

**Tuen Mun - Chek Lap Kok Link
Northern Connection Sub-sea Tunnel Section
Contract No. HY/2012/08**




PLAN

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EMERGENCY RESPONSE PLAN

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SIGNATURE			
DATE	7 Dec 2020	7 Dec 2020	09 DEC 2020

(I) DOCUMENT STATUS

Details of Revision:

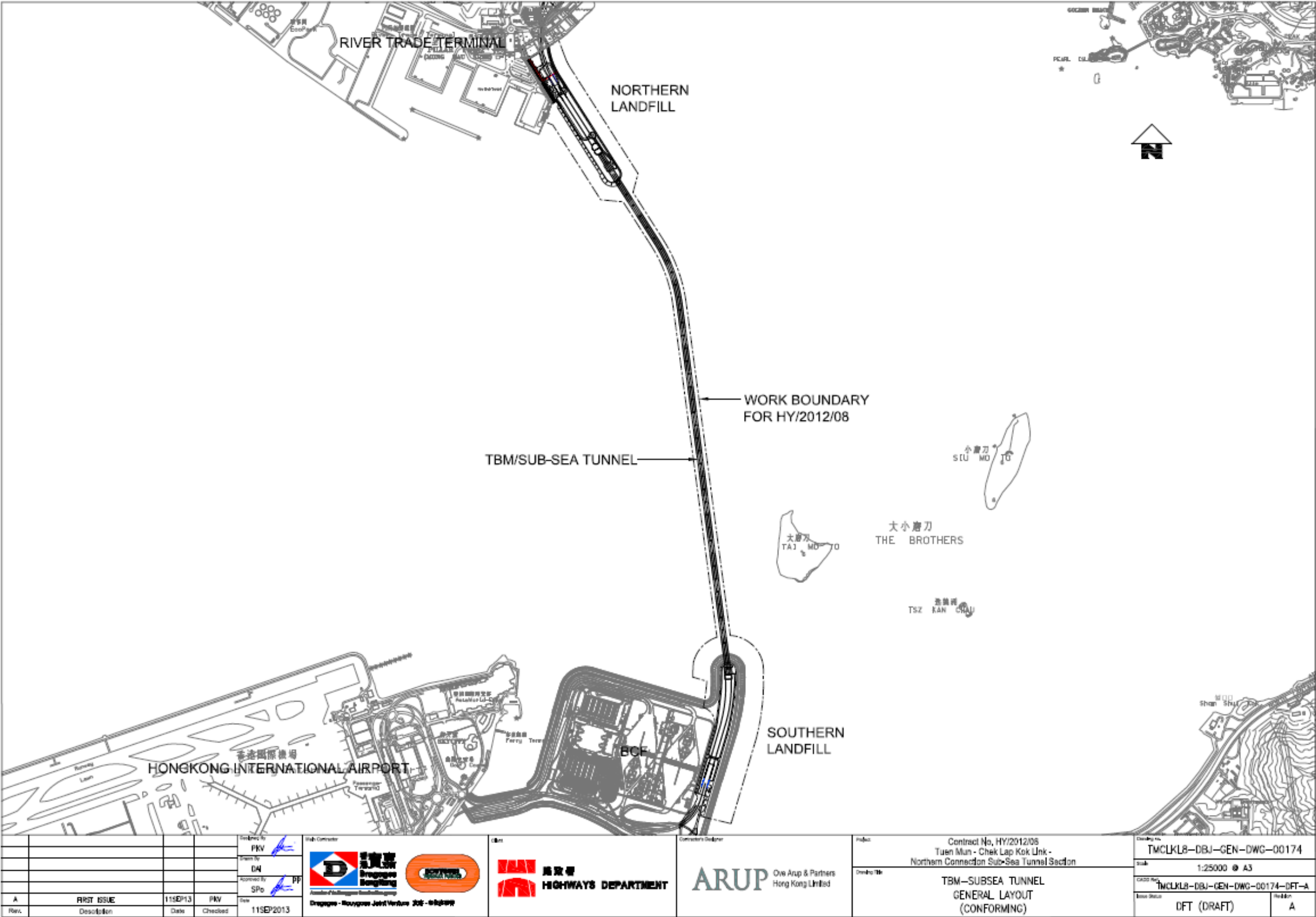
Revision	Rev. Date	Sections	Amendment Source and/or Details
A	16 March 2020	All	Issued for Approval
B	7 Dec 2020	Appendix B	Project Implement Schedules

