

Build King - Richwell Engineering Joint Venture

Contract No. ND/2019/01 Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works

Cartographic and Photographic Recording Report

4 January 2021

Project No.: 0560121



Document details	The details entered below are automatically shown on the cover and the main page footer. PLEASE NOTE: This table must NOT be removed from this document.	
Document title	Contract No. ND/2019/01 Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works	
Document subtitle Cartographic and Photographic Recording Report		
Project No.	0560121	
Date	4 January 2021	
Version	1.0	
Author	Raymond Ng	
Client Name	Build King - Richwell Engineering Joint Venture	

				ERM approva	al to issue	
Version	Revision	Author	Reviewed by	Name	Date	Comments
Draft	00	Ng Chun Lam	Peggy Wong	Frank Wan	24.11.2020	Text
Draft	01	Ng Chun Lam	Peggy Wong	Frank Wan	04.01.2021	Text
				1		
			*** =		the at a disk the p photo-products	
	-	-	-			
	-	-				
				-		-

Signature Page

04 January 2021

Contract No. ND/2019/01 Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works

Cartographic and Photographic Recording Report

Frank Wan Partner

Marchitt.

ERM-Hong Kong, Limited 2507, 25/F One Harbourfront, 18 Tak Fung Street, Hunghom, Kowloon Hong Kong

© Copyright 2021 by ERM Worldwide Group Ltd and / or its affiliates ("ERM"). All rights reserved. No part of this work may be reproduced or transmitted in any form, or by any means, without the prior written permission of ERM

CONTENTS

1.	INTRO	DUCTION 1	
	1.1 1.2 1.3	Background	
2.	METHO	DDOLOGY3	,
	2.1 2.2 2.3	Cartographic Recording	,
3.	FINDIN	GS5	į
	3.1 3.2	Findings from Cartographic Recording	5
4.	BIBLIC	GRAPHY6	ì
APPE	NDIX A	FINDINGS EXTRACTED FROM THE APPROVED EIA REPORT	
APPE	NDIX E	DRAWINGS FROM THE CARTOGRAPHIC SURVEY	
APPE	ENDIX C	PHOTOGRAPHIC RECORDS FROM THE PHOTOGRAPHIC SURVEY	
Table	of Table 1.1: Gr	aves Required for Cartographic and Photographic Survey1	l
Table	3.1: Gr	aves Required for Cartographic Survey	5
Iable	; J.Z. GI	aves required for a notographic outroy	

INTRODUCTION

1.1 Background

The Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-175/2013) (approved EIA Report) for the North East New Territories New Development Areas (the Project) was approved on 18 October 2013 and an Environmental Permit (EP) was granted on 21 November 2013 and amended on 27 January 2017 (EP No: EP-467/2013/A) for the construction and operation of the Project.

The construction of the Project has been divided into a series of Works Contracts and Contract No. ND/2019/01 (the Contract) covers the Site Formation and Infrastructure Works for Kwu Tung North New Development Areas (hereinafter referred to as "the Contract"). The Contract works commenced in December 2019 and will take about 73 months to complete. Build King-Richwell Engineering Joint Venture (the Contractor) has been commissioned by the Civil Engineering and Development Department (CEDD) to carry out this construction works under this Contract.

As stated in Condition 2.7 of the EP of the Project, photographic and cartographic records of directly impacted cultural/ historical landscape feature at locations KT44 and KT52 ⁽¹⁾ as shown in Figure 2b of the EP (see Appendix A) shall be kept by the Permit Holder and a copy of the record shall be deposited with the Director of Environmental Protection prior to commencement of the respective removal or relocation works.

ERM-Hong Kong, Limited (ERM) has been commissioned by the Contractor to carry out the cartographic and photographic recording of the cultural/historical landscape feature at locations KT44 and KT52 fell within the works area boundary and to be impacted by the construction works under the Contract.

This Cartographic and Photographic Recording Report is prepared to present the findings of the cartographic and photographic records under the Contract.

1.2 Scope

The cartographic and photographic recording work covers two graves as listed in *Table 1.1* below. For their locations, please refer to Figure 2b of the EP in Appendix A.

