











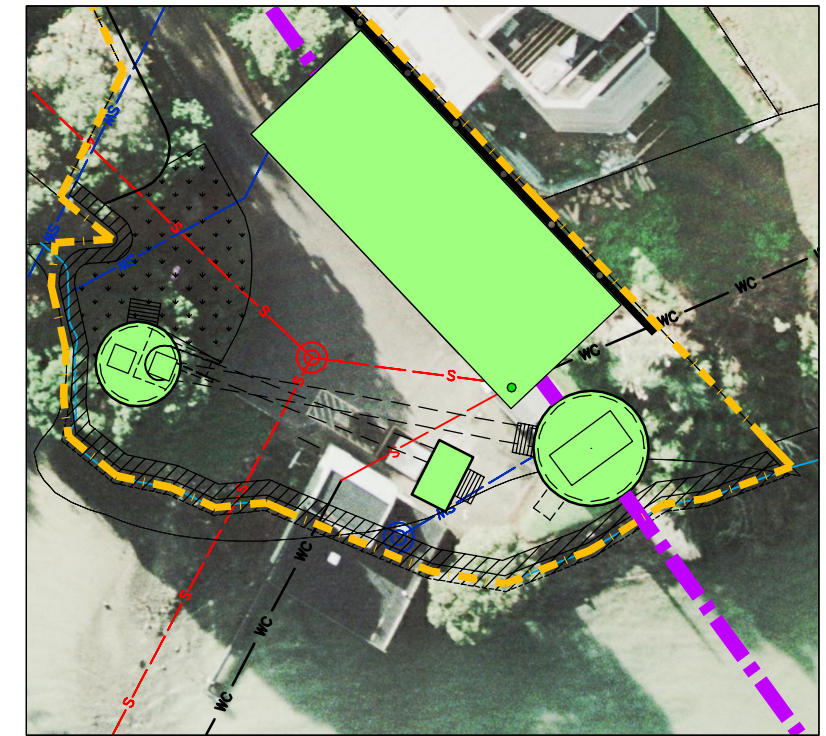
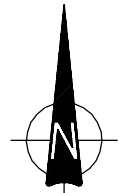


NOTES:

1. FOR HYDRAULIC REASONS THE CONNECTION CHAMBER, DROP SHAFT AND ACCESS SHAFT EXTEND ABOVE THE EXISTING GROUND LEVEL TO 6m RL.
2. DESIGNATION AREA TO BE REDUCED UPON COMPLETION OF WORKS.

LEGEND

-  MAIN TUNNEL
-  LINK SEWER
-  CSD COLLECTOR
-  CONNECTION PIPELINE
-  VENTILATION DUCTS
-  EXISTING RETICULATION SEWER
-  EXISTING TRUNK SEWER
-  EXISTING STORMWATER
-  PROPOSED DESIGNATION BOUNDARY
-  LID/STRUCTURE FLUSH WITH GROUND
-  LID/STRUCTURE ABOVE GROUND
-  MEAN HIGH WATER SPRING



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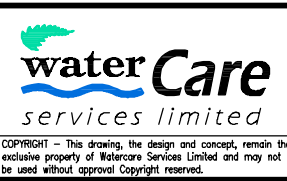
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DRAWN	AP				
DWG. CHECKED	NL				
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APP'D P.DIR	CC				
ISSUE	DATE	AMENDMENT	BY	APPD.	BY DATE
C	18/7/13	ADDRESS NUMBERS ADDED AND AERIAL IMAGE REVISED	AP	JQC	
B	12/07/13	ADDRESS NUMBERS ADDED AND AERIAL IMAGE REVISED	AP	JQC	
A	17/08/12	CONSENT ISSUE	AP	PR	

