
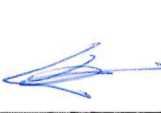


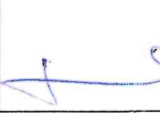
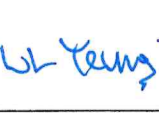
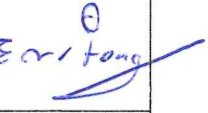





MS Reference Number:	CSHK	CET	MS	C	2024	000119
ACC Reference Number:	1701	W	000	CSC	760	000609

METHOD STATEMENT TITLE	Rev. 0
Widening of The Fast Lane of Shun Long Road – The Section between SHW Depot and North Lantau Highway	

	Prepared by:	Checked by:	Reviewed by:				Approved by:
Signature:							
Name:	Edmond MAN	Vincent Li	Leung Kwok Fung /Hui Wai Kwan	MH Isa / WH Lam	James Ma/ Iris Ho	Yeung Wai Lun	Eric Fong
Position:	Engineer	Construction Manager	SM/SO	QM/QE	EM/EO	Assistant Project Director	Project Director
Date:	31-May-2024	31-May-2024	31-May-2024	31-May-2024	31-May-2024	31-May-2024	31-May-2024

CONTENT

 中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LIMITED	This document is controlled in soft copy. Any hard copies seen are uncontrolled unless chopped with a red control stamp	Page 1 of 21
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1. Objective
2. Details of Sub-Contractor/Specialist Sub-Contractor
3. Responsibilities for Activities described within Method Statement
4. Work Plan
5. Resource, Plant, Equipment & Material
6. Traffic and Security Management
7. Construction Methods / Construction Sequence
8. Safety
9. Environmental
10. Quality Control
11. Appendices

