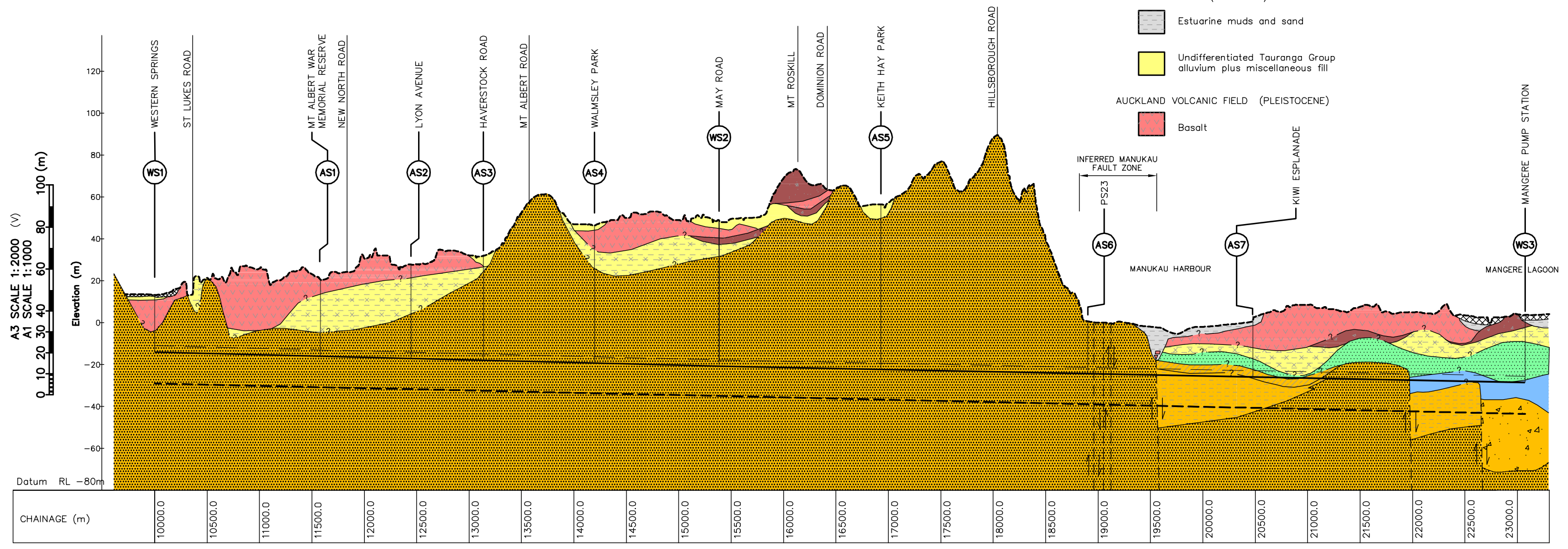


LEGEND

- Existing ground profile
- - - - - Inferred geological boundary
- - - - - Tunnel crown
- Tunnel invert
- - - - - Inferred geological boundary
- - - - - Envelope 5m above tunnel invert level
- - - - - Envelope 15m below tunnel invert level
- WS3 Work Shaft Location
- AS3 Access Shaft Location
- ⚡ Fault (inferred)
- ▨ Fill
- TAURANGA GROUP (HOLOCENE)
- ▨ Estuarine muds and sand
- ▨ Undifferentiated Tauranga Group alluvium plus miscellaneous fill
- AUCKLAND VOLCANIC FIELD (PLEISTOCENE)
- ▨ Basalt
- WAITEMATA GROUP (MIOCENE)
- ▨ Undifferentiated
- ▨ Volcanic-poor flysch facies (East Coast Bays Formation)
- ▨ Muddy flysch facies
- ▨ Mixed volcanic-rich and volcanic-poor flysch facies
- ▨ Volcanic-rich to debris flow facies including Parnell Grit
- TAURANGA GROUP (PLIOCENE - PLEISTOCENE)
- ▨ Puketoka Formation Upper (fine-grained) facies
- ▨ Puketoka Formation Lower (coarse grained) facies
- ▨ Kaawa Formation



A3 SCALE 1:2000 (V)
A1 SCALE 1:1000

A3 SCALE 1:40000 (H)
A1 SCALE 1:20000

NOTES

1. All dimensions are in metres unless noted otherwise.
2. The ground surface topography is based on Lidar data supplied by ALGGi.