OPERATIONS

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

ASSET MANAGER

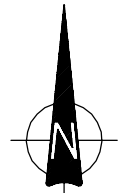
AEE JULY 2013



CENTRAL INTERCEPTOR GENERAL

PS23 (AS6) - PERMANENT WORKS PLAN

CAD FILE AEE-MAIN-8.1_C	DATE 18-Jul-13
ORIGINAL SCALE A1	CONTRACT No. 0538
1:1000 A3	
DRAWING No. AEE-MAIN-8.1	ISSUE C



- LEGEND**
- - - MAIN TUNNEL
 - - - LINK SEWER
 - - - CSO COLLECTOR
 - = = = = CONNECTION PIPELINE
 - - - - VENTILATION DUCTS
 - - - EXISTING RETICULATION SEWER
 - - - WC EXISTING TRUNK SEWER
 - - - SW EXISTING STORMWATER
 - - - PROPOSED DESIGNATION BOUNDARY
 - LID/STRUCTURE FLUSH WITH GROUND
 - LID/STRUCTURE ABOVE GROUND
 - - - MEAN HIGH WATER SPRING



Plot Date: 18-Jul-13 3:08 p.m.
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ISSUE	DATE	AMENDMENT	BY	APPD.	BY	DATE
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B	12/07/13	ADDRESS NUMBERS ADDED AND AERIAL IMAGE REVISED	AP	JQC		
A	17/08/12	CONSENT ISSUE	AP	PR	APP'D P.DIR	CC

DESIGNED	NL
DES. CHECKED	JS
DRAWN	AP
DWG. CHECKED	NL
REV'D P.MGR	JS
APP'D P.DIR	CC
OPERATIONS SITE LAYOUT AND DESIGNS INDICATIVE ONLY AND SUBJECT TO CHANGE DURING DETAILED DESIGN DEVELOPMENT	
ASSET MANAGER AEE JULY 2013	

waterCare
services limited

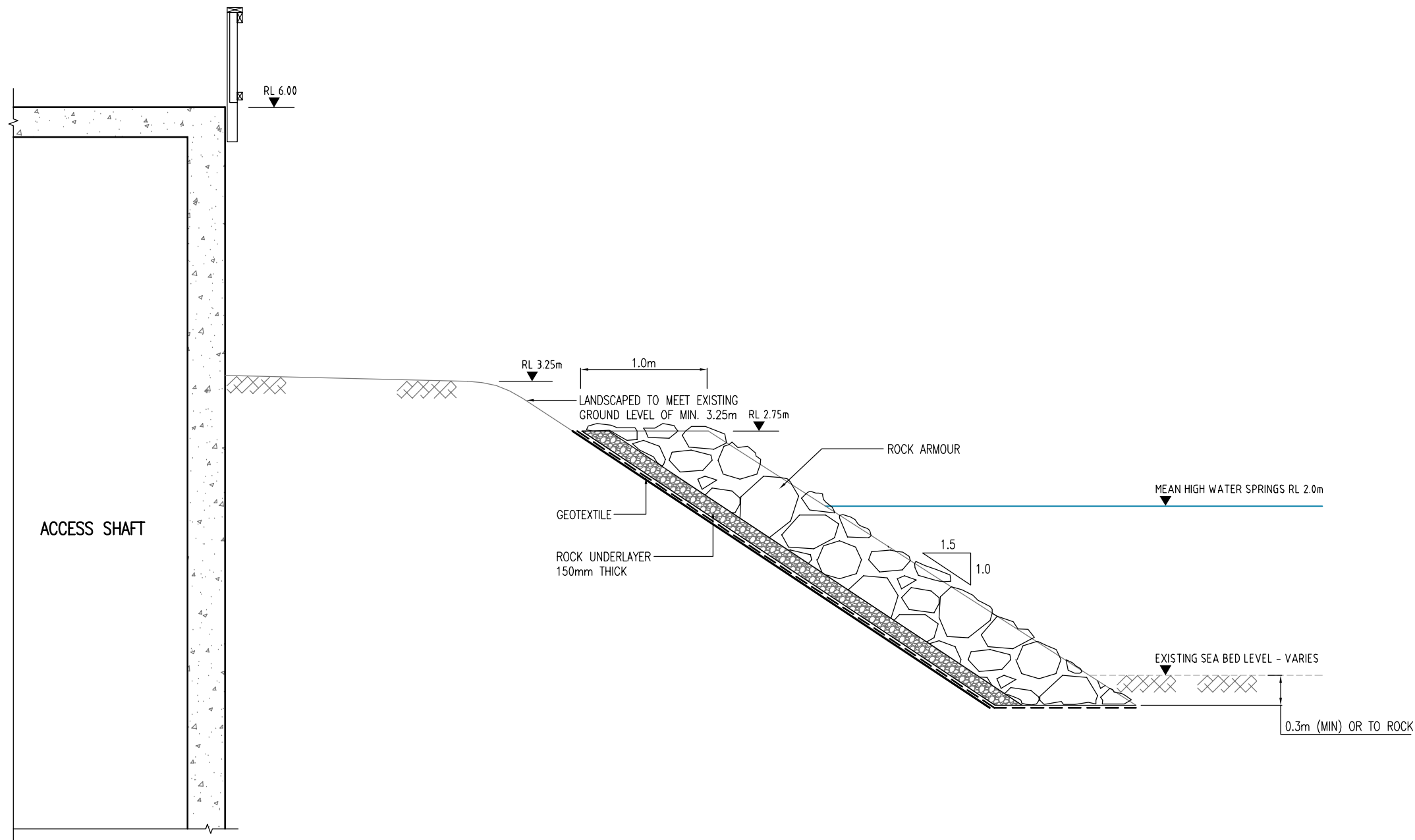
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CENTRAL INTERCEPTOR GENERAL
PS23 (AS6) - CONSTRUCTION WORKS PLAN

