

工程指示 / 要求簡箋(E.I.)

工程指示編號：EI / 2118 / 20

修改版次：-

工程編號：J - 852

工程名稱：亞皆老街中電

工程項目：佛沙窗優先出貨 指示

收件人：生統 *(Signature)* 發件人：Ant Yeung 日期：14/07/2020

要求提供 /  確認 事項：

- |                                    |                                     |                               |
|------------------------------------|-------------------------------------|-------------------------------|
| <input type="checkbox"/> 初步鋁料 B.M. | <input type="checkbox"/> 加工拆圖，然後生產  | <input type="checkbox"/> 尺寸表  |
| <input type="checkbox"/> 正式鋁料 B.M. | <input type="checkbox"/> 技術上資料 / 指示 | <input type="checkbox"/> 報價   |
| <input type="checkbox"/> 配件 B.M.   | <input type="checkbox"/> 樣辦或貨品說明書   | <input type="checkbox"/> 分判合約 |

內容：

按佛沙場要求佛沙窗需優先送貨供業主驗收佛沙。謝謝

涉及 EI2091，5 件 / 2092，2 件

請在 2020 / 07 / 16 前完成上列要求。

附：1 頁

以上項目為：

- 原合約工程包                       原合約工程加 / 減賬                       新工程報價

原因：-

分發東莞各部門：

- ( ) 生產技術總監  連附件    ( ) 技術部  連附件    ( ) 生產部  連附件    ( ) 機械設計部  連附件  
 ( ) 採購部  連附件    ( ) 生產統籌部  連附件  
 ( ) 質檢部  連附件    ( ) 會計部  連附件    ( ) 報關組  連附件    ( ) 其他 楊榮輝  連附件

分發其他分判：

- (v) 水洪  連附件

分發香港各部門：

- ( ) 行政部  連附件    ( ) 會計部  連附件    ( ) 統籌部  連附件    ( ) 工程部地盤科文  連附件  
 (v) 採購部  連附件    ( ) QS 部  連附件    ( ) 維修部  連附件    ( ) 其他 \_\_\_\_\_  連附件

傳遞編號：

HK 1411 / 20

發件人簽署：*(Signature)*

項目經理簽署：*(Signature)*

15<sup>th</sup> Jun, 2020

Our Ref.: 2020/06/PD/0652

**Gammon Construction Limited**

22/F, Tower 1, The Quayside  
77 Hoi Bun Road, Kwun Tong  
Kowloon, Hong Kong

Attn.: Mr. Dick Yuen / Mr. Chris Kwok

樓上  
16/7  
2118  
LHC 1410

Dear Sir,

**Proposed Residential Development at 139-147, Argyle Street, Kowloon**

**Proposal of the Scope and the Inspection Arrangement of Trial Facade Panels Production**

Further to the ITP review meeting on 26May, we would like to submit the proposal regarding to the scope and the inspection arrangement of trial facade panels production for project team's approval.

- 1 According to Sino's SOP T033B – Quality Control Arrangement Section 1.3 (see Appendix B) and the ITP (rev. 4) of WHS (see Appendix C), trial panels shall be produced for assessment and improvement of the quality and details of precast facade before mass production.
- 2 Referring to the previous ITP review meetings, MFT advised the scope of trial panels should follow the number of types of precast facades in the BD approved drawings.
- 3 Below table listed the scope of the proposed trial panels to be fabricated before mass production. Please refer to Appendix A for the BD approved drawings and the Facade shop drawings related to each trial panel.

Trial Panel No.	BD Drawing Type	Facade Model No.	Precast Steel Mould No.
#01	Type A ①	T3 PF-01 W3-T3A	FM12 e12091
#02	Type B ②	T2 PF-05 W3-T2A	*FM01 e12091
#03	Type C ③	T1 PF-16 W5-T1A	*FM04 e12092
#04	Type D ④ (附圖)	T3 PF-17 X	FM02
#05	Type E ⑤	T1 PF-24 W6-T1A	FM07 e12092
#06	Type F ⑥	T3 PF-18 W8-T3A	FM10 e12091
#07	Type G ⑦	T3 PF-19 W7-T3B	FM07 2/2 2091
#08	Type H ⑧	T3 PF-25 W6-T3C	*FM04 ✓ e11971 有
#09	Type J ⑨	T3 PF-27 W3, W4-T3C	FM10 ✓ e11971 有
#10	Type K ⑩	T3 PF-34 W4, W5-T3B	FM03 e12091
#11	Type L ⑪ (附圖)	T2 PF-40 X	*FM05

Note: Please note that there is no Type I in the BD approved drawing

\* Precast steel mould arrived precast factory

2091 ⑤ 54 2092 264

- 4 Due to COVID-19, the pre-concreting and post-concreting inspection of trial panels will be replaced and conducted by video-telephony. The stationed RE of MFT and the full time engineer of Gammon will carry out the inspection in the factory, while OSR will witness the inspection via video-telephony. WHS production and QA/QC staff will provide assistance throughout the inspection. The inspection checklist/photo record/forms to be kept should refer to ITP (rev. 4) of WHS as listed in Appendix C.
- 5 Pre-concreting inspection procedures
  - 5.1 Perform pre-concreting inspection according to item C1 – C6 of ITP (rev. 4) of WHS
  - 5.2 Keep all necessary photo records and inspection result during the inspection
  - 5.3 If defect is found, WHS will make good and provide make good photo until OSR's and/or RE's satisfaction before placing concrete.
- 6 Post-concreting inspection procedures
  - 6.1 Perform post-concreting inspection according to item E1 – E7 of ITP (rev. 4) of WHS
  - 6.2 Keep all necessary photo records and inspection result during the inspection
  - 6.3 If defect is found, WHS will make good and provide make good photo until OSR's and/or RE's satisfaction before delivery to site.

Thank you for your attention.

Yours faithfully,

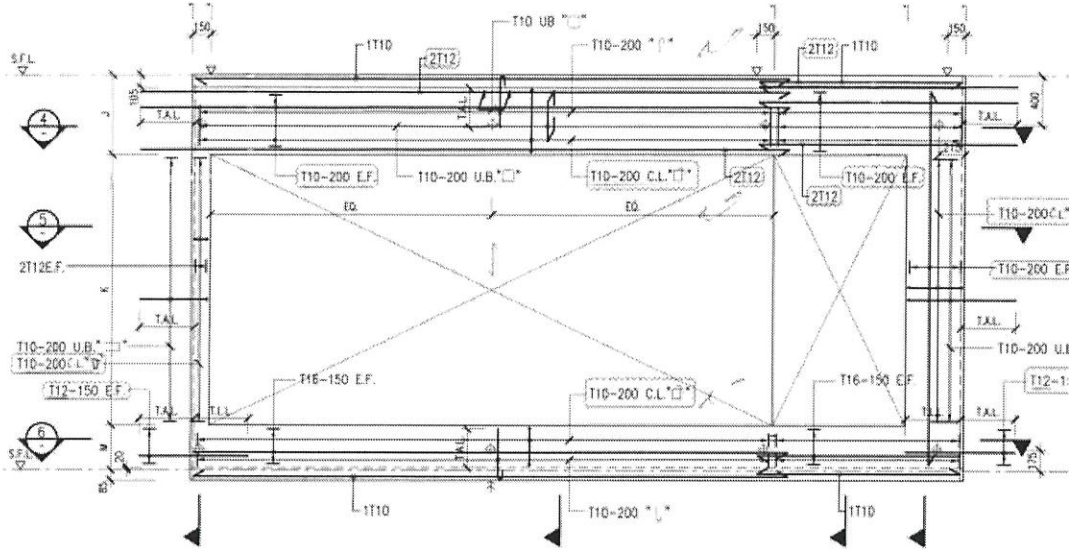
For and on behalf of  
Wing Hong Shun Enterprises Limited

Calvin Lee

Calvin Lee  
Project Manager

Appendix A – Proposed Trial Panels and the Relevant BD Approved Drawings / Facade Shop Drawings

