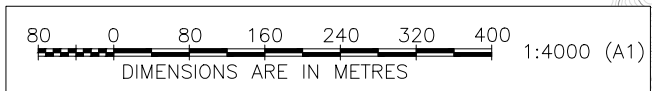
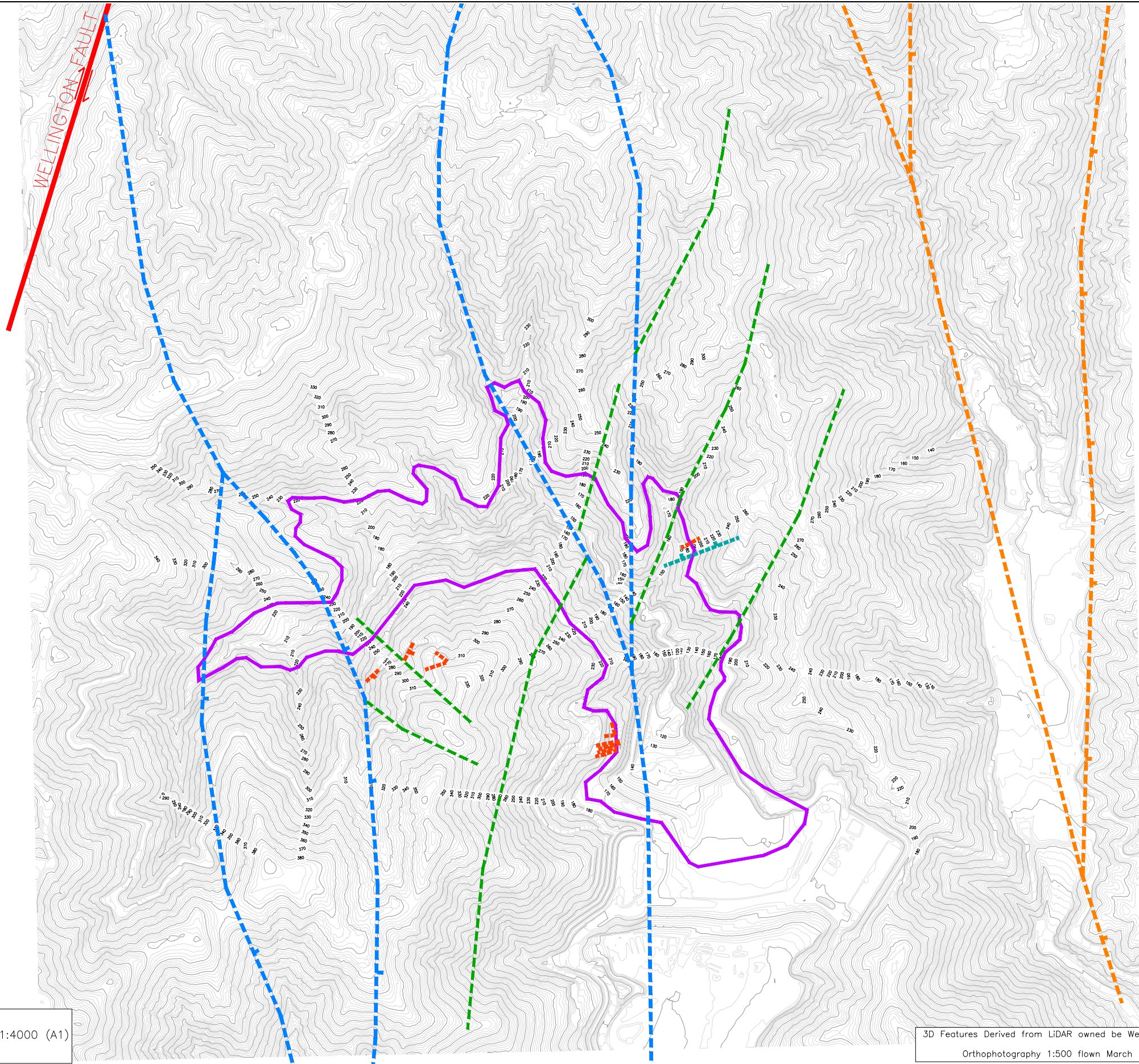


