

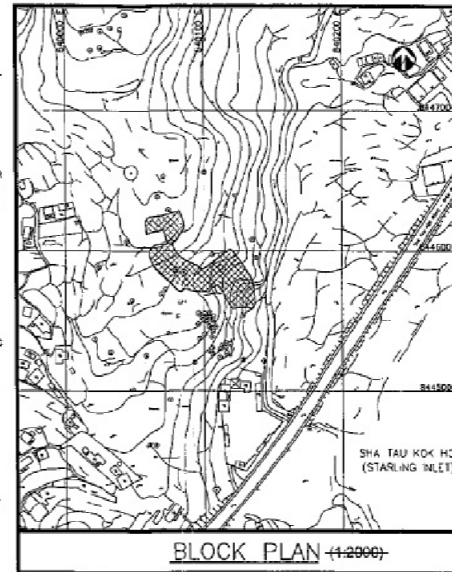
GROUND INVESTIGATION LAYOUT PLAN (1:600)

GENERAL NOTES

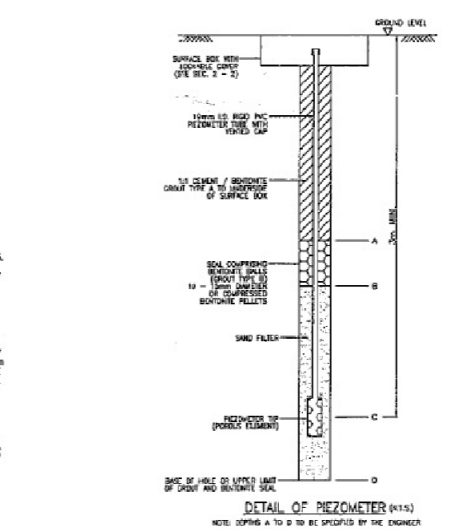
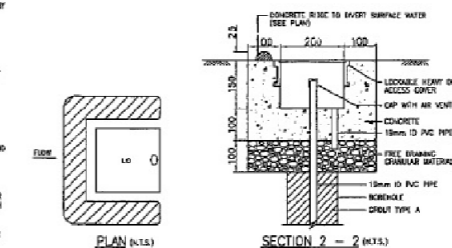
1. OUTLINE SPECIFICATIONS FOR THE SITE INVESTIGATION WORKS ARE GIVEN ON THIS DRAWING.
 2. BOREHOLES AND TRIAL PITS TO DETERMINE THE GEOMETRY, FLOWING LEVEL AND MATERIAL OF EXISTING REMAINS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE TYPICAL DETAILS AND NOTES FOR REMAINING WALL INVESTIGATION SHOWN ON THIS DRAWING. NO DRILLING SHALL COMMENCE UNTIL THE TRIAL PITS HAVE BEEN COMPLETED AND INSPECTED BY THE ENGINEER.