1.	Objective (Overview of the work)																																
	<p>The objective of this work is to improve the traffic condition, provision of additional space in fast lane to afford the future traffic growth of the road section. Moreover, road safety will be strengthened via the fast lane widening task.</p> <p>It is realized that road divider is currently consist of profile barrier and waterfilled barrier to separate fast lane and slow lane independently. The slow lane is temporarily closed under TTA scheme while fast lane is opened for all road users. We would like to mobilize road divider according to out work plan under manual operation and plant operation. The fast lane will become 4.6m width eventually if work is proceeded successfully.</p>																																
2.	Details of Sub-Contractor/Specialist Sub-Contractor																																
	<p>The works will be carried out by our direct labour and supervise by our front-line staff such as foreman and engineer. Since the work area is excluded from SHW Depot boundaries, there is not necessity to provide a full-time CP (Railway Safety Rules and Requirements). All workers do not enforce to obtain the qualification Railway Safety training (RSI). The rules and regulation as well as safety measures shall be in accordance with COP issued by HyD.</p>																																
3.	Responsibilities for Activities described within Method Statement																																
	<p>CSHK is responsible to inspect and carry out the construction works. The following persons, as listed in the table below, will attend the specific tool-box talk and be responsible for the activities:</p> <table><tr><td>Company</td><td>Name</td><td>Position</td></tr><tr><td rowspan="12">CSHK</td><td>Vincent Li</td><td>Construction Manager</td></tr><tr><td>Nana Chung</td><td>Assistant Construction Manager</td></tr><tr><td>Martin Wong</td><td>Assistant Construction Manager</td></tr><tr><td>David Lam</td><td>Senior Engineer</td></tr><tr><td>Sam Tsang</td><td>Engineer</td></tr><tr><td>Man Kwun Yu</td><td>Engineer</td></tr><tr><td>Kingsley Zhao</td><td>Assistant Engineer</td></tr><tr><td>Li Man Hin</td><td>Graduate Engineer</td></tr><tr><td>Cheung Siu Kei</td><td>Superintendent (WPIC)</td></tr><tr><td>Benny Yeung</td><td>General Foreman</td></tr><tr><td>Jacky To</td><td>Foreman</td></tr><tr><td>Chan Man Hin</td><td>Foreman</td></tr><tr><td>TBC</td><td>CP(T)</td></tr></table>			Company	Name	Position	CSHK	Vincent Li	Construction Manager	Nana Chung	Assistant Construction Manager	Martin Wong	Assistant Construction Manager	David Lam	Senior Engineer	Sam Tsang	Engineer	Man Kwun Yu	Engineer	Kingsley Zhao	Assistant Engineer	Li Man Hin	Graduate Engineer	Cheung Siu Kei	Superintendent (WPIC)	Benny Yeung	General Foreman	Jacky To	Foreman	Chan Man Hin	Foreman	TBC	CP(T)
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TBC	CP(T)																																
4.	Programme and Working Hours (Start & finish date of operation/works)																																
	<p>The works target is planned to be commenced on June 2024 and spend 4 consecutive workdays to complete the task.</p> <p><u>Programme & Working Hour</u></p> <ul style="list-style-type: none">Daywork (at least 4 consecutive workdays are required);Working hour: 08: 00 a.m.~ 07: 00 p.m. (TH) + 07: 00 p.m.~ 11: 00 p.m. with valid CNP;Target Completion Day: Begin at early June until the end of July 2024 <table><tr><td>Item</td><td>Works</td><td>TH/NPH/NTH</td></tr><tr><td>1</td><td>Unload new water filled barriers at designated area</td><td>TH</td></tr><tr><td>2</td><td>Set up new water filled barriers and fill up</td><td>TH</td></tr><tr><td>3</td><td>Relocate existing profile barrier toward slow lane</td><td>TH</td></tr></table>			Item	Works	TH/NPH/NTH	1	Unload new water filled barriers at designated area	TH	2	Set up new water filled barriers and fill up	TH	3	Relocate existing profile barrier toward slow lane	TH																		