**Trial Panel #01 – BD Approved Drawing Type A / Facade Shop Drawing T3 PF-01**

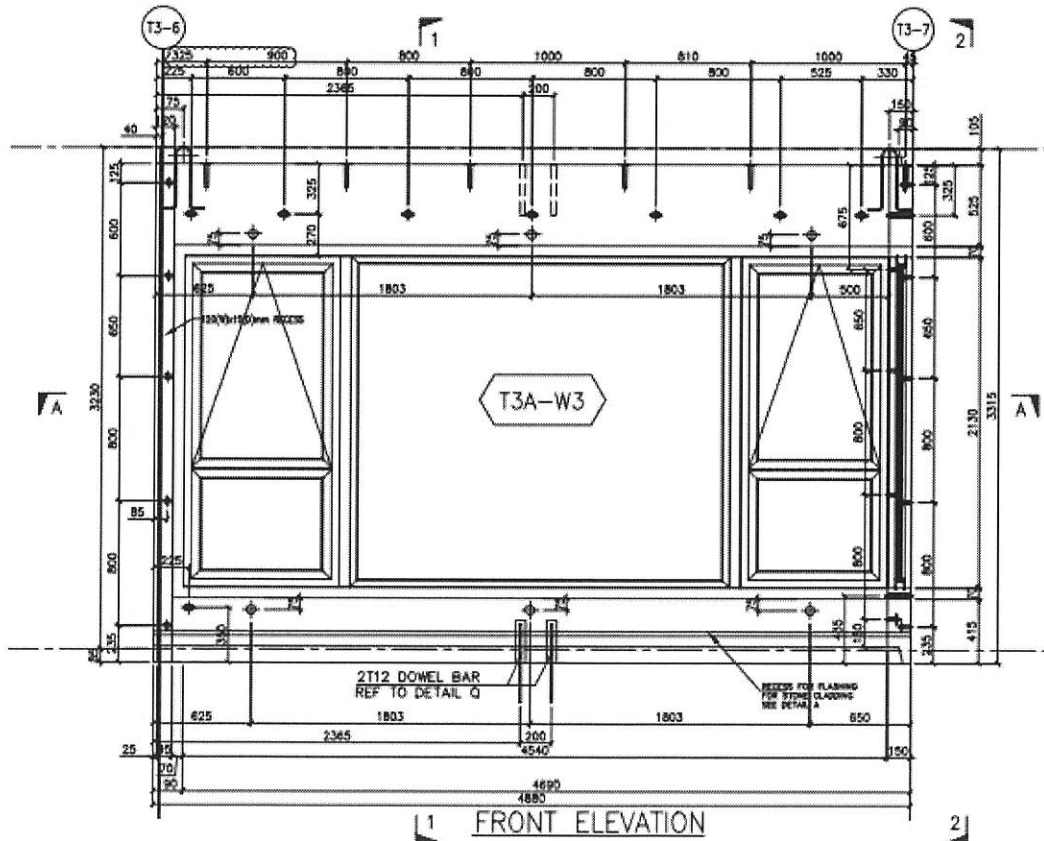


FRONT ELEVATION OF TYPE A PRECAST FACADE

SCALE: 1:25

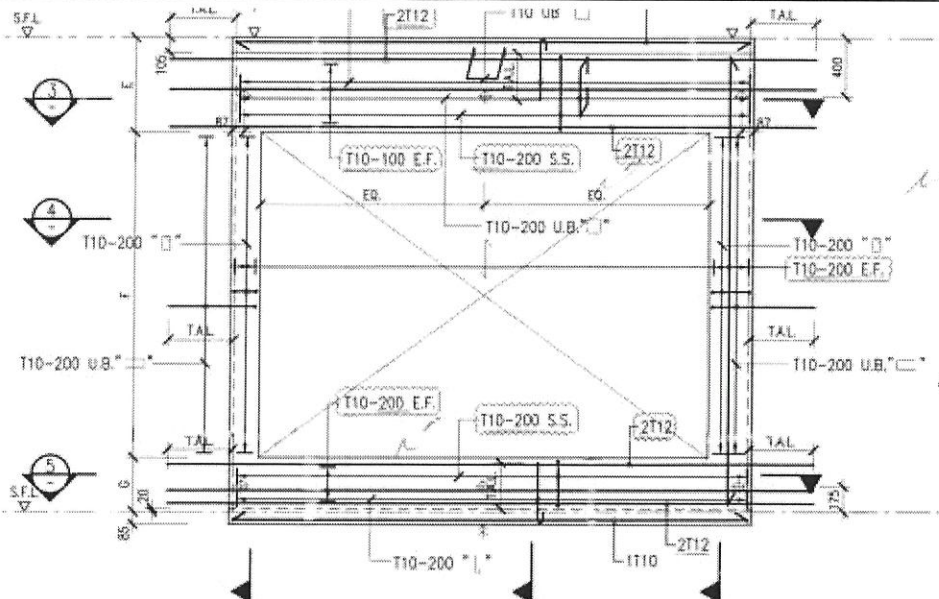
DIMENSION TABLE OF TYPE A

TYPE	PRECAST FAÇADE MARK	DIMENSION (MM)									REMARK
		A	B	C	D	G	H	J	K	M	
Type A	PF01	4880	1620	190	4690	1100	500	700	2130	400	
	PF12	5250	1625	960	4690	1100	525	700	2130	400	MIRRORED



