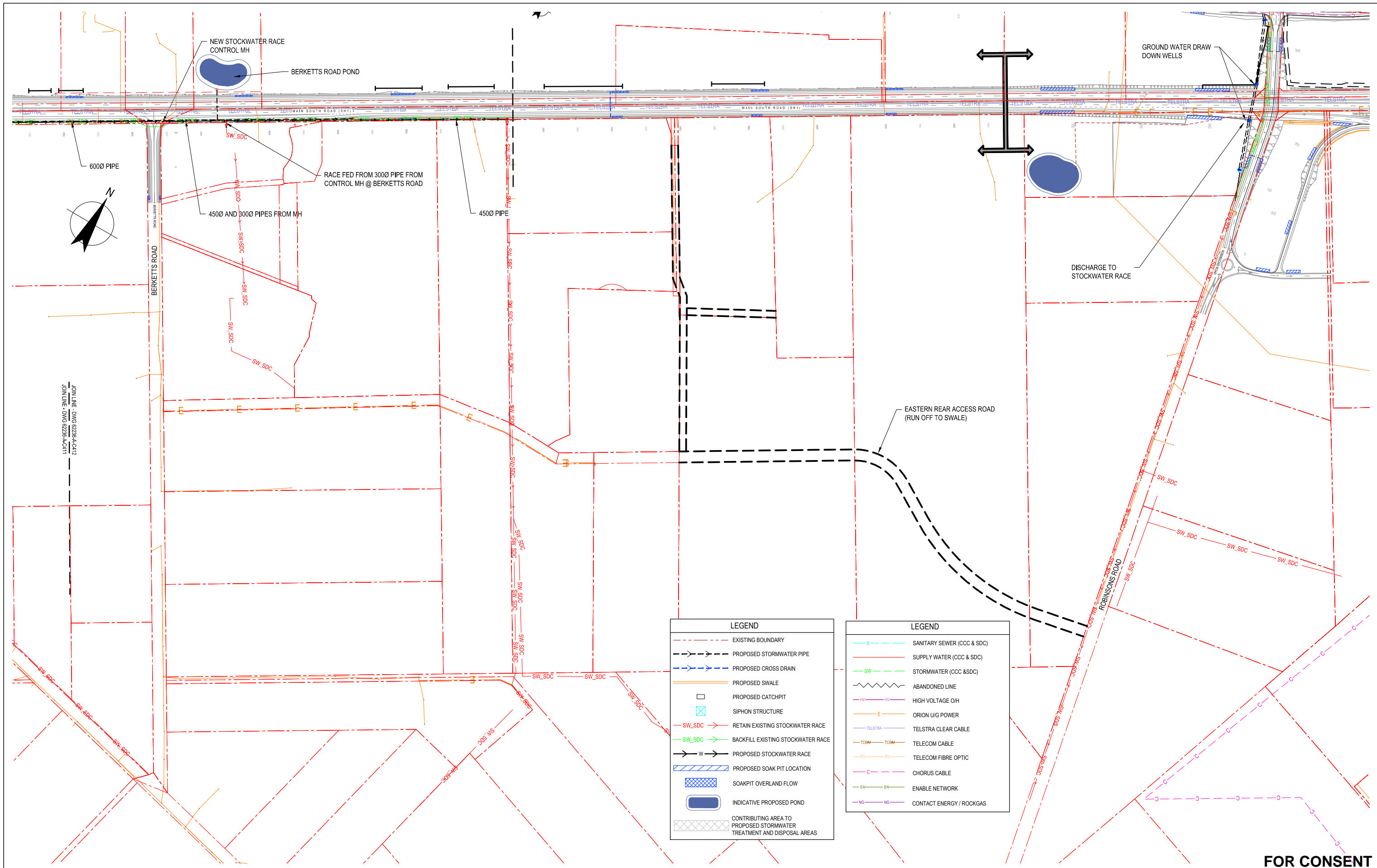


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Drawn	DX	Designed	TP
Drafting Check	TM	Design Check	TM
Approved	GAP		
Date	16.10.12		
A1 Scale		This Drawing must not be used for Construction unless signed as Approved	
A3 Scale	1:5000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350 3.92 RP365 2.11</b>
Title	<b>MAIN SOUTH ROAD FOUR LANEING DRAINAGE LAYOUT PLAN - ADDITIONAL SHT 1 OF 2</b>
Drawing No:	<b>62236-A-C411</b>
Rev:	<b>1</b>





JOINLINE - DWG 62236-A-C412  
 JOINLINE - DWG 62236-A-C411

LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	RETAIN EXISTING STOCKWATER RACE
	BACKFILL EXISTING STOCKWATER RACE
	PROPOSED STOCKWATER RACE
	PROPOSED SOAK PIT LOCATION
	SOAKPIT OVERLAND FLOW
	INDICATIVE PROPOSED POND
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS

LEGEND	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE O/H
	ORION U/G POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS

**FOR CONSENT**

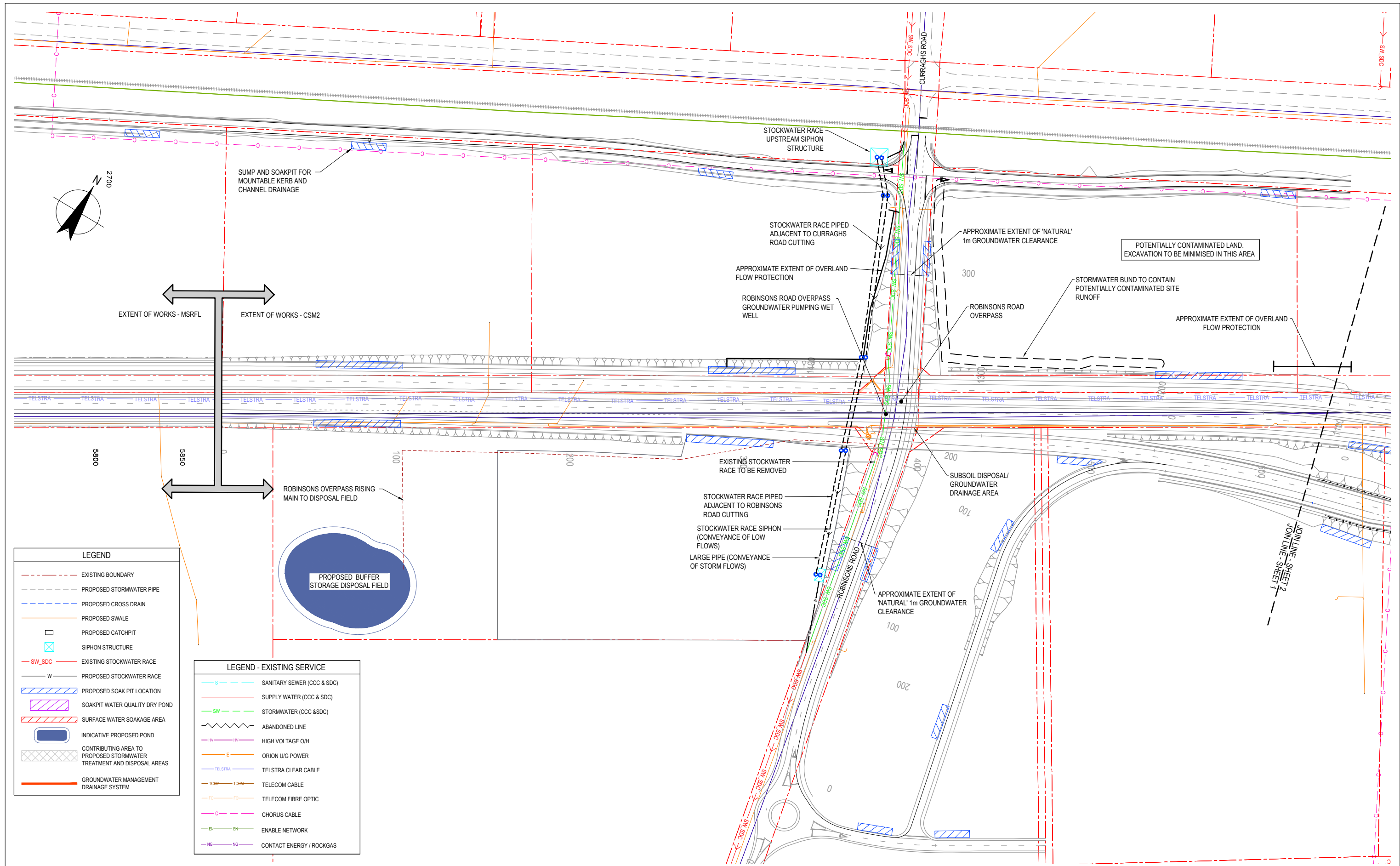
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
2	FOR REBUTTAL EVIDENCE		JAL	DGA	GAP	21.05.13
1	FOR EVIDENCE IN CHIEF		JAL	TP/DGA	GAP	18.04.13
0	FOR CONSENT		ALP	DGA	GAP	16.10.12



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Drawn	JAL	Designed	TP
Drafting	JR	Design	DGA
Check		Check	
Approved	GAP		
Date	21.05.13		
A1 Scale			
A3 Scale	1:5000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>		
Project	<b>SH1 REGION 11 RP350 3.92 RP365 2.11</b>		
	<b>MAIN SOUTH ROAD FOUR LANING</b>		
Title	<b>DRAINAGE LAYOUT PLAN - ADDITIONAL SHT 2 OF 2</b>		
Drawing No:	<b>62236-A-C412</b>		Rev: <b>2</b>



LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	EXISTING STOCKWATER RACE
	PROPOSED STOCKWATER RACE
	PROPOSED SOAK PIT LOCATION
	SOAKPIT WATER QUALITY DRY POND
	SURFACE WATER SOAKAGE AREA
	INDICATIVE PROPOSED POND
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS
	GROUNDWATER MANAGEMENT DRAINAGE SYSTEM

LEGEND - EXISTING SERVICE	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE O/H
	ORION U/G POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS