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4	Empty existing water filled barriers and take them out	NTH										
All items mentioned above shall be controlled to occur inside current TTA area under safety assessment.												
5.	Resource, Plant, Equipment & Material (Identify type, model and specification of MAJOR plant & equipment)											
<u>Plant and Equipment Condition</u> The major plants and equipment will be deployed to carry out the works are as follow: <u>Stage 1 – New Formation of Water filled barrier (Daywork)</u>												
<table><tr><th>Plant / Equipment</th><th>Quantity (unit)</th></tr><tr><td>Crane Lorry (45T)</td><td>1</td></tr><tr><td>Water Truck (Capacity: 3000L~5000L)</td><td>1</td></tr><tr><td>Telescoping Crawler Crane (6T)</td><td>1</td></tr></table>			Plant / Equipment	Quantity (unit)	Crane Lorry (45T)	1	Water Truck (Capacity: 3000L~5000L)	1	Telescoping Crawler Crane (6T)	1		
Plant / Equipment	Quantity (unit)											
Crane Lorry (45T)	1											
Water Truck (Capacity: 3000L~5000L)	1											
Telescoping Crawler Crane (6T)	1											
<table><tr><th>Manpower</th><th>Quantity (nos.)</th></tr><tr><td>General Worker</td><td>6</td></tr><tr><td>Crane Operator</td><td>1</td></tr><tr><td>Lifting Supervisor</td><td>1</td></tr><tr><td>Rigger</td><td>2</td></tr></table>			Manpower	Quantity (nos.)	General Worker	6	Crane Operator	1	Lifting Supervisor	1	Rigger	2
Manpower	Quantity (nos.)											
General Worker	6											
Crane Operator	1											
Lifting Supervisor	1											
Rigger	2											
<u>Stage 2 - Relocation of Existing Profile Barrier (Daywork)</u>												
<table><tr><th>Plant / Equipment</th><th>Quantity (unit)</th></tr><tr><td>Telescoping Crawler Crane (6T)</td><td>1</td></tr></table>			Plant / Equipment	Quantity (unit)	Telescoping Crawler Crane (6T)	1						
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Telescoping Crawler Crane (6T)	1											
<table><tr><th>Manpower</th><th>Quantity</th></tr><tr><td>General Labour</td><td>2</td></tr><tr><td>Traffic Controller</td><td>1</td></tr><tr><td>Operator</td><td>1</td></tr></table>			Manpower	Quantity	General Labour	2	Traffic Controller	1	Operator	1		
Manpower	Quantity											
General Labour	2											
Traffic Controller	1											
Operator	1											
<u>Stage 3 - For Removal of Existing Waterfilled Barrier (Nightwork)</u>												
<table><tr><th>Plant / Equipment</th><th>Quantity</th></tr><tr><td>Crane Lorry (45T)</td><td>1</td></tr><tr><td>Traffic control truck with Arrow board</td><td>1</td></tr><tr><td>Portable Light Tower</td><td>3</td></tr></table>			Plant / Equipment	Quantity	Crane Lorry (45T)	1	Traffic control truck with Arrow board	1	Portable Light Tower	3		
Plant / Equipment	Quantity											
Crane Lorry (45T)	1											
Traffic control truck with Arrow board	1											
Portable Light Tower	3											
<table><tr><th>Manpower</th><th>Quantity</th></tr><tr><td>General Labour</td><td>8</td></tr><tr><td>Crane Operator</td><td>1</td></tr></table>			Manpower	Quantity	General Labour	8	Crane Operator	1				
Manpower	Quantity											
General Labour	8											
Crane Operator	1											
6.	Traffic and Security Management											
	Worker Verification											