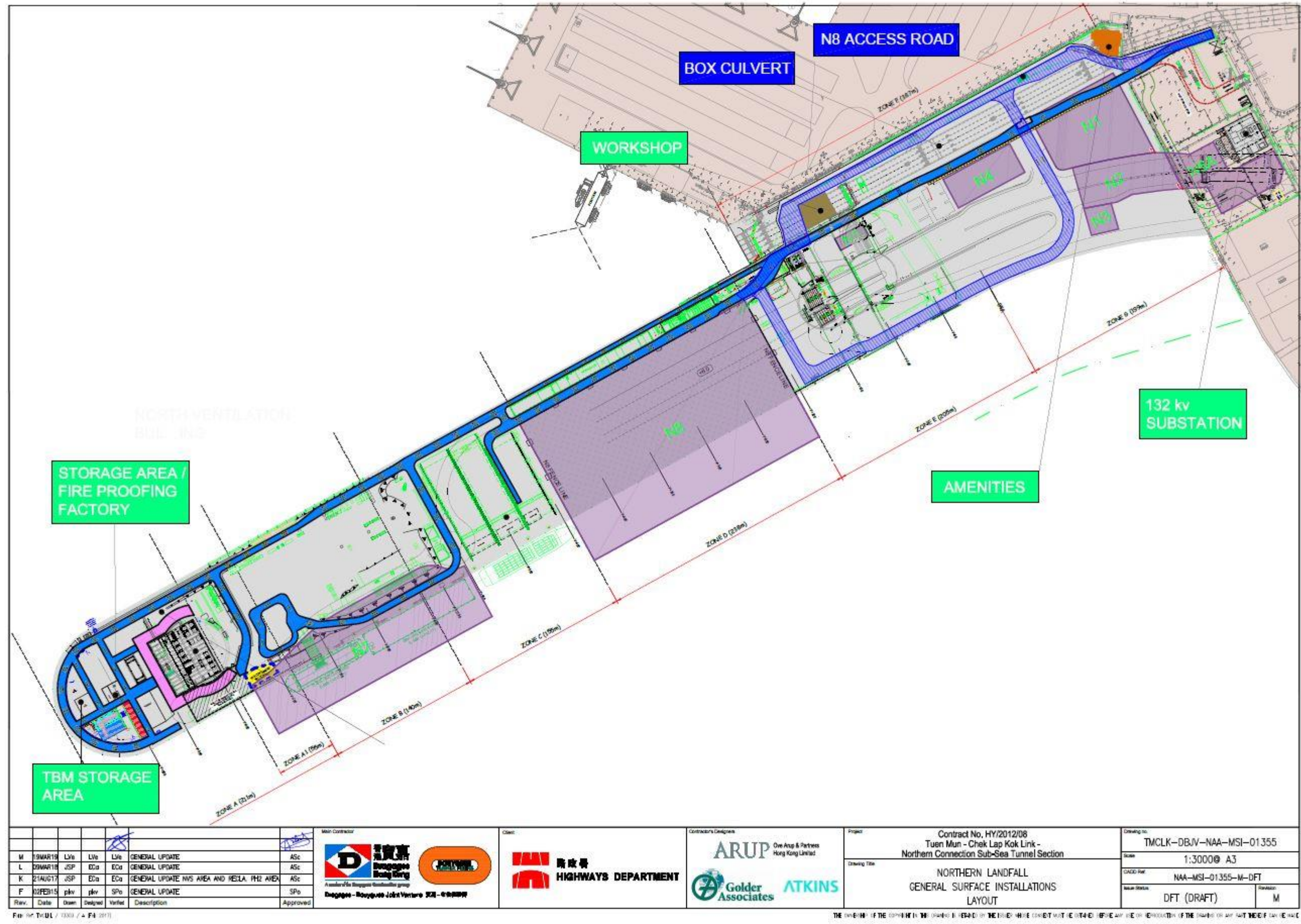
(II) PROJECT DETAILS

- Contract no. : HY/2012/08
- Project Title : Tuen Mun – Chek Lap Kok Link, Northern Connection Sub-Sea Tunnel Section
- Contract Period : From 5st August 2013 to May 2020
- The Client : Government of Hong Kong Special Administrative Region – Highways Department
- The Supervising Officer : AECOM Asia Company Limited
- The Main Contractor : Dragages - Bouygues Joint Venture
- Nature of Work : The design and/or construction for the section of TM-CLKL between Tuen Mun Area 40 and the HKBCF, include the following scope of work:
- (i) Design and construction of sub-sea TBM tunnels (two tubes with cross passages) across the Urmston Road, connecting Tuen Mun Area 40 and HKBCF, of approximately 4 km in length with dual 2-lane carriageway;
 - (ii) Design and construction of cut-and-cover (C&C) tunnels (two boxes with cross passages) at both the southern landfall and northern landfall for construction of approach roads to the sub-sea TBM tunnels, of approximately 1.5km in length. Subsequently, the C&C tunnels of the Northern Landfall has been replaced with TBM tunnels, whereas the C&C tunnels of the southern Landfall will be constructed with Modified Hybrid Scheme (MHS);
 - (iii) Construction of northern landfall reclamation of approximately 16.5 hectares and about 2.0km long seawalls;
 - (iv) Design and construction of ventilation buildings at the southern and northern landfalls;
 - (v) Design and construction of at-grade roads at the southern and northern landfalls;
 - (vi) Construction of extension of the existing 4-cell box culvert adjacent to RTT;