**FOR CONSENT**

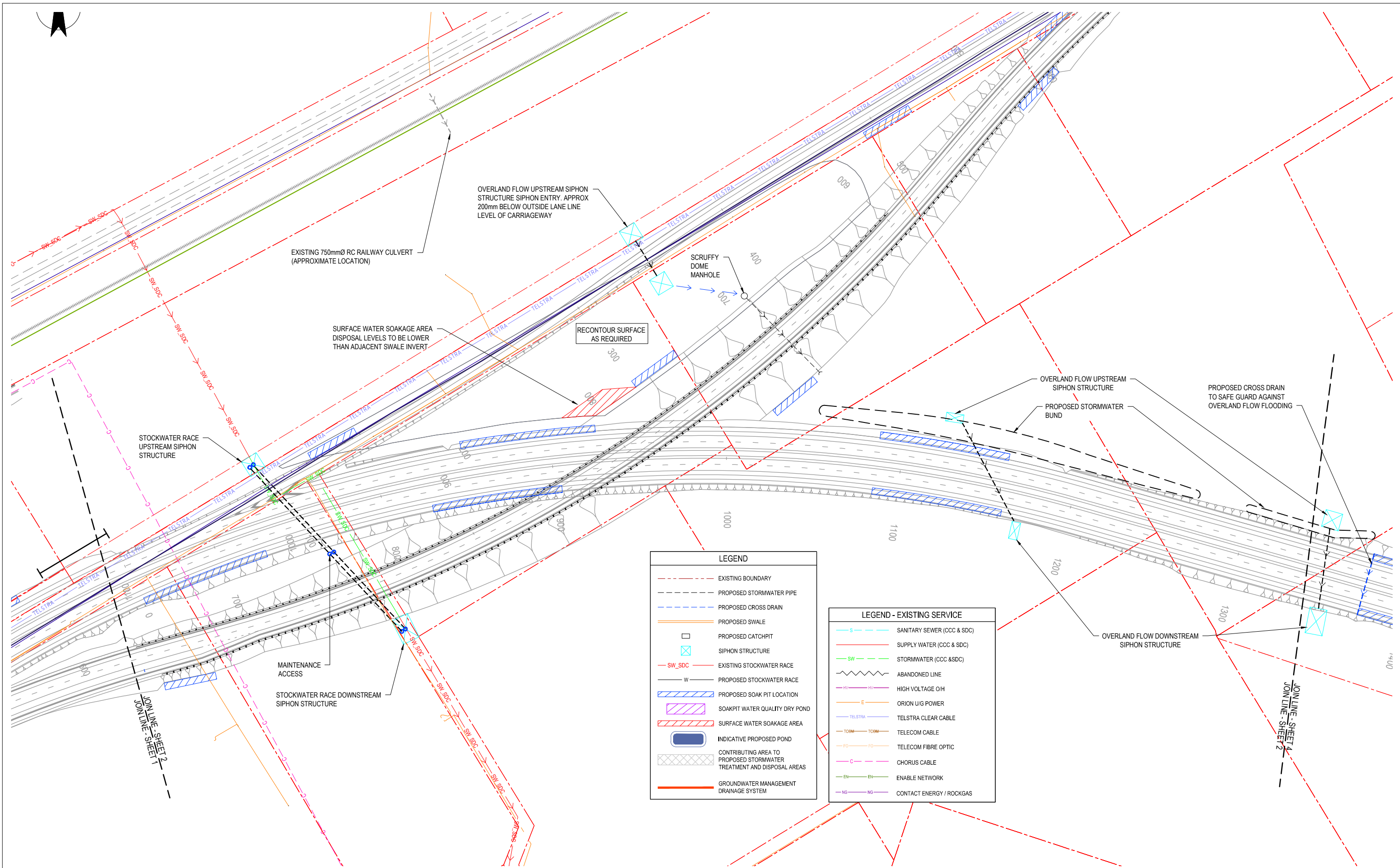
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1	FOR EVIDENCE IN CHIEF		JAL	TP/DGA	GAP	18.04.13
0	FOR CONSENT		ALP	DGA	GAP	16.10.12
B	FINAL SCHEME ASSESSMENT		ALP	DGA	CMG	10.05.12
A	FOR INFORMATION		AW	TP	DGA	20.10.11



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Drawn	AW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale			
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11 CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 1 OF 17</b>
Title	<b>Drawing No: 62236-B-C401</b>
Rev:	<b>1</b>



**LEGEND**

- - - - - EXISTING BOUNDARY
- - - - - PROPOSED STORMWATER PIPE
- · · · · PROPOSED CROSS DRAIN
- — — — PROPOSED SWALE
- PROPOSED CATCHPIT
- ⊠ SIPHON STRUCTURE
- SW_SDC - EXISTING STOCKWATER RACE
- W - PROPOSED STOCKWATER RACE
- ▨ PROPOSED SOAK PIT LOCATION
- ▨ SOAKPIT WATER QUALITY DRY POND
- ▨ SURFACE WATER SOAKAGE AREA
- ▭ INDICATIVE PROPOSED POND
- ▨ CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS
- ▨ GROUNDWATER MANAGEMENT DRAINAGE SYSTEM

**LEGEND - EXISTING SERVICE**

- S - SANITARY SEWER (CCC & SDC)
- SW - SUPPLY WATER (CCC & SDC)
- SW - STORMWATER (CCC & SDC)
- - - - - ABANDONED LINE
- HV - HIGH VOLTAGE O/H
- E - ORION U/G POWER
- TELSTRA - TELSTRA CLEAR CABLE
- TCOM - TELECOM CABLE
- FO - TELECOM FIBRE OPTIC
- C - CHORUS CABLE
- EN - ENABLE NETWORK
- NG - CONTACT ENERGY / ROCKGAS

**FOR CONSENT**

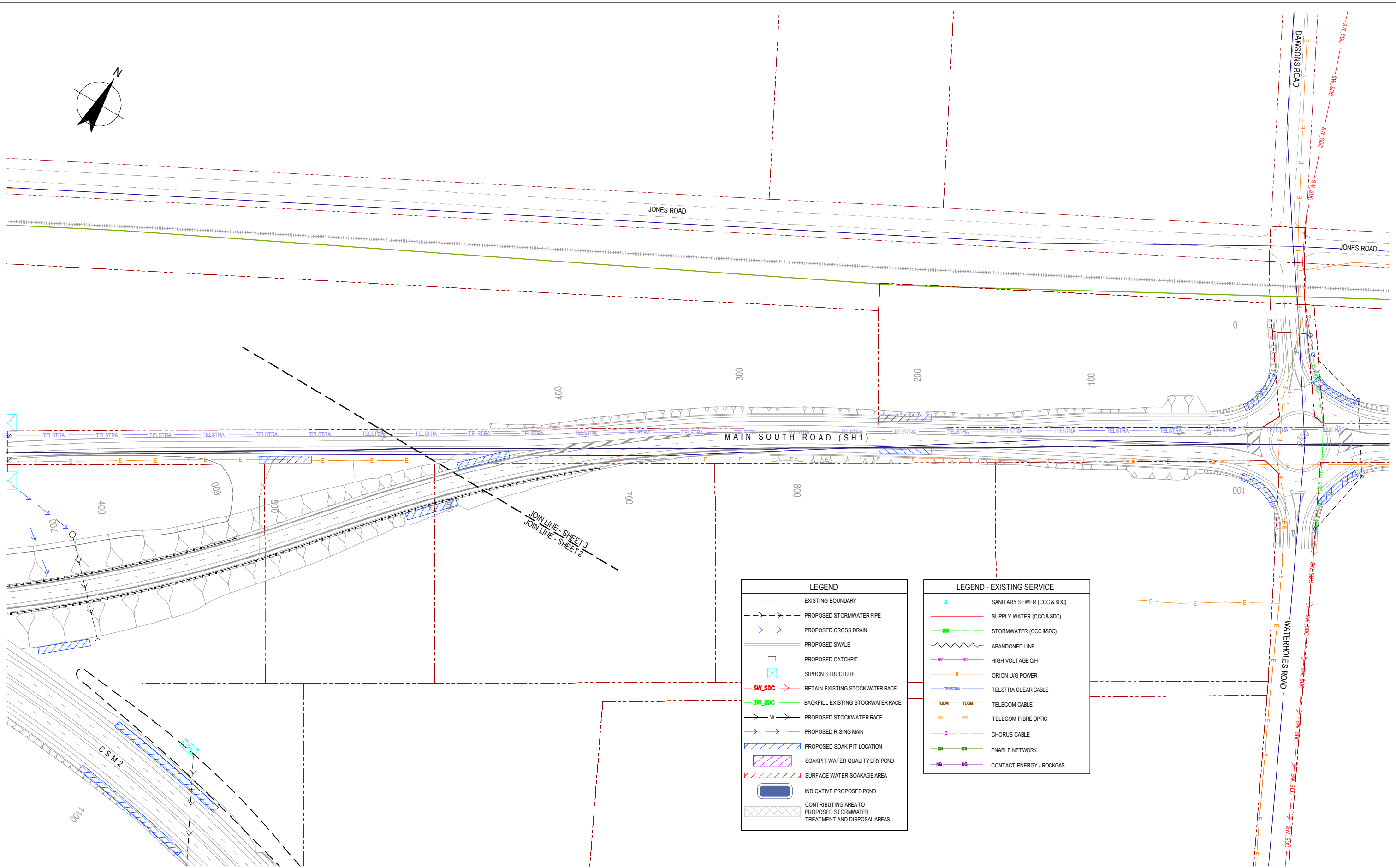
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0	FOR CONSENT	ALP	DGA	GAP	16.10.12	
B	FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12	
A	FOR INFORMATION	AW	TP	DGA	20.10.11	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



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Drawn	AW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale			
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11 CHRISTCHURCH SOUTHERN MOTORWAY 2</b>
Title	<b>DRAINAGE LAYOUT PLAN - 2 OF 17</b>
Drawing No:	<b>62236-B-C402</b>
Rev:	<b>1</b>



LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	RETAIN EXISTING STOCKWATER RACE
	BACKFILL EXISTING STOCKWATER RACE
	PROPOSED STOCKWATER RACE
	PROPOSED RISING MAIN
	PROPOSED SOAK PIT LOCATION
	SOAKPIT WATER QUALITY DRY POND
	SURFACE WATER SOAKAGE AREA
	INDICATIVE PROPOSED POND
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS

LEGEND - EXISTING SERVICE	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE OH
	ORION U/G POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS

**FOR CONSENT**

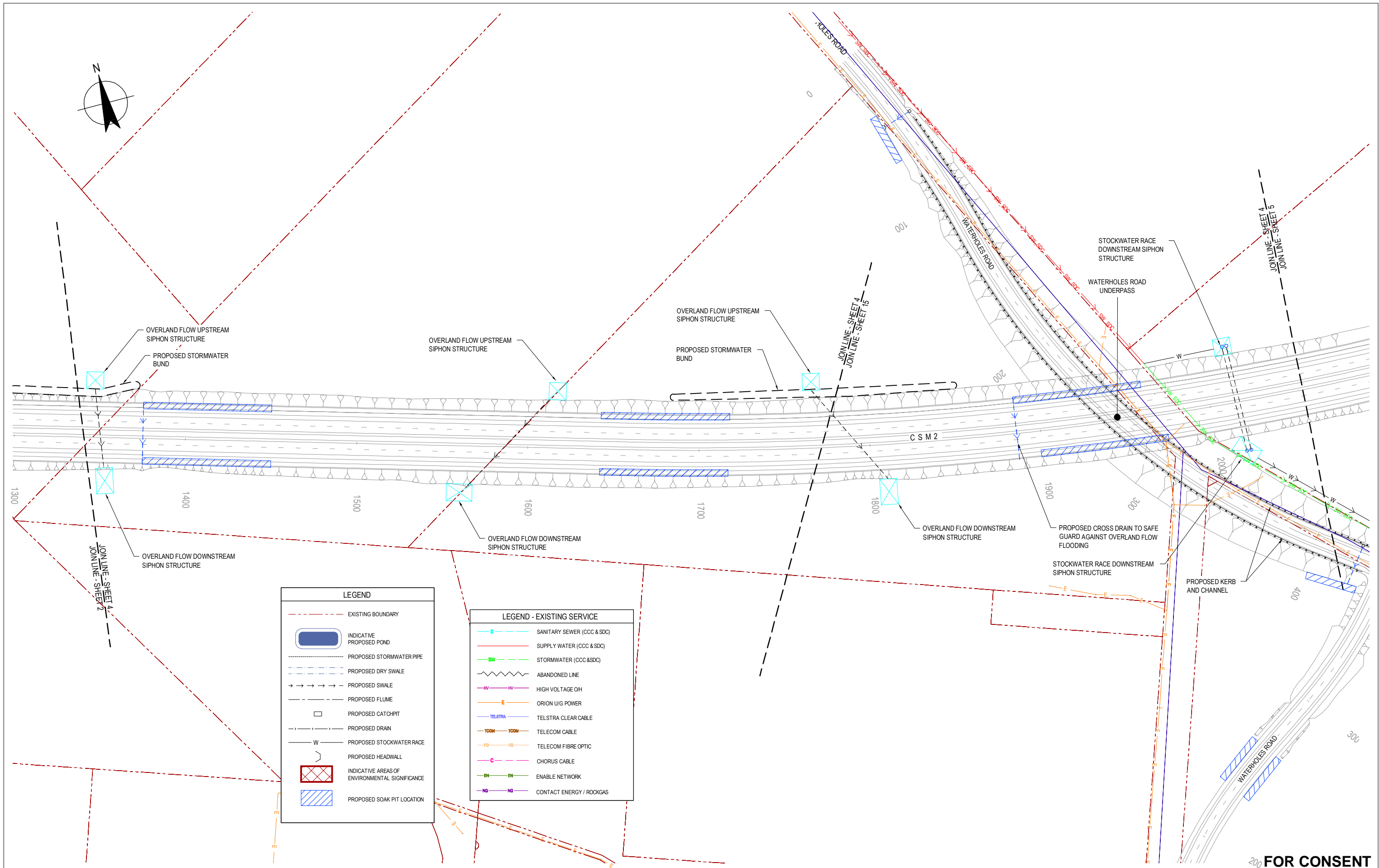
No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		ALP	DGA	GAP	16.10.12
B	FINAL SCHEME ASSESSMENT		ALP	DGA	CMG	10.05.12
A	FOR INFORMATION		AW	TP	DGA	20.10.11