FRONT ELEVATION

**Trial Panel #02 – BD Approved Drawing Type B / Facade Shop Drawing T2 PF-05**

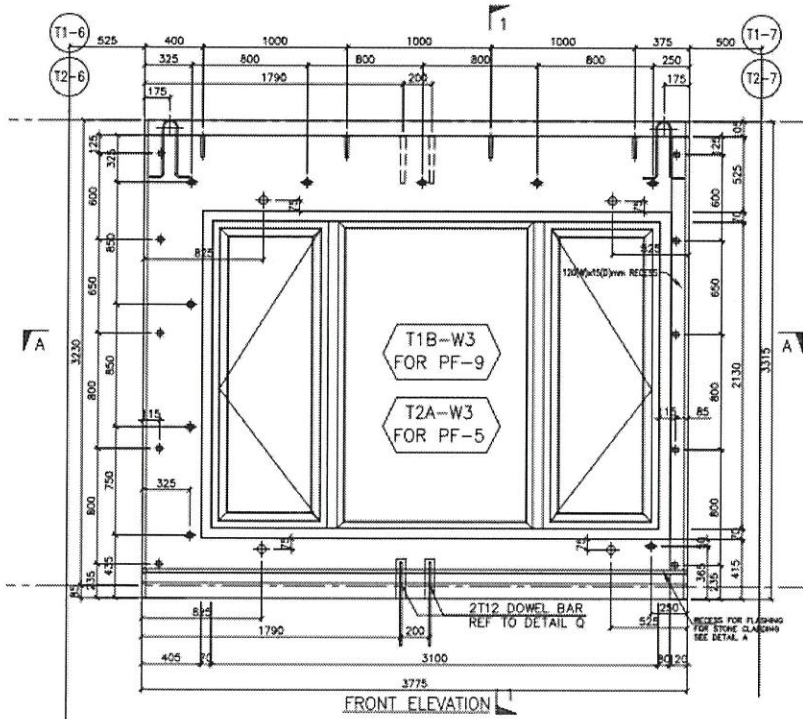


**FRONT ELEVATION OF TYPE B PRECAST FACADE**

SCALE: 1:25

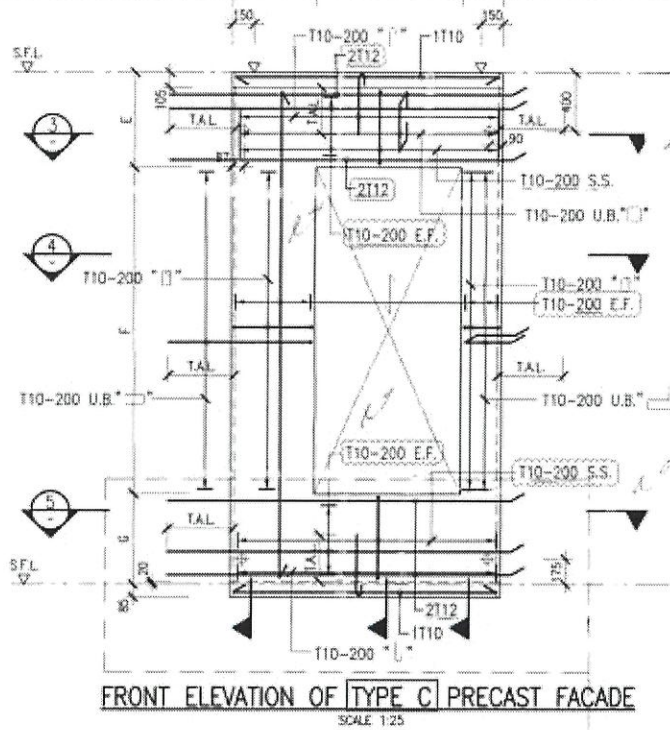
**DIMENSION TABLE OF TYPE B**

TYPE	PRECAST FACADE MARK	DIMENSION (MM)						REMARK	
		A	B	C	D	E	F		G
Type B	PF02	3650	225	3100	325	700	2130	400	-
	PF03	3150	225	2700	225	700	2130	400	-
	PF04	3775	200	3100	475	700	2130	400	-
	PF05	3775	475	3100	200	700	2130	400	-
	PF06	3650	475	2700	475	700	2130	400	-
	PF07	3650	475	2700	475	700	2130	400	-
	PF08	3775	200	3100	475	700	2130	400	-
	PF09	3775	475	3100	200	700	2130	400	-
	PF10	3150	225	2700	225	700	2130	400	-
	PF11	3650	325	3100	225	700	2130	400	-



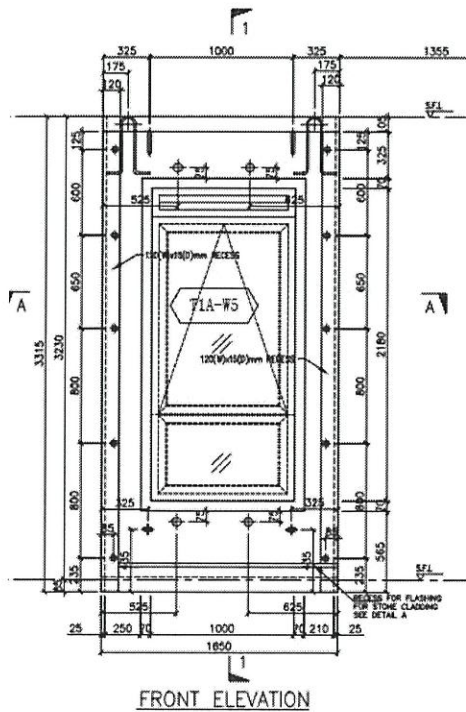
**FRONT ELEVATION**

**Trial Panel #03 – BD Approved Drawing Type C / Facade Shop Drawing T1 PF-16**



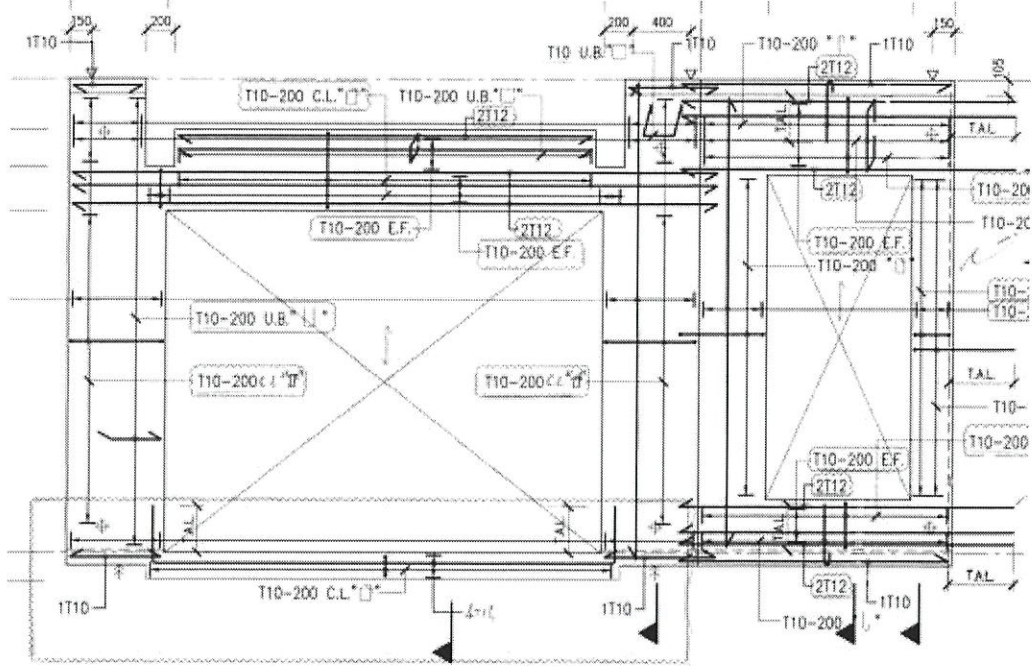
**DIMENSION TABLE OF TYPE C**

TYPE	PRECAST FACADE MARK	DIMENSION (MM)							REMARK
		A	B	C	D	E	F	G	
Type C	PF13	1910	605	1000	305	500	2180	550	-
	PF14	1650	305	1000	345	500	2180	550	-
	PF15	1910	305	1000	605	500	2180	550	-
	PF16	1650	355	1000	305	500	2180	550	-
	PF26	1555	225	1100	230	700	2130	400	-
	PF29	1555	225	1100	230	700	2130	400	-
	PF32	1555	225	1100	230	700	2130	400	-





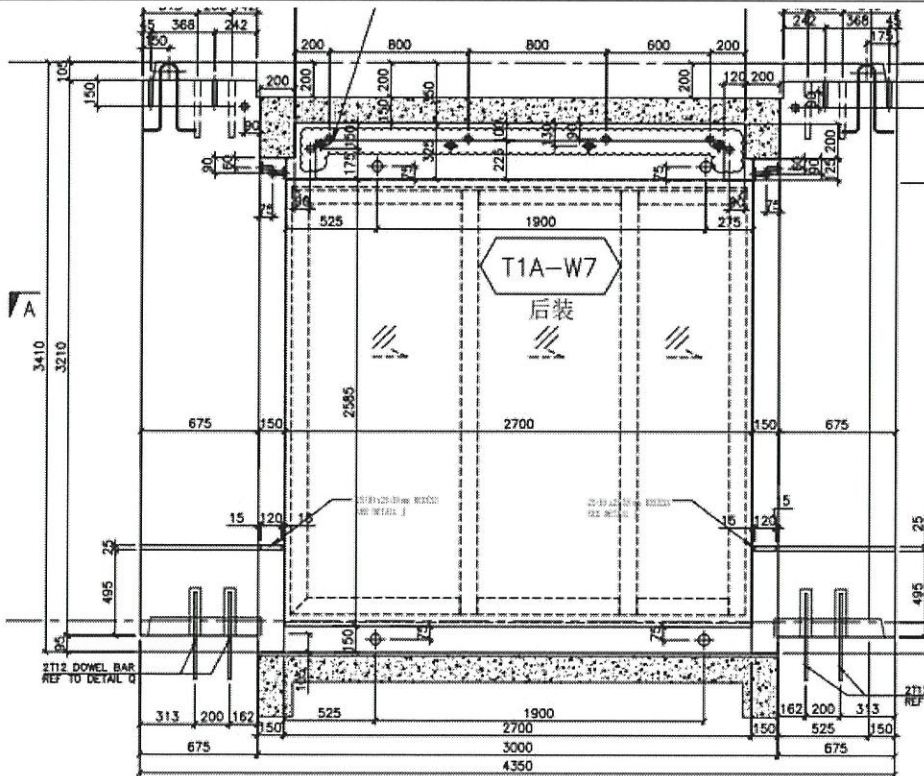
**Trial Panel #05 – BD Approved Drawing Type E / Facade Shop Drawing T1 PF-24**