Plot Date: 10-Aug-12 9:46 AM
File path: P:\0538 - Central Interceptor\04_Drawings\A3_Working\AEE_Main_Consent\General\DWG

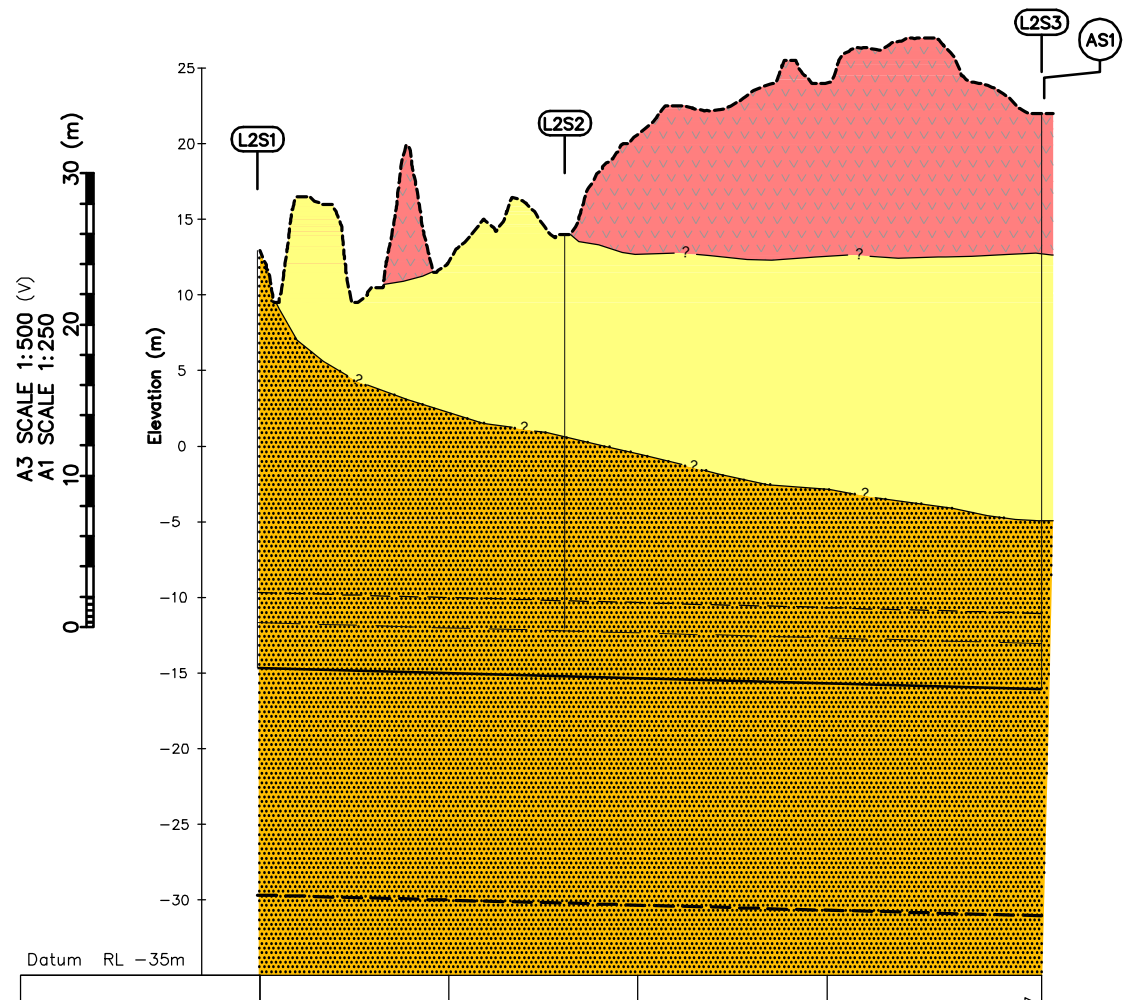
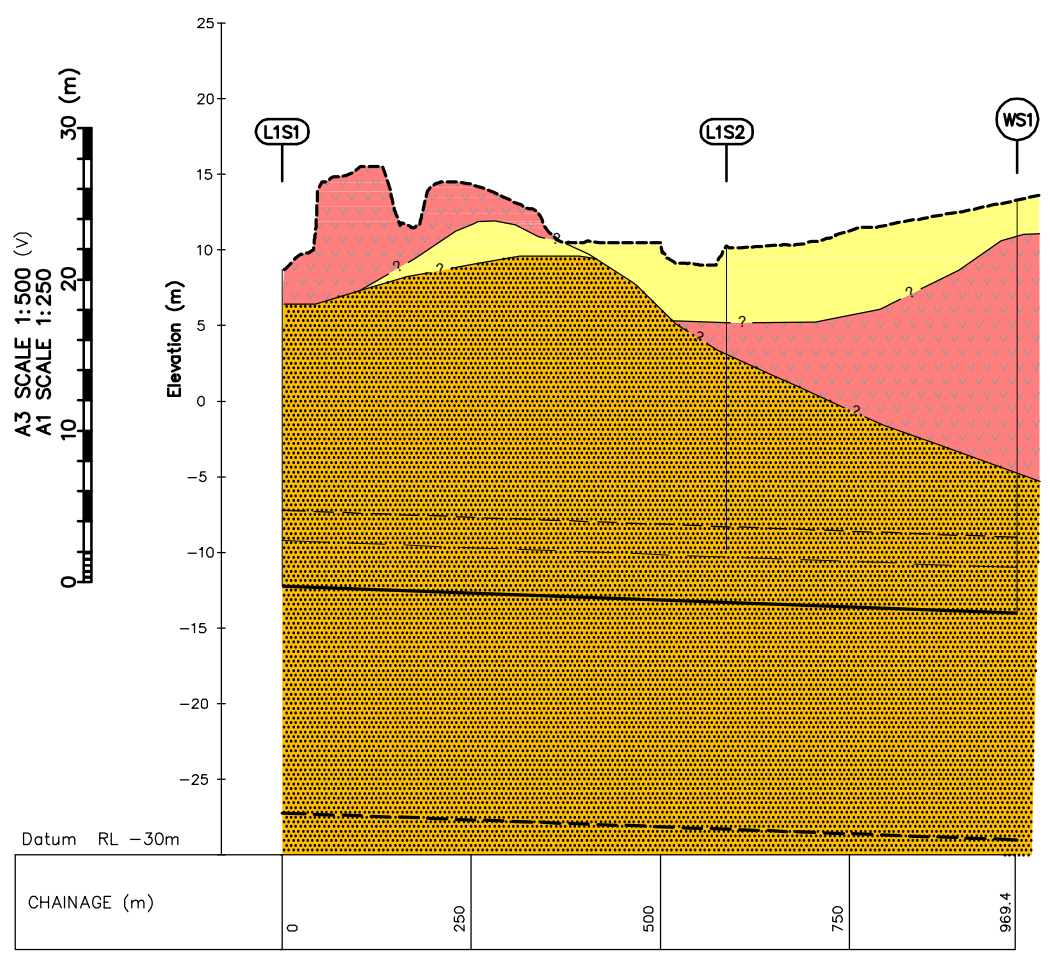
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DES. CHECKED	KJH		08/12		
DRAWN	JATG				
DWG. CHECKED	KJH		08/12		
REV'D P.MGR	JBS				
APP'D P.DIR					
ISSUE	DATE	AMENDMENT	BY	APPD.	DATE
A	17/08/12	CONSENT ISSUE	AP	PR	APP'D P.DIR