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Drawn	AW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale			
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11 CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 3 OF 17</b>
Title	<b>Drawing No: 62236-B-C403</b>
Rev:	<b>0</b>



LEGEND	
	EXISTING BOUNDARY
	INDICATIVE PROPOSED POND
	PROPOSED STORMWATER PIPE
	PROPOSED DRY SWALE
	PROPOSED SWALE
	PROPOSED FLUME
	PROPOSED CATCHPIT
	PROPOSED DRAIN
	PROPOSED STOCKWATER RACE
	PROPOSED HEADWALL
	INDICATIVE AREAS OF ENVIRONMENTAL SIGNIFICANCE
	PROPOSED SOAK PIT LOCATION

LEGEND - EXISTING SERVICE	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE OH
	ORION U/G POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS

FOR CONSENT

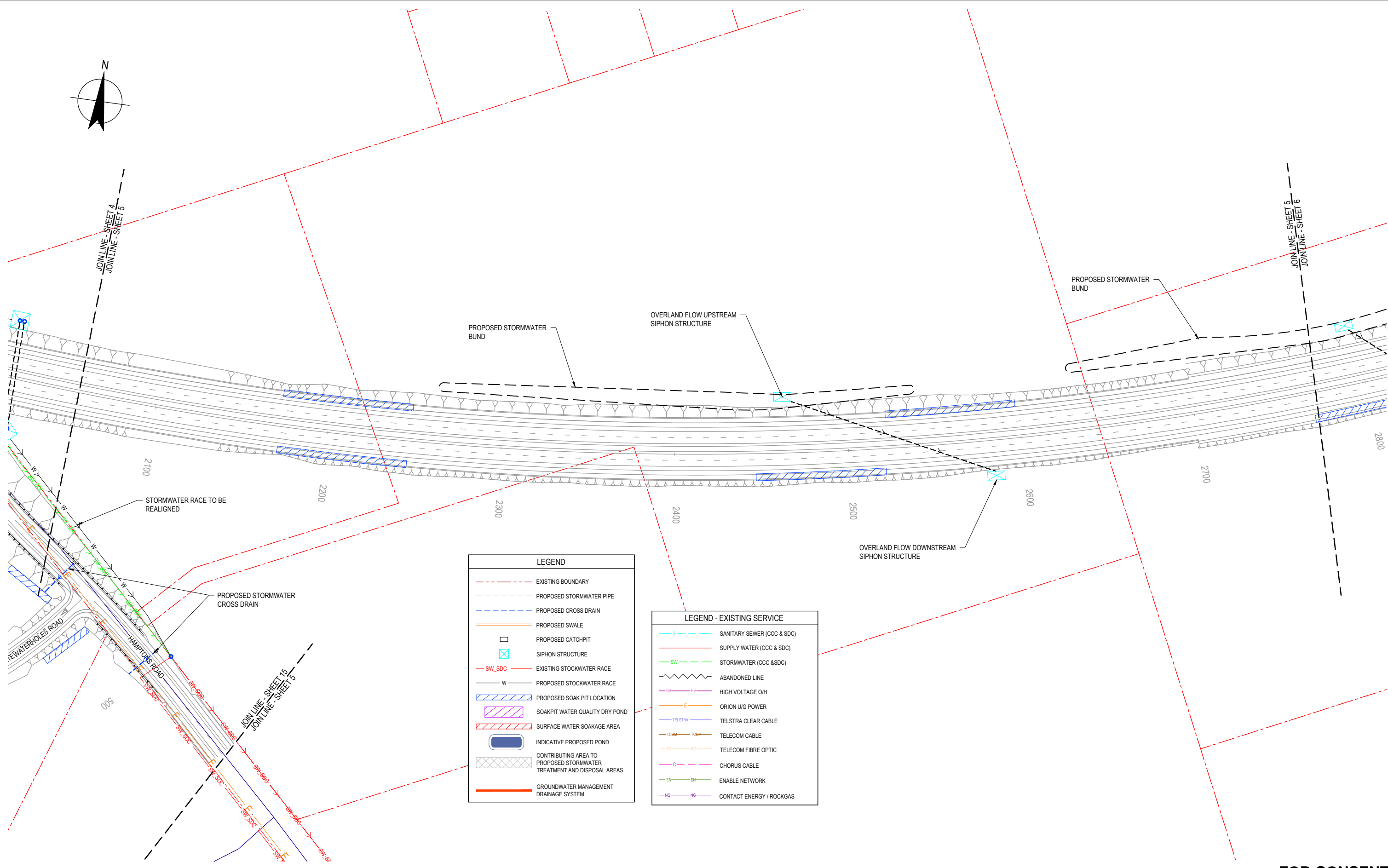
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0	FOR CONSENT		ALP	DGA	GAP	16.10.12
B	FINAL SCHEME ASSESSMENT		ALP	DGA	CMG	10.05.12
A	FOR INFORMATION		AW	TP	DGA	20.10.11



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Drawn	AW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	GARY PAYNE		
Date	29.08.12		
A1 Scale	This Drawing must not be used for Construction unless signed as Approved		
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11 CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 4 OF 17</b>
Title	<b>Drawing No: 62236-B-C404</b>
Rev:	<b>0</b>



**FOR CONSENT**

1	FOR EVIDENCE IN CHIEF	JAL	TP/DGA	GAP	18.04.13	
0	FOR CONSENT	ALP	DGA	GAP	16.10.12	
B	FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12	
A	FOR INFORMATION	AW	TP	DGA	20.10.11	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



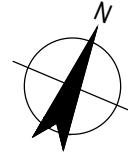
**NZ TRANSPORT AGENCY**  
WAKA KOTAHĪ



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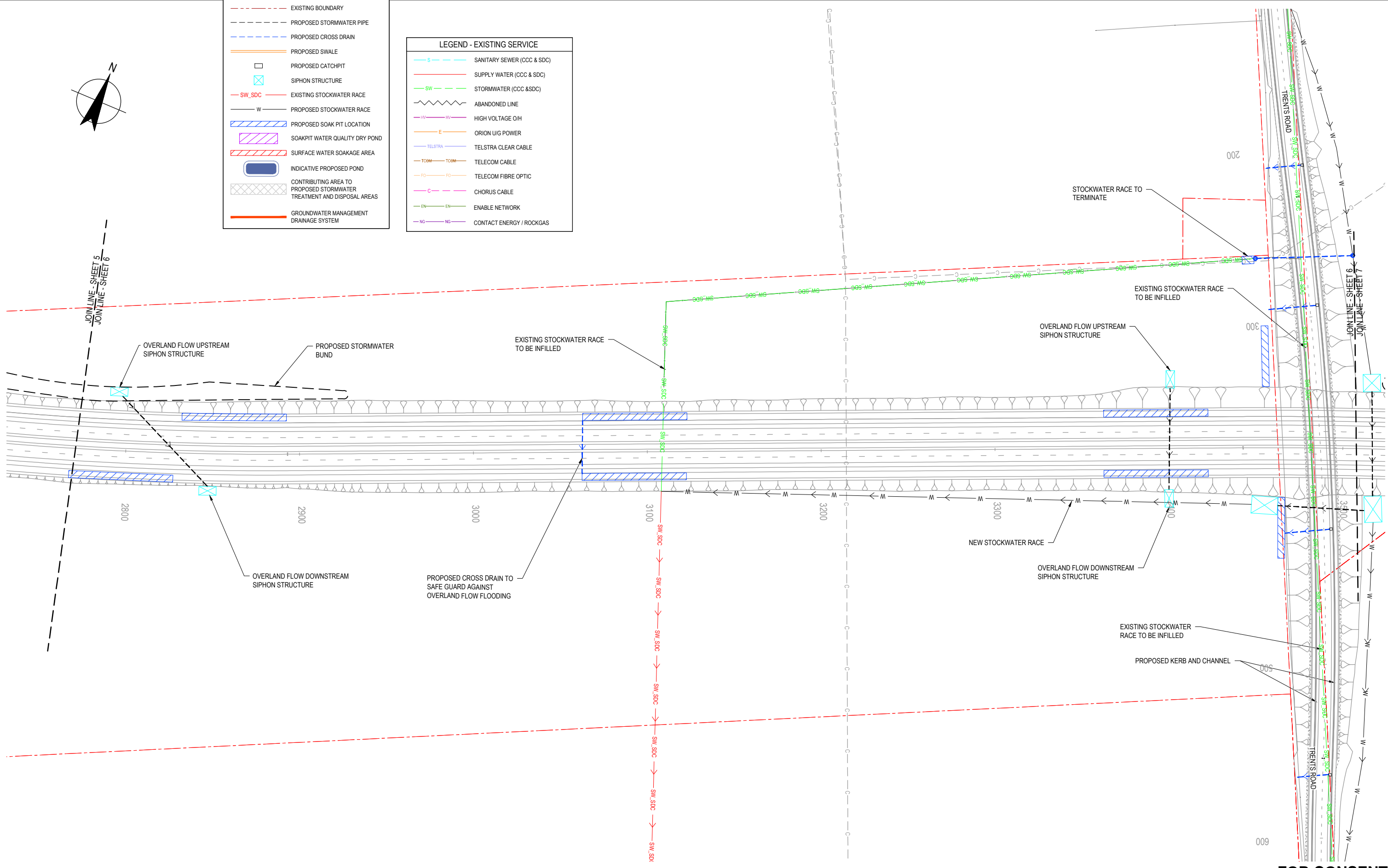
Drawn	AW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale		This Drawing must not be used for Construction unless signed as Approved	
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11</b>
Title	<b>CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 5 OF 17</b>
Drawing No:	<b>62236-B-C405</b>
Rev:	<b>1</b>



LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	EXISTING STOCKWATER RACE
	PROPOSED STOCKWATER RACE
	PROPOSED SOAK PIT LOCATION
	SOAKPIT WATER QUALITY DRY POND
	SURFACE WATER SOAKAGE AREA
	INDICATIVE PROPOSED POND
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS
	GROUNDWATER MANAGEMENT DRAINAGE SYSTEM

LEGEND - EXISTING SERVICE	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE O/H
	ORION IUG POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS



**FOR CONSENT**

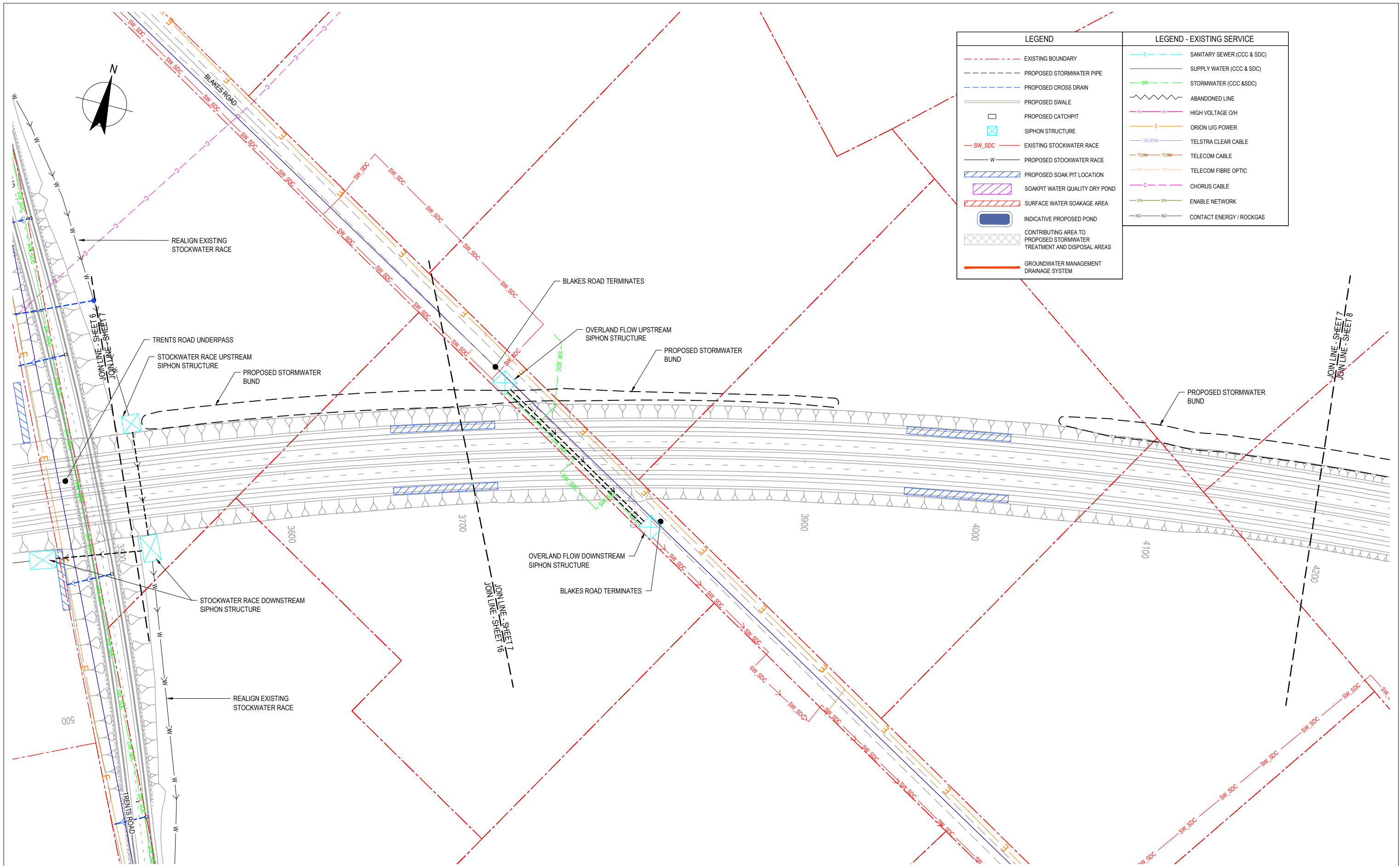
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1	FOR EVIDENCE IN CHIEF	JAL	TP/DGA	GAP	18.04.13	
0	FOR CONSENT	ALP	DGA	GAP	16.10.12	
B	FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12	
B	FOR INFORMATION	AW	TP	DGA	20.10.11	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



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Drawn	AW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale			
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11</b>
Title	<b>CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 6 OF 17</b>
Drawing No:	<b>62236-B-C406</b>
Rev:	<b>2</b>



LEGEND		LEGEND - EXISTING SERVICE	
	EXISTING BOUNDARY		SANITARY SEWER (CCC & SDC)
	PROPOSED STORMWATER PIPE		SUPPLY WATER (CCC & SDC)
	PROPOSED CROSS DRAIN		STORMWATER (CCC & SDC)
	PROPOSED SWALE		ABANDONED LINE
	PROPOSED CATCHPIT		HIGH VOLTAGE OH
	SIPHON STRUCTURE		ORION UIG POWER
	EXISTING STOCKWATER RACE		TELSTRA CLEAR CABLE
	PROPOSED STOCKWATER RACE		TELECOM CABLE
	PROPOSED SOAK PIT LOCATION		TELECOM FIBRE OPTIC
	SOAKPIT WATER QUALITY DRY POND		CHORUS CABLE
	SURFACE WATER SOAKAGE AREA		ENABLE NETWORK
	INDICATIVE PROPOSED POND		CONTACT ENERGY / ROCKGAS
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS		
	GROUNDWATER MANAGEMENT DRAINAGE SYSTEM		

**FOR CONSENT**

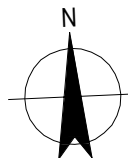
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1	FOR EVIDENCE IN CHIEF	JAL	TP/DGA	GAP	18.04.13	
0	FOR CONSENT	ALP	DGA	GAP	16.10.12	
B	FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12	
A	FOR INFORMATION	AW	TP	DGA	20.10.11	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



DO NOT SCALE	
Drawn	AW
Designed	TP
Drafting	NJD
Design	TM
Approved	CMG
Date	10.05.12
A1 Scale	
A3 Scale	1:2000

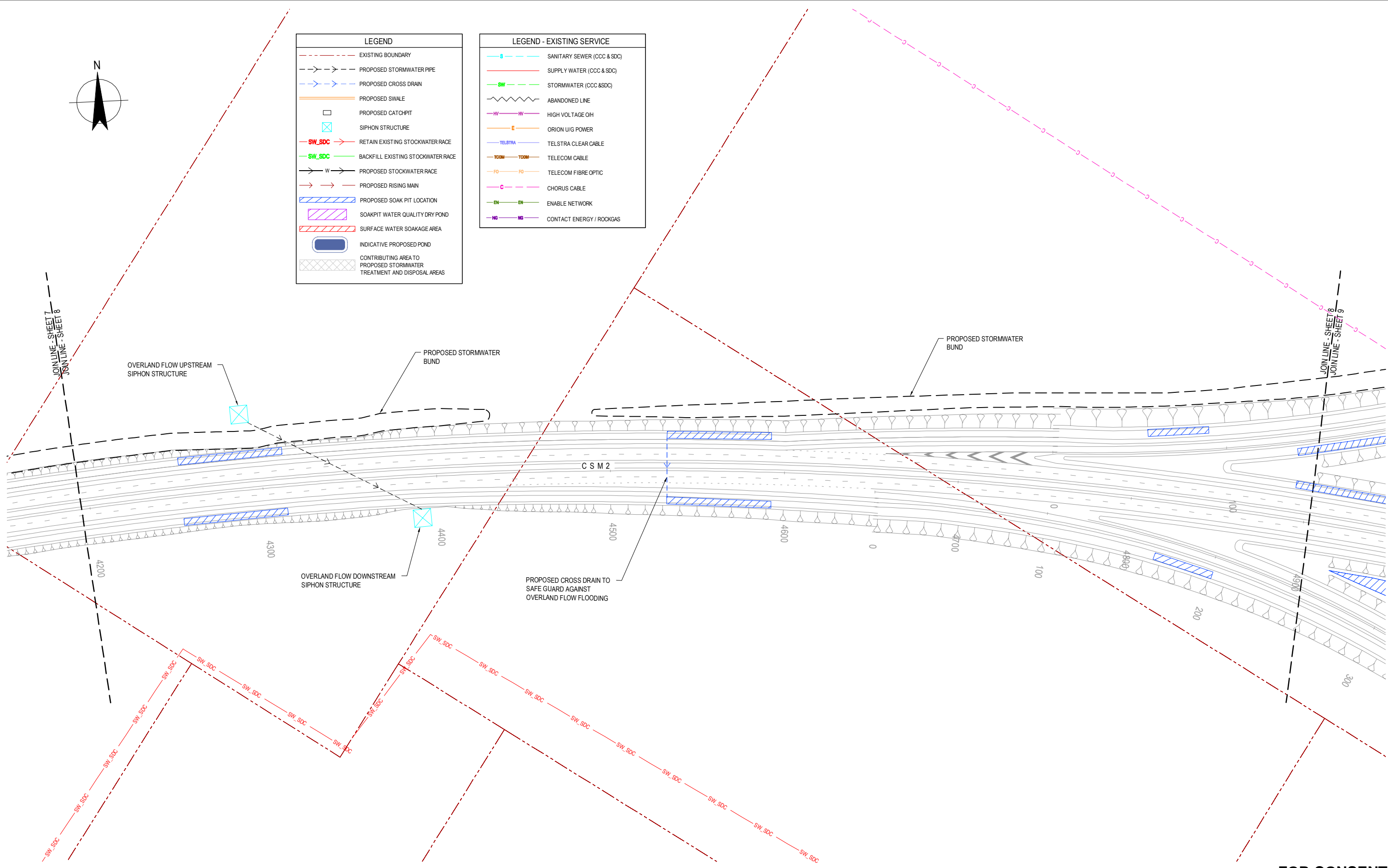
Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11</b>
Title	<b>CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 7 OF 17</b>
Drawing No:	<b>62236-B-C407</b>
Rev:	<b>2</b>





LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	RETAIN EXISTING STOCKWATER RACE
	BACKFILL EXISTING STOCKWATER RACE
	PROPOSED STOCKWATER RACE
	PROPOSED RISING MAIN
	PROPOSED SOAK PIT LOCATION
	SOAKPIT WATER QUALITY DRY POND
	SURFACE WATER SOAKAGE AREA
	INDICATIVE PROPOSED POND
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS

LEGEND - EXISTING SERVICE	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE OH
	ORION U/G POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS



**FOR CONSENT**

No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		ALP	DGA	GAP	16.10.12
B	FINAL SCHEME ASSESSMENT		ALP	DGA	CMG	10.05.12
A	FOR INFORMATION		AW	TP	DGA	20.10.11

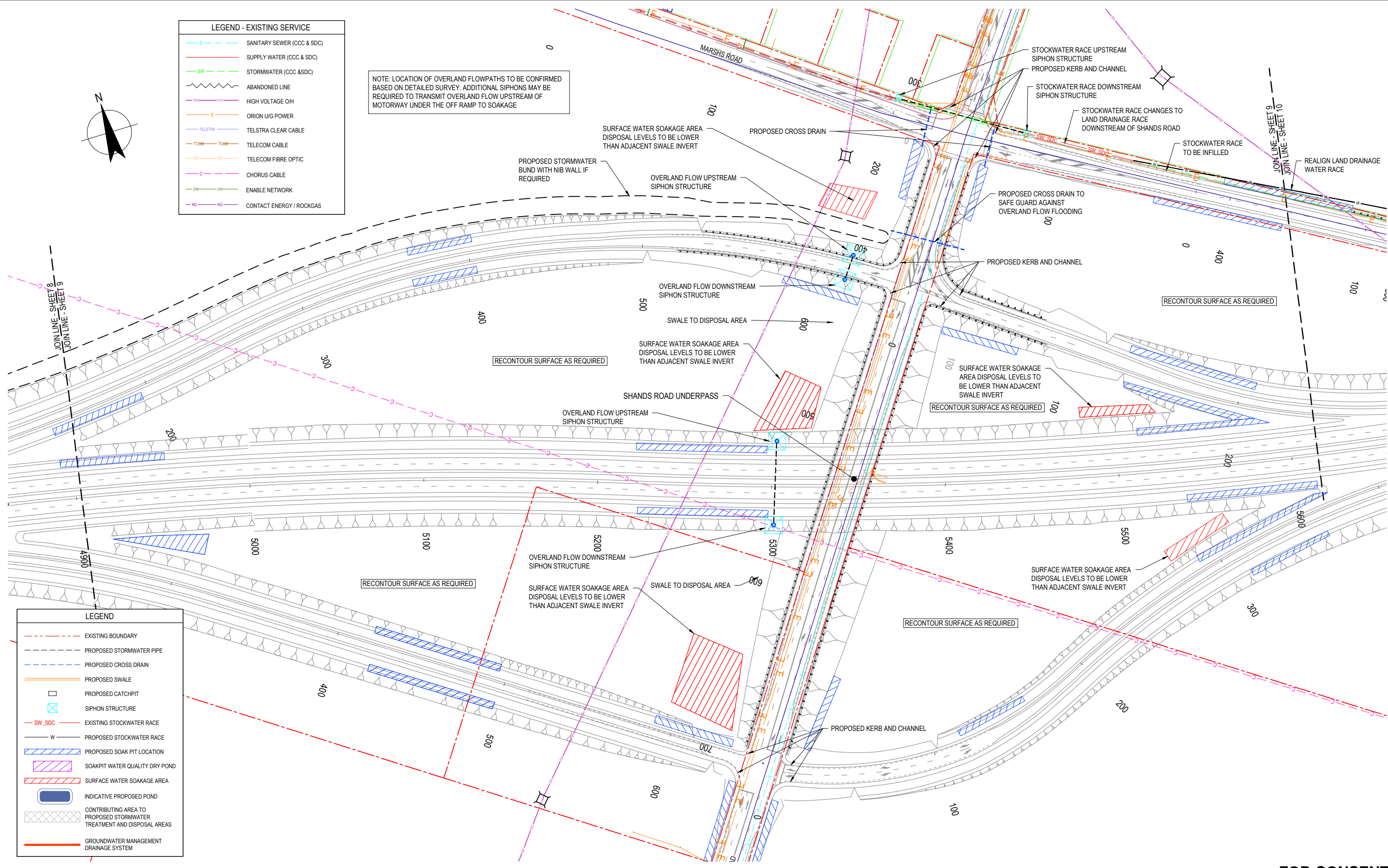


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Drawn	AW
Designed	TP
Drafting Check	NJD
Design Check	TM
Approved	CMG
Date	10.05.12
A1 Scale	
A3 Scale	1:2000