CUTLINE SPECIFICATION FOR SITE INVESTIGATION

- 1.6 METHOD OF DRILLING
 - 1.6.1 GENERAL
 - DRILLING SHALL BE CARRIED OUT BY ADVANCING WATER TIGHT TUBE CORE BARRELS USING WATER FLUSH OR FROM THE CENTER TUBE IN THE TIGHT TUBE CORE DRILLER BY AN EXPANSION PLUGGING BY APPROVED TUBE AND A CENTRAL QUANTITY OF ABOUT THREE DRILLING THROUGH TUBE CORE DRILLER. DRILLING SHALL BE CARRIED OUT USING THE TIGHT TUBE CORE DRILLER. DRILLING SHALL BE CARRIED OUT USING THE TIGHT TUBE CORE DRILLER. DRILLING SHALL BE CARRIED OUT USING THE TIGHT TUBE CORE DRILLER. DRILLING SHALL BE CARRIED OUT USING THE TIGHT TUBE CORE DRILLER.
 - 1.6.2 DRILLING PITS
 - DRILLING PITS SHALL BE OF THE HYDRAULIC FEED TYPE WITH A MINIMUM DISCHARGE OF 300P AND HAVE THE CAPACITY TO DRILL A HOLE 100MM TYPICAL WITH ENHANCED OR STANDARD CARTRIDGE AT THE SIZES AND TO THE DEPTH SPECIFIED.
 - THE WEIGHT OF THE DRILLING PIT SHALL BE COMPATIBLE WITH THE MAXIMUM HYDRAULIC THROUST REQUIRED FOR THE APPROVED TUBE CORE DRILLER. THE WEIGHT OF THE PIT SHALL BE NOT LESS THAN 100KG IF THE WEIGHT OF THE PIT IS INSUFFICIENT TO PREVENT MOVEMENT, THE BASE OF THE PIT SHALL BE SECURELY ANCHORED FROM THE SURFACE.
 - DRILLING PITS SHALL BE CAPABLE OF PROVIDING STABLE DRILL-THROUGH AS SPEEDS IN THE RANGE 50 TO 100 RPM AND HAVE A MINIMUM TANGENTIAL SPEED OF 1000M PER MINUTE. THE PIT SHALL ALSO BE FITTED WITH A MECHANICAL AND A HYDRAULIC FEED PRESSURE GAUGE, BOTH OF APPROVED SIZES. A ROD ROD, CLEARLY COLOURED IN 100M INCREMENTS SHALL BE PERMANENTLY ATTACHED TO AND PARALLEL WITH THE DRILLING TUBE. THIS SHALL BE PROVIDED AS A MEANS OF MEASURING PENETRATION RATES.
 - 1.6.3 DRILLING METHOD
 - WHERE DIRECTED BY THE ENGINEER, FORM FLUSH METHODS SHALL BE USED FOR DRILLING CARRIED OUT IN COLLUMBIAN AND IN OTHER MATERIALS. A FORM FLUSH SUCH AS S.A. 31 SHALL BE USED.
 - 1.6.4 STANDARD PENETRATION TESTS
 - A STANDARD PENETRATION TEST IN ACCORDANCE WITH BS 1377: 1990 (PART 1) SHALL BE CARRIED OUT IMMEDIATELY AFTER EACH BORING OR SAMPLE (DURING A CLEAR INTERVAL OF 50M) IS TAKEN AND OTHERWISE AS DIRECTED BY THE ENGINEER.
 - 1.6.5 SAMPLING
 - MAKER SAMPLES SHALL BE TAKEN IN VERTICAL BOREHOLES AT 5M INTERVALS IN SOIL.
 - 1.6.6 PENETRATION TESTS
 - FORWARD BY TEST SHALL BE CARRIED OUT IN SOIL LAYERS IN SELECTED BOREHOLES AS ADVISED ON SITE BY THE ENGINEER, AS DESCRIBED IN SECTION 2.1.2.3 OF BS 1377: 1990 (PART 1). THE DEPTH OF PENETRATION TESTS TO BE CARRIED OUT WILL BE ADVISED BY THE ENGINEER.
 - 1.6.7 PENETRATION OF BOREHOLES
 - VERTICAL BOREHOLES SHALL PENETRATE AT LEAST 5M INTO BEDROCK (IN CASE OF A CORE RECOVERY OF 100% FOR 1.5M INTERVALS OF CORES OF CORES IS ADVISED INTO THE ROCKS, OR A VALUE OF 200 BLOW PER 300MM FOR 5 CONTINUOUS SPT OR AS ADVISED BY THE ENGINEER, WHICHEVER IS DEEPEST).
 - 1.6.8 BOREHOLE MONITORING
 - GROUNDWATER LEVELS IN COMPLETE BOREHOLES SHALL BE MONITORED AND RECORDED IN THE MORNING AND EVENING WITH A SURFACE ELECTRIC SWITCH.
 - 1.6.9 BOREHOLE INSTALLATIONS
 - BOREHOLES SHALL BE ASSEMBLED AS DIRECTED BY THE ENGINEER TO MONITOR GROUNDWATER LEVELS AFTER THE COMPLETION OF DRILLING. THE DETAILS OF EACH INSTALLATION INCLUDING RESPONSE LENGTH, TIE DEPTH AND TYPES OF SENSORS SHALL BE SPECIFIED BY THE ENGINEER ON EACH OCCASION.
 - A CHANGELOG TYPE RECORD SHALL BE PROVIDED IN EACH BOREHOLE AT THE SURFACE. WHERE APPROPRIATE, WHERE COLLUMBIAN OR T.L. LAYERS ARE ENCOUNTERED AN ADDITIONAL PENETROMETER SHALL ALSO BE INSTALLED AT THE BOTTOM OF THE TUBE LAYERS.
 - 1.6.10 BOREHOLE MONITORING