- All workers will be picked up at designated area such as Tung Chung Station.
- During boarding the shuttle bus, hand-held facial recognition will be performed to verify the worker's qualification.
- The facial recognition system will check if the person has passed the RSI and possesses a green card.
- List of workers shall be submitted for MTR for registration before starting of works, the list shall be updated weekly and available for MTR as requested.

Uniform and Safety Equipment: All workers shall wear PPE and the standard uniform and safety helmet for easy recognition by security guards and YM.

Contract 1701 中國建築工程(香港)有限公司
 分判商Contractor: _____
 姓名Name: _____
 綠卡號碼 Green Card no.: _____
 MTR COM028: ☐
 MTR RSI: ☐
 入職訓練 Site Induction Training: ☐
 到期日 Expiry date: _____

Template of Label for Safety Helmet



Identify the color for the Safety Helmet



Reflective vest satisfied with HyD standard

7. Construction Methods / Construction Sequence Drawings

Preparation

- Prior to the commencement of the mobilization of road divider (waterfilled barrier), our survey team will provide numerous amount of graffiti marks on ground for our reference;
- All workers should possess the Code of Practice for the Lighting, Signing and Guarding of Road Works issued by HyD

Site Pictures



Inside TTA look forward to Tsing Yi Direction



Inside TTA look forward to Tung Ching Direction



General view of Profile Barrier



Existing Retaining Wall



Side View of Slope

Refer to the following general plan view concerning Shun Long Road condition and TTA scheme in site condition.

Cutline A-A



General Plan View – Part 1 (Aerial Picture)

Cutline A-A



General Plan View – Part 2 (Aerial Picture)

