

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

UU	Type of Services	Standard/Typical Drawings or Photos of Services (See attachment)	Guidelines Available (Y/N)	Title or Drawing No. and Issue Date of the Guideline	Maximum Separation of Support	Special Requirement for Supporting Joint/Services
The Hongkong Electric Co., Ltd.	Power Cable up to 22kV (with or without duct (150mm or below diameter)) and Cable Joint	Photo Nos. 1-6 (Attachment 1)	Y	1. General Practice on Execution of Excavation and Construction Work Near Underground Electricity Cables (dated 02/2007) (Attachment 1) 2. Leaflets on “Beware of Cable Damage, It Could Cause Injury!” (dated 01/2006) (Attachment 1)	Maximum 1 metre	Cable joint has to be supported properly in accordance with the guidelines and drawing provided. Joints to be properly covered by sand bags and fire blanket.
	132kV & 275kV Power Cable (with or without duct (200-250mm diameter)) and Cable Joint	Photo Nos. 7-11 (Attachment 1)	Y	- ditto-	Not allowed without prior approval of HEC	275/132kV concrete cable slab covers should not be removed without the consent of HEC. Method of support of cable, if required, to be agreed with HEC beforehand. Support of cable joints and excavation underneath of cable joints are not allowed.

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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The Hongkong Electric Co., Ltd. (Cont'd)	Communication Cable (with or without duct (150mm or below diameter)) and Cable Joint	Photo Nos. 12-14 (Attachment 1)	Y	- ditto-	Maximum 1 metre	Cable joint has to be supported properly in accordance with the guidelines and drawing provided. Joints to be properly covered by sand bags and fire blanket.
	Power overhead line tower/pole	Photo Nos. 15-16 (Attachment 1)	N	N/A	Not allowed without prior approval of HEC	
	Distribution/Transformer Pillar	Photo Nos. 17-18 (Attachment 1)	N	N/A	Not allowed without prior approval of HEC	
	Manhole/Underground Pit	Photo No. 19 (Attachment 1)	N	N/A	Not allowed without prior approval of HEC	

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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The Hongkong Electric Co., Ltd. (Cont'd)	275/132kV Transmission Cable Joint Bay Concrete Structure	Photo No. 20 (Attachment 1)	N	N/A	Not allowed without prior approval of HEC	
CLP Power Hong Kong Ltd.	Power Cables up to 33kV	(Attachment 2)	Y	Guidelines for Contractor Working in the Vicinity of Electricity Cables & Overhead Lines (dated 08/2006) (Attachment 2)	Maximum 1 metre	Cable joint needed to be supported properly in accordance with the CLPP's guidelines. Joints to be properly covered with sand bags.

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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CLP Power Hong Kong Ltd. (Cont'd)	132kV & 400kV Power Cables	(Attachment 2)	Y	- ditto-	Not allowed before CLPP's consent is obtained	Cable marker tapes, protective covers and L-shape concrete block should not be removed, and moving or overhanging of cable joint is strictly prohibited, unless CLPP's consent is obtained. Support of cable joint and excavation underneath of cable joint and manhole are not allowed. The method of cable support should be agreed and in accordance with the CLPP's requirements.
	Communication Cables	(Attachment 2)	Y	- ditto-	Maximum 1 metre	Cable joint needed to be supported properly in accordance with the CLPP's guidelines. Joints to be properly covered with sand bags.

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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Drainage Services Department	Pipes	(Attachment 3)	N		One support shall be placed adjacent to each end of each pipe and the spacing between supports shall not exceed 1.5 m	Joints shall be supported properly. Method of support with protection measures shall be approved by DSD before commencement of excavation or immediate after exposure of DSD's pipes.
	Manholes	(Attachment 3)	N		Not allowed without prior approval of DSD	

Detailed Requirements on Support of Utility Services
 (Version 08 dated 28/7/2007)

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Highways Department	Public Lighting Cables & Cable Ducts	Drawing No. HLSDGE01 - CL0005C “Unplasticized PVC AND G.I. DUCTS” (Attachment 4) Drawing No. LSDGE01 – CL0022B “DETAILS OF CABLE TRENCH AND DUCT CROSSING” (Attachment 4)	N	N/A	Maximum 2 metres. Method of support to be agreed with Chief Engineer/Lighting, Highways Department beforehand	Cable joint has to be supported properly. Method of support to be agreed with Chief Engineer/Lighting, Highways Department beforehand

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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Highways Department (Cont'd)	Other installation e.g. lighting column, public lighting controller,	Drawing No. HLDSDGE01 – CL0003C “DETAILS OF POLE SOCKET FOUNDATION” (Attachment 4)	N	N/A	Not allowed without prior approval of Chief Engineer/Light ing, Highways Department Method of support to be agreed	
Hong Kong Broadband Networks Ltd.	Ducts	(Attachment 5)	Y		Max. 1.5 metre	Method statement for ducts supporting is submitted to HKBN for comment.
	Cables	(Attachment 5)	Y		Not allowed without prior approval of HKBN	Method statement for cables supporting is submitted to HKBN for comment.