 - BOREHOLE INSTALLATION SHALL BE MONITORED BY THE ENGINEER. RECORDS SHALL BE TAKEN DAILY ON 30 MINUTE INTERVALS AFTER INSTALLATION. INTERVALS AND RECORDING FREQUENCY SHALL BE TAKEN DURING OF JUST AFTER HEAVY RAIN AND BUCKETS SHALL BE INSTALLED IN THE SPECIFIED BOREHOLES TO MAINTAIN MINIMUM WATER LEVEL.
 - 1.6.11 UNDERGROUND SERVICES
 - IDENTIFYING ANY INFORMATION OBTAINED FROM THE ENGINEER, SURVEYOR OR OTHER PARTIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE POSITION OF ANY UNDERGROUND SERVICES AT THE INVESTIGATION POSITIONS AND ANY DAMAGE TO UNDERGROUND SERVICES SHALL BE HIS RESPONSIBILITY.
 - 1.6.12 SUPERVISION
 - THE CONTRACTOR SHALL PROVIDE SUPERVISION AS PER THE SITE SUPERVISION PLAN (SEE) FOR GROUND INVESTIGATION WORKS.
 - 1.6.13 LABORATORY TESTING
 - 1.6.13.1 SELECTION OF SAMPLES FOR TESTING
 - THE ENGINEER SHALL SELECT SAMPLES FOR TESTING BASED ON THE PRELIMINARY BOREHOLE LOGS PROVIDED BY THE CONTRACTOR AND A VISUAL EXAMINATION OF THE SOIL ENCOUNTERED.
 - 1.6.13.2 TYPES OF TESTS
 - LABORATORY TESTING SHALL INCLUDE BUT NOT BE LIMITED TO: MOISTURE, SHRECK ANALYSIS, HYDROMETER ANALYSIS AND CONSOLIDATED UNSATURATED TENSILE TESTS WITH PURE WATER PRESSURE. A CHANGELOG TYPE RECORD SHALL BE PROVIDED IN EACH BOREHOLE AT THE SURFACE. WHERE APPROPRIATE, WHERE COLLUMBIAN OR T.L. LAYERS ARE ENCOUNTERED AN ADDITIONAL PENETROMETER SHALL ALSO BE INSTALLED AT THE BOTTOM OF THE TUBE LAYERS.
 - 1.6.13.3 TRIAL PITS
 - THE CONTRACTOR SHALL EXCAVATE TRIAL PITS 1.5M BY 1.5M IN PLAN VERTICALLY BY HAND OR MECHANICAL MEANS TO THE EXTENT AS SPECIFIED BY THE ENGINEER. THE PIT SHALL BE 100MM FROM THE ACCESS LADDER OR NECESSARY GAPS THAT TECHNICAL STAFF CAN SAFELY INSPECT THE SIDES AND BASE OF THE PIT AND CARRY OUT TESTS AND TAKE UNDISTURBED SAMPLES AS REQUIRED. ALL TRIAL PITS SHALL BE DEEPER THAN 1.5M AT THEIR DEEPEST POINT. SHALL BE ADEQUATELY SHORED AT ALL TIMES USING A METHOD APPROVED BY THE ENGINEER AND IN SUCH A MANNER THAT THE SURFACE EXPOSED SHALL BE CLEARLY VISIBLE THROUGHOUT THE HEIGHT OF EACH FACE. THE BASE OF THE PIT SHALL BE KEPT FREE OF WATER SUCH THAT IT IS CLEARLY VISIBLE. THE CONTRACTOR SHALL ALSO TAKE ALL NECESSARY MEASURES TO PREVENT THE INGRESS OF SURFACE WATER INTO THE PIT.
 - TRIAL PITS SHALL BE BACKFILLED WITH THE SOIL OF THE SIDE OF THE PIT OF AN INSTRUCTION FROM THE ENGINEER. THE BACKFILLING MATERIAL FOR INVESTIGATION PITS AND TRIAL PITS SHALL BE COMPACTED TO ITS PROPER DENSITY OR A HIGHER DENSITY UNTIL ORIGINAL GROUND LEVEL IS RESTORED. COMPACTOR SHALL BE MECHANICALLY OPERATED IN SUCCESSIVE LAYERS OF NO MORE THAN 100MM. THE GROUND SURFACE SHALL BE REPAIRED AND SUBSEQUENT DEPRESSION OF THE SURFACE OCCURRING DUE TO SETTLEMENT SHALL BE FILLED IN AND COMPACTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
 - ALL NECESSARY MEASURES TO PREVENT THE INGRESS OF SURFACE WATER INTO THE PIT SHALL BE KEPT AS DIRECTED BY ENGINEER. TRIAL PITS TO DETERMINE THE GEOMETRY, FLOWING LEVEL AND MATERIAL OF EXISTING REMAINS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE TYPICAL DETAILS AND NOTES FOR REMAINING WALL INVESTIGATION SHOWN ON THIS DRAWING. NO DRILLING SHALL COMMENCE UNTIL THE TRIAL PITS HAVE BEEN COMPLETED AND INSPECTED BY THE ENGINEER.
 - 1.6.14 STANDARDS AND OTHER DOCUMENTS
 - THIS SPECIFICATION SHALL BE READ IN CONJUNCTION WITH THE FOLLOWING BRITISH STANDARDS AND OTHER DOCUMENTS:
 - BS 5939 (1991) "CODE OF PRACTICE FOR SITE INVESTIGATIONS"
 - BS 1377 (1975) "METHODS OF TEST FOR SOILS FOR CIVIL ENGINEERING PURPOSES"
 - BS 5930 (1981) "GUIDE TO SOIL INVESTIGATION, SOIL CLASSIFICATION AND SOIL RECORDING"
 - BS 5931 (1988) "GUIDE TO ROCK AND SOIL RECORDING"
 - BS 5932 (1988) "GUIDE TO ROCK AND SOIL RECORDING"
 - BS 5933 (1988) "GUIDE TO ROCK AND SOIL RECORDING"