OPERATIONS
ASSET MANAGER
SITE LAYOUT AND DESIGNS INDICATIVE ONLY AND SUBJECT TO CHANGE DURING DETAILED DESIGN DEVELOPMENT
AEE AUGUST 2012



CENTRAL INTERCEPTOR AND ASSOCIATED WORKS
GEOTECHNICAL CONDITIONS
GEOLOGICAL SECTION, MAIN TUNNEL

CAD FILE AEE-MAIN-20	DATE 26-Jul-12
ORIGINAL SCALE A1	CONTRACT No. 0538
AS SHOWN	
DRAWING No. AEE-MAIN-20	ISSUE A



LINK SEWER LS1
 A3 SCALE 1:10000 (H)
 A1 SCALE 1:5000
 0 100 200 300 400 500 (m)

LINK SEWER LS2
 A3 SCALE 1:10000 (H)
 A1 SCALE 1:5000
 0 100 200 300 400 500 (m)

LEGEND

-----	Existing ground profile	WAITEMATA GROUP (MIOCENE)
-----	Inferred geological boundary	Undifferentiated
-----	Tunnel crown	Volcanic-poor flysch facies (East Coast Bays Formation)
-----	Tunnel invert	Muddy flysch facies
-----	Inferred geological boundary	Mixed volcanic-rich and volcanic-poor flysch facies
-----	Envelope 5m above tunnel invert level	Volcanic-rich to debris flow facies including Parnell Grit
-----	Envelope 15m below tunnel invert level	TAURANGA GROUP (PLIOCENE - PLEISTOCENE)
○ WS3	Work Shaft Location	Puketoka Formation Upper (fine-grained) facies
○ AS3	Access Shaft Location	Puketoka Formation Lower (coarse grained) facies
---	Fault (inferred)	Kaawa Formation
▨	Fill	TAURANGA GROUP (HOLOCENE)
▨	Estuarine muds and sand	Undifferentiated Tauranga Group alluvium plus miscellaneous fill
■	Basalt	AUCKLAND VOLCANIC FIELD (PLEISTOCENE)
■	Tuff / Ash / Scoria	

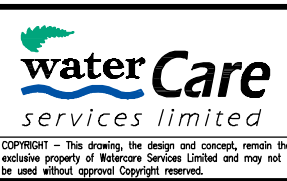
NOTES

1. All dimensions are in metres unless noted otherwise.
2. The ground surface topography is based on Lidar data supplied by ALGGi.

Plot Date: 10-Aug-12 9:46 AM
 File path: P:\0538 - Central Interceptor\04_Drawings\A3_Working\AEE\Consent\General\DWG

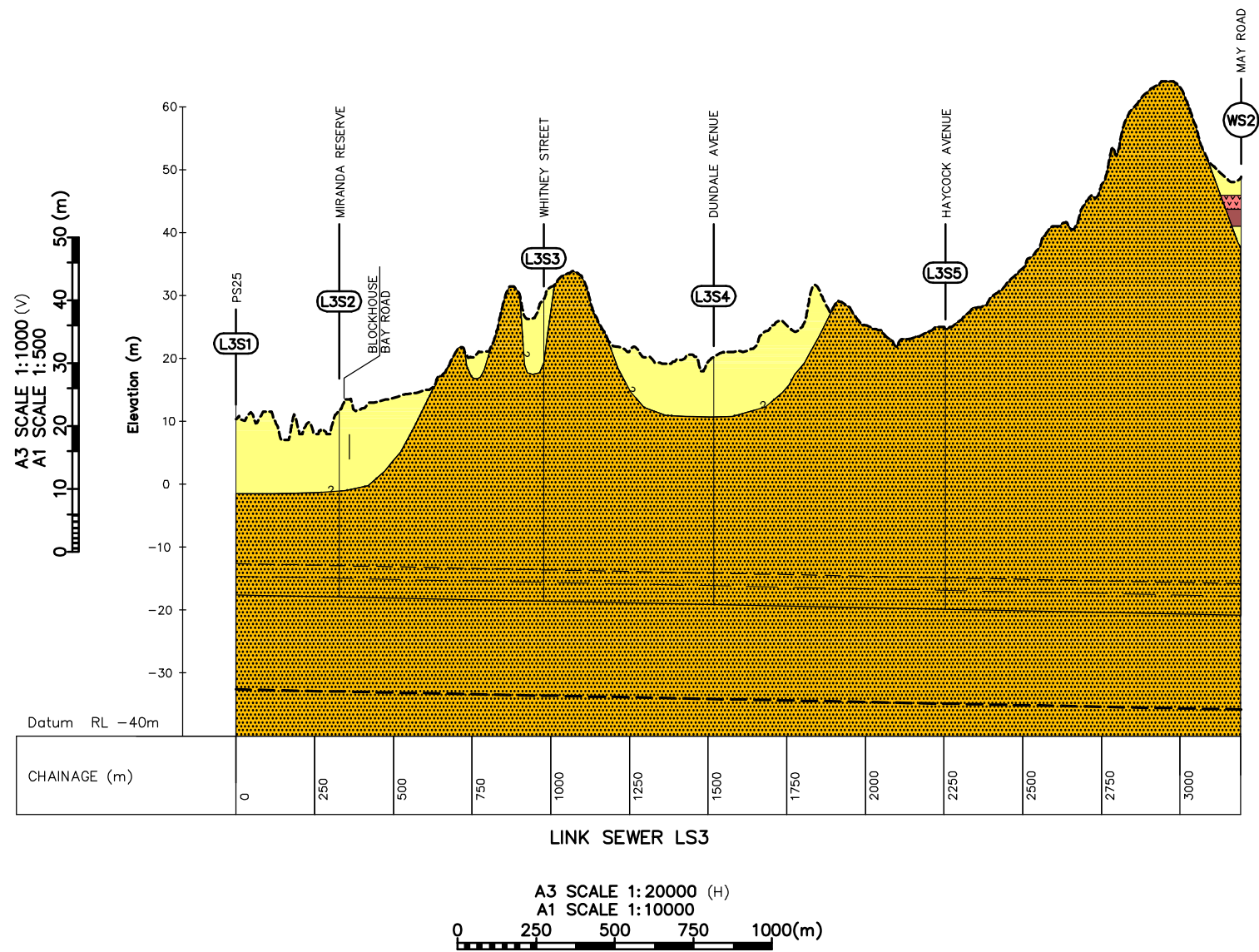
DESIGNED	KJH		
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DRAWN	JATG		
DWG. CHECKED	KJH	08/12	
REV'D P.MGR	JBS		
APP'D P.DIR			
ISSUE	DATE	AMENDMENT	BY APPD.
A	17/08/12	CONSENT ISSUE	AP PR APP'D P.DIR