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11</b>
Title	<b>CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 8 OF 17</b>
Drawing No:	<b>62236-B-C408</b>
Rev:	<b>0</b>

LEGEND - EXISTING SERVICE	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE O/H
	ORION U/G POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS

NOTE: LOCATION OF OVERLAND FLOWPATHS TO BE CONFIRMED BASED ON DETAILED SURVEY. ADDITIONAL SIPHONS MAY BE REQUIRED TO TRANSMIT OVERLAND FLOW UPSTREAM OF MOTORWAY UNDER THE OFF RAMP TO SOAKAGE



LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	EXISTING STOCKWATER RACE
	PROPOSED STOCKWATER RACE
	PROPOSED SOAK PIT LOCATION
	SOAKPIT WATER QUALITY DRY POND
	SURFACE WATER SOAKAGE AREA
	INDICATIVE PROPOSED POND
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS
	GROUNDWATER MANAGEMENT DRAINAGE SYSTEM

FOR CONSENT

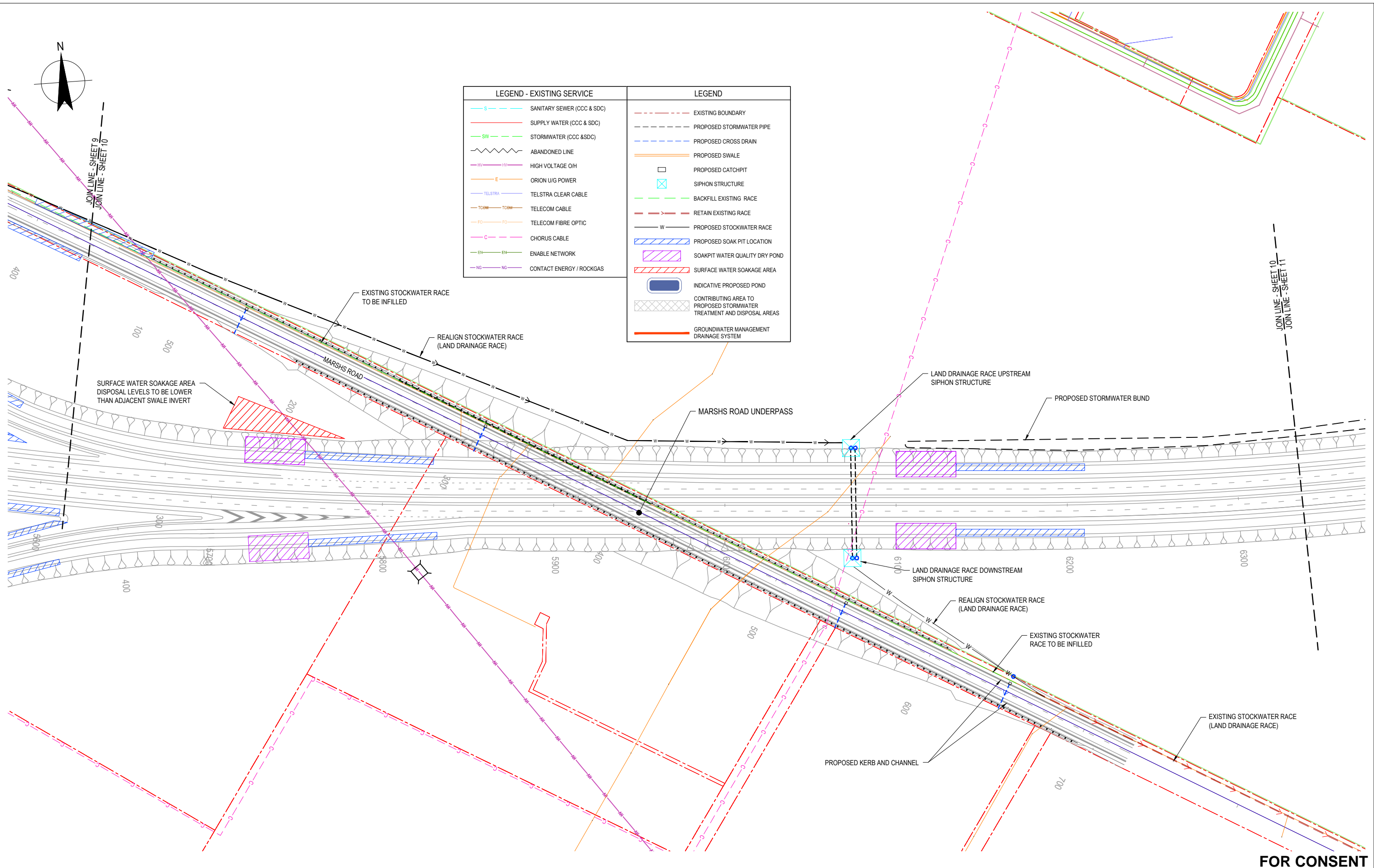
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0	FOR CONSENT	ALP	DGA	GAP	16.10.12	
B	FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12	
A	FOR INFORMATION	AW	TP	DGA	20.10.11	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



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Drawn	AW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale			
A3 Scale	1:2000		

Client	NEW ZEALAND TRANSPORT AGENCY
Project	SH1 REGION 11 RP350/3.92 TO RP365/2.11
Title	CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 9 OF 17
Drawing No:	62236-B-C409
Rev:	1



LEGEND - EXISTING SERVICE		LEGEND	
	SANITARY SEWER (CCC & SDC)		EXISTING BOUNDARY
	SUPPLY WATER (CCC & SDC)		PROPOSED STORMWATER PIPE
	STORMWATER (CCC & SDC)		PROPOSED CROSS DRAIN
	ABANDONED LINE		PROPOSED SWALE
	HIGH VOLTAGE O/H		PROPOSED CATCHPIT
	ORION U/G POWER		SIPHON STRUCTURE
	TELSTRA CLEAR CABLE		BACKFILL EXISTING RACE
	TELECOM CABLE		RETAIN EXISTING RACE
	TELECOM FIBRE OPTIC		PROPOSED STOCKWATER RACE
	CHORUS CABLE		PROPOSED SOAK PIT LOCATION
	ENABLE NETWORK		SOAKPIT WATER QUALITY DRY POND
	CONTACT ENERGY / ROCKGAS		SURFACE WATER SOAKAGE AREA
			INDICATIVE PROPOSED POND
			CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS
			GROUNDWATER MANAGEMENT DRAINAGE SYSTEM

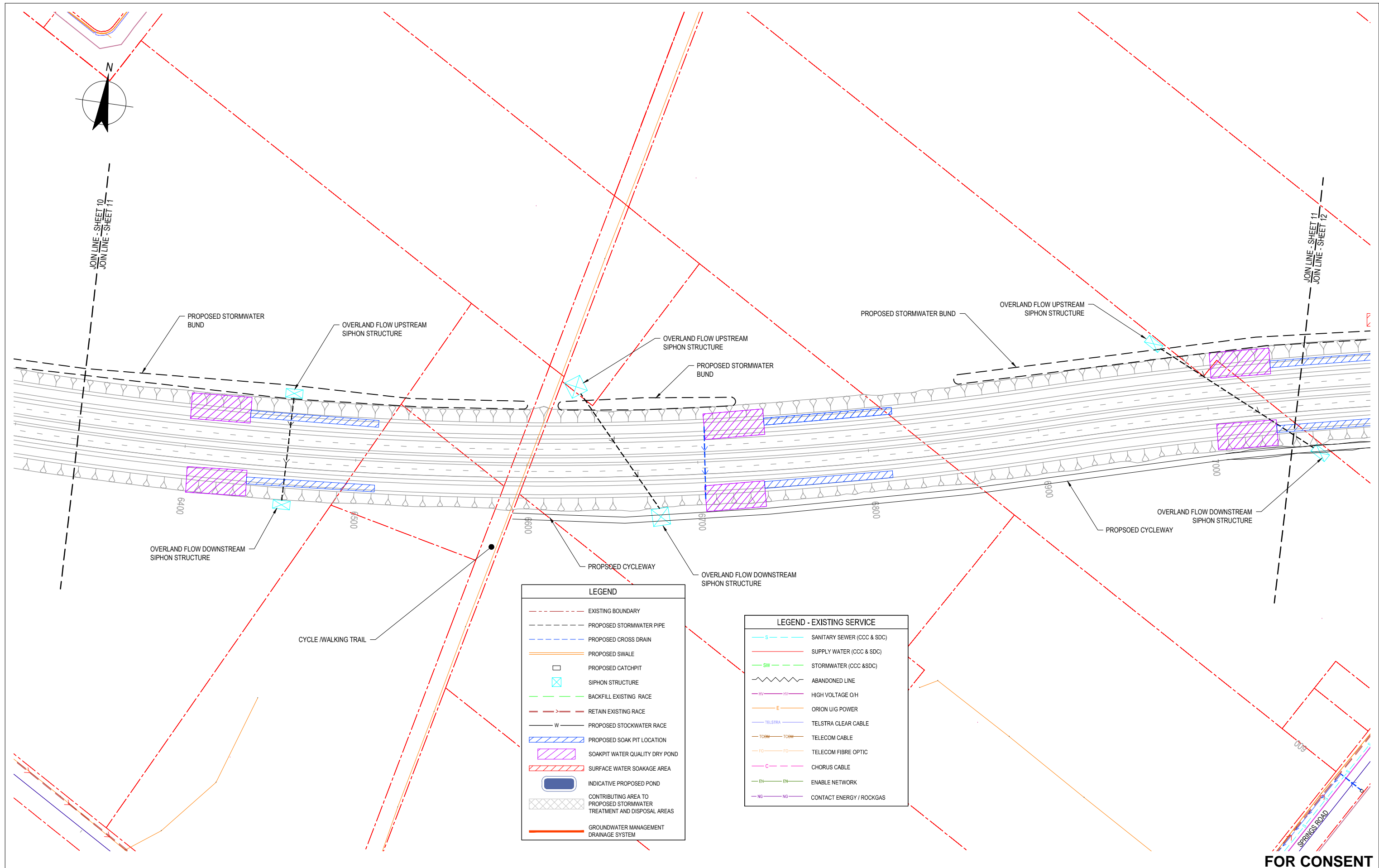
**FOR CONSENT**

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
1		FOR EVIDENCE IN CHIEF	JAL	TP/DGA	GAP	18.04.13
0		FOR CONSENT	ALP	DGA	GAP	16.10.12
B		FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12
A		FOR INFORMATION	AW	TP	DGA	20.10.11



<b>DO NOT SCALE</b>		Drawn	AW	Designed	TP
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		Approved	CMG		
		Date	10.05.12		
		A1 Scale		This Drawing must not be used for construction unless signed as Approved	
		A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>		
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11</b>		
Title	<b>CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 10 OF 17</b>		
Drawing No:	<b>62236-B-C410</b>	Rev:	<b>1</b>