- LEGEND:**
- PRINCIPAL FAULT (REF: GNS MAP22)
 - - - SECONDARY POSSIBLE ACTIVE FAULT (REF: GNS MAP22)
 - - - SECONDARY POSSIBLE INACTIVE FAULT (REF: GNS MAP22)
 - - - SIGNIFICANT FAULTS (URS SITE OBSERVATIONS 2011)
 - - - MINOR FAULTS (URS SITE OBSERVATIONS 2011)
 - - - LINEARTIONS IDENTIFIED FROM 2004 1:25,000 STEREOSCOPIC PHOTOGRAPHS
 - EXTENT OF STAGE 4 LANDFILL



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						Tab	G-002
						Scales	1:4,000 (A1) 1:8,000 (A3)
B	FOR RESOURCE CONSENT	ER	IMM	DF	GH	19/06/13	Original Size A1
A	DRAFT	ER	BJMM	DF	GH	14/04/11	
Rev	Revision Description	Designed	Drawn	Checked	Approved	Date	

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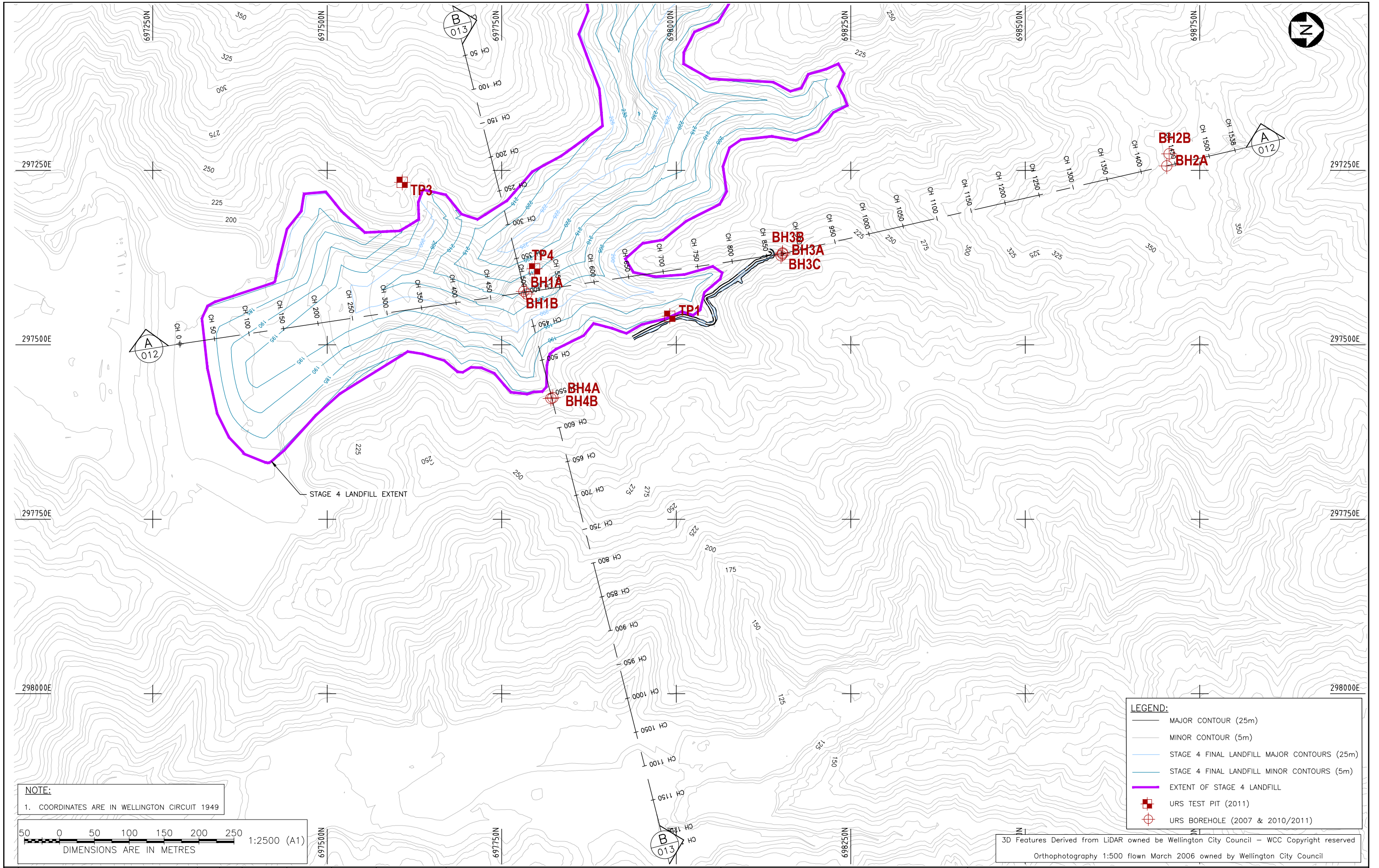
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SOUTHERN LANDFILL