CAD FILE AEE-MAIN-8.2_C	DATE 18-Jul-13
ORIGINAL SCALE A1	CONTRACT No. 0538
1:1000 A3	
DRAWING No. AEE-MAIN-8.2	ISSUE C

NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. ROCK ARMOUR GRADE:
D_n50=0.35m, W50=113kg
3. LEVEL DATUM: LINZ AUCKLAND DATUM 1946.



TYPICAL SEAWALL DETAIL
SCALE 1:50 A1

Plot Date: 10-Aug-12 9:45 AM
 File path: P:\0538 - Central Interceptor\04_Drawings\4.3_Working\AEE_VEE_Consept\General\DWG

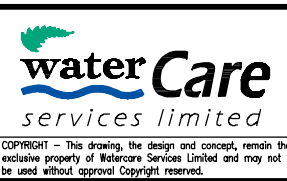
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ISSUE	DATE	AMENDMENT	BY	APPD.	BY DATE
A	17/08/12	CONSENT ISSUE	AP	PR	

OPERATIONS

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

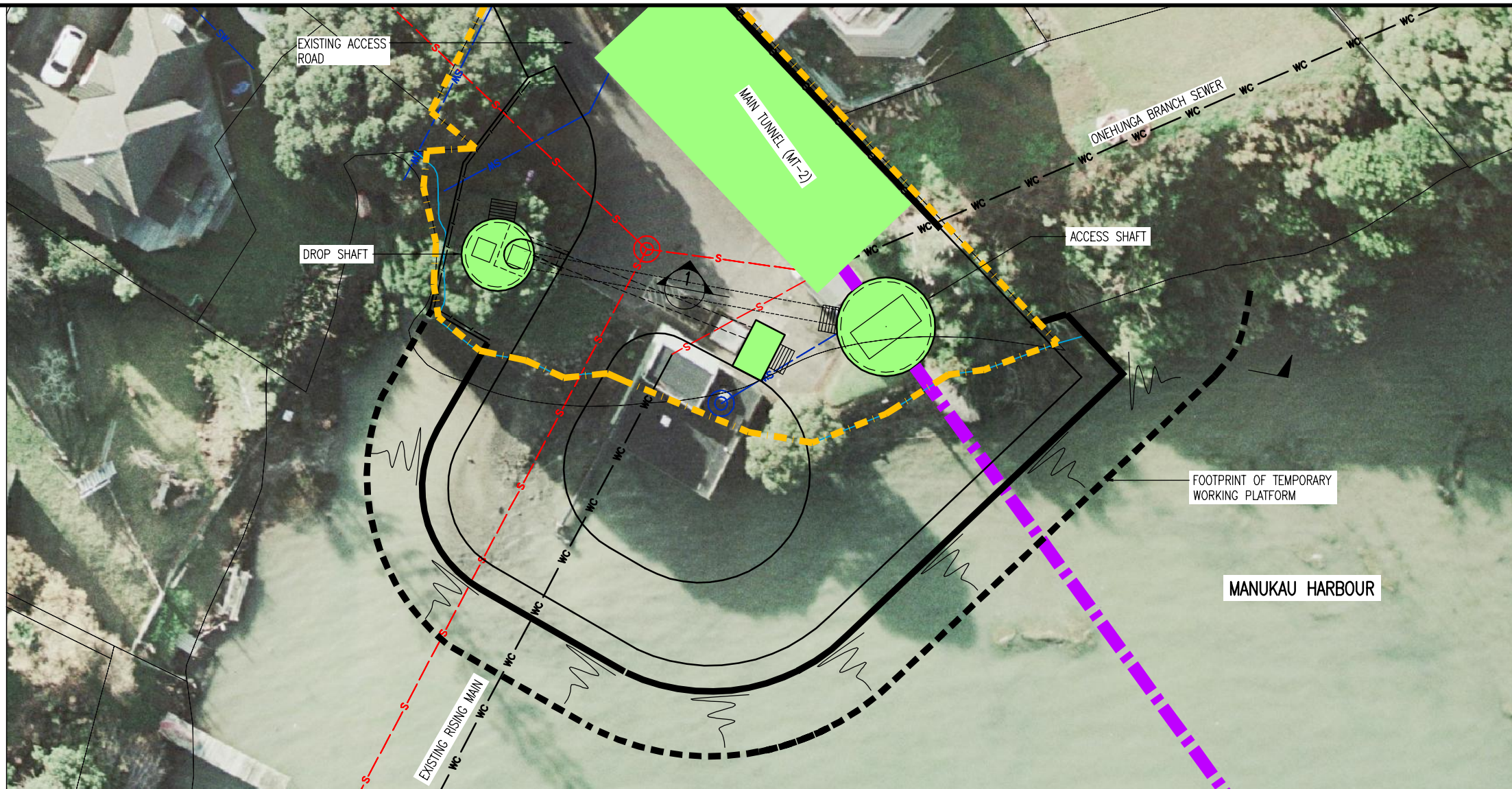
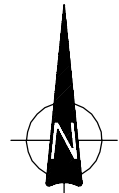
ASSET MANAGER