**LEGEND**

- - - - - EXISTING BOUNDARY
- - - - - PROPOSED STORMWATER PIPE
- - - - - PROPOSED CROSS DRAIN
- PROPOSED SWALE
- PROPOSED CATCHPIT
- ⊗ SIPHON STRUCTURE
- - - - - BACKFILL EXISTING RACE
- - - - - RETAIN EXISTING RACE
- - - - - PROPOSED STOCKWATER RACE
- PROPOSED SOAK PIT LOCATION
- ▨ SOAKPIT WATER QUALITY DRY POND
- ▨ SURFACE WATER SOAKAGE AREA
- ▭ INDICATIVE PROPOSED POND
- ▨ CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS
- GROUNDWATER MANAGEMENT DRAINAGE SYSTEM

**LEGEND - EXISTING SERVICE**

- S SANITARY SEWER (CCC & SDC)
- SUPPLY WATER (CCC & SDC)
- SW STORMWATER (CCC & SDC)
- ~ ABANDONED LINE
- HV HIGH VOLTAGE O/H
- E ORION U/G POWER
- TELSTRA TELSTRA CLEAR CABLE
- TCOM TELECOM CABLE
- FO TELECOM FIBRE OPTIC
- C CHORUS CABLE
- EN ENABLE NETWORK
- NG CONTACT ENERGY / ROCKGAS

**FOR CONSENT**

1	FOR EVIDENCE IN CHIEF	JAL	TP/DGA	GAP	18.04.13	
0	FOR CONSENT	ALP	DGA	GAP	16.10.12	
B	FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12	
A	FOR INFORMATION	AW	TP	DGA	20.10.11	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date

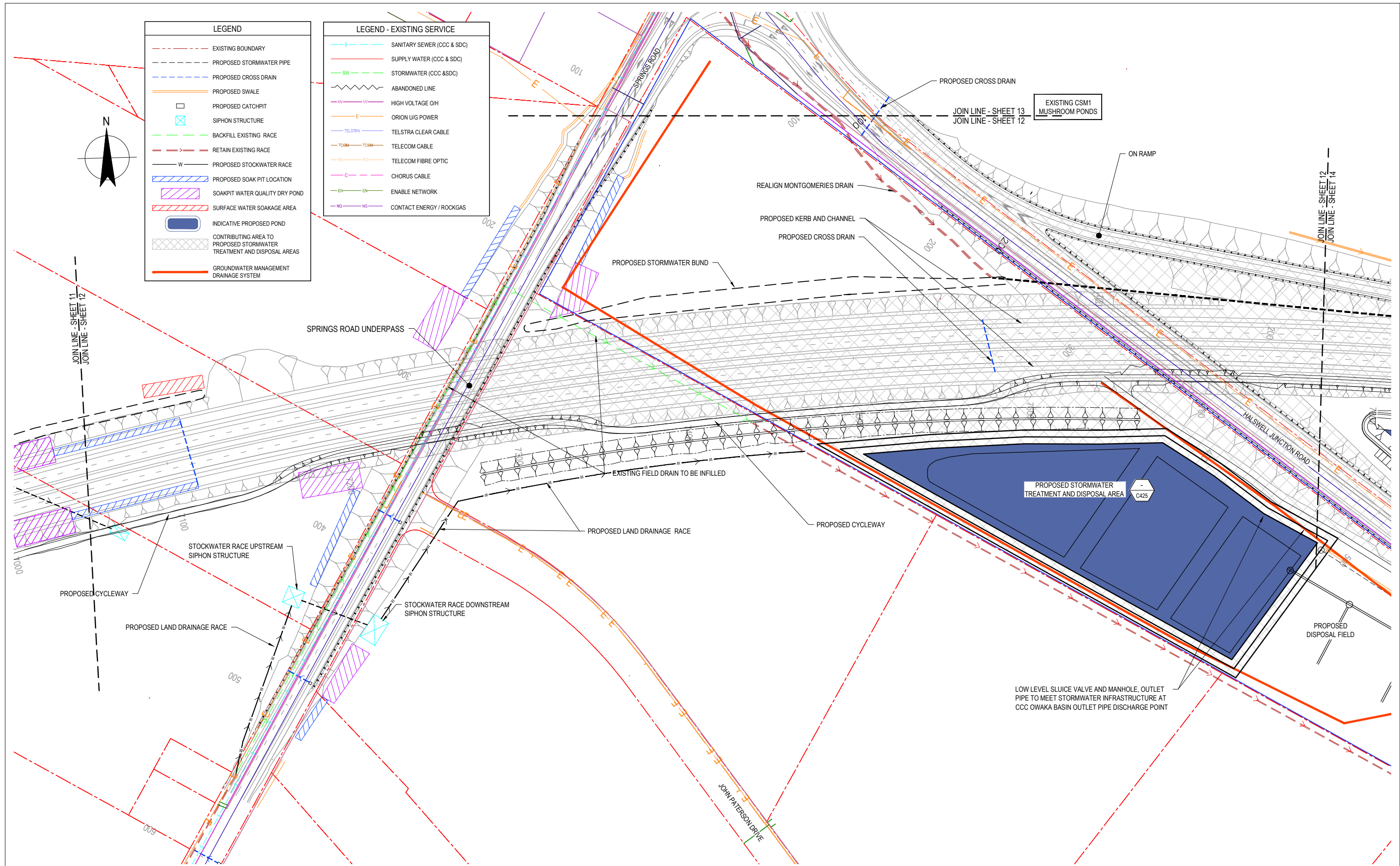


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Drawn	AW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale		This Drawing must not be used for construction unless signed as Approved	
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11 CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 11 OF 17</b>
Title	<b>Drawing No: 62236-B-C411</b>
Rev:	<b>1</b>



LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	BACKFILL EXISTING RACE
	RETAIN EXISTING RACE
	PROPOSED STOCKWATER RACE
	PROPOSED SOAK PIT LOCATION
	SOAKPIT WATER QUALITY DRY POND
	SURFACE WATER SOAKAGE AREA
	INDICATIVE PROPOSED POND
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS
	GROUNDWATER MANAGEMENT DRAINAGE SYSTEM

LEGEND - EXISTING SERVICE	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE O/H
	ORION U/G POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS

**FOR CONSENT**

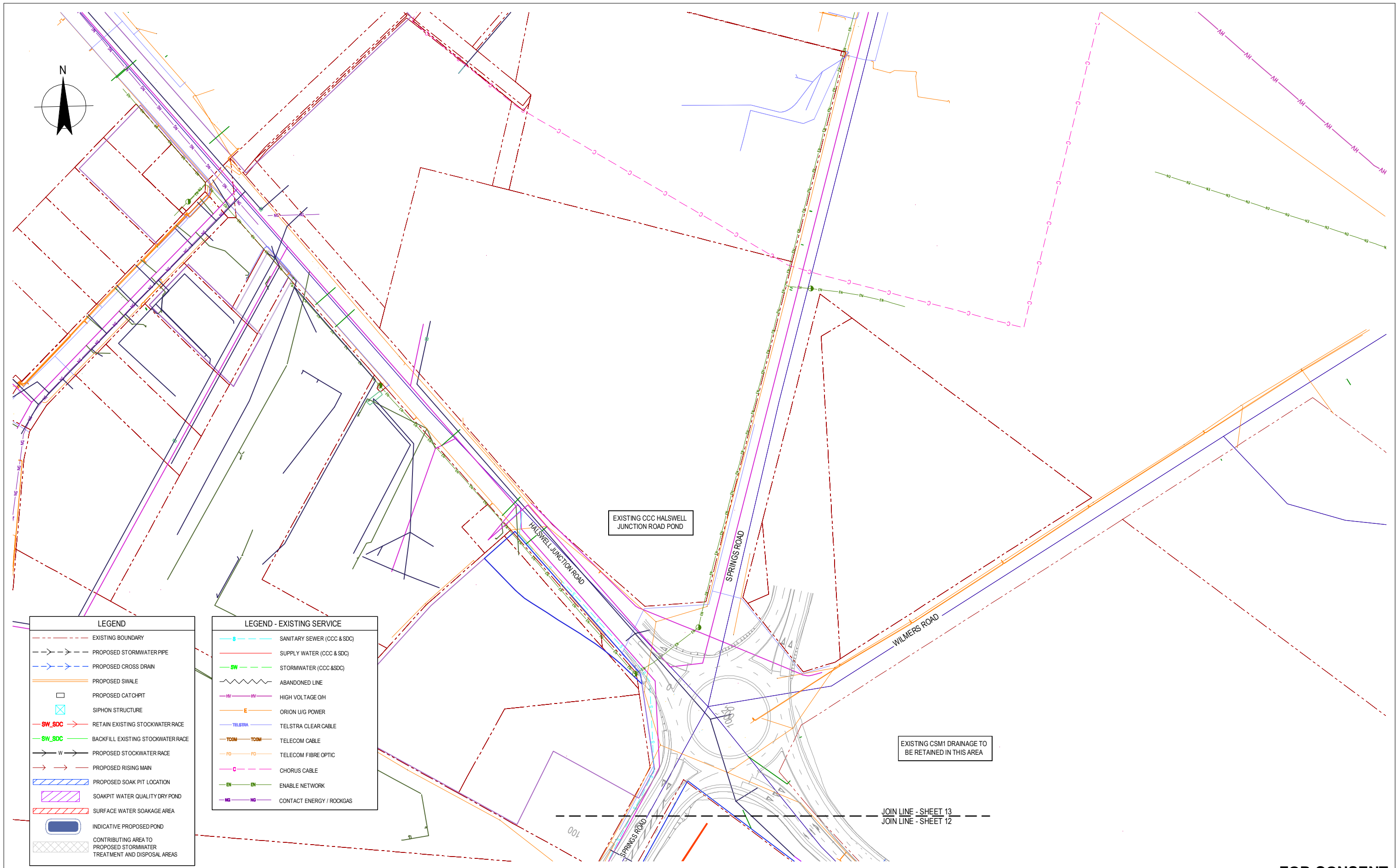
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
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0	FOR CONSENT		ALP	DGA	GAP	16.10.12
B	UNDER REVISION		ALP	DGA	CMG	10.05.12
A	FOR INFORMATION		AW	TP	DGA	20.10.11



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Drawn	AW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale		This Drawing must not be used for construction unless signed as Approved	
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11</b>
Title	<b>CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 12 OF 17</b>
Drawing No:	<b>62236-B-C412</b>
Rev:	<b>1</b>



**FOR CONSENT**

0	FOR CONSENT	ALP	DGA	GAP	16.10.12	
B	FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12	
A	FOR INFORMATION	AW	TP	DGA	20.10.11	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date