**FRONT ELEVATION OF TYPE E PRECAST FACADE**

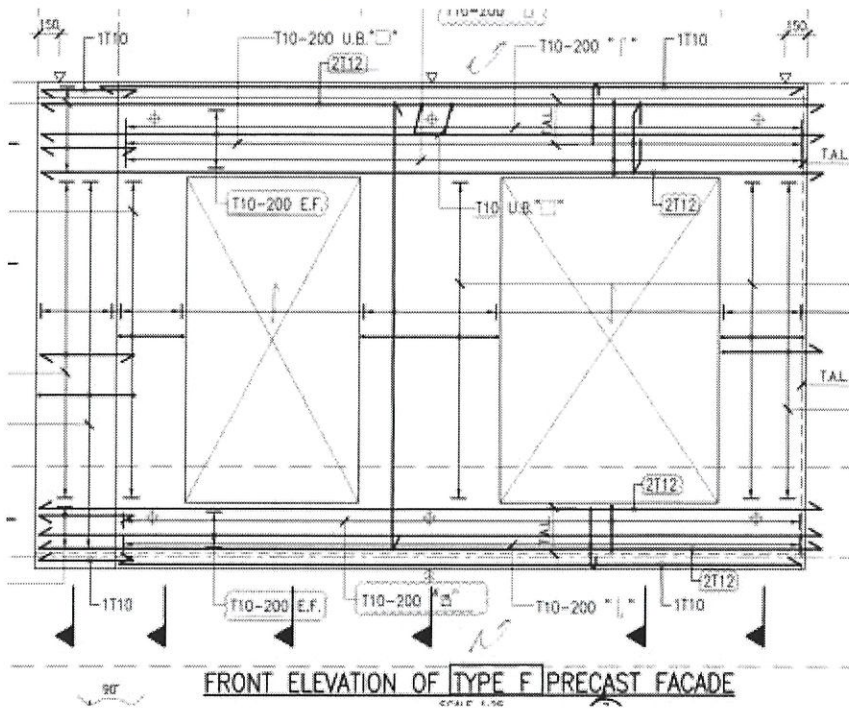
**DIMENSION TABLE OF TYPE E**

TYPE	PRECAST FAÇADE MARK	DIMENSION (MM)											REMARK	
		A	B	C	D	E	F	G	H	I	J	K		L
Type E	PF24	1775	825	500	1000	275	700	2130	400	2700	825	150	2530	



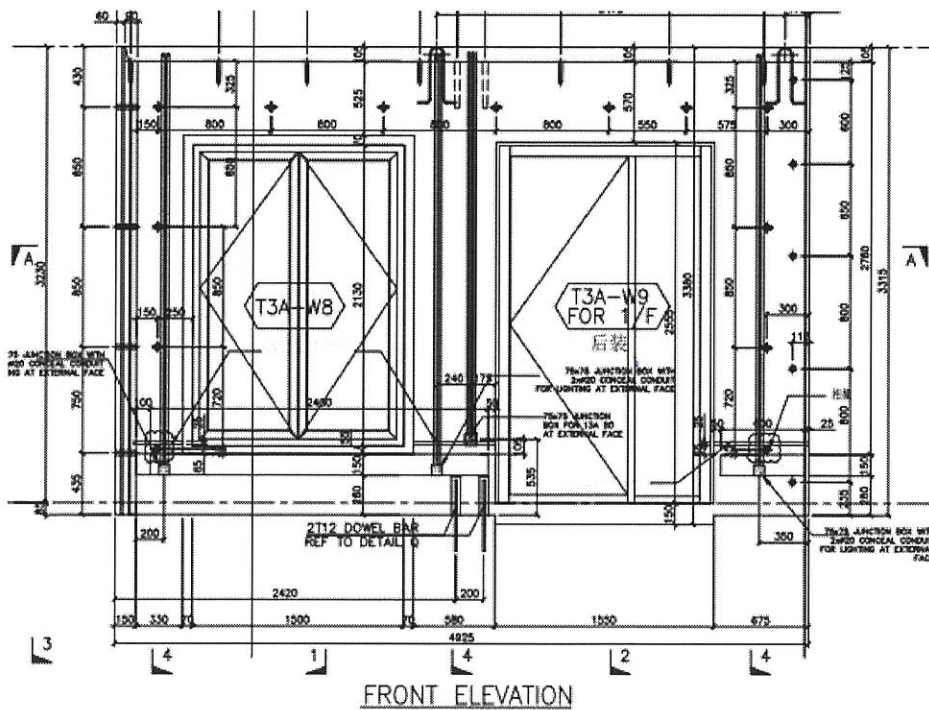
**FRONT ELEVATION**

**Trial Panel #06 – BD Approved Drawing Type F / Facade Shop Drawing T3 PF-18**

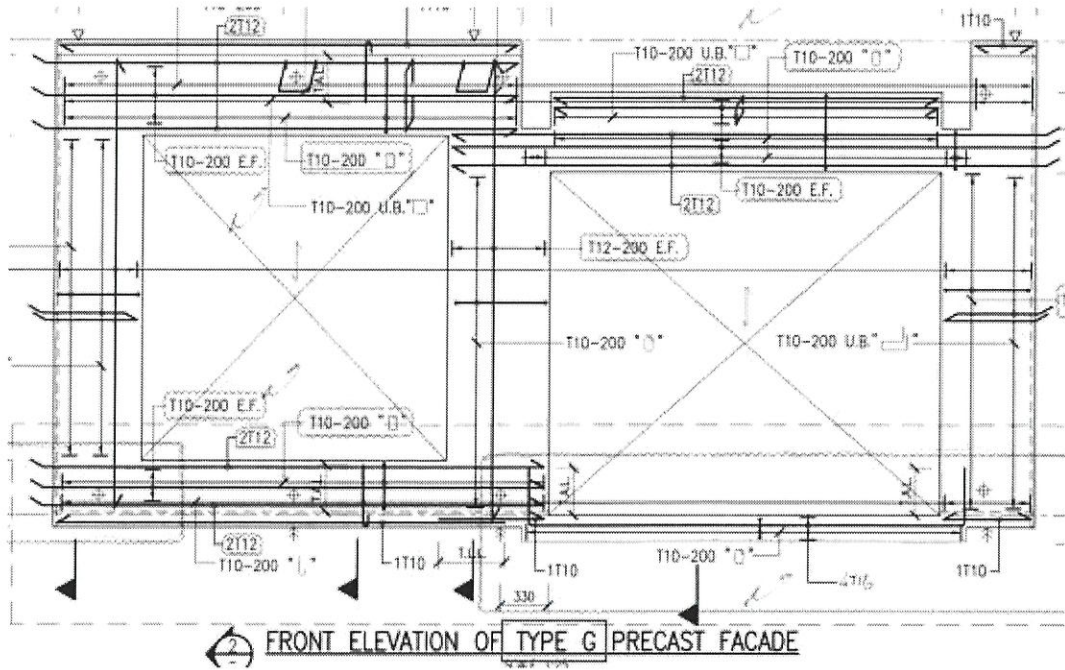


**DIMENSION TABLE OF TYPE F**

TYPE	PRECAST FACADE MARK	DIMENSION (MM)										REMARK
		A	C	D	E	F	G	H	J	K	M	
Type F	PF18	4925	385	400	1500	675	1500	700	700	2130	400	-
	PF23	4975	435	450	1500	675	1500	700	700	2130	400	MIRRORED