BLOCK PLAN (1:2000)



LEGENDS	
---	SITE BOUNDARY LINE
+20.52	EXISTING SPOT LEVEL (mPD)
○	EXISTING TREE
⊗	PROPOSED VERTICAL BOREHOLE WITH PIEZOMETER (4 NOS.)
⊗	BH2 - PROPOSED VERTICAL BOREHOLE (4 NOS.)
⊗	TP1 - PROPOSED TRIAL PIT (8 NOS.)

REV.	DATE	DESCRIPTION

ALL MEASUREMENTS SHALL BE CHECKED AT THE SITE - 50% OF SCALE DIMENSIONS - ALL GROUND DIMENSIONS AND 100% OF SCALE DIMENSIONS - ALL DIMENSIONS SHALL BE CHECKED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE ENGINEER, SURVEYOR OR OTHER PARTIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE POSITION OF ANY UNDERGROUND SERVICES AT THE INVESTIGATION POSITIONS AND ANY DAMAGE TO UNDERGROUND SERVICES SHALL BE HIS RESPONSIBILITY.

Philip C.W. So
 RPE (Civil & Geotechnical)
 Registered Structural Engineer
 Registered Geotechnical Engineer

CONTRACT NO. _____

PROJECT NO.	DRAWN BY:	DM
CL	AS SHOWN	28/07/2017

PROJECT: LOT NOS. 1161 TO 1167, 1168 S.A. & 1169, TONG TO, N.T.