Legend

--- Water Filled Barrier

--- Profile Barrier

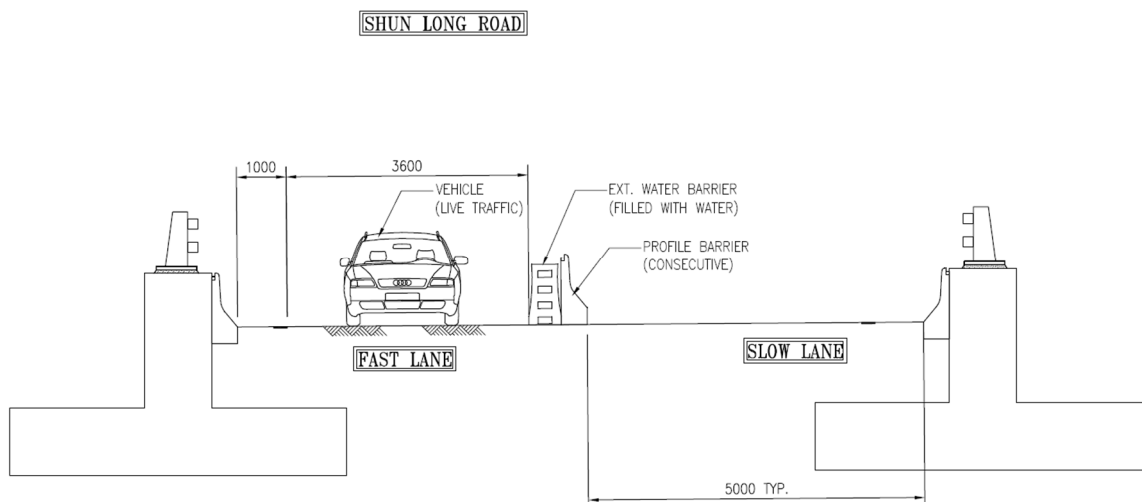


Traffic Clone

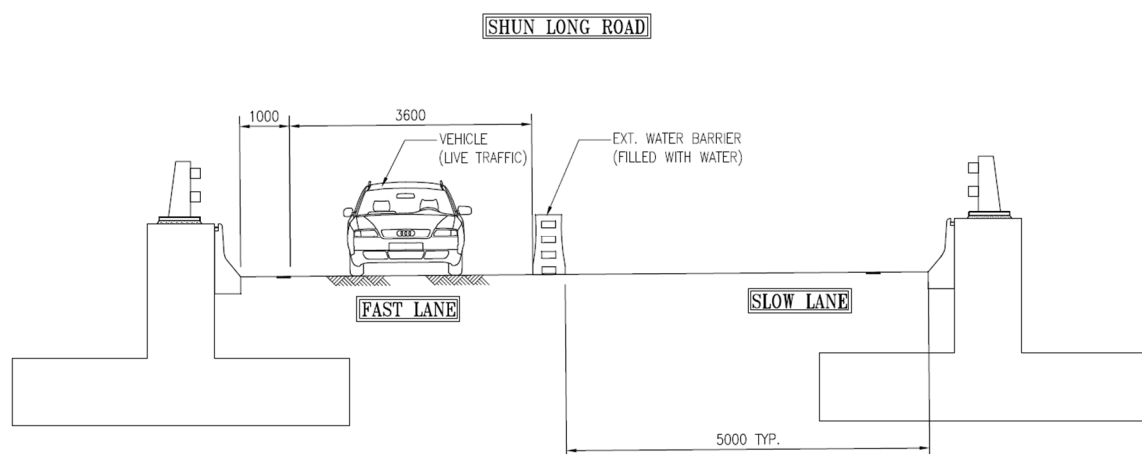
TTA	Qty (pcs)	Length (m)
Water Filled Barrier	218	327
Profile Barrier	56	56

The road width of Shun Long Road in fast lane became narrow (<4.6m min. required) gradually which is measured from continuous edge white line (road markings) along with profile barrier and metal parapet.

It is observed that consecutive profile barriers are installed at part of water filled barrier section as secondary protection wall when traffic accident or collision is happened. Therefore, we would like to guarantee that road width in fast lane after road widening work is accomplished shall be 4.6m in minimum.