AEE AUGUST 2012

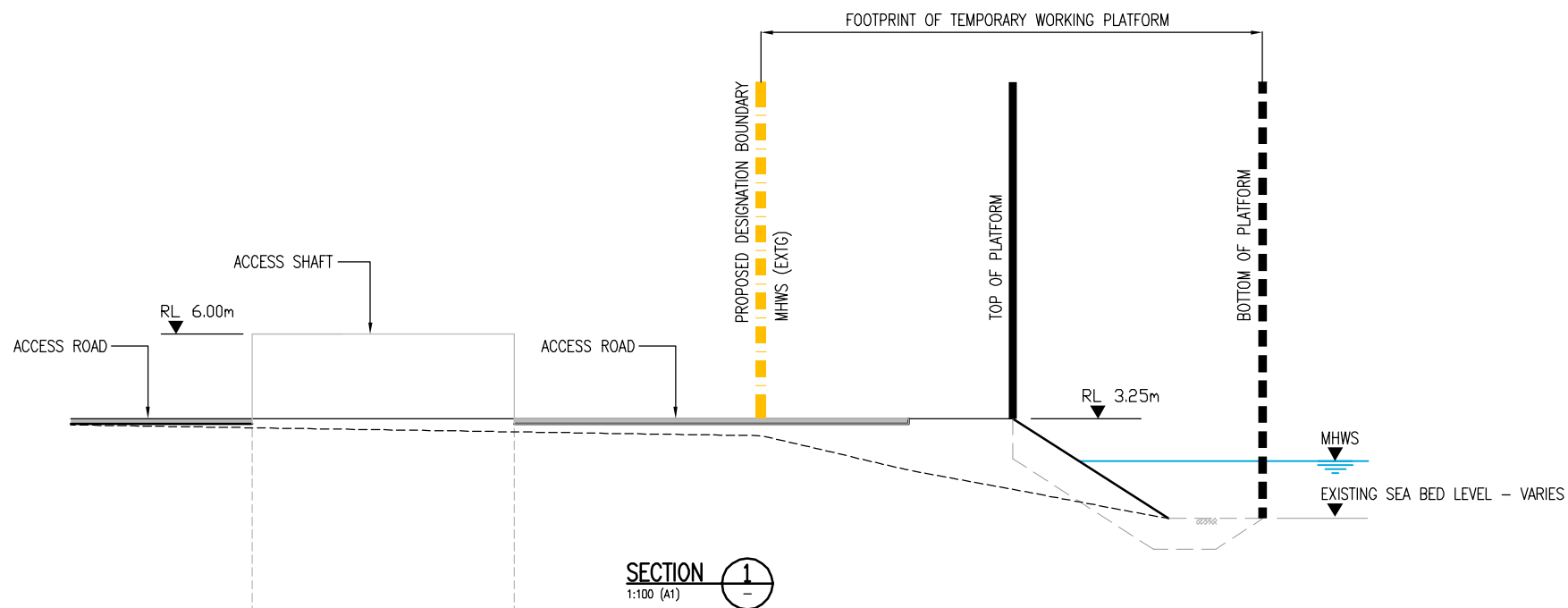


CENTRAL INTERCEPTOR
PS23
SEAWALL DETAIL

CAD FILE AEE-MAIN-8.3	DATE 26-Jul-12
ORIGINAL SCALE A1	CONTRACT No. 0538
1:50 A3	
DRAWING No. AEE-MAIN-8.3	ISSUE A



PLAN
SCALE 1:200 A1



Plot Date: 22-Jul-13 9:28 a.m.
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DES. CHECKED	JS				
DRAWN	AP				
DWG. CHECKED	NL				
B	18/07/13	AERIAL IMAGE REVISED	AP	JQC	REV'D P.MGR
A	17/08/12	CONSENT ISSUE	AP	PR	APP'D P.DIR
ISSUE	DATE	AMENDMENT	BY	APPD.	BY DATE

OPERATIONS
ASSET MANAGER

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

AEE JULY 2013



CENTRAL INTERCEPTOR GENERAL
EXTENT OF TEMPORARY WORKS PLATFORM

CAD FILE AEE-MAIN-8.4	DATE 26-Jul-12
ORIGINAL SCALE A1	CONTRACT No. 0538
AS SHOWN	
DRAWING No. AEE-MAIN-8.4	ISSUE B

A08301A_217_AS6_PS23_Hillsborough_Bay_revC.dgn





View from Northern end of beach beside Bluff Terrace looking North



View from Taylor's Bay Road Reserve looking North





View on site, looking north-east



View on site, looking towards existing pohutukawa and CMA



View on site, looking towards access road