Table 1.1: Graves Required for Cartographic and Photographic Recording

Site Code	Site Name	Location
KT44	Man Clan Grave of Chau Tau Tsuen	North of Pak Shek Au, Kwu Tung
KT52	Man Clan Grave of Chau Tau Tsuen	North of Pak Shek Au, Kwu Tung

1.3 Structure of the Report

Following this introductory section, the remainder of this Report comprises the following sections:

Section 2 explains the methodology of the cartographic and photographic recording work;

(1) KT38 mentioned in the EP is outside the works area boundary under this Contract.

www.erm.com Version: 1.0 Project No.: 0560121 0560121 Grave Report clean.docx

Section 3 presents the findings from the cartographic and photographic records; and

Section 4 lists the bibliographies cited in this Report.

The following Appendixes are also included:

Appendix A Findings Extracted from the Approved EIA Report & Figure Extracted from EP

Appendix B Drawings from the Cartographic Recording Work

Appendix C Photographic Records from the Photographic Recording

Cartographic and Photographic Recording Report

METHODOLOGY

2.1 Cartographic Recording

The following measured drawings are prepared to show the existing condition of the cultural/ historical landscape features to be impacted by the Contract:

- Site plan showing the location of the structures/features to 1:500 with key plan to 1:20,000.
- 2. Floor plan(s) showing the structure/feature and any important features or area adjoining the structure/feature to 1:20 or 1:50, as appropriate.
- 3. At least two cross-sections through the structure/feature sufficient to show the architectural characteristics of the structure/feature to 1:10 or 1:20, as appropriate. Elevation of each face of the structure/feature (except the well) to 1:10 or 1:20, as appropriate.
- 4. Architectural features/details to scale 1:10 or 1:5, as appropriate together with location plans will be provided. All the features should be numbered and listed on a cross-referenced checklist together with the reference number of their photographs (as recorded in the photographic survey) and their location plans and detailed drawings.
- 5. Construction details will be noted, such as type of brick bonding, joints in granite features etc., to scale 1:10 or 1:5, as appropriate. The number of courses of brickwork or masonry work will also be recorded on the appropriate elevation plan(s) (if feasible). This also applies to the detailed drawings of other architectural features/details.
- 6. The level of detail (such as depth, interior and construction details, water level etc.) for drawings of the well will be subject to site condition.
- All the plans will show North point.
- 8. Drawings will be annotated with descriptions of the construction materials used in the construction of the principal elements, e.g. paving, walls, etc.

2.2 Photographic Recording

All the photographic recording is done in digital format (of at least 8Mb). The following recording is prepared:

- The overall site environment including the siting of the item(s) to be surveyed and its ancillary building(s) and structure(s) together with its/ their immediate surroundings, the general landscape, including important trees and types of paving.
- The exterior of each structure/feature in detail with the following shots, using the appropriate lenses for the task, including perspective correction, macro, wide-angle as necessary for the followings:

Exterior

- (a) identification view including the surrounding area;
- (b) each of all external elevations [using a perspective correction (PC) lens as appropriate];
- (c) oblique views of the structure;

CONTRACT NO. ND/2019/01 KWU TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

Cartographic and Photographic Recording Report

- (d) close up of the stone tablets and other inscriptions;
- (e) details of decorations;
- (f) close up of any other important features;

Construction Details

- (g) close up of any notable construction details (if feasible) such as type of brick bonding; and
- (h) building materials used in the construction.

All the photographic records are prepared at least 4"x6" in size and presented with the location plans (in A4-size) properly captioned in both Chinese and English. All the prints are referenced to their location on key drawings and numbered and cross-reference for easy retrieval.

2.3 Reporting

This Cartographic and Photographic Recording Report is prepared following AMO's Requirements for Cartographic Survey and Photographic Survey. A copy of this report will be kept by the Permit Holder and a copy of the record will be deposited with the Director of Environmental Protection prior to commencement of the respective removal or relocation works.

FINDINGS

Background information of the graves have been presented in the approved EIA report (Register No.: *AEIAR-175/2013*) for the Project. Relevant pages are extracted and attached in Appendix A. The cartographic and photographic recording findings are presented in *Sections 3.1* and 3.2, and in Appendices B and C, respectively.

3.1 Findings from Cartographic Recording

Records from the cartographic recording work are provided in *Table 3.1*. Drawings are presented in Appendix B.

Table 3.1: Graves Required for Cartographic Recording

Site Code	Site Plan	Floor Plan	Side View	Cross Section	Architectural Features/ Details
KT44	Appendix B- Figure 1	Appendix B- Figure 1-1	Appendix B- Figure 1-2	Appendix B- Figure 1-3	-
KT52	Appendix B- Figure 1	Appendix B- Figure 2-1	Appendix B- Figure 2-2	Appendix B- Figure 2-3	-

Note:

(a) Scale stated in drawings (figures) is as in A4 paper.