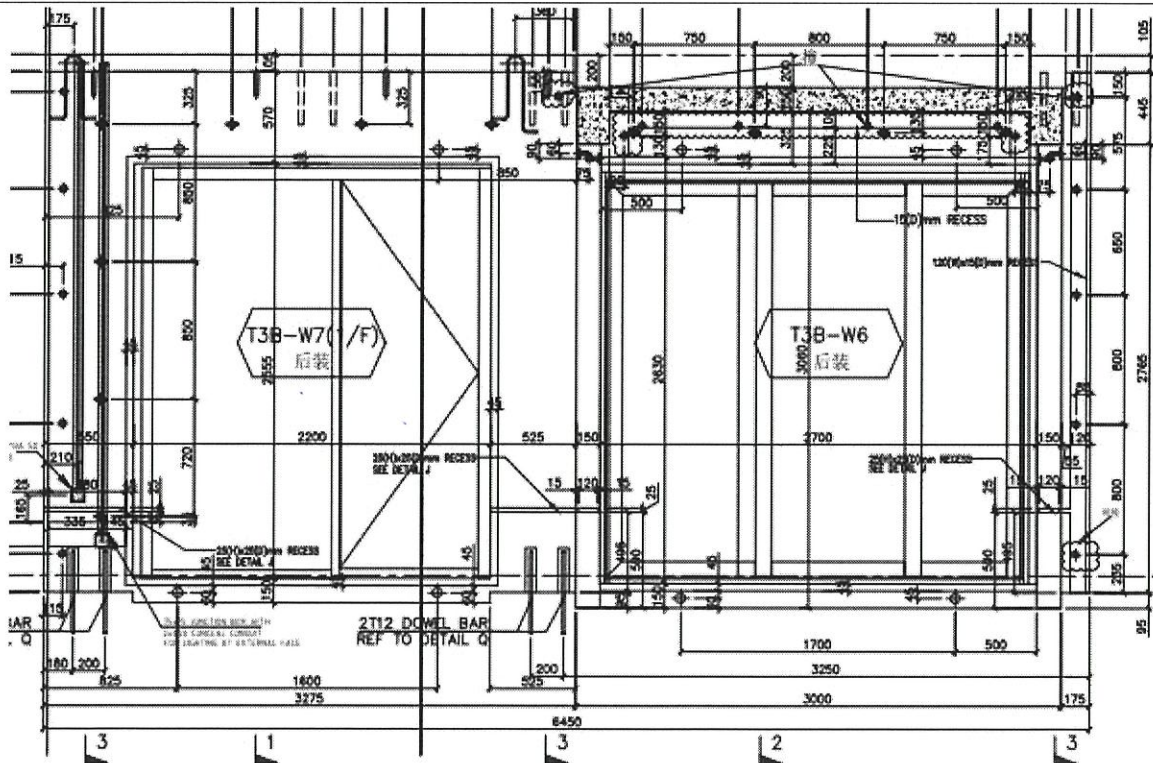


**Trial Panel #07 – BD Approved Drawing Type G / Facade Shop Drawing T3 PF-19**



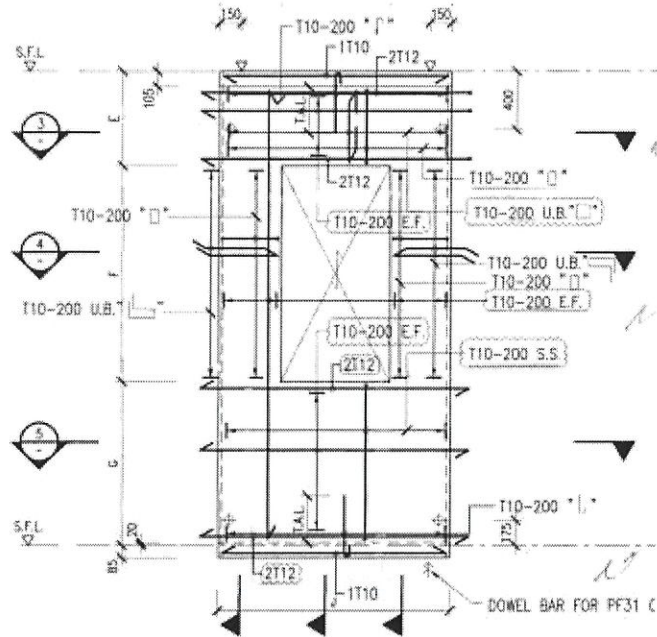
**DIMENSION TABLE OF TYPE G**

TYPE	PRECAST FACADE MARK	DIMENSION (MM)										REMARK	
		A	B	C	D	E	F	G	H	I	J		K
Type G	PF19	3425	575	2130	700	700	2130	400	2700	325	150	2530	-
	PF20	3725	325	2700	700	700	2130	400	2450	575	150	2530	-
	PF21	3425	575	2130	700	700	2130	400	2700	325	150	2530	-
	PF22	3725	325	2700	700	700	2130	400	2450	575	150	2530	-



**FRONT ELEVATION**

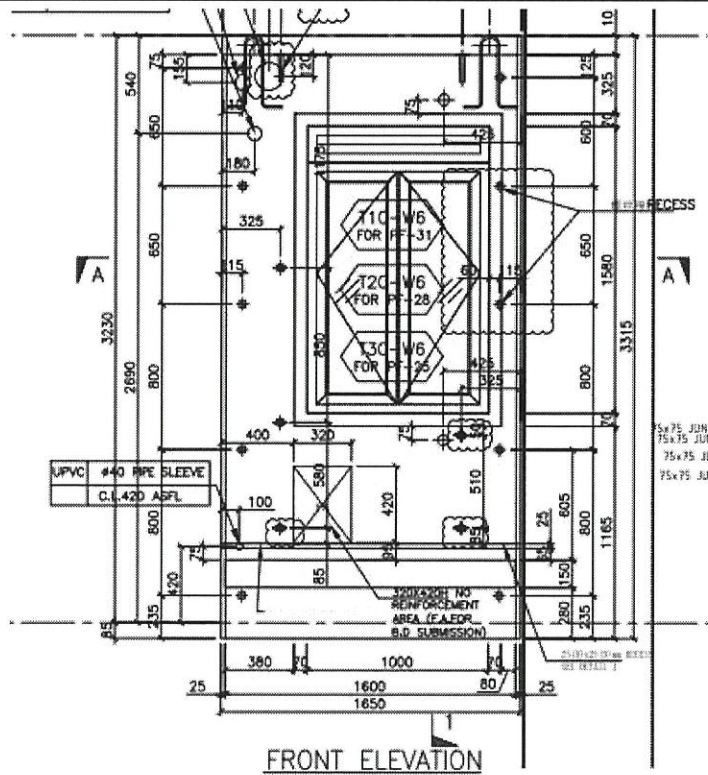
**Trial Panel #08 – BD Approved Drawing Type H / Facade Shop Drawing T3 PF-25**



**FRONT ELEVATION OF TYPE H PRECAST FACADE**  
SCALE 1:25

**DIMENSION TABLE OF TYPE H**

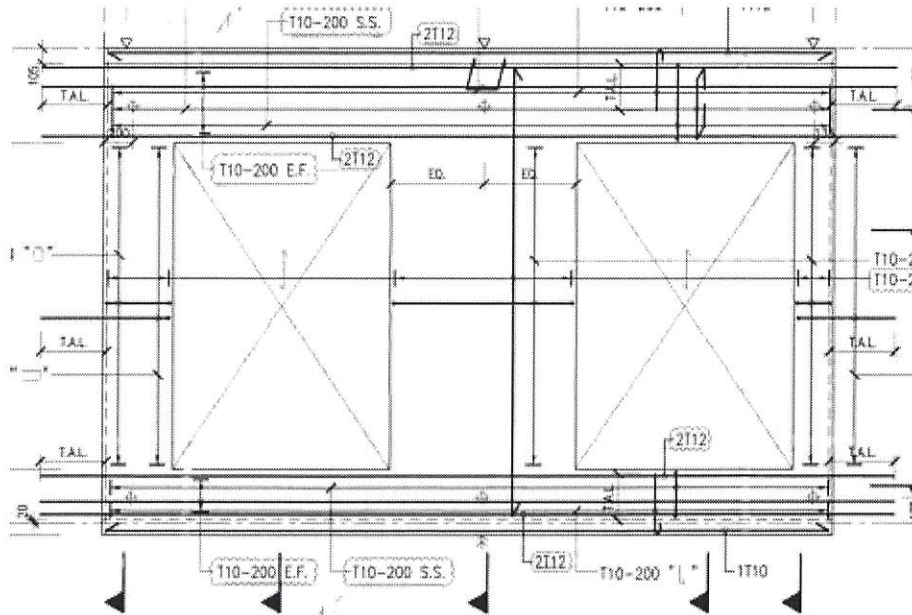
TYPE	PRECAST FAÇADE MARK	DIMENSION (MM)						REMARK
		A	B	C	D	E	F	
Type H	PF25	1650	475	3000	175	500	1580	-
	PF28	1650	475	3000	175	500	1580	-
	PF33	1650	475	3000	175	500	1580	-