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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Hong Kong Broadband Networks Ltd. (Cont'd)	Joint Box	(Attachment 5)	Y		Not allowed without prior approval of HKBN	Method statement for Joint Box supporting is submitted to HKBN for comment.
Hong Kong Cable Television Ltd.	Cables and ducts	(Attachment 6)	Y	Drawing No. TMSC01 (dated on 14/11/2006) (Attachment 6)	Max 1.5 metre	Cables and ducts have to be supported properly and a wooden plate is added at the bottom of ducts and cables.
	Joints	(Attachment 6)	Y	Drawing No. TMSC03 (dated on 15/11/2006) (Attachment 6)	Not allowed without prior approval of HKC	Joints have to be supported properly and a wooden plate is added at the bottom of joints.
	Joint box	(Attachment 6)	Y	Drawing No. TMSC02 (dated on 15/11/2006) (Attachment 6)	Not allowed without prior approval of HKC	Method statement for joint box supporting is submitted to HKC for comment.
Hong Kong Tramways, Ltd.	Tram track	Drawing No.	Y		1 metre	For works across tram track,

Detailed Requirements on Support of Utility Services
 (Version 08 dated 28/7/2007)

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		A-220-S0458-Sheet 1 to 3 (Attachment 7)				<p>tunneling method must be used. The standard method of supporting underneath tram track is shown in the drawing.</p> <p>After the completion of works, the excavated area for tunneling shall be backfilled by foam concrete to HyD standard.</p> <p>Provide settlement markers on tram track for track level monitoring on daily basis.</p> <p>Analyze the level monitoring result and submit the result to us on daily basis for record purpose.</p> <p>Avoid any settlement of the tram track or track foundation which is caused by your works. Suspend all</p>

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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						<p>site works, notify Tramways and carry out the rectification works to our satisfaction at once in case any settlement is observed.</p> <p>Contact our operations manager if your works would affect tram operation.</p> <p>Formal reply from your company on the acceptance of the above requirements; otherwise, we shall not approve the commencement of your works.</p>

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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Hong Kong Tramways, Ltd. (Cont'd)	Tram pole	Drawing No. A-200-S0014 (Attachment 7)	Y		1 metre	The foundation size is 1.0m(L) x 1.0m(W) x 2.0m(D). In either case that your work is within 1.0m clearance from the tram pole, or the foundation of temporary tram pole is required to be broken, proper structural support with RSE structural design calculation shall be provided to us to ensure that there is no safety hazard to the public. After your installation completion, the damaged pole foundation shall be properly backfilled by concrete in the presence of our staff.
	Underground power cable	Drawing No. A-260-S0035 (Attachment 7)	Y		1 metre	The actual installation of underground power cables shown in drawings may vary subject to site condition.

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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Hutchison Global Communications Ltd.	Telecom cable / duct	(Attachment 8)	Y	Guideline for support of HGC external plant (Attachment 8)	Maximum 1.5 metre	Ensure enough cable slack before duct / cable supporting work Supporting work should be under HGC site supervision. Removal of concrete surrounding to HGC duct will not be allowed.
	Jointing chamber	(Attachment 8)	Y	- ditto-	Maximum 1.5 metre	Ensure enough cable slack before jointing chamber supporting work. Supporting work should be under HGC site supervision.
New World Telecommunications Ltd.	Duct With Cable	Photo 1 (Attachment 9)	Y	NWT UG 059 (dated 28/07/2004) (Attachment 9)	Maximum 1.5 metre	Adequate support must be provided to the duct and cable as showing in the reference drawing no. NWT UG 059
	Cable Joint	Photo 2 (Attachment 9)	Y	NWT UG 060 (dated 07/07/2000) (Attachment 9)	Not allowed without prior approval of NWT	Adequate support must be provided to the cable joint as showing in the reference drawing no. NWT UG 060