3.2 Findings from Photographic Recording

Records from the photographic survey are provided in *Table 3.2*. Photographic records from the survey are presented in Appendix C.

Table 3.2: Graves Required for Photographic Recording

Site Code	Overall View	Oblique View/Side View/Rear View and Detail View (associated features)
KT44	Appendix C-Photo 1	Appendix C Photos 1-1 to 1-4
KT52	Appendix C-Photo 2	Appendix C Photos 2-1 to 2-3

4. BIBLIOGRAPHY

Civil Engineering and Development Department. 2010. Agreement No. CE 61/2007 (CE) North East New Territories New Development Areas Planning and Engineering Study – Investigation: Final Environmental Impact Assessment Report. [Available online] https://www.epd.gov.hk/eia/register/report/eiareport/eia-2132013/eia/html/eia-index.htm

Antiquities and Monuments Office. "Requirements for Cartographic Survey of Historic Buildings" (As at March 2010)

Antiquities and Monuments Office. "Requirements for Photographic Survey of Historic Buildings" (As at September 2010)

Extract of Figure from Environmental Permit No. EP-467/2013/A

https://www.epd.gov.hk/eia/register/permit/latest/figure/vep5232016figure2b.pdf

CONTRACT NO. ND/2019/01 KWU	TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS
APPENDIX A	FINDINGS EXTRACTED FROM THE APPROVED EIA
	REPORT

Site Code: KT44	Site Name: Man clan grave of Chau Tau Tsuen
Full Address: North of Pak Shek Au, Kwu Tung.	Plan No.: Plan 1m
Orientation: East	Category: Landscape Feature (Clan Grave)

Age of Structure: Renovated in 1993.

Surrounding Environment: Surrounded by light industry factories structures or village building structures

Historical Appraisal:

The deceased is the wife from the Man clan. The Man clan is one of the five major clan groups in the New Territories dominating the San Tin region. This grave is of similar design to KT52, thus, it belongs to the same clan.

Associated historical/cultural events or individuals: Man clan

Inscriptions:



Architectural Appraisal: Arm-chair shape with a headstone

Existing Condition: Well maintained.

Past and Present Uses: Grave

Notes on any Modifications: Finished with modern materials

Photographic Records:



General View

Note: "×" = text illegible

Site Code: KT52	Site Name: Man clan grave of Chau Tau Tsuen
Full Address: North of Pak Shek Au	Plan No.: Plan 1m
Orientation: Southeast	Category: Landscape Feature (Clan Grave)

Age of Structure: 1796 – 1820 (1936, 1993)

Surrounding Environment: Surrounded by light industry factories structures or village building structures

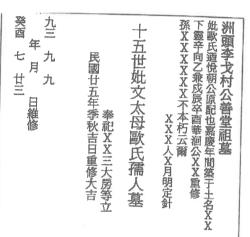
Historical Appraisal:

The deceased is the wife of the 15th generation of the Man clan. The Man clan is one of the five major clan groups in the New Territories dominating the San Tin region.

Associated historical/cultural events or individuals: Man clan

Inscriptions:





Architectural Appraisal: Arm-chair shape

Existing Condition: Well maintained and in excellent condition.

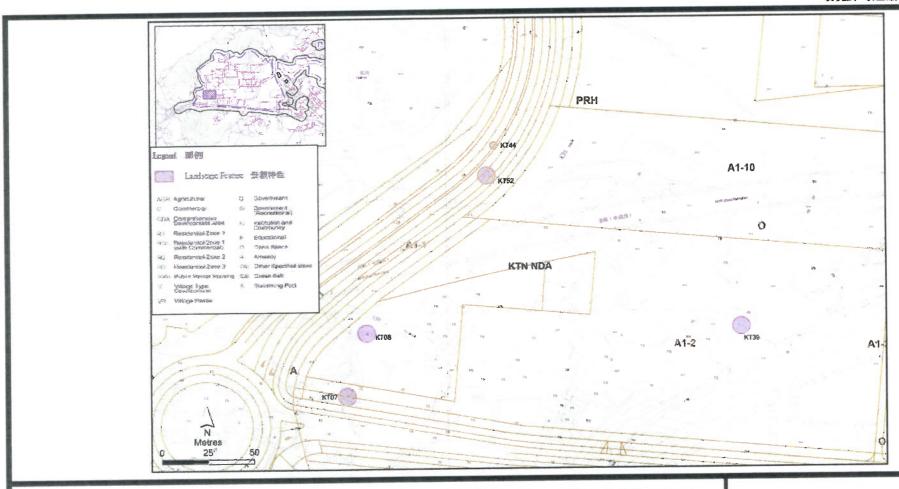
Past and Present Uses: Grave

Notes on any Modifications: Finished with modern materials

Photographic Records:



General View



Project Title:

Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung

Interchange and Pak Shek Au Interchange Improvement

古洞北新發展區P1和P2路 (新路) 和相關的新古洞交匯處 (新路) 與白石凹交匯處改善工程

Figure 2b:

工程名稱:

Location Plan for Identified Built Heritage Items and Landscape Features

圖2b:

文物建築及景觀特色位置

(Extracted from Drawing No. Plan 1m of North East New Territories New Development Area Planning and Engineering Study)

(摘錄自新界東北新發展區規劃及工程研究 圖: 1m)

Environmental Permit No:

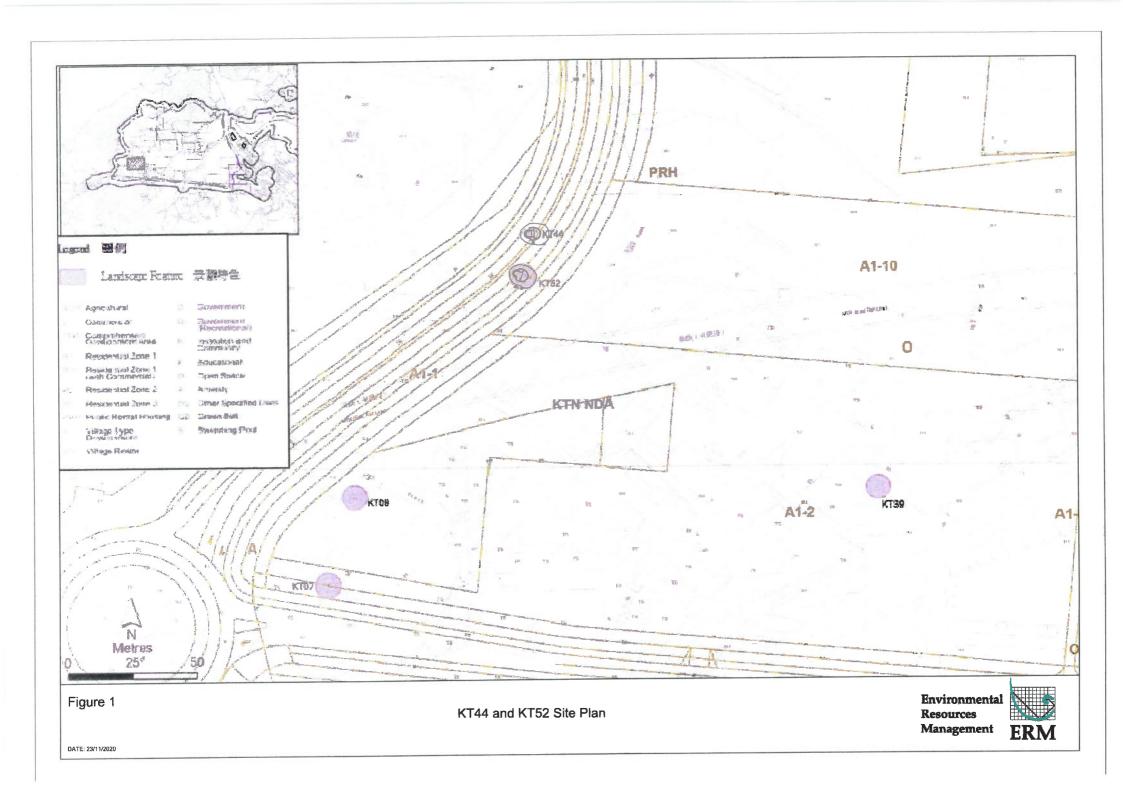
EP-467/2013/A

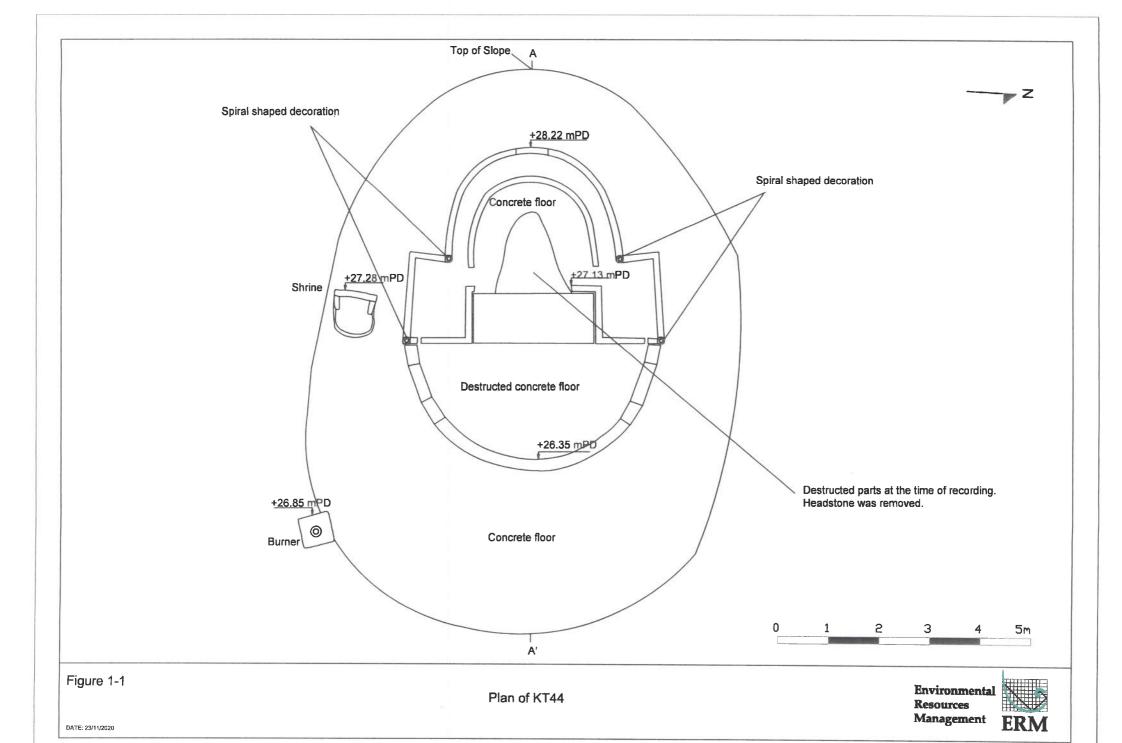
環境許可證編號:

EP-467/2013/A



APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX B DRAWINGS FROM THE CARTOGRAPHIC SURVEY					
APPENDIX R DRAWINGS FROM THE CARTOGRAPHIC SURVEY	ALL ENDIN D	DIGITING FILES	II THE GARTOON	ATTIO GOTTE	1
	APPENINY R	DRAWINGS FROM	A THE CARTOGR	APHIC SUBVE	v