OPERATIONS
 ASSET MANAGER
AEE AUGUST 2012



CENTRAL INTERCEPTOR AND ASSOCIATED WORKS
GEOTECHNICAL CONDITIONS
 GEOLOGICAL SECTIONS, LINK SEWERS LS1 AND LS2

CAD FILE AEE-MAIN-21	DATE 26-Jul-12
ORIGINAL SCALE A1	CONTRACT No. 0538
AS SHOWN	
DRAWING No. AEE-MAIN-21	ISSUE A



LEGEND

- Existing ground profile
- Inferred geological boundary
- Tunnel crown
- Tunnel invert
- Inferred geological boundary
- Envelope 5m above tunnel invert level
- Envelope 15m below tunnel invert level
- WS3 Work Shaft Location
- AS3 Access Shaft Location
- Fault (inferred)
- Fill
- TAURANGA GROUP (HOLOCENE)
 - Estuarine muds and sand
 - Undifferentiated Tauranga Group alluvium plus miscellaneous fill
- AUCKLAND VOLCANIC FIELD (PLEISTOCENE)
 - Basalt
 - Tuff / Ash / Scoria
- WAITEMATA GROUP (MIOCENE)
 - Undifferentiated
 - Volcanic-poor flysch facies (East Coast Bays Formation)
 - Muddy flysch facies
 - Mixed volcanic-rich and volcanic-poor flysch facies
 - Volcanic-rich to debris flow facies including Parnell Grit
- TAURANGA GROUP (PLIOCENE - PLEISTOCENE)
 - Puketaka Formation Upper (fine-grained) facies
 - Puketaka Formation Lower (coarse grained) facies
 - Kaawa Formation

NOTES

1. All dimensions are in metres unless noted otherwise.
2. The ground surface topography is based on Lidar data supplied by ALGGI.

Plot Date: 10-Aug-12 9:46 AM
 File path: P:\0538 - Central Interceptor\04_Drawings\4.3_Working\AEE\AEE_Consent\General\DWG

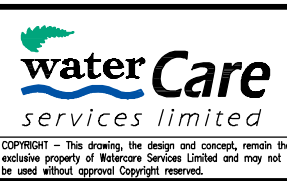
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REV'D P.MGR	JBS				
APP'D P.DIR					
ISSUE	DATE	AMENDMENT	BY	APPD.	BY DATE
A	17/08/12	CONSENT ISSUE	AP	PR	APP'D P.DIR

OPERATIONS

SITE LAYOUT AND DESIGNS INDICATIVE ONLY AND SUBJECT TO CHANGE DURING DETAILED DESIGN DEVELOPMENT

ASSET MANAGER

AEE AUGUST 2012



CENTRAL INTERCEPTOR AND ASSOCIATED WORKS

GEOTECHNICAL CONDITIONS

GEOLOGICAL SECTION, LINK SEWER LS3

CAD FILE AEE-MAIN-22	DATE 26-Jul-12
ORIGINAL SCALE A1	CONTRACT No. 0538
AS SHOWN	
DRAWING No. AEE-MAIN-22	ISSUE A