FAULT HAZARD PLAN

Status: **FINAL**

Drawing Number: **G-002** Revision: **B**



						Tab G-011
						Scales
B	FOR RESOURCE CONSENT	AK	IMM	DF	GH	19/06/13
A	DRAFT	AK	BJMM	DF	GH	
Rev	Revision Description	Designed	Drawn	Checked	Approved	Date

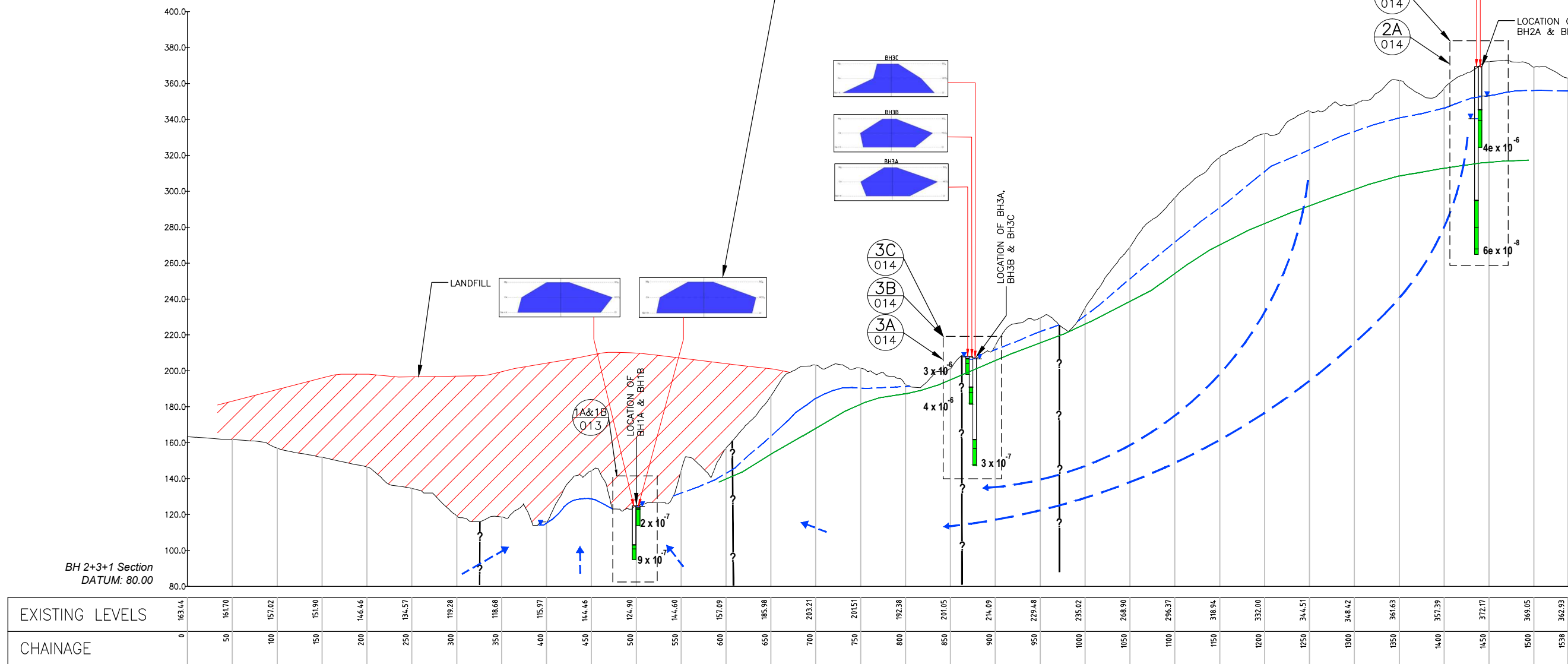
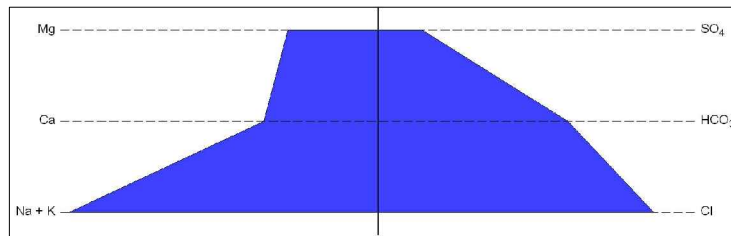
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SOUTHERN LANDFILL - STAGE 4 EXTENSION