**DO NOT SCALE**

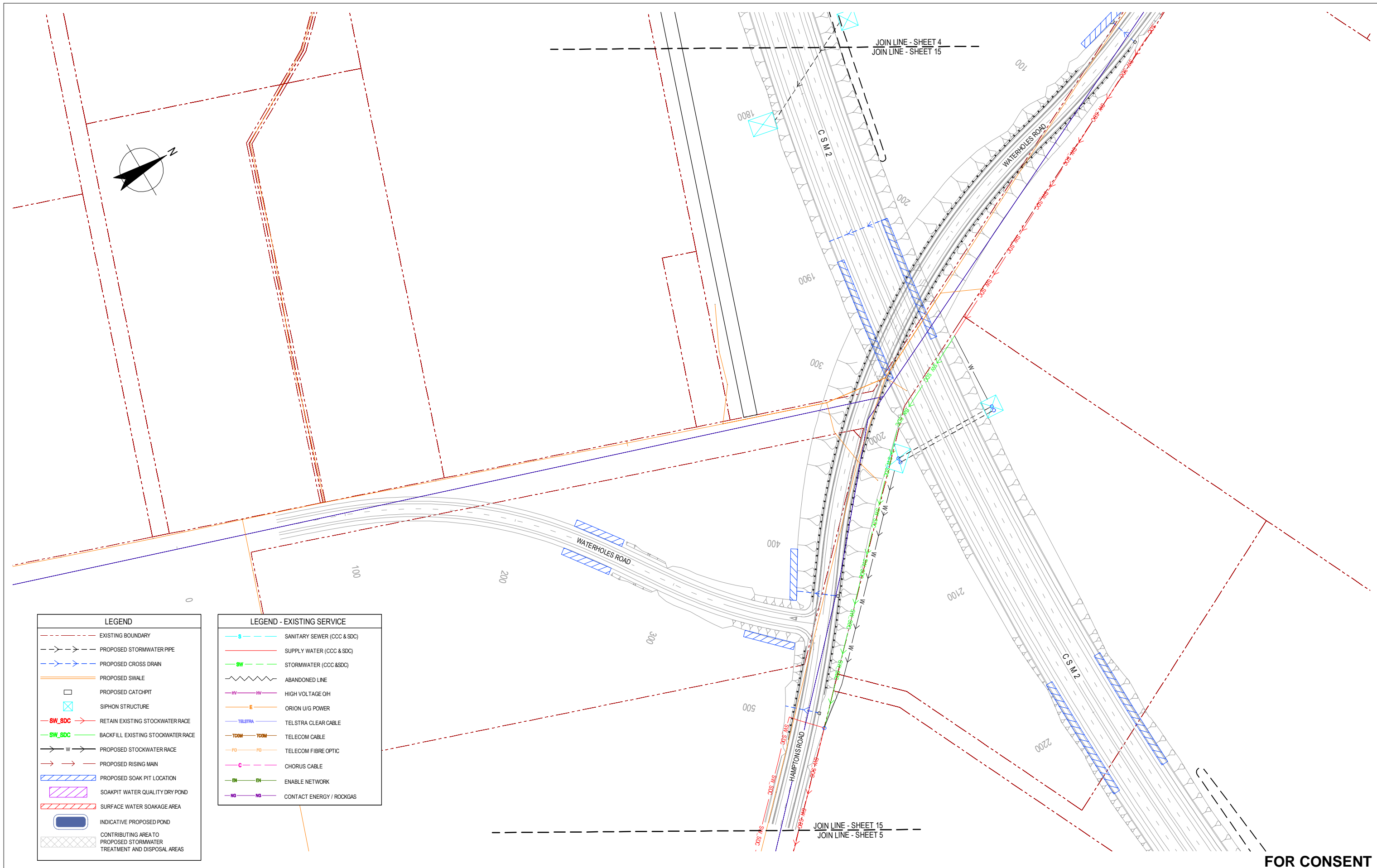
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Drawn: AW  
Designed: TP  
Drafting Check: NJD  
Design Check: TM  
Approved: CMG  
Date: 10.05.12  
A1 Scale  
A3 Scale 1:2000

Client: **NEW ZEALAND TRANSPORT AGENCY**  
Project: **SH1 REGION 11 RP350/3.92 TO RP365/2.11 CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 13 OF 17**  
Title: **Drawing No: 62236-B-C413**

Rev: 0





LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	RETAIN EXISTING STOCKWATER RACE
	BACKFILL EXISTING STOCKWATER RACE
	PROPOSED STOCKWATER RACE
	PROPOSED RISING MAIN
	PROPOSED SOAK PIT LOCATION
	SOAKPIT WATER QUALITY DRY POND
	SURFACE WATER SOAKAGE AREA
	INDICATIVE PROPOSED POND
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS

LEGEND - EXISTING SERVICE	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE OH
	ORION U/G POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS

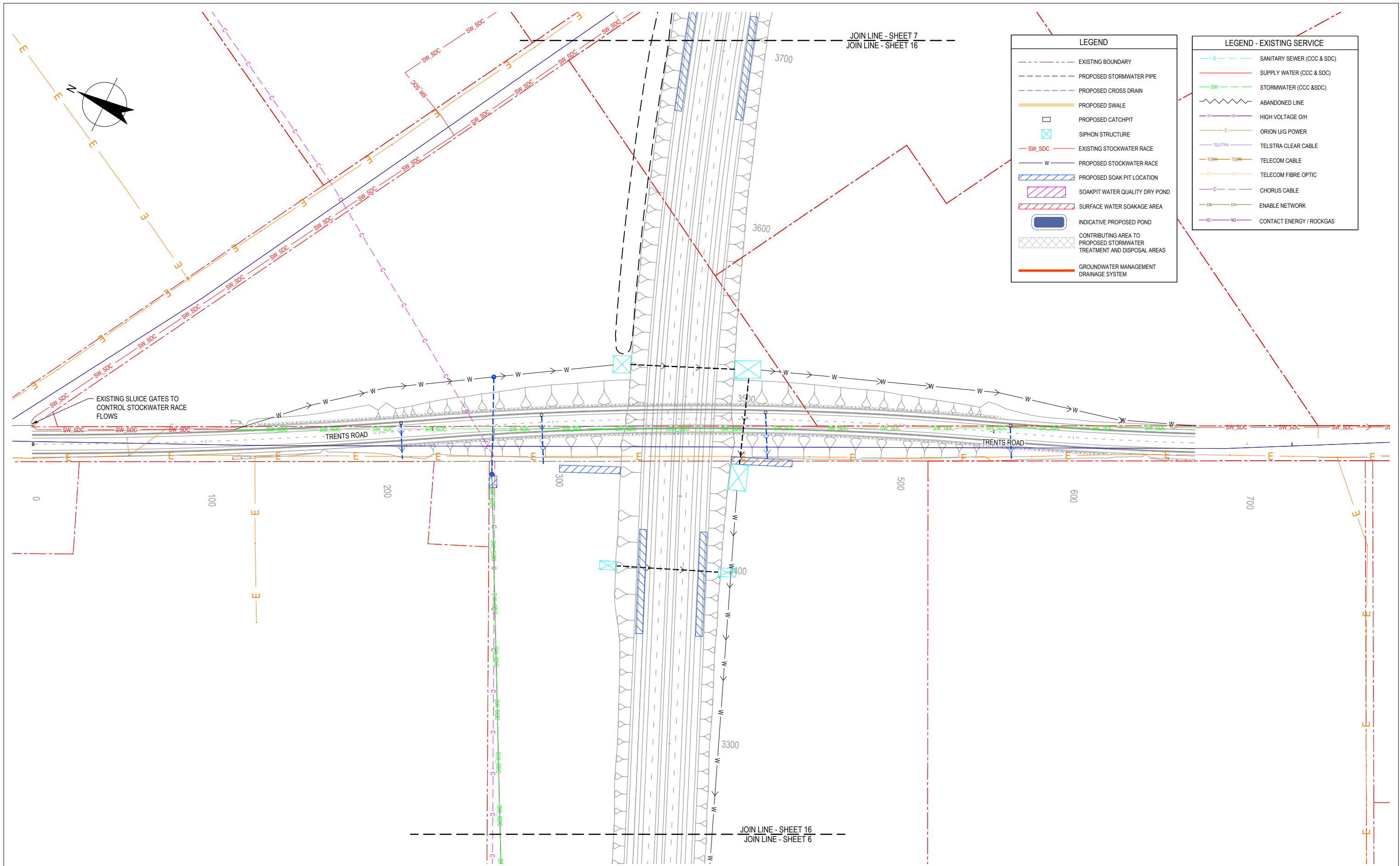
No	Revision	Note	Drawn	Checked	Approved	Date
0	FOR CONSENT		ALP	DGA	GAP	16.10.12
B	FINAL SCHEME ASSESSMENT		ALP	DGA	CMG	10.05.12
A	FOR INFORMATION		AW	TP	DGA	20.10.11



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Drawn	AW
Designed	TP
Drafting Check	NJD
Design Check	TM
Approved	CMG
Date	10.05.12
A1 Scale	
A3 Scale	1:2000

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11</b>
Title	<b>CHRISTCHURCH SOUTHERN MOTORWAY 2 LAYOUT PLAN - 15 OF 17</b>
Drawing No:	<b>62236-B-C415</b>
Rev:	<b>0</b>





**FOR CONSENT**

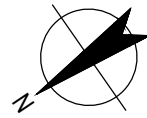
1	FOR HEARING	JAL	DGA	GAP	03.07.13	
0	FOR CONSENT	ALP	DGA	GAP	16.10.12	
B	FINAL SCHEME ASSESSMENT	ALP	DGA	CMG	10.05.12	
A	FOR INFORMATION	AW	TP	DGA	20.10.11	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



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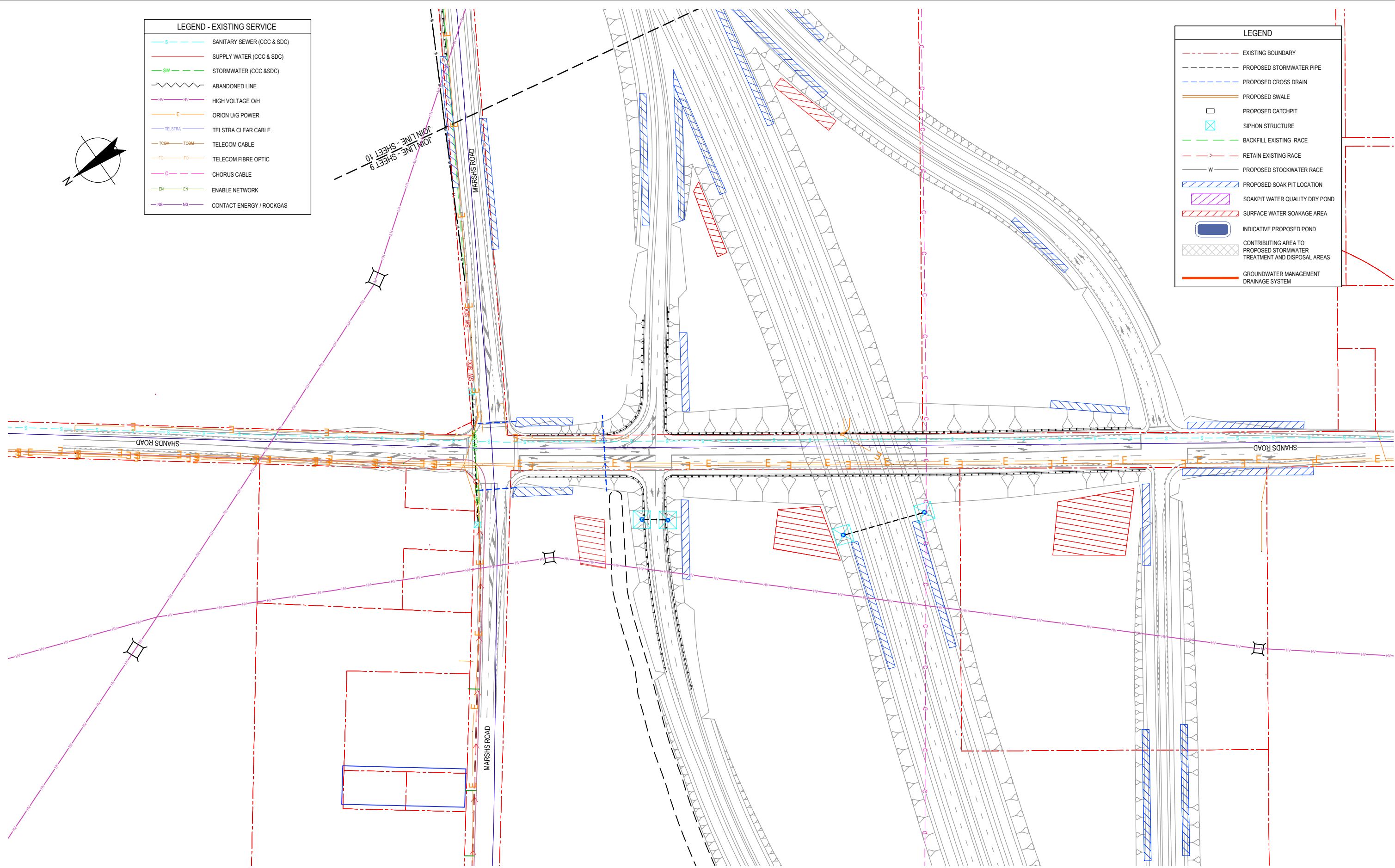
Drawn	AW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale		This Drawing must not be used for Construction unless signed as Approved	
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11</b>
Title	<b>CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 16 OF 17</b>
Drawing No:	<b>62236-B-C416</b>
Rev:	<b>1</b>