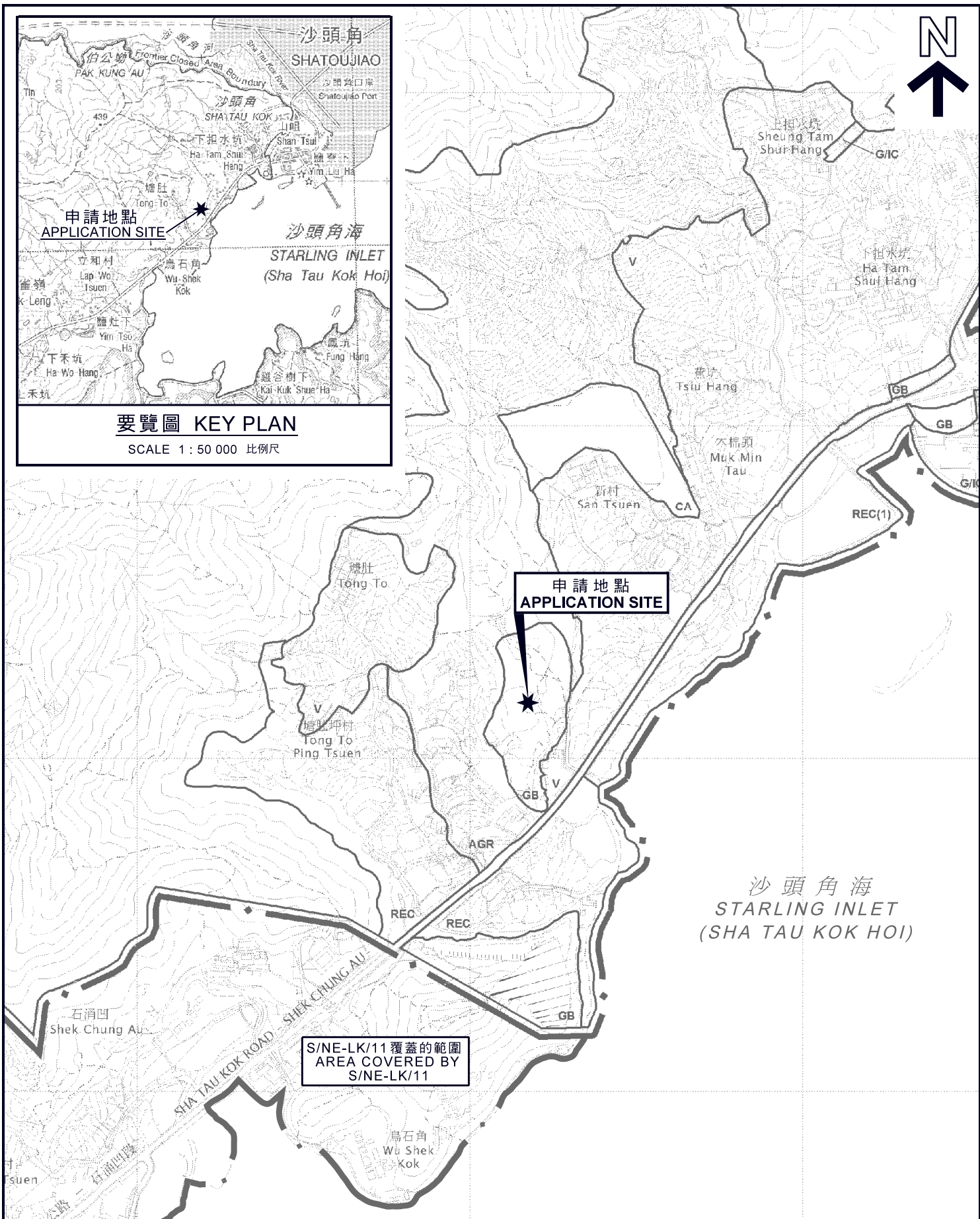
DRAWING TITLE: GROUND INVESTIGATION WORKS - LAYOUT PLAN, BLOCK PLAN, NOTES AND DETAILS

DRAWING NO.	REV.
GI-01	-

ARCHITECT: _____

GEOTECHNICAL CONSULTANT: KSA PHILIP SO & ASSOCIATES CONSULTING CIVIL AND GEOTECHNICAL ENGINEERS LTD.

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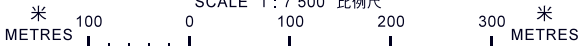
要覽圖 KEY PLAN

SCALE 1 : 50 000 比例尺

**S/NE-LK/11 覆蓋的範圍
AREA COVERED BY
S/NE-LK/11**

位置圖 LOCATION PLAN

擬議挖土工程（進行土地勘測工作以評估斜坡穩定性）
 新界沙頭角塘肚丈量約份第41約地段第1161號B分段第4小分段（部分）、第1161號B分段第5小分段（部分）、
 第1161號B分段第6小分段（部分）、第1162號E分段餘段（部分）、第1162號M分段餘段（部分）、第1164號E分段第10小分段（部分）、
 第1164號E分段第11小分段、第1164號E分段第12小分段（部分）、第1164號E分段第14小分段（部分）、
 第1164號E分段餘段（部分）、第1165號A分段第6小分段（部分）、第1165號A分段餘段（部分）、
 第1165號B分段第1小分段（部分）、第1165號B分段餘段（部分）、第1165號C分段第8小分段（部分）、
 第1165號J分段第12小分段（部分）、第1165號J分段第13小分段（部分）、第1165號J分段餘段（部分）、第1165號餘段（部分）、
 第1166號分段（部分）、第1166號F分段（部分）、第1166號K分段（部分）、第1167號F分段（部分）及第1169號（部分）
 PROPOSED EXCAVATION OF LAND (FOR GROUND INVESTIGATION WORKS FOR ASSESSING THE STABILITY OF SLOPES)
 LOTS 1161 S.B ss.4 (PART), 1161 S.B ss.5 (PART), 1161 S.B RP (PART), 1162 S.E RP (PART), 1162 S.M RP (PART),
 1164 S.E ss.10 (PART), 1164 S.E ss.11, 1164 S.E ss.12 (PART), 1164 S.E ss.14 (PART), 1164 S.E RP (PART),
 1165 S.A ss.6 (PART), 1165 S.A RP (PART), 1165 S.B ss.1 (PART), 1165 S.B RP (PART), 1165 S.C ss.8 (PART),
 1165 S.J ss.12 (PART), 1165 S.J ss.13 (PART), 1165 S.J RP (PART), 1165 RP (PART), 1166 S.E (PART),
 1166 S.F (PART), 1166 S.K (PART), 1167 S.F (PART) AND 1169 (PART) IN D.D. 41, TONG TO, SHA TAU KOK, N.T.
 SCALE 1 : 7 500 比例尺