A08301A_317_AS6_PS23_Hillsborough_Bay_revC.dgn



Note: Site layout indicative only. Final layout dependant on Construction Management Plan

A08301A_417_AS6_PS23_Hillsborough_Bay_reva.dgn



RETAINING WALL
 AIR TREATMENT FACILITY WITH GREEN ROOF
 VENT STACK
 ACCESS SHAFT

ALL WEATHER TRAFFICABLE ACCESS
 DROP SHAFT
 REINSTATED SEAWALL

Note: Site layout indicative only. Final layout dependant on Site Reinstatement Plan



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N

0 30m

Scale: 1:1000 @ A3

Data Sources: Site LIDAR (Nov. 2010), Aerials (2012) - AECOM
 Auckland Council aerials (2010), BML
 Projection: NZTM

	Large Trees / Lawn		Existing Footpath
	Small Trees / Shrubs / Lawn		Potential New Accessway
	Wetland Plants		Photomontage Viewpoint (refer Figure 36)
	Low Level Ground Cover / Grasses		Aggregate surface treatment

CENTRAL INTERCEPTOR AND ASSOCIATED WORKS
Pump Station 23 (Frederick Street)
Permanent Works Concept
 | Date: 05 July 2013 | Revision: D |
 Graphic prepared for Watercare Services Ltd by Boffa Miskell Limited
 Author: bernie.ranum@boffamiskell.co.nz | Checked: J.Goodwin