- (vii) Provision of a temporary pontoon for the affected existing Government berths at RTT;
- (viii) Design and construction for modification of a section of vertical seawall of approximately 220m in length at the southern landfall to sloping seawall;
- (ix) Design and construction of associated civil, structural, building, geotechnical, marine, environmental protection, drainage and sewerage, waterworks and utility works;
- (x) Design and construction of advance SEM provisions to facilitate installation of E&M, TCSS and other utilities including tunnel ventilation, tunnel lighting, tunnel fire services, mechanical ventilation & air- conditioning, high voltage power supply, low voltage power supply, fire services, plumbing & drainage, central monitoring & control system and implementation of an EM&A programme for the works under this Contract; and
- (xi) Incidental works thereto the above and other associated works which are shown on the Drawings or specified in the ER.

(III) SITE LAYOUT PLAN





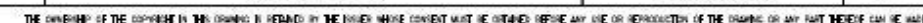




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1. INTRODUCTION

Dragages – Bouygues Joint Venture (DBJV) has been commissioned to design and construct The Works in Contract No. HY/2012/08, Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-Sea Tunnel Section, is comprised of the following parts:

- A dual 2-lane sub-sea tunnel approximately 5 km long between Tuen Mun and the Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF);
- Reclamation to form land of approximately 16.5 hectares for the tunnel landfall at Tuen Mun (Northern Landfall);
- Associated civil, structural, building, geotechnical, marine, water supplies, drainage, sewage, landscaping works and re-provisioning works of affected existing facilities, etc.

2. PURPOSE OF THE PLAN

This Emergency Response Plan (ERP) is developed for the Environmental Permit (EP) (EP-354/2009/D) Condition 3.17 on how to prevent oil and chemical spillage caused by traffic incidents on the carriageway from entering into the waterbody. The Project implementation schedule was shown in **Appendix B**.

This ERP is prepared for the scope of works in Contract No. HY/2012/08.

3. PROJECT SCOPE OF THE WORKS

DBJV is responsible for the construction phase of the project, including the reclamation and associated civil works of Northern Landfall, Tunnel construction, and Southern landfall associated civil works. After the completion of Works, all of the constructed components will be handover to Highways Department during the operational phase.

As both Northern Landfall and Southern Landfall is reclaimed land, no marine works will be included in the operational phase. All storm water and surface runoff collected on land will be diverted from the drainage to the desilting facilities managed by Drainage Services Department (DSD). Surface runoff collected from the low points of tunnel structure will also be diverted to both Northern and Southern Landfall drainage system. No oil and hazardous substances are expected to be generated on land.

4. GENERAL RESPONSE TO SPILL INCIDENTS ON LAND

The general response to the spill caused by traffic incidents on land shall be advanced to minimize the opportunity of oil and hazardous substances entering to the environment. When incident occurs, operational staff should be made aware of the emergency telephone numbers. The response actions to an incident should include, but not limit to, the following steps:

- (i) Immediately inform the Emergency Team of the spill incident occurring.
- (ii) The Emergency Team shall be responsible for organizing the manpower to identify the source of spillage and stop or cease it. The Emergency Coordinator (EC) shall equip all people involved in the clean-up works suitable personal protective equipment (PPE) to remove the leaked chemical and chemical waste.
- (iii) The Emergency Team shall be ambulance service in case injury person or uncontrollable or non-stoppable spillage to be handled by Fire Services Department or Marine Department.
- (iv) Ensure in a safe condition; take all possible measures to prevent the spread of spillage area, such as placing sorbent pads around the spillage source for absorbing the chemical on the ground surface.
- (v) The gullies which near to the incident area shall be covered by drain seal or tarpaulin material with mass weighted to ensure chemical would not enter to the waterbody through the drainage system.
- (vi) If possible and practical, the spilt chemical shall be put it backs into the original container. Otherwise, suitable materials like dry sand or sawdust shall be used to absorb the residue.
- (vii) Any contaminated sand, sawdust and the other materials shall be collected and put it into black plastic bags and “chemical waste” label shall be displayed clearly at the bag. Finally, handling of the chemical waste shall be followed to the “Code of Practice on Packing, Labelling and Storage of Chemical Wastes”.

5. EMERGENCY TEAM

5.1 Team Structure

An Emergency Team shall be established by the maintenance contractor for the Contract in order to dealing with emergency cases promptly. The Emergency Team shall be comprised members of an emergency team leader, emergency safety and environmental representatives and emergency coordinators.