**FRONT ELEVATION**

5/4/75 JUNE  
75x75 JUN  
75x75 JUN

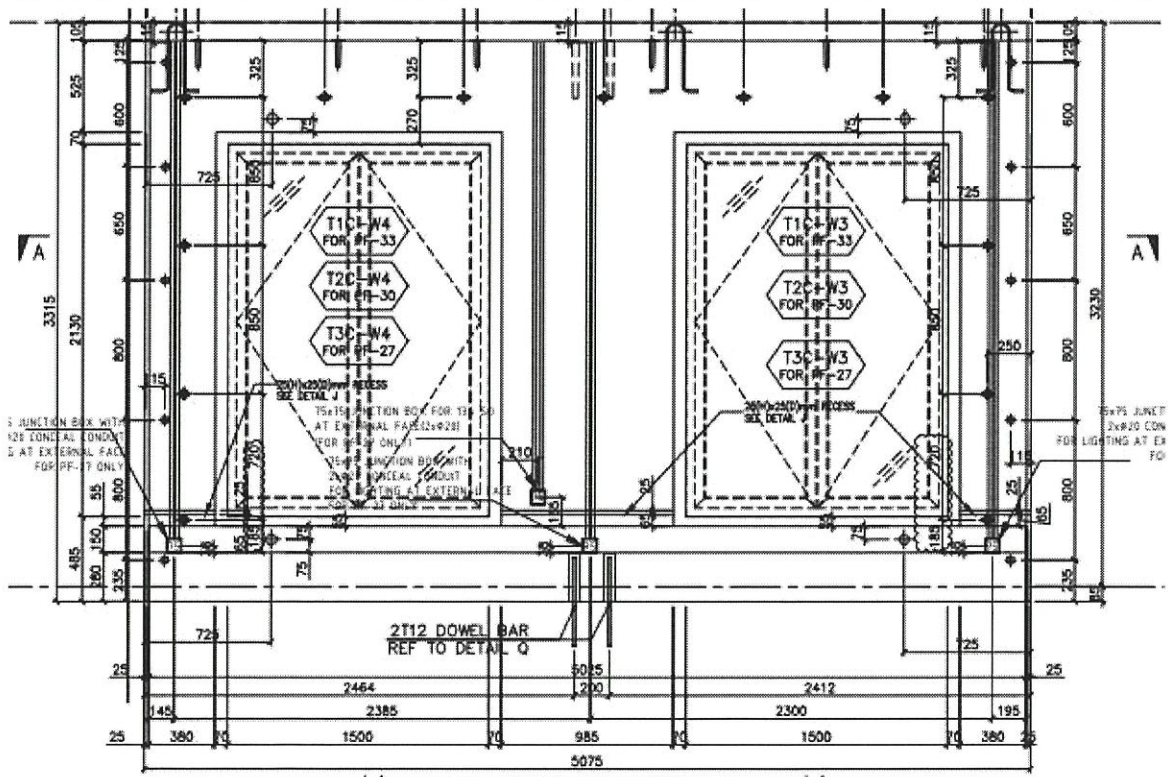
**Trial Panel #09 – BD Approved Drawing Type J / Facade Shop Drawing T3 PF-27**



**FRONT ELEVATION OF TYPE J PRECAST FACADE**

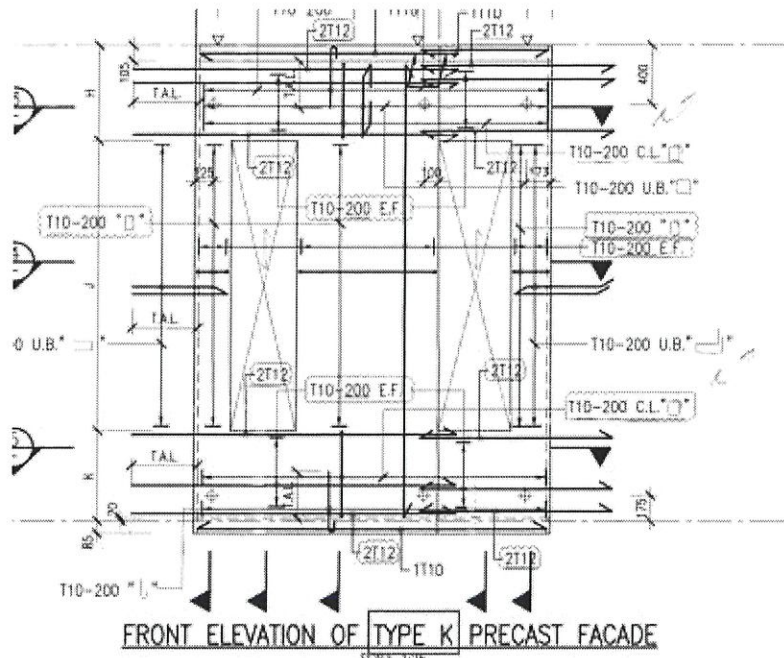
**DIMENSION TABLE OF TYPE J**

TYPE	PRECAST FACADE MARK	DIMENSION (MM)								REMARK	
		A	B	C	D	E	F	G	H		J
Type J	PF27	5075	475	1500	1125	1500	475	700	2130	400	-
	PF30	5075	475	1500	1125	1500	475	700	2130	400	-
	PF33	5075	475	1500	1125	1500	475	700	2130	400	-