LEGEND - EXISTING SERVICE	
	SANITARY SEWER (CCC & SDC)
	SUPPLY WATER (CCC & SDC)
	STORMWATER (CCC & SDC)
	ABANDONED LINE
	HIGH VOLTAGE O/H
	ORION U/G POWER
	TELSTRA CLEAR CABLE
	TELECOM CABLE
	TELECOM FIBRE OPTIC
	CHORUS CABLE
	ENABLE NETWORK
	CONTACT ENERGY / ROCKGAS

LEGEND	
	EXISTING BOUNDARY
	PROPOSED STORMWATER PIPE
	PROPOSED CROSS DRAIN
	PROPOSED SWALE
	PROPOSED CATCHPIT
	SIPHON STRUCTURE
	BACKFILL EXISTING RACE
	RETAIN EXISTING RACE
	PROPOSED STOCKWATER RACE
	PROPOSED SOAK PIT LOCATION
	SOAKPIT WATER QUALITY DRY POND
	SURFACE WATER SOAKAGE AREA
	INDICATIVE PROPOSED POND
	CONTRIBUTING AREA TO PROPOSED STORMWATER TREATMENT AND DISPOSAL AREAS
	GROUNDWATER MANAGEMENT DRAINAGE SYSTEM



**FOR CONSENT**

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
1	FOR EVIDENCE IN CHIEF		JAL	TP/DGA	GAP	18.04.13
0	FOR CONSENT		ALP	DGA	GAP	16.10.12
B	FINAL SCHEME ASSESSMENT		ALP	DGA	CMG	10.05.12
A	FOR INFORMATION		AW	TP	DGA	20.10.11



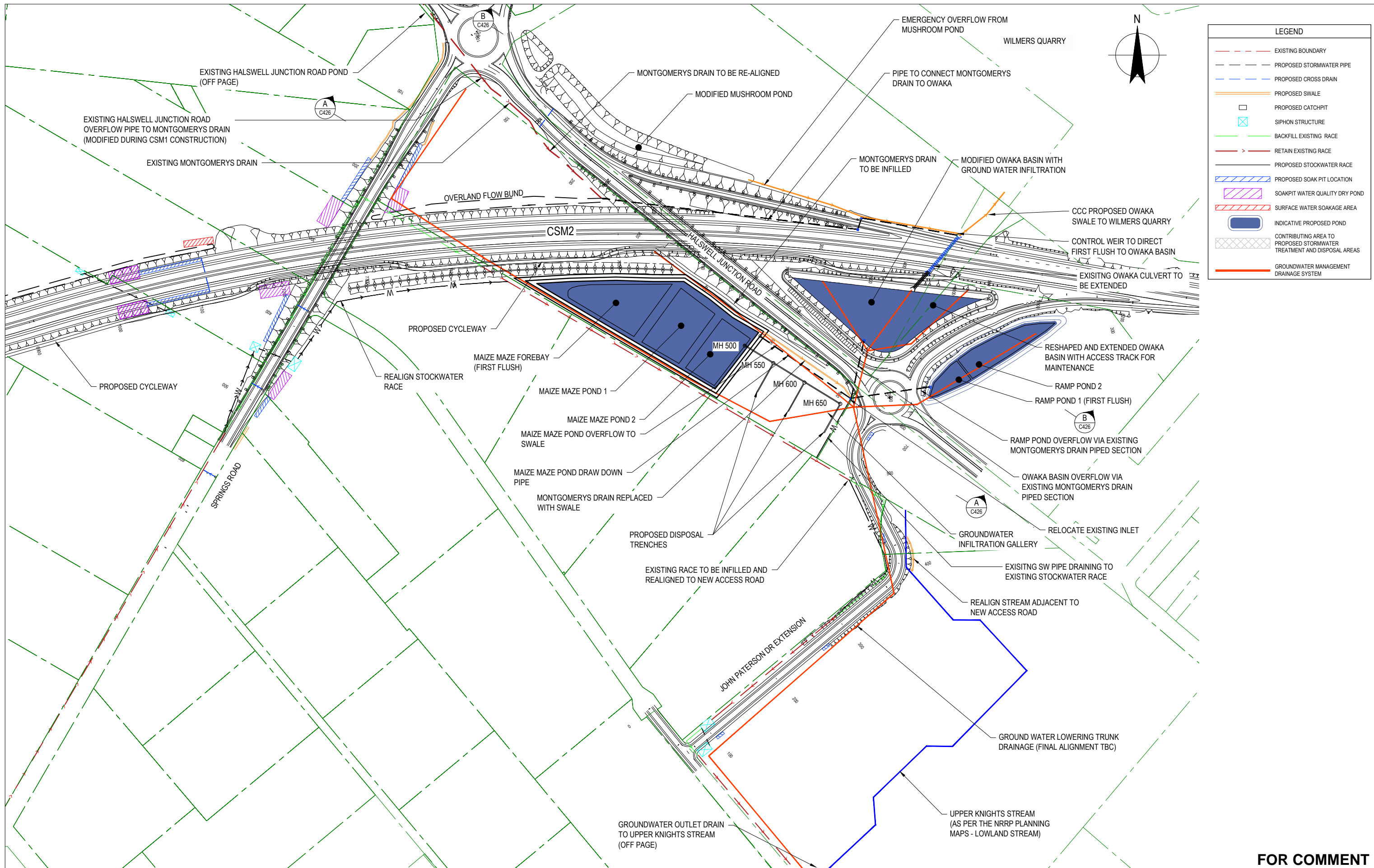
**NZ TRANSPORT AGENCY**  
WAKA KOTAHĪ



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Drawn	AW	Designed	TP
Drafting Check	NJD	Design Check	TM
Approved	CMG		
Date	10.05.12		
A1 Scale		This Drawing must not be used for Construction unless signed as Approved	
A3 Scale	1:2000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11</b>
Title	<b>CHRISTCHURCH SOUTHERN MOTORWAY 2 DRAINAGE LAYOUT PLAN - 17 OF 17</b>
Drawing No:	<b>62236-B-C417</b>
Rev:	<b>1</b>



**FOR COMMENT**

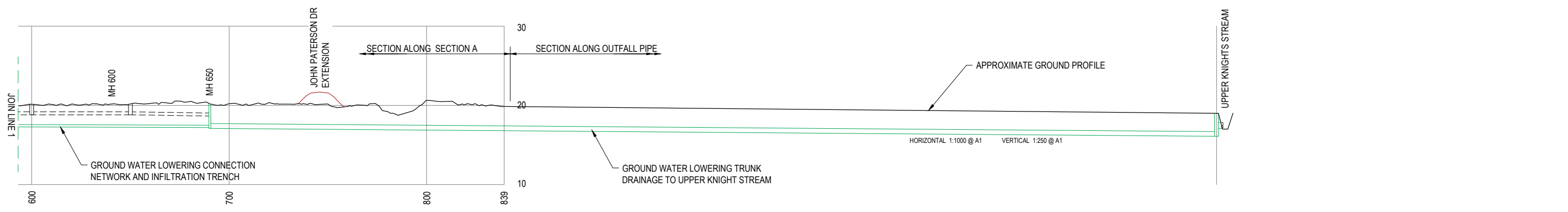
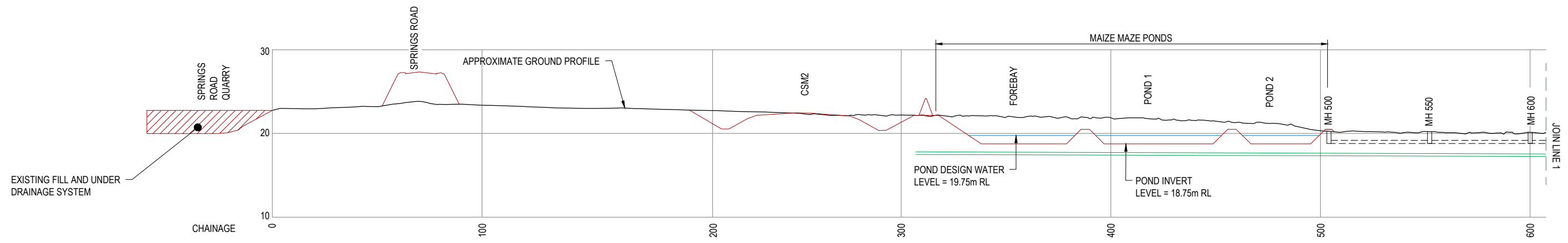
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
1		FOR EVIDENCE IN CHIEF	JAL	TP/DGA	GAP	18.04.13
0		FOR CONSENT	ALP	DGA	GAP	16.10.12



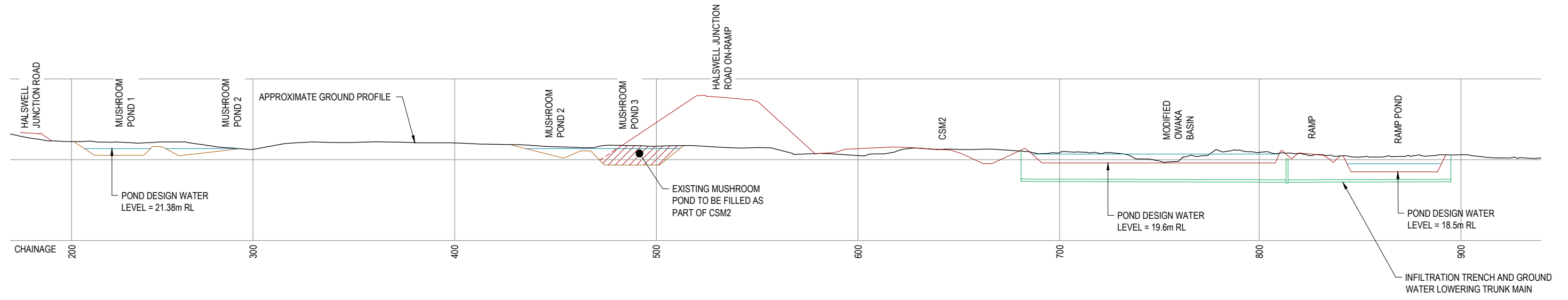
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Drawn	D. CROWLEY	Designed	TP
Drafting Check	TM	Design Check	TM
Approved	GAP		
Date	16.10.12		
A1 Scale			
A3 Scale	1:4000		

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11</b>
Title	<b>CHRISTCHURCH SOUTHERN MOTORWAY 2 STORMWATER PONDS PLAN</b>
Drawing No:	<b>62236-B-C425</b>
Rev:	<b>1</b>



**A SECTION**  
C425 SCALE 1:1000 H, 1:250 V @ A1



**B SECTION**  
C425 SCALE 1:1000 H, 1:250 V @ A1

LEGEND	
	EXISTING LIDAR SURFACE
	INTERIM SURFACE
	FINAL SURFACE
	DESIGN WATER LEVEL

**FOR CONSENT**

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
1	FOR EVIDENCE IN CHIEF		JAL	TP/DGA	GAP	18.04.13
A	FOR CONSENT		ALP	DGA	GAP	16.10.12



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	A1 Scale A3 Scale V. 1:2000, V: 1:500	<small>This Drawing must not be used for Construction unless signed as Approved</small>

Client	<b>NEW ZEALAND TRANSPORT AGENCY</b>
Project	<b>SH1 REGION 11 RP350/3.92 TO RP365/2.11</b>
Title	<b>CHRISTCHURCH SOUTHERN MOTORWAY 2 STORMWATER POND CROSS SECTIONS</b>
Drawing No:	<b>62236-B-C426</b>
Rev:	<b>1</b>