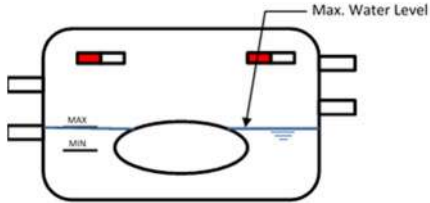
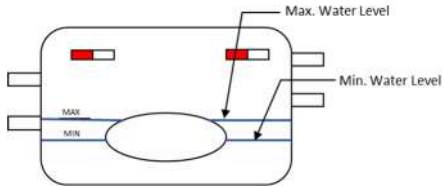
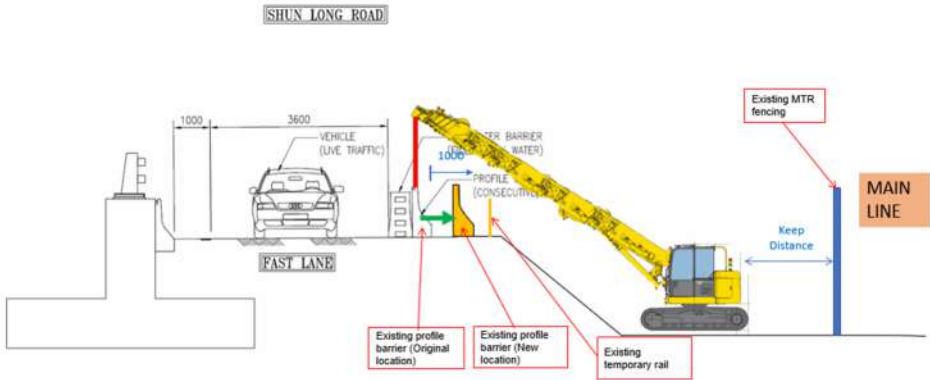
Typical Section of Shun Long Road at SHW Depot Section (Profile Barrier exist)

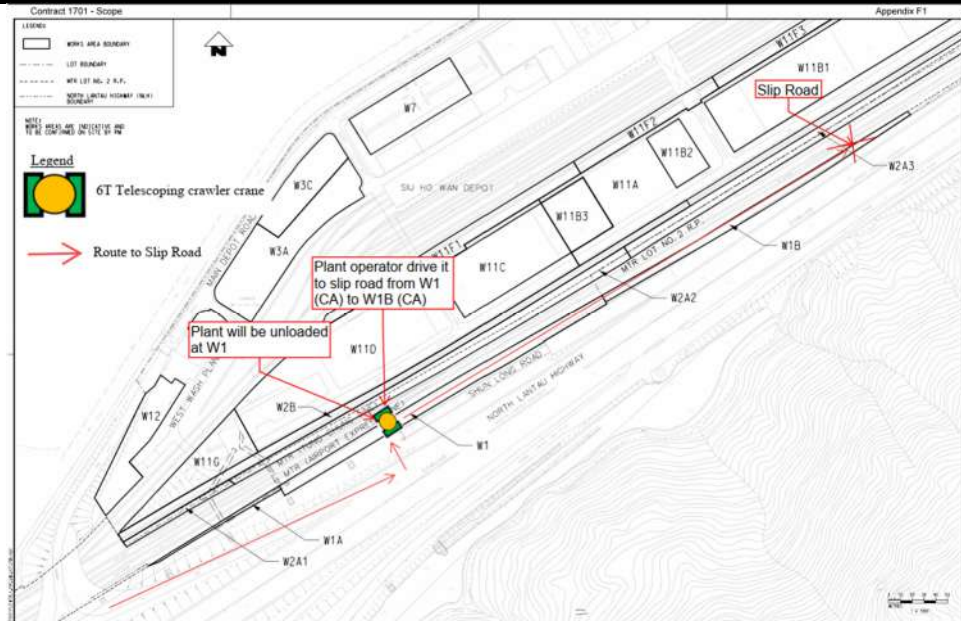


Typical Section of Shun Long Road at SHW Depot Section (Profile Barrier not exist)

Stage 1	Activity
Step 1 Daywork	<p>New batch of empty water filled barriers are loaded on flatbed of carne lorry and transported to designated unloading point on Shun Long road slow lane surrounded by water</p> <p>Workers distribute and set up new set of water barriers with respect to survey marking provided on road. Make sure that water drain hole at the bottom position should be faced to SHW depot.</p>

Step 2 Daywork	<p>Fill up empty water barrier. Water supply is gained from water tanker truck. Workers use accessories (hose reel) equipped on water truck to inject water upon fill hole on top. During the process, workers should monitor the water filled barrier alignment without beyond tolerance.</p>	
Step 3 Daywork	<p>Check the quality of water filled barrier, screw up the cover to prevent the water leakage.</p>	
Step 4 Daywork	<p>The barrier shall be placed in alternate red and white colours and connect together such that they stand out the construction site behind them and are visible by day and night.</p>	