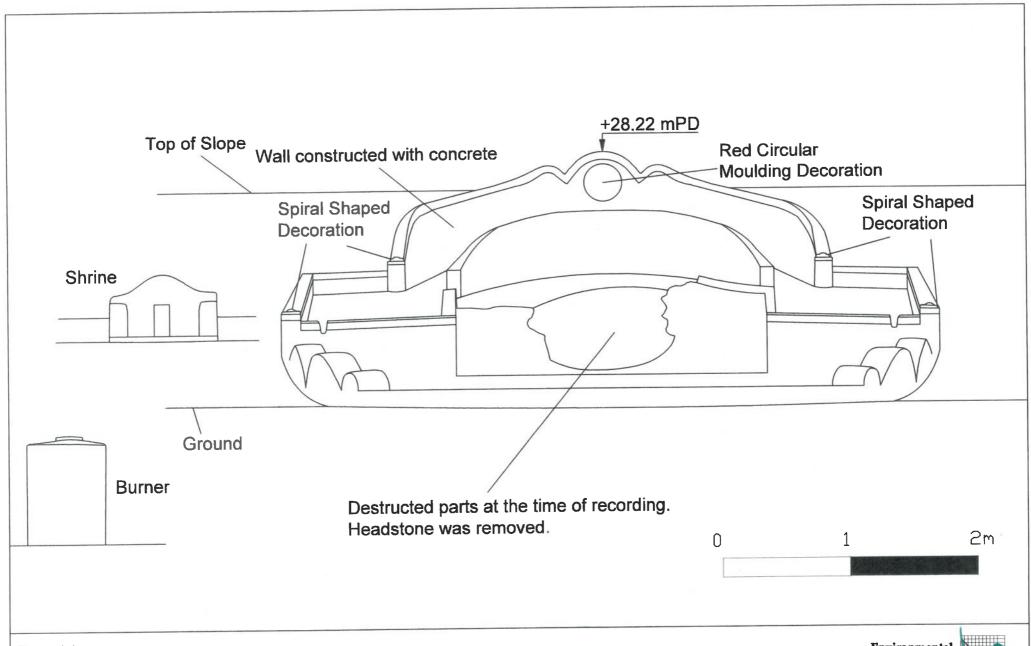
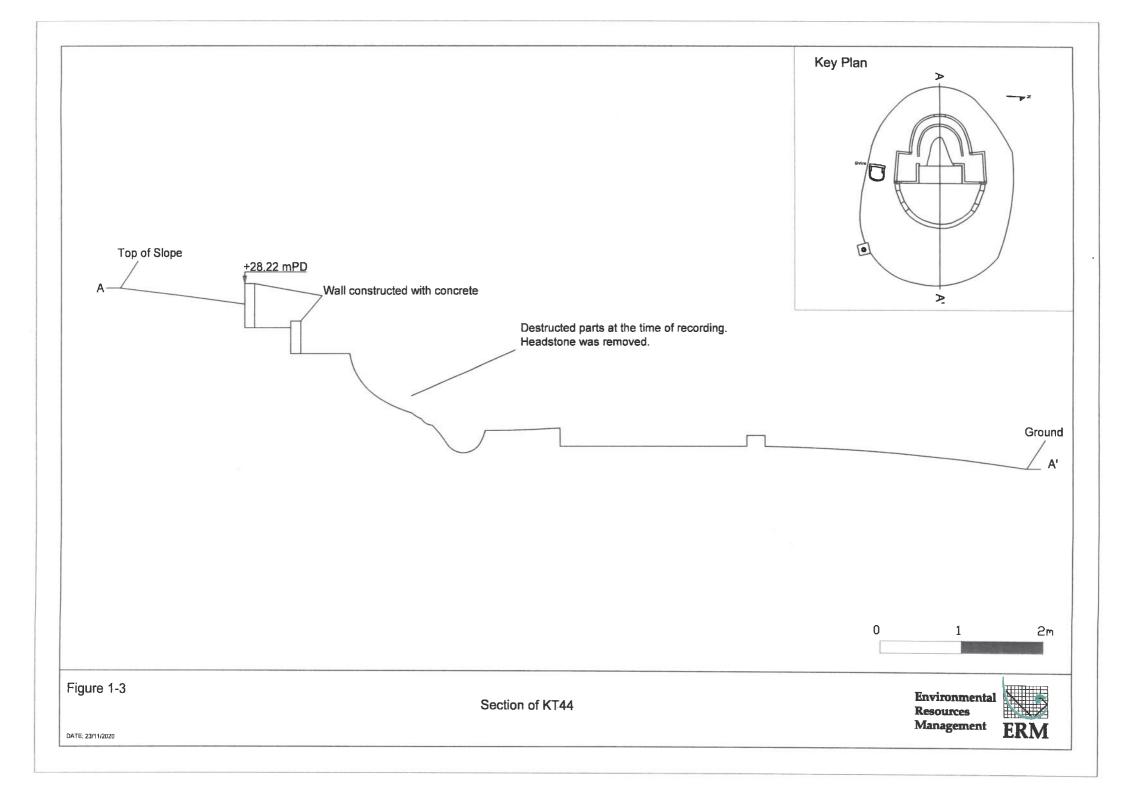