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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New World Telecommunications Ltd. (Cont'd)	Joint Chamber	Photo 3, 4 and 5 (Attachment 9)	Y	NWT UG 061 (dated 07/07/2000) (Attachment 9)	Not allowed without prior approval of NWT	Adequate support must be provided to the jointing chamber as showing in the reference drawing no. NWT UG 061
PCCW Ltd.	Ducts	Photo Nos. 1-4 (Attachment 10)	Y	(Attachment 10)	Not allowed without prior approval of PCCW	Method of support with protection measures to be agreed with PCCW beforehand. Typical supporting requirements shown on PCCW Drawing EX UG 169.
	Cables	Photo No. 5 (Attachment 10)	Y	(Attachment 10)	Not allowed without prior approval of PCCW	Method of support with protection measures to be agreed with PCCW beforehand. Typical supporting requirements shown on PCCW Drawing EX UG 167.
	Joints	Photo No. 6 (Attachment 10)	Y	(Attachment 10)	Not allowed without prior approval of PCCW	Method of support with protection measures to be agreed with PCCW beforehand. Typical supporting requirements shown on PCCW Drawing EX UG 168.

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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PCCW Ltd. (Cont'd)	Manholes/Joint box	Photo Nos. 7-12 (Attachment 10)	Y	(Attachment 10)	Not allowed without prior approval of PCCW	Method of support with protection measures to be agreed with PCCW beforehand. Typical supporting requirements shown on PCCW Drawing EX UG 170.
The Hong Kong and China Gas Co., Ltd.	Ductile Iron Pipe and Galvanized Iron Pipe	(Attachment 11)	Y	(Attachment 11)	Maximum 2.2 metres	<ul style="list-style-type: none"> ● Support should elastic enough to absorb any shock loads. A slab of rubber or other resilient material should be wrapped round the pipe before supports are installed. ● Supports should rigid enough to suppress side swing and lateral movements of the pipe. ● At least 3 support for a 5.5 metres long pipe. ● Supports for joint should not be more than 600mm away from the socket glands.

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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The Hong Kong and China Gas Co., Ltd. (Cont'd)	Polyethylene (PE) Pipe	(Attachment 11)	Y	(Attachment 11)	Maximum 1.0 metre for pipes less than 250mm. Maximum 2.0 metres for 250mm pipe and above	<ul style="list-style-type: none"> ● Must be protected from direct exposure to Sun (UV) light. ● Fire retardant wrapping should be applied to the exposed PE pipe. ● Support should elastic enough to absorb any shock loads. A slab of rubber or other resilient material should be wrapped round the pipe before supports are installed. Supported by wire directly is PROHIBITED.

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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The Hong Kong and China Gas Co., Ltd. (Cont'd)	Steel Pipe	(Attachment 11)	Y	(Attachment 11)	Max 8.0 m for all steel pipe	<ul style="list-style-type: none"> ● No direct metal to metal contact. Rubber or other resilient material should be placed in between. ● No point loading to the gas main is allowed. ● The support should be rigid enough to support the exposed gas pipe section. ● The exposed gas pipe section should be well protected against external impact. ● A 24 hour free access should be provided for HKCG's personnel inspection.

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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Towngas Telecom	Cable and duct	(Attachment 12)	Y	(Attachment 12)	Up to 1.6m	Adequate support should be provided. Wooden plate should be provided at the bottom of duct for supporting.
	Joint	(Attachment 12)	Y	(Attachment 12)	Not allowed without prior approval of TGT	Adequate support should be provided. Wooden plate should be provided along the bottom of the cable joint for supporting.
	Joint box	(Attachment 12)	Y	(Attachment 12)	Not allowed without prior approval of TGT	Method statement is required to submit to TGT for consent.

Detailed Requirements on Support of Utility Services
(Version 08 dated 28/7/2007)

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Water Supplies Department	Water mains, cables, valves, bend blocks	(Attachment 13)	Y	Guidelines for Excavation near Water Mains (April 2000) & How to Prevent Damage to Water Mains (April 2000) (Attachment 13) Examples of Good Practice in Protection of Water Main (Attachment 13)	Depending on type, size and length of existing services exposed	Exposed services to be protected and supported properly in accordance with WSD's "Guidelines for Excavation near Water Mains". Thrust blocks should not be disturbed or exposed without providing proper support and WSD's prior agreement. In difficult site condition (i.e. deep excavation), WSD should be consulted prior to excavation.

Wharf T&T Ltd.	Cable and Duct	Photos No 5 (Attachment 14)	To be issued soon	N/A	1.5 m	Cable and ducts have to be supported properly and. typical supporting requirements refer WT&T Drawing UGS1.
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(Version 08 dated 28/7/2007)

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	Joint and Joint Box	Photos no 1 to 4 (Attachment 14)	To be issued soon	N/A	Not allowed without prior approval of WT&T	Method of support with protection measures to be agreed with WT&T before work commence and. typical supporting requirements refer WT&T Drawing UGS2 and UGS3

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