	<p>Step 5 Daywork</p>	<p>Fill in the water to the maximum water level of every water filled barrier according to the operating instructions of the manufacturer.</p> 
	<p>Step 6 Daywork</p>	<p>Check whether the water level is between the lowest water level and the highest water level daily. If there is no water after a day, it means that the cover is loose or the barrier is broken, so we should tighten the cover or replace it with a new water-filled barrier.</p> 
	<p>Step 7 Daywork</p>	<p>6T telescoping crawler crane shall be used to relocate profile barrier at the bottom ground level near slope in order to create enough space for set-up new water filled barrier.</p> <p>The jib will extend and reach to ahead corresponding profile barrier. Workers shall attach proper lifting gears upon two rigging points of every profile barrier. Double taglines shall be used (5m long) at two sides of profile barrier. When the profile barrier is being lifted up, riggers should keep at least 3m clearance away from the lifting object and hold the tagline to guide the lifting object during work. The profile barrier will move toward middle part of slow lane in 1m distance.</p>  <p>Typical Section of Shun Long Road at SHW Depot Section (Profile Barrier exist)</p>

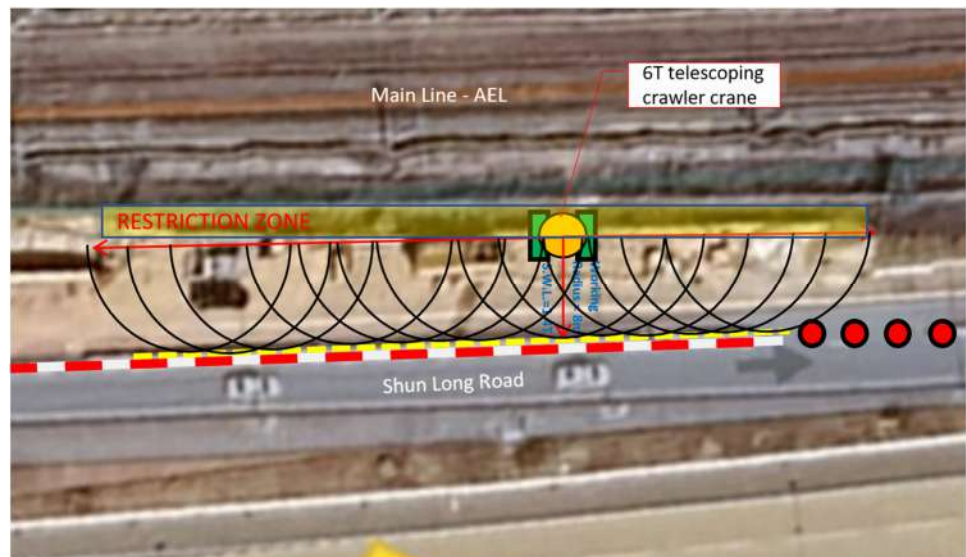


Transportation Plan for Crawler crane from W1 to slip road

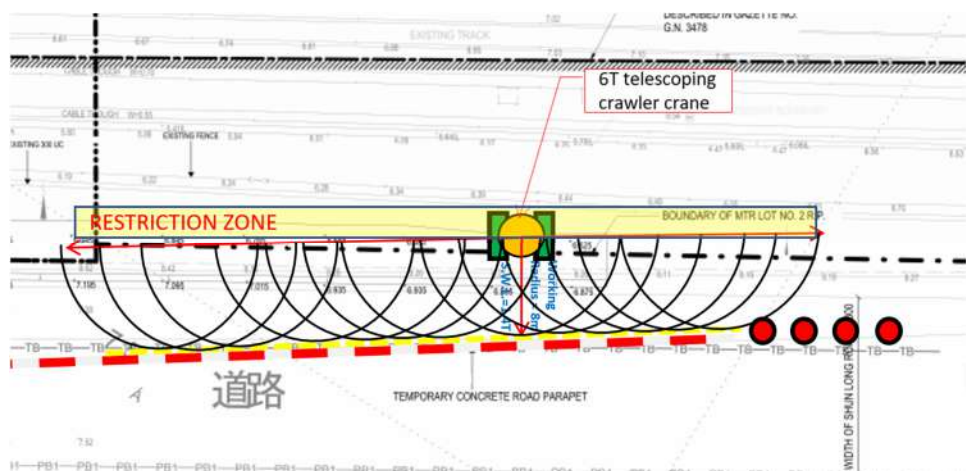




6T telescoping crawler crane will be delivered on site and unloaded at W1 (CA). Crane operator then drives it to slip road from W1(CA) to W1B(CA).

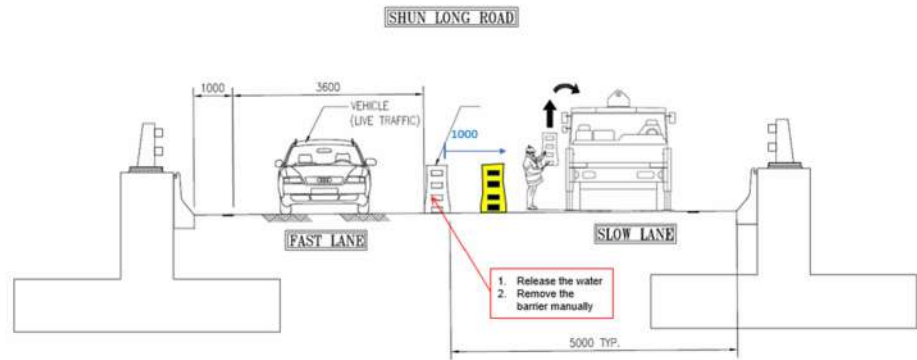


Lifting Plan for relocation of profile barrier (Aerial picture)

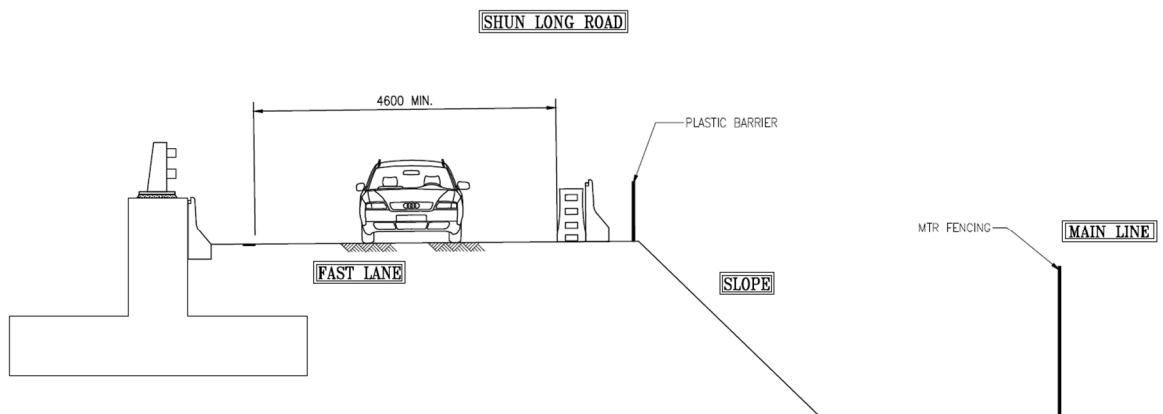


Lifting Plan for relocation of profile barrier (Working Drawing)