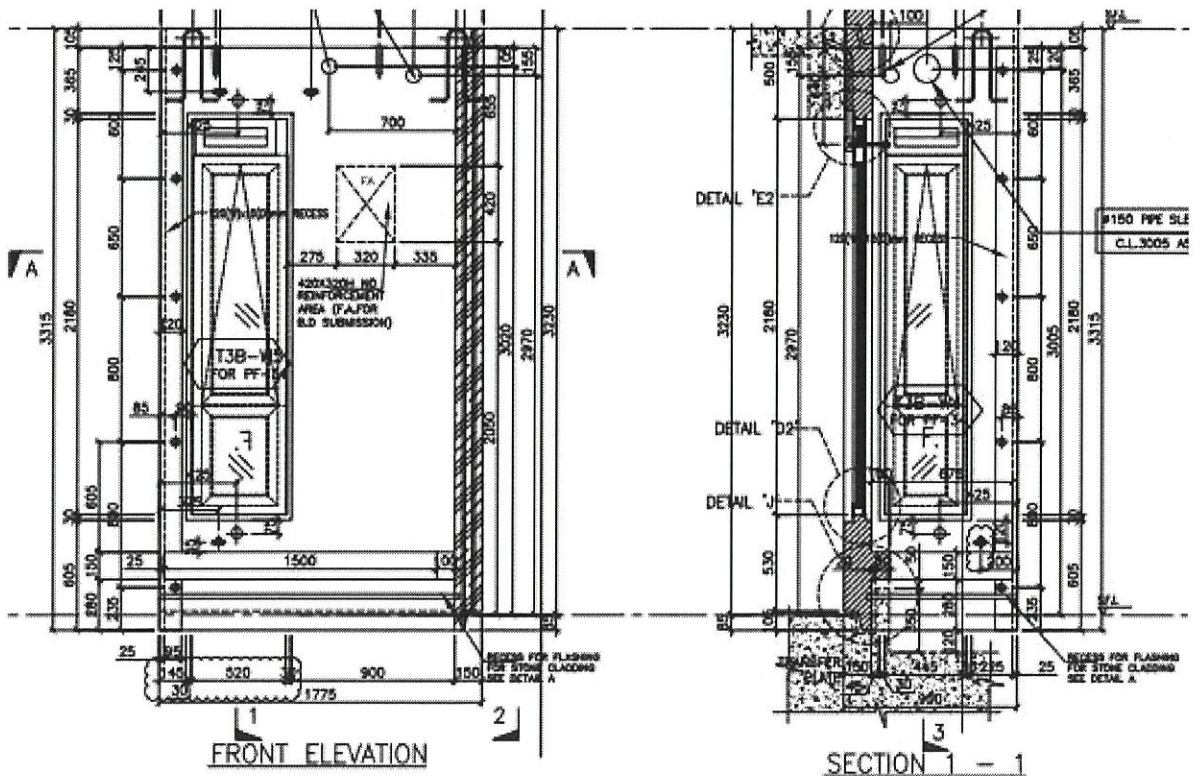
**FRONT ELEVATION**

**Trial Panel #10 – BD Approved Drawing Type K / Facade Shop Drawing T3 PF-34**

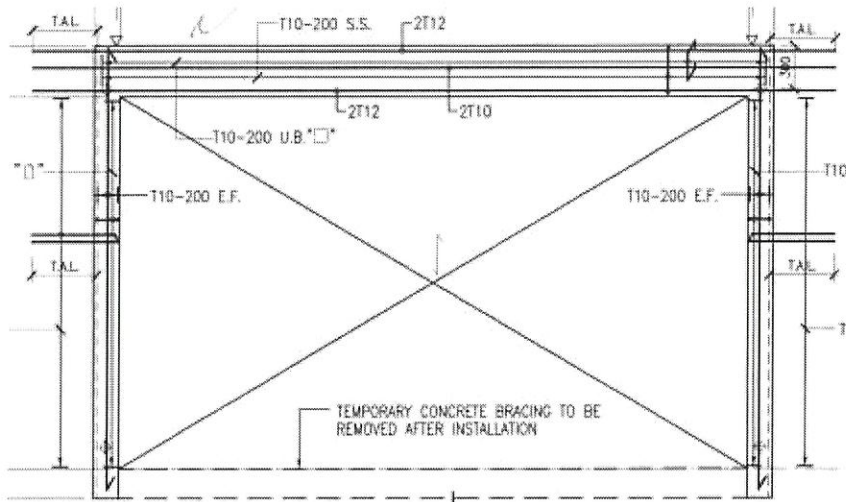


**DIMENSION TABLE OF TYPE K**

TYPE	PRECAST FACADE MARK	DIMENSION (MM)										REMARK
		A	B	C	D	E	F	G	H	J	K	
Type K	PF34	1775	950	190	445	1140	490	235	500	2180	550	-
	PF35	1775	950	190	445	1140	490	235	500	2180	550	MIRRORED
	PF36	1775	950	190	445	1140	490	235	500	2180	550	-
	PF37	1775	950	190	445	1140	490	235	500	2180	550	MIRRORED



**Trial Panel #11 – BD Approved Drawing Type L / Facade Shop Drawing T2 PF-40**

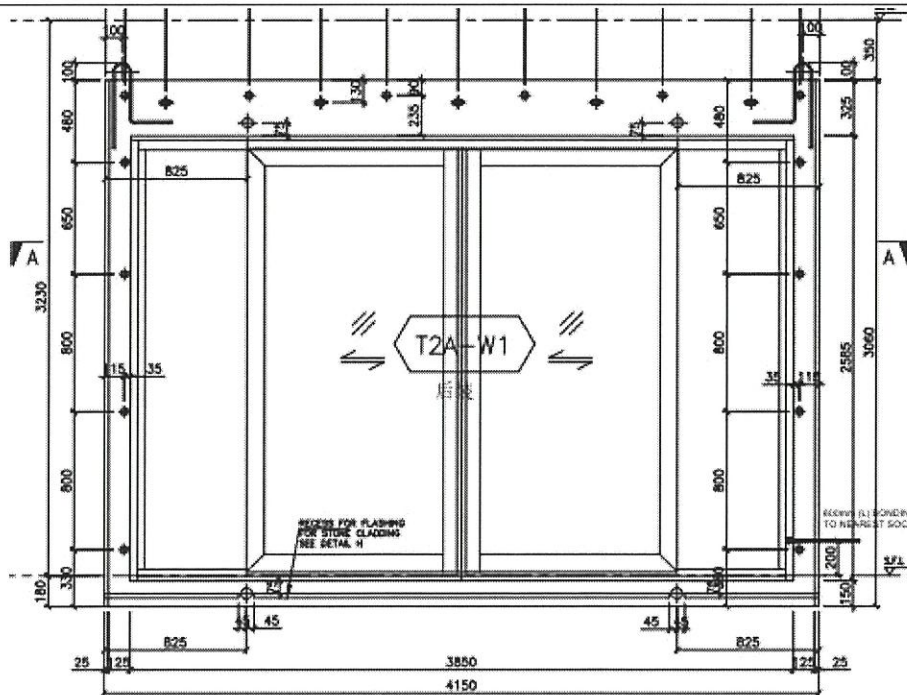


**FRONT ELEVATION OF TYPE L PRECAST FACADE**

SCALE 1:25

**DIMENSION TABLE OF TYPE L**

TYPE	PRECAST FACADE MARK	DIMENSION (MM)							REMARK
		A	B	C	D	E	F	G	
Type L	PF3B	4675	150	4375	150	350	2530	100	-
	PF30	4250	150	3950	150	350	2530	100	-
	<b>PF40</b>	4150	150	3850	150	350	2530	100	-
	PF41	4150	150	3850	150	350	2530	100	-
	PF42	4250	150	3950	150	350	2530	100	-
	PF43	4675	150	4375	150	350	2530	100	-



**FRONT ELEVATION**

## Appendix B

### Sino's SOP T033B Quality Control Arrangement

## Quality Control System of Precast Façade Production

### A. Quality Control Arrangement

#### 1. Qualification of Factory

- 1.1 The factory selected for the production of façade must be ISO9000 certified.
- 1.2 Pre-production assessment on the facilities, set up and capacity of the precast façade factory shall be carried out by PM, QM & RSE.
- 1.3 Trial panels shall be produced for assessment and improvement of the quality and details of façade before mass production.

#### 2. Material Quality Control

##### 2.1 Concrete

Concrete supplier must be QSPSC (Quality scheme for the Production and Supply of Concrete) certified.

Regular inspection of concrete batching plant shall also be carried out by RE / OSR.

Sampling and testing of concrete shall comply with the Building (Construction) Regulations and in accordance with CS1:2010. The testing of 28-day cube is to be undertaken by a HOKLAS (Hong Kong Laboratory Accreditation Scheme) approved laboratory, tests can be carried out in China due to the difficulty in delivery of concrete cubes. The tests shall be witnessed by RE / OSR on random basis and minimum once a month.

The testing of 16-hour cube strength for demoulding of façade is to be undertaken by the in-house laboratory of the factory, and shall be witnessed by RE / OSR when they are in the factory.

##### 2.2 Steel Reinforcement

Steel reinforcement must be supplied with relevant mill certificate and identification document.

The delivery schedule of steel reinforcement shall be submitted by the factory in advance and regular checking of stock inside the factory is necessary.

Sampling and testing of reinforcement shall comply with the Building (Construction) Regulations. The testing of reinforcement is to be undertaken by a HOKLAS approved laboratory and in accordance with CS2:2012, all tests shall be carried out in Hong Kong.

Sampling and test shall be witnessed by RE / OSR on random basis and minimum once a month depending on the material delivery schedule.