Figure 35

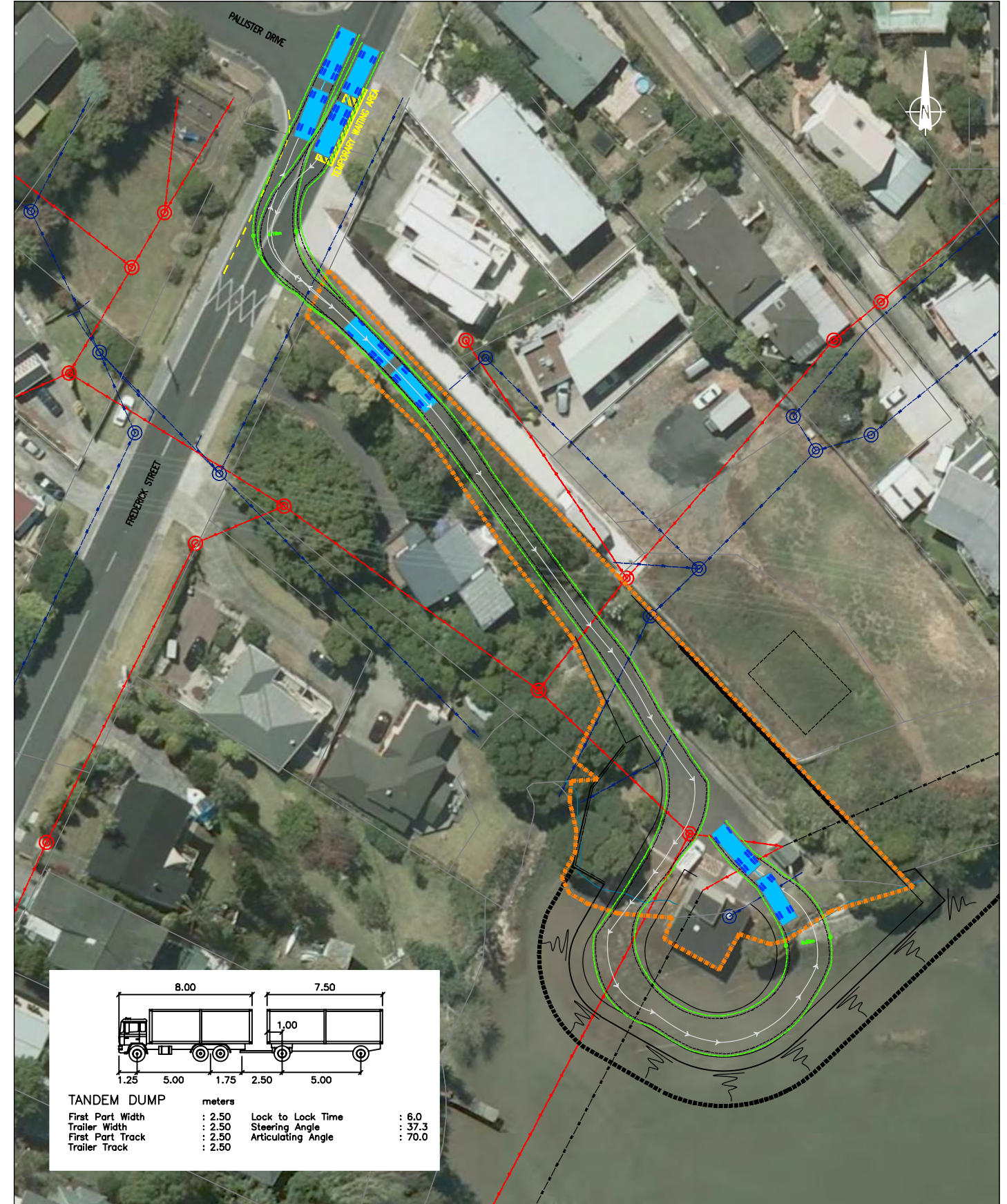