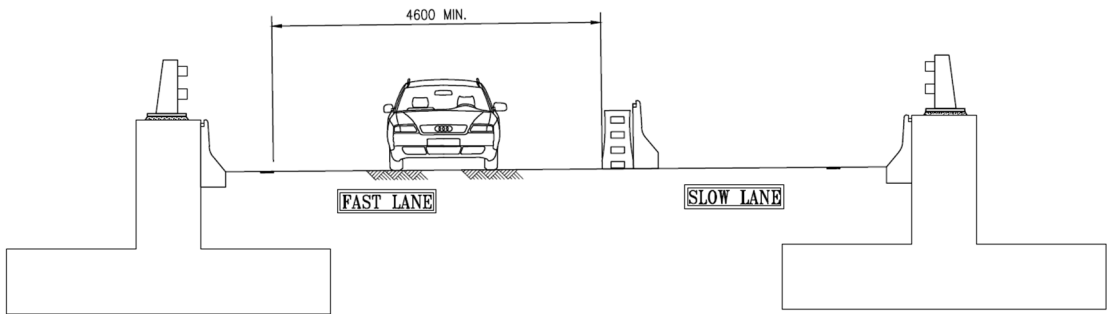
		<p><u>Lifting Plan for Relocation of Profile Barrier</u> MODEL: CC1485S-1 (MAEDA, JAPAN) BOOM LENGTH: 10.505m WORKING RADIUS: 8m @ S.W.L.=1.45T WEIGHT OF LIFTING OBJECT: 0.575T (Profile Barrier) WEIGHT OF LA/LG: 0.2T TOTAL WEIGHT: 0.2+0.575=0.775T LIFTING CAPACITY: 0.775T/1.45T=53.45% (<75%, LIFTING APPROVAL)</p>
	<p>Step 8 Daywork</p>	<p>Repeat Step 1 to Step 7 until water filled barriers are full-loaded.</p>
	<p>Step 9 Nightwork</p>	<p>Release drain hole at the bottom position of existing water-filled barrier to discharge water from inside to outside. A few moment later, workers shall manually take away empty water filled barrier upon flatbed of crane lorry/flatbed truck. A traffic vehicle with LED arrow board is required to stay behind and keep proper distance with ahead crane lorry/flatbed truck to prevent any residual risk. Repeat above step for several time until both empty water filled barriers are being removed. This work will take place at midnight for secure reason. The numbers of vehicle on road will drop significantly therefore the opportunities to be hit is reduced.</p>



Typical Section of Shun Long Road at SHW Depot Section



**Typical Section of Road Widening of Shun Long Road Fast Lane at SHW Depot Section
(at slope)**

	 <p style="text-align: center;"><u>Typical Section of Road Widening of Shun Long Road Fast Lane at SHW Depot Section (at viaduct)</u></p>
8.	Safety (Risk Assessments)
	<p>Risk Assessment attached in Appendix A has been prepared for all general activities. Specific safety procedures and precautions have been developed for all site operatives to follow. The Construction Manager together with the RSO, will supervise the implementation and make adjustment according to the actual site operations, in order to maintain a safe and amicable working environment.</p>
9.	Environmental (Environmental aspect & impact identification as well as mitigation measures)
	<p>General works shall be carried out during normal hours from 08:00 am to 07:00 pm. No works will be carried out after 07:00 pm on Sunday or public holiday without approval construction noise permit.</p> <ul style="list-style-type: none"> - ULSD diesel will be used in all PME. - Plant with QPME label will be employ, if available. - All chemicals will be placed on drip tray. - For site clearance, water spray will be carried out during the work to prevent dust generation. - Waste water treatment and discharge will be installed on site. The details shall refer to the separate Method statement which will be submitted separately. <p><u>Smoke Arrangement</u></p> <ul style="list-style-type: none"> - All workers can only smoke at designated area; - All workers are forbidden to throw cigarette butts on the ground;
10.	Quality Control (Inspection and Test Plan including hold points)
	<ul style="list-style-type: none"> - Quality check for the water filled barrier once it delivered to site - Checking the water-level of water filled barrier every day
11.	Appendices (Identify and include additional information in the submission package)
	<p>Appendix A – Risk Assessment Appendix B – Catalogue for Equipment Appendix C – Inspection and Test Plan Appendix D – Emergency Contact List</p>