本摘要圖於2018年5月16日擬備，
 所根據的資料為於2014年6月3日核准的
 分區計劃大綱圖編號S/NE-STK/2
 EXTRACT PLAN PREPARED ON 16.5.2018
 BASED ON OUTLINE ZONING PLAN
 No. S/NE-STK/2 APPROVED ON 3.6.2014

規劃署
**PLANNING
 DEPARTMENT**



參考編號
 REFERENCE No.
A/NE-STK/14

圖 **PLAN
 A-1**



實地照片 SITE PHOTOS

本圖於2018年5月16日擬備，所根據的資料為攝於2018年4月17日的實地照片
PLAN PREPARED ON 16.5.2018 BASED ON SITE PHOTOS TAKEN ON 17.4.2018

擬議挖土工程（進行土地勘測工作以評估斜坡穩定性）
新界沙頭角墳地式量約份第41約地段第1161號B分段第4小分段（部分）、第1161號B分段第5小分段（部分）、第1161號B分段第10小分段（部分）、第1162號E分段餘段（部分）、第1162號M分段餘段（部分）、第1164號E分段第10小分段（部分）、第1164號E分段第11小分段、第1164號E分段第12小分段（部分）、第1164號E分段第14小分段（部分）、第1164號E分段餘段（部分）、第1165號A分段第6小分段（部分）、第1165號A分段餘段（部分）、第1165號B分段第1小分段（部分）、第1165號B分段餘段（部分）、第1165號C分段第8小分段（部分）、第1165號J分段第12小分段（部分）、第1165號J分段第13小分段（部分）、第1165號J分段餘段（部分）、第1165號餘段（部分）、第1166號E分段（部分）、第1166號F分段（部分）、第1166號K分段（部分）、第1167號F分段（部分）及第1169號（部分）
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DEPARTMENT



參考編號
REFERENCE No.
A/NE-STK/14

圖 PLAN
A-4a



實地照片 SITE PHOTOS

本圖於2018年5月16日擬備，所根據的資料為攝於2018年4月17日的實地照片
 PLAN PREPARED ON 16.5.2018 BASED ON SITE PHOTOS TAKEN ON 17.4.2018

擬議挖土工程 (進行土地勘測工作以評估斜坡穩定性)
 新界沙頭角墟肚式量約份第41約地段第1161號B分段第4小分段(部分)、第1161號B分段第5小分段(部分)、第1161號B分段餘段(部分)、第1162號E分段餘段(部分)、第1162號M分段餘段(部分)、第1164號E分段第10小分段(部分)、第1164號E分段第11小分段、第1164號E分段第12小分段(部分)、第1164號E分段第14小分段(部分)、第1164號E分段餘段(部分)、第1165號A分段第6小分段(部分)、第1165號A分段餘段(部分)、第1165號B分段第1小分段(部分)、第1165號B分段餘段(部分)、第1165號C分段第8小分段(部分)、第1165號J分段第12小分段(部分)、第1165號J分段第13小分段(部分)、第1165號J分段餘段(部分)、第1165號餘段(部分)、第1166號E分段(部分)、第1166號F分段(部分)、第1166號K分段(部分)、第1167號F分段(部分)及第1169號(部分)
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參考編號
 REFERENCE No.
A/NE-STK/14

圖 **PLAN
 A-4b**