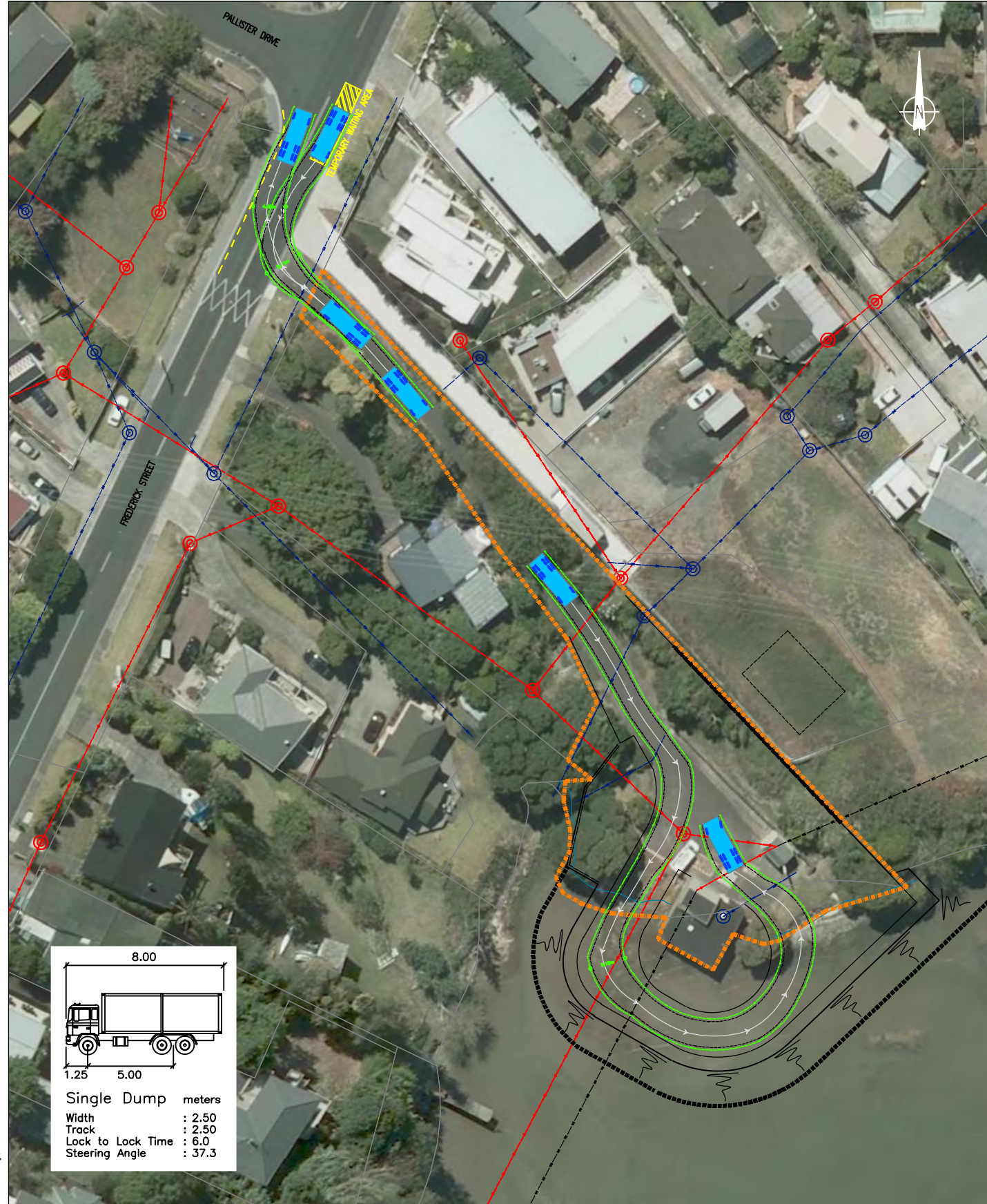


