

26 January 2023

Our Ref LTA/RLE/O25.001.000/2023004652225

Your Ref

DID

Fax

Association of Consulting Engineers Singapore
18 Sin Ming Lane
#06-01 Midview City
Singapore 573960

Attn: Er. Chuck Kho, President

Dear Er. Kho,

REQUIREMENT FOR QUALIFIED PERSON (DESIGN) TO ENDORSE ON SUBMISSIONS WHERE STATUTORY ENDORSEMENT IS NOT REQUIRED INCLUDING SHOP DRAWINGS AND BAR BENDING SCHEDULE

I refer to your letter dated 13 January 2023.

Thank you for your feedback and suggestions with regards to the above subject matter. Please allow me to clarify some of the points that you raised. While I note the Qualified Person (Design)'s [QP(D)] responsibility in submitting the drawings and obtaining the ST approval from the Building and Construction Authority (BCA), and the Builders' responsibility in developing and preparing the shop drawings from the BCA ST approved drawings for the purpose of construction, we are of the view that QP(D) also plays an important role in the built environment ecosystem to ensure that the construction works are carried out safely and in accordance with the QP(D)'s design intent. Hence, the requirements for reviewing of shop drawings, bar bending schedules and any other non-statutory submissions by QP(D) were incorporated in the contracts for all LTA projects.

I would also wish to clarify that currently, there is no requirement of QP(D)'s statutory endorsement on the shop drawings. However, the QP(D) and/or their authorised representative in the LTA projects have been reviewing the shop drawings and signing off in the review check-box on the shop drawings. A sample copy of the check-box on shop drawings is attached. The reviewing process has proven to be relevant and effective, as there were occasions whereby the QP(D) and/or authorised representative did pick up detailing in the shop drawings that deviated from the BCA ST approved drawings which required corrections prior to construction.

QP(D)s are allowed to state their assumptions and conditions in their reviews, including comments and required clarifications. However, it is important that the QP(D) should still check that the shop drawings meet the design intents, are fit for purpose and are in accordance to the BCA ST approved drawings.

Page 2 of 2
26 January 2023
LTA/RLE/O25.001.000/2023004652225

On the suggestion of ensuring sufficient resource allocation for the service, the design responsibilities and scopes for the QP(D) have been clearly specified in the Particular Specification and General Specification for both Build-only and Design & Build contracts. Hence, we are of the view that the QP(D) should have planned for adequate resources to support the construction phase.

Should any of your member(s) involved in LTA projects have further feedback and query, they can approach the Project Director in charge of the specific project to seek clarification.

Yours faithfully



Er. CHUA CHONG KHENG
DEPUTY CHIEF EXECUTIVE
(INFRASTRUCTURE & DEVELOPMENT)

Encl.

Sample of Review Check-Box on Shop Drawings by QP(D) from LTA Projects

SHOP DRAWING SUBMISSION	
<u>Submission Status</u>	
<input checked="" type="checkbox"/> No objection for use in construction	
<input type="checkbox"/> Contractor to revise and resubmit	
<input type="checkbox"/> Contractor to revise.No resubmission required	
Date Received: 5/1/2023	
Date Returned: 5/1/2023	
Reviewed By:	[REDACTED]
Signature:	[REDACTED]
<u>Note</u>	
This review covers only the checking of the general conformance and compliance with the design concept and the design intent as per the Construction/Working Drawings and the Engineer's Specifications . Under no circumstances does this review relieve the Contractor(s) / Sub-Contractor(s) of their contractual obligations as stated in the Contract / Sub-Contract. Neither does this review relieve the Contractor(s) Sub-Contractor(s) of his/her responsibility for all errors and omissions in this submission irregardless of whether the errors and / or omissions were identified and commented upon during the review.	

SHOP DRAWING SUBMISSION	
<u>Submission Status</u>	
<input type="checkbox"/> No objection to use in construction.	
<input checked="" type="checkbox"/> Contractor to revise and no resubmission required	
<input type="checkbox"/> Contractor to revise and resubmission required	
Date Received: 5 Decemeber 2022	
Date Returned: 9 December 2022	
Reviewed By:	[REDACTED]
Signature:	[REDACTED]
[REDACTED]	
<u>Note:</u>	
<ul style="list-style-type: none">• This review covers only the checking of the general conformance and compliance with the design intent/approved working drawings.• Where re-submission is required, submit re-drawings for review prior to proceeding with work.• The review does not extent to dimensions, setting out to the work, and does not relieve the contractor of his responsibilities.• Works shall also conform to the specifications, other relevant drawings and to all statutory/authoritative requirements having jurisdiction over the installation.• Under no circumstances dose this review w relieve the contractor(s)/Sub-contractor(s) of their responsibilities/contractual obligations.	

26 January 2023
LTA/RLE/O25.001.000/2023004652225

Cc Er. Ng Man Hon
Director, Procurement Policies Department,
Building and Construction Authority
Email: NG_Man_Hon@bca.gov.sg

Mr. Wong Wee Yoo
Group Director (Development & Procurement)
Housing Development Board
Email: WONG_Wee_Yoo@hdb.gov.sg

Mr. Herman Ching
Director, Procurement & Contracts
Public Utilities Board
Email: herman_ching@pub.gov.sg

Er. Mr Tan Chee Kiat
Group Director, Engineering
JTC Corporation
Email: TAN_CHEE_KIAT@JTC.GOV.SG

Er. Koh Beng Thong
Chief Healthcare Infrastructure Projects Officer
MOH Holdings Pte Ltd
Email: bengthong.koh@mohh.com.sg; procurement@mohh.com.sg

Mr. Danny Tan
Director, Procurement
National Parks Board
Email: danny_tan@nparks.gov.sg

Mr. Desmond TAN Kek Chon
Group Director (Infrastructure and Engineering Group)
National Environment Agency
Email: Desmond_TAN@nea.gov.sg

Mr. Charanjit Singh
Director, Capability Planning, Central Procurement Office
Ministry of Home Affairs
Email: Charanjit_SINGH@htx.gov.sg

Mr. Lee Wee Khong
Senior Director, Procurement Department
Ministry of Education
Email: lee_wee_khong@moe.gov.sg