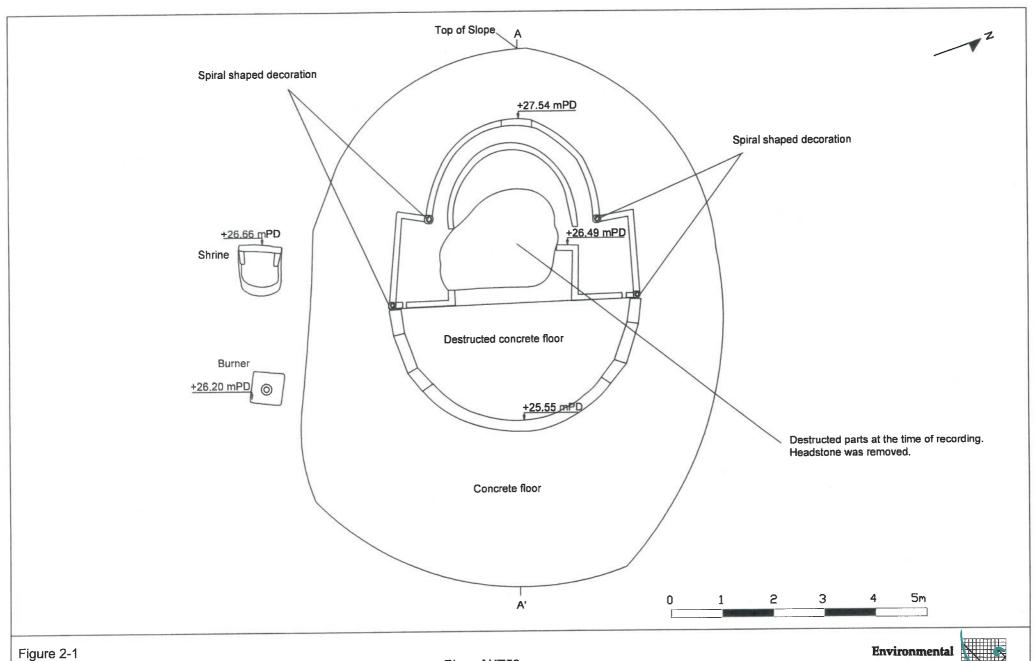
Figure 1-2

Sideview (East to West) of KT44

Environmental Resources Management





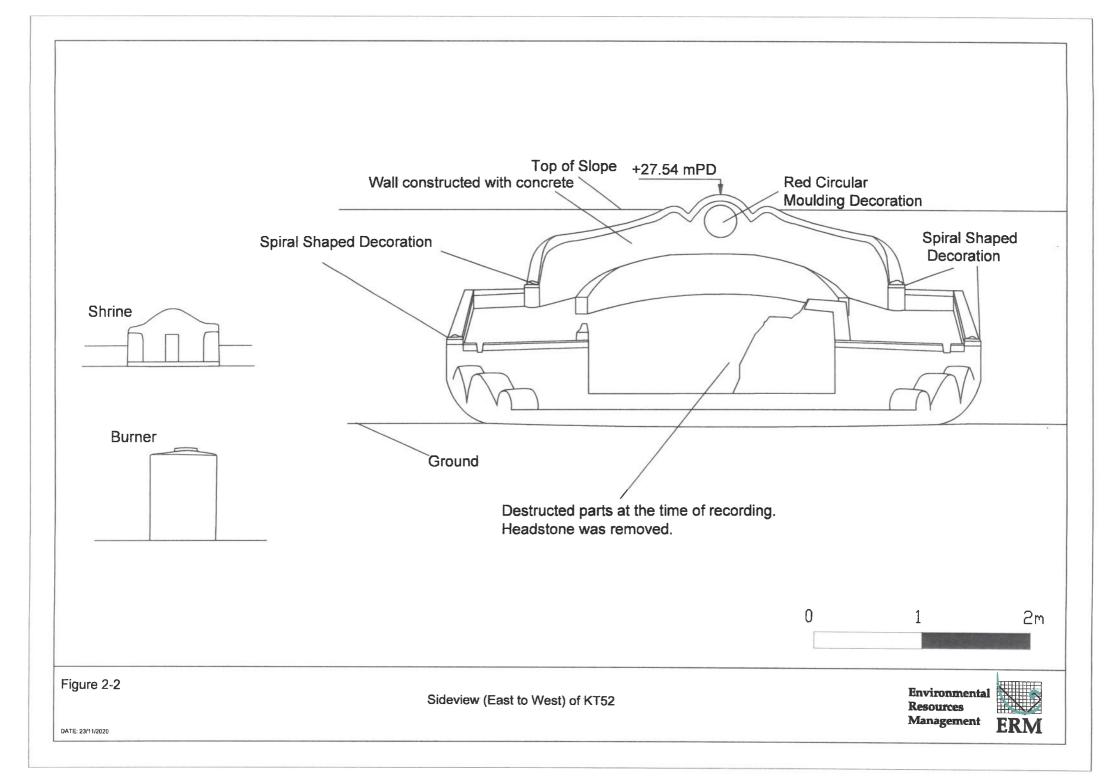


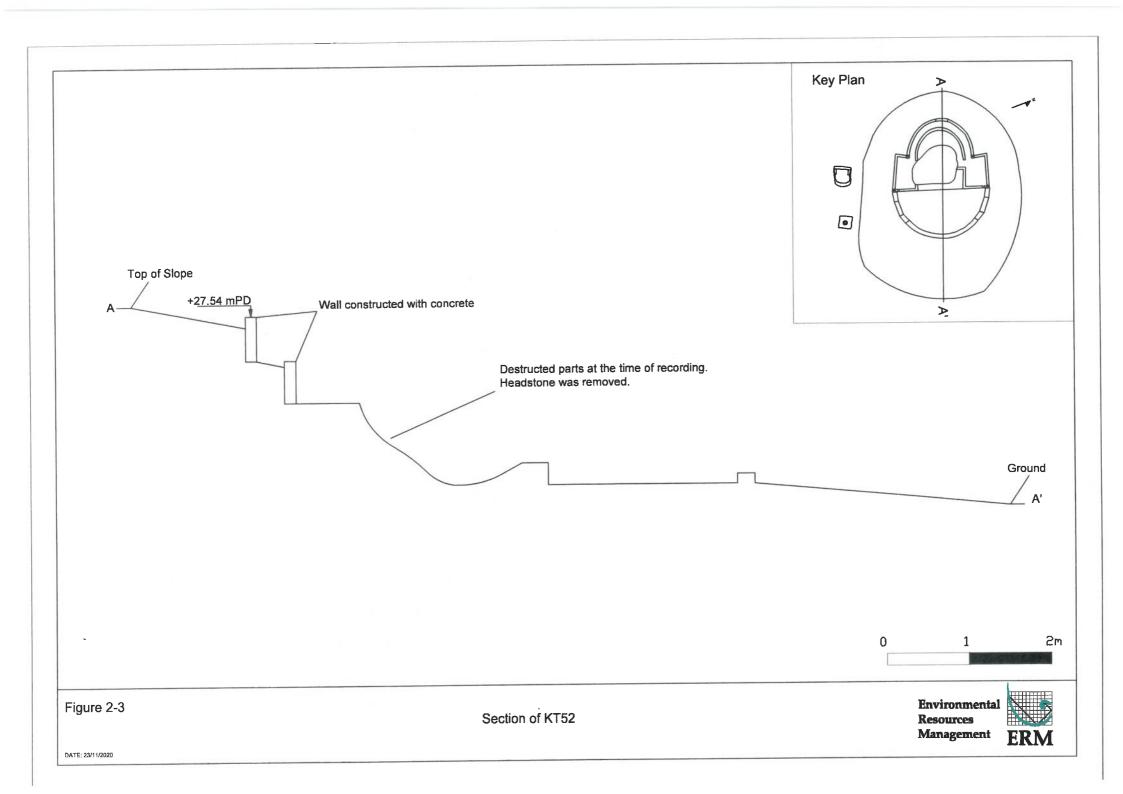
DATE: 23/11/2020

Plan of KT52

Environmental Resources Management







CONTRACT NO. ND/2019/01 KWU	TUNG NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS
APPENDIX C	PHOTOGRAPHIC RECORDS FROM THE PHOTOGRAPHIC
	SURVEY
•	

Site Code: KT44
Photographic Records:





ERM-Hong Kong Limited



Photo 1-2 Side View (North to South)
It is located on a gentle east-facing slope with trees surrounding.



Photo 1-3 Rear View (West to East)
The concrete floor of the grave is destructed.



Left: Photo 1-4 (A Shrine, East to West), Right: Photo 1-5 (A Burner, Northwest to Southeast)

A Shrine is located next to the grave, and a Burner is located at the foot of the slope and on the periphery of the concrete floor.)





Photo 2-1 Oblique View (East to West)
The central parts of the grave ,where the headstone originally placed, are heavily destructed.



Photo 2-2 Side View (South to North)
It is located on a gentle southast-facing slope with trees surrounding.



Left: Photo 2-3 (A Shrine, Southeast to Northwest), Right: Photo 2-4 (A Burner, Northeast to Southwest)

A Shrine is located next to the grave, and a Burner is located at the foot of the slope and on the periphery of the concrete floor.)

ERM has over 160 offices across the following countries and territories worldwide

Argentina New Zealand Australia Norway Belgium Panama Brazil Peru Canada Poland China Portugal Puerto Rico Colombia France Romania Germany Russia Singapore Hong Kong Hungary South Africa South Korea India indonesia Spain Ireland Sweden Switzerland Italy Taiwan Japan Thailand Kazakhstan Kenya UAE Malaysia UΚ Mexico US Myanmar Vietnam

The Netherlands

ERM-Hong Kong, Limited

2507, 25/F One Harbourfront

18 Tak Fung Street

Hunghom Kowloon Hong Kong

T: +852 2271 3000 F: +852 2723 5660

www.erm.com