Existing View



Proposed View - Indicative

Unallocated Page



Wednesday, 5 December 2012

REVISION	DATE	DESCRIPTION
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—	—	—
—	—	—
—	—	—
—	—	—

**Watercare Central Interceptor
PS23 (AS6) - Truck Tracking**



DRAWN: SP
DATE: 05.12.2012
SCALE: 1:750@A3
DWG NO:11117A52A



16.v2



Wednesday, 5 December 2012

REVISION	DATE	DESCRIPTION
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—	—	—
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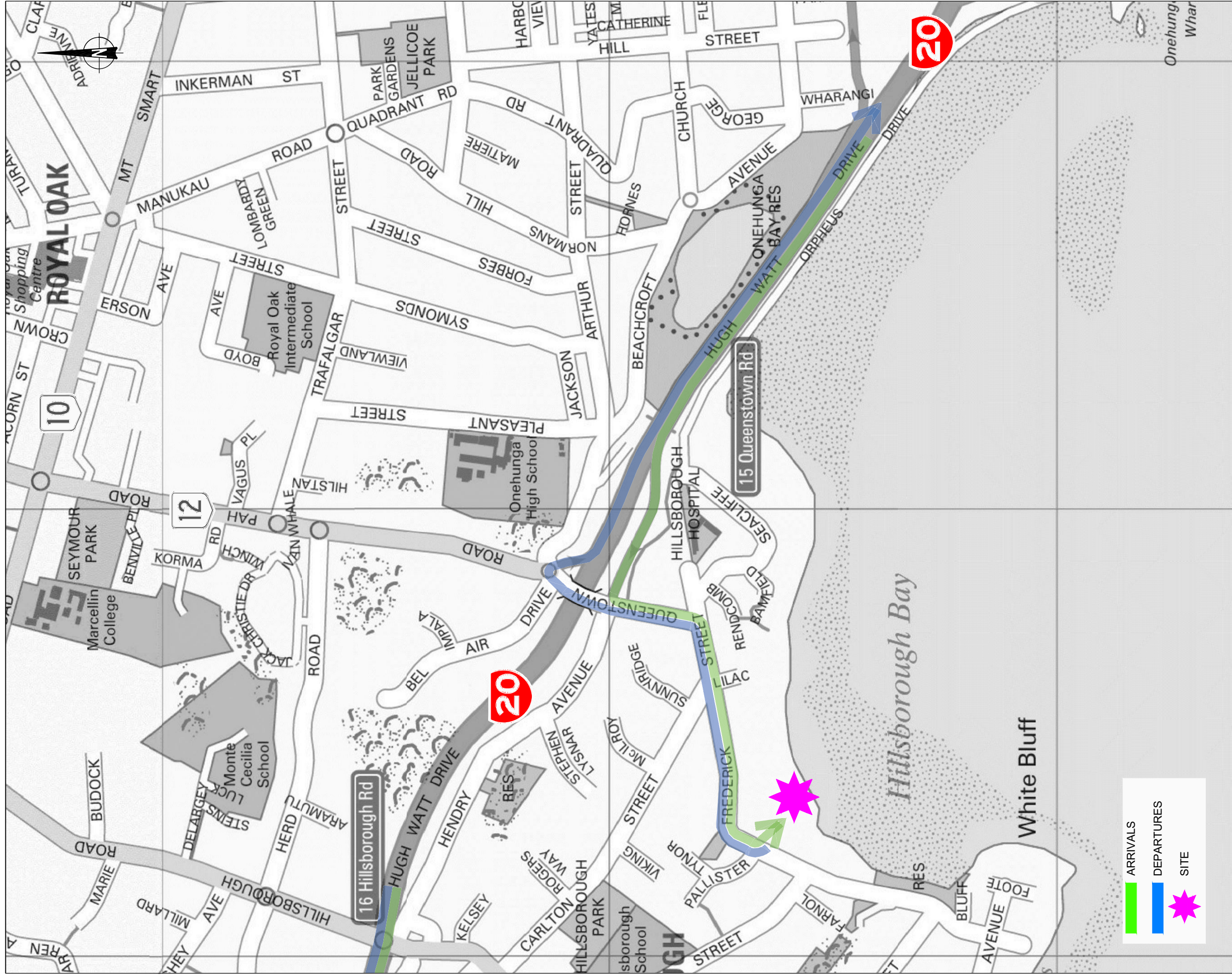
Watercare Central Interceptor
PS23 (AS6) - Truck Tracking (During Site Construction)



DRAWN: SP
 DATE: 05.12.2012
 SCALE: 1:250@A3
 DWG NO:11117A52A



16a



Friday, 29 June 2012

Watercare - PS23 (AS6)

Truck Routes

Traffic Design Group



17

SCALE: N.T.S