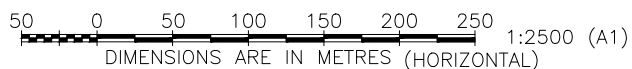
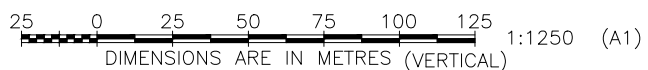
BOREHOLE LOCATIONS AND GEOLOGICAL SECTIONS

Status	FINAL
Drawing Number	G-011
Revision	B



A GEOLOGICAL SECTION A
 011 SCALE: 1:2500 (A1)
 1:5000 (A3)

NOTE: VERTICAL SCALE IS EXAGGERATED BY 2x



KEY:	
	GROUNDWATER
	EXTENT OF WEATHERING
2×10^{-7}	HYDRAULIC CONDUCTIVITY (m/s)
	APPROXIMATE FAULT LOCATION
	SCREEN & GRAVEL PACK
	GROUNDWATER FLOW DIRECTION

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Rev	Revision Description	Designed	Drawn	Checked	Approved	Date
B	FOR RESOURCE CONSENT	AK	IMM	IJ	GH	19/06/13
A	DRAFT	GH	BJMM			

Tab G-012

Scales
 1:2,500 (A1)
 1:5,000 (A3)