Once the emergency team established, the member list will be maintained and revised from time to time to ensure it is up-to-date and notify Highways Department representative. The management and maintenance authority should contract the Hong Kong Police Force and Transport Department during emergency spillage. The telephone contact numbers shall be displayed on notice board. The contacts of emergency parties were listed at **Appendix A**.

5.2 Roles and Responsibilities

Emergency Team Leader

- Coordinate with all emergency situations,
- Determinate the seriousness of the incidents for taking appropriate responding action and to deploy manpower and transportation resources,

- Lead the emergency team to carry out appropriate emergency measures to minimize impacts arising from the spillage case,
- Inform the emergency safety / environmental representative, work team members and SOR as soon as possible in case of a spillage incidents,
- Ensure that the staffs have received the training for emergency procedure before working.

Emergency Safety Representative

- Assist the Emergency Leader in handling of responding actions toward the emergency events,
- Design evacuation procedures and routes for emergency events,
- Advise the Emergency Leader on hidden danger or unforecastable situation to be occurred in the contract site arising from emergency events,
- Observe the whole process of the emergency procedure,
- Provide safety training to all team members and frontline staffs for the emergency procedures.

Emergency Environmental Representative

- Assist the Emergency Leader in handling of responding actions towards emergency events,
- Advise the Emergency Leader on hidden danger or unforeseeable situation on environmental aspects to be occurred in the contract site arising from emergency events,
- Ensure the emergency procedures are handle under environmental requirements,
- Assess the potential impacts on the local environmental such as Chinese White Dolphins and ecology issues,
- Provide environmental training to all team members and operational staffs for the emergency procedures.

Emergency Coordinator – Superintendent

- Responsible to the Emergency Leader and shall follow the instruction to perform their duties,
- Be familiar with the emergency procedures, locations of the first-aid points and work areas,
- Inspect and examine the equipment for the sump pits at regular intervals to ensure they are in place and in good condition,
- Arrange the manpower and necessary plants, boats, or vehicles for emergency events,
- Control or mitigate hazards at the scene to prevent further damages to the property or injury to person under a safe condition,
- In cases of the injuries, provide suitable first aid treatment at scene by certified first aiders.

- Report the latest situation of the injured person to the Emergency Team Leader,
- Coordinated with Government Emergency Units if necessary.

6. IMPLEMENTATION OF EMERGENCY RESPONSE PLAN

6.1 Staff Training

All the operational staffs shall be briefed for spill prevention and emergency handling procedures during the mandatory work induction training. Qualified trainers shall periodically conduct tool-box talk to the operational staffs. Where appropriate, a demonstration of the spill kit, or similar equipment may be delivered to related Emergency Team members.

APPENDIX A - GOVERNMENT EMERGENCY CONTACT UNITS

Contact 聯絡	Phone No. 電話號碼	Remarks 備註
Ambulance 救護車控制中心	2735 3355	
FSD-Emergency & Rescue 消防緊急及救援	2723 2233	
FSD – Chek Lap Kok 赤鱸角消防局	2949 9081	
FSD – Pillar Point 望后石消防局	2404 0766	
Maritime Rescue Coordination Centre 海上救援協調中心	2233 7999	24hr 24 小時
Marine Department – Harbour Patrol Section 海事處海港巡邏組	2928 6377	
Tai Lam Marine Base 大欖水警基地	2452 9261	
North Lantau Hospital 北大嶼山醫院	3467 7000	
Shipping Control - River Trade Terminal 港口管制站 – 內河碼頭	2180 4578	24hr 24 小時
Tuen Mun Hospital 屯門醫院	2468 5111	
Pok Oi Hospital 博愛醫院	2486 8000	
Regional Command & Control Centre (RCCC) 指揮及控制中心	999	24hr 24 小時
Typhoon Enquiry 颱風資訊	2835 1473	Operate during Tropical Cyclone Warning Signal No.3 or above 熱線於三號風球或以上運作
Weather Enquiry 天氣資訊	187 822	24hr 24 小時

Appendix B - Project Implement Schedules

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Implementation Agent	Location / Duration of the measure	Implementati on Stage ¹			Relevant Legislation & Guidelines
						D	C	O	
Accidental Spillage (Operation Phase)									
3.17	S6.8.4.8 & EP S3.17	Emergency Response Plan for spillage of oil & chemicals The permit Holder shall, no later than 2 months before the commencement of operation of the Project, deposit with the Director three sets of a detailed Emergency Response Plan (ERP) on how to prevent oil and chemical spillage caused by traffic incidents on the carriageway from entering into the waterbody.	Mitigation of accidental spillage by oil tankers into waterbodies	Emergency Team	TM-CLKL			✓	Water Pollution Control Ordinance (Cap. 358)