Original Size A1



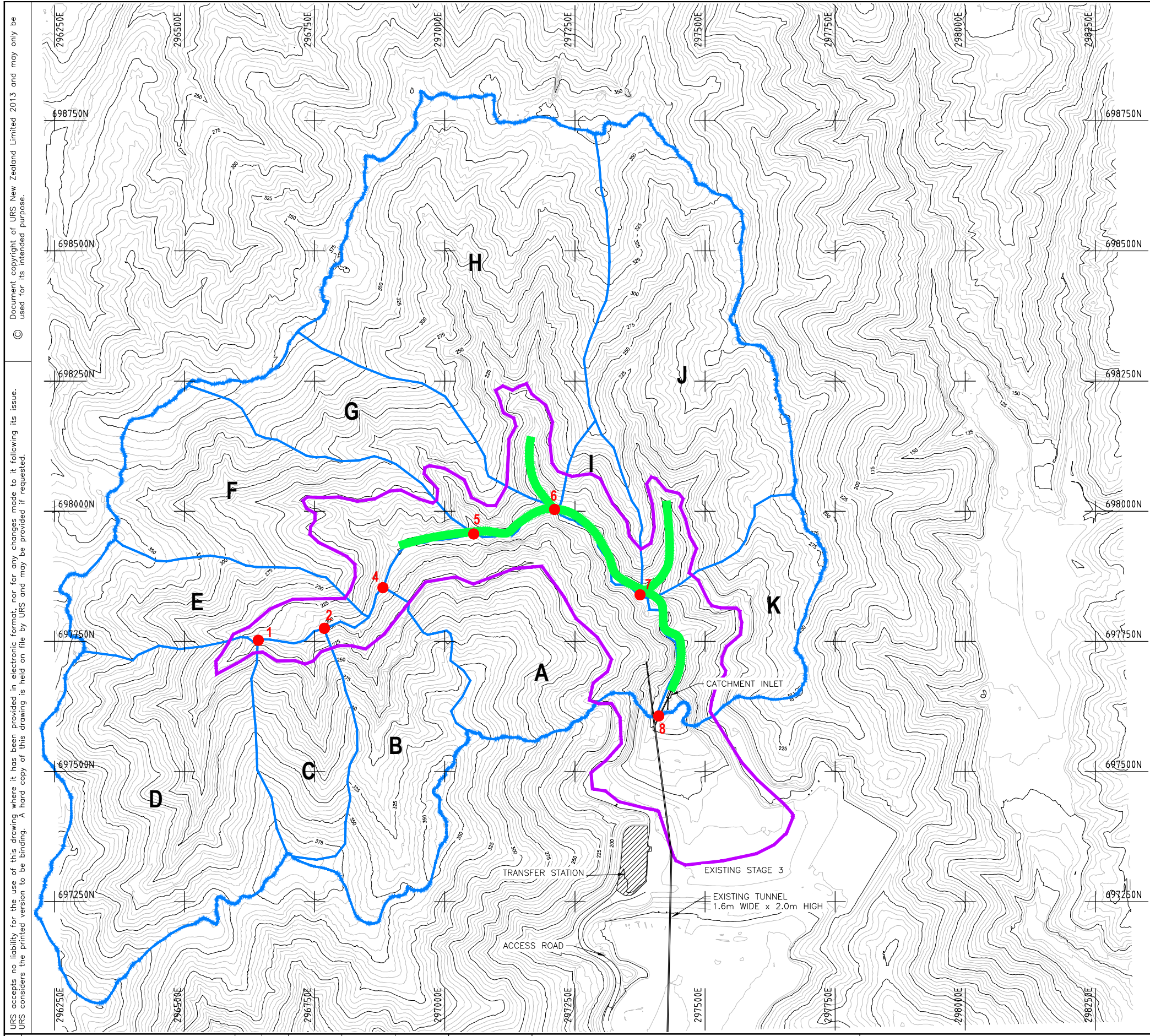
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SOUTHERN LANDFILL

CONCEPTUAL HYDROGEOLOGICAL SECTION A

Status	Revision
FINAL	B
Drawing Number	G-012



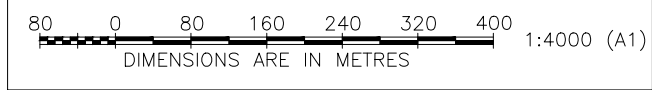
Catchment	Area Within Landfill (m2)	Area Clean (m2)	Total Area (m2)
A	71505	83894	155399
B	7993	103431	111424
C	5231	62744	67974
D	3052	225568	228620
E	13018	70498	83517
F	33430	122126	155556
G	14685	80096	94781
H	18461	273846	292307
I	16701	11144	27845
J	15625	215138	230763
K	27343	59485	86828

FLOW LOCATION	ESTIMATED SUMMER BASE GW FLOW (L/min)
1	70
2	90
3	115
4	150
5	245
6	365
7	445
8	470

LEGEND:

- MAJOR CONTOUR (25m)
- MINOR CONTOUR (5m)
- EXTENT OF STAGE 4 LANDFILL
- CATCHMENT BOUNDARY
- INFERRED EXTENT OF PERENNIAL STREAM FLOW BASED ON FIELD OBSERVATIONS

NOTE:
 1. CONCEPT ONLY, SUBJECT TO DETAILED DESIGN
 2. COORDINATES ARE IN WELLINGTON CIRCUIT 1949
 3. REFER TO CATCHMENT STUDY FOR CATCHMENT CALCULATIONS



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Rev	Revision Description	Designed	Drawn	Checked	Approved	Date
B	FOR CONSENT	RC	IMM	RC	GH	08/2013
A	DRAFT	RC	BJMM	RC	GH	

Tab G014
 Scales
 1:4,000 (A1)
 1:8,000 (A3)
 Original Size A1

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 13-15 College Hill, Auckland
 Phone: 9-355 1300
 Fax: 9-355 1333

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SOUTHERN LANDFILL - STAGE 4 EXTENSION

INTERPRETED GROUNDWATER FLOW TO STREAM - SUMMER BASE FLOW

Status **CONSENT**
 Drawing Number **G-014**
 Revision **B**