# Appendix C

ITP (rev. 4)  
Of  
WHS



J3600-Processed Residential Development, At 139 - 147 Argyle Street, Kowloon

I & T Point		Description	Inspection & Test Method to be used	Frequency of I/T	Temative Date		Acceptance Criteria			Inspection arrangement under normal condition	COVID-19 special arrangement	Records	Refer to WHS/ O&A Plan (TSA002 Rev. 0)	Refer to Sino SQP 1033B	Remark		
					Start	End	BSI	OSR	MFT								
<b>INSPECTION AND TEST PLAN (Precast Façade Fabrication)</b>																	
<b>A. Materials</b>																	
A1	Concrete plant visit	Visual	Weekly and randomly check	Per batch	2020-06-01	2020-10-31	In accordance with approved plant/OC plan	V	H	S	NIL	Via weekly OSRT/3 factory visit: Full time OCERE	Via providing photo records (eg. delivery docket 行交單)	Visit report (by OSR)	Factory Quality Control-Item 3 weekly visit by OSR Quality Control Arrangement Item 1.1-1.2 & Item 2.1		
A2	Concrete mix	Visual	Per batch/Production only	Per batch	2020-06-01	2020-10-31	Grade 45D/20 with I.D. No.4595 in accordance with CSI;	V	H	S	NIL	Via weekly OSRT/3 factory visit: Full time OCERE	Via providing photo records (eg. delivery docket 行交單)	Test report, rebar mill mix approval record: 試驗報告 (行交單)	Visit report (by OSR); Test report, concrete approval record: 試驗報告 (行交單)	Inspection checklist - Part 6 Item 6.3 and Part 7 Item 7.6	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA0015 (Rev. 1)
A3	Steel reinforcement	Visual	Per batch	Per batch	2020-06-01	2020-10-31	Check size, delivery note, mill certificate / test report.	V	H	S	NIL	Via weekly OSRT/3 factory visit: Full time OCERE	Via providing photo records or inspection thru video-telephony	Visit report (by OSR); Test report, rebar mill mix approval record: 試驗報告 (行交單)	Mill cert(s) and test reports of rebar will be submitted in Reinforcement Receiving Inspection Record	Inspection checklist - Part 2 Item 2.1 Quality Control Arrangement Item 2.2	
A4	Conduits / Pipes	Visual	Per batch	Per batch	2020-06-01	2020-10-31	Check brand name, size, delivery note, test report (if any).	V	NIL	S	S	Via weekly OSR/BSI factory visit: Full time OCERE	Via providing scanned documents for checking	Visit report (by OSR); Delivery notes, material inspection approval record	To be provided by NSC (s). Page 27 for Client Supplied Material Record.	Inspection checklist - Part 6 Item 6.3 and Part 7 Item 7.6	
A5	Aluminium window	Visual	Per batch	Per batch	2020-06-01	2020-10-31	Check brand name, size, delivery note, test report (if any), OC records	V	W	S	NIL	Via weekly OSRT/3 factory visit: Full time OCERE	Via providing photo records and scanned documents (eg. DNS) for checking	Visit report (by OSR); Delivery notes, MIDI's Certificate, approved drawings	To be provided by MIDI. Page 31 for Alum. Window Inspection Record.	Inspection checklist - Part 6 Item 6.3 and Part 7 Item 7.6	
<b>B. Material Testing</b>																	
B1	Sampling and testing of reinforcement	Visual	Per batch	Per batch	2020-06-01	2020-10-09	- All rebars shall be tested by HOKLAS lab in accordance with CS2:2012;	V	S	S	NIL	Via weekly OSRT/3 factory visit: Full time OCERE	Via providing scanned records (eg. WHS/OC records) for checking	Visit report (by OSR); Rebar test report, mill certs	Page 26 for Steel Reinforcement Receiving Inspection Record	Inspection checklist - Part 2 Item 2.1-2.5 & Part 6 Item 6.3	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA0015 (Rev. 1)
<b>G. Precast-concreting</b>																	
C1	Steel mould checking	Visual	per type	per type	2020-06-08	2020-10-16	Dimensions, tung quality & stiffness, smoothness, cleanliness, connections, twist in accordance with approved drawings	V	V	S	NIL	Via videotelephony	Visit report (by OSR); Inspected checklist, approved precast facade shop drawing	Refer to WHS's pre-concreting Quality Control Checklist on page 28	Inspection checklist - Part 1 Item 1.1	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA0015 (Rev. 1)	
C2	Rebar fixing	Visual	per type	per type	2020-06-08	2020-10-16	Size no. and spacing, anchorage lap curtailment & trimming bar, spacers, chairs, steel tying wires and wire diameter, concrete cover	V	V	S	NIL	Via videotelephony	Visit report (by OSR); Inspection checklist, approved precast facade SD submission drawings	Ditto	Inspection checklist - Part 2 Item 2.1-2.5	Trifill panel for each type of facades will be produced and assessed (Quality Control Arrangement Item 1.3)	
C3	Aluminium window	Visual	per type	per type	2020-06-08	2020-10-16	Window type, window size, setting-out, fixing & fixing lig, sequential banding, protection in accordance with approved drawings/method statement	V	V	S	NIL	Via videotelephony	Visit report (by OSR); Inspection checklist, approved precast facade shop drawing and alum. window shop drawing	Ditto	Inspection checklist - Part 7 Item 7.1-7.2	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA0015 (Rev. 1)	
<b>Relevant checklist from MIDI:</b> 精製鋼筋紀錄表																	
Refer to MIDI's ITP for precast facade-window on Factory Item A1, A2, B7 & B8																	
Factory Quality Control Item 5.1, 5.3 to 5.5																	



JBR60 - Proposed Residential Development, At 139 - 147 Angkor Street, Kowloon

**INSPECTION AND TEST PLAN  
(Precast Façade Fabrication)**

JBR60/IT/PPFD1  
4

I & T Point	Description	Inspection & Test Method to be used	Frequency of IT	Tentative Date		Acceptance Criteria	Control Point			Inspection arrangement under normal condition	COVID-19 special arrangement	Records	Refer to WHS's O&P Plan (TS/A002 Rev. 0)	Refer to Site SOP T033B	Remark
				Start	End		GECC	MFT	OSR						
C4	Concrete conduit	Visual	per type	2020-06-08	2020-10-16	Conduit size, routing, position of conduit pipe and conduit batten in accordance with approved drawings/O&P plan	V	NIL	S	S	Via weekly OSR/TS3 factory visit; Full time O&P/RE: 100% for the 1st set of each façade type by BSI	Visit report (by OSR); Inspection checklist; approved precast; façade shop drawing (GCC)	Refer to WHS's pre-concreting Quality Control Checklist on page 28	Inspection checklist - Part 5 Item 3.1 & Part 5 Item 5.2 Checklist before concreting - Item 4 Quality Control Arrangement Item 3.1-3.3 Factory Quality Control Item 1.4	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction in TSA015 (Rev. 1)
C5	Cast-in items	Visual	per type	2020-06-08	2020-10-16	Sliding anchor & cast-in bolt and dimension check; supporting bracket for laundry rack in accordance with approved drawings	V	V	S	NIL	Via weekly OSR/TS3 factory visit; Full time O&P/RE	Visit report (by OSR); Inspection checklist; approved precast; façade shop drawing (GCC)	Ditto	Inspection checklist - Part 5 Item 5.4 and Part 6 Item 6.2 Checklist before concreting - Item 5 Quality Control Arrangement Item 3.1-3.3 Factory Quality Control Item 1.4	Trial panel for each type of façade will be produced and assessed; Quality Control Arrangement Item 1.3)
C6	Steel mould checking record sheet	Visual	100%	2020-06-08	2020-10-16	- Enclosed by factory's O&P - Attached to steel mould - Comply to approved shop drawing for fabrication	V	V	S	NIL	Via weekly OSR/TS3 factory visit; Full time O&P/RE	Visit report (by OSR); Record Sheet	Ditto	Inspection checklist - Part 5 Item 5.4 and Part 6 Item 6.2 Quality Control Arrangement Item 3.1-3.3 Factory Quality Control Item 1.5 & Item 7.4, 6.7, 7.7, 7.8	Trial panel for each type of façade will be produced and assessed; Quality Control Arrangement Item 1.3)
<b>D. Concrete Placing</b>															
D1	Slump test; 28-day cube test	Visual	Per batch	2020-06-08	2020-10-16	- All cubes shall be crushed by a test laboratory in accordance with CS1; - Temperature control - REOSR to witness (once a month)	V	S	S	NIL	Via providing scanned documents (eg. WHS OC records) for checking reports	Visit report (by OSR); Inspection checklist; slump test result records; 28-days concrete cube test reports	Page 33 for Concrete Slump Test Record	Inspection checklist - Part 3 Item 3.1 & Part 5 Item 5.2 Quality Control Arrangement Item 2.1 & Item 3.1-3.3 Factory Quality Control Item 2.1 & Item 7.2	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction in TSA015 (Rev. 1)
D2	1-Day demoulding cube test	Visual	per type	2020-06-08	2020-10-16	- Information as shown on delivery order match with ordered approved mix; - REOSR to witness as required	V	V	S	NIL	Via providing scanned documents (eg. WHS OC records) for checking reports	Visit report (by OSR); WHS's test records	Page 34 for Test Cubes Register, Page 35 for Cubes Strength Test Record - 1 Day and Page 38 Concrete Test Report for the test record of 1 day cube	Inspection checklist - Part 5 Item 5.2 Quality Control Arrangement Item 2.1 & Item 3.1-3.3 Factory Quality Control Item 2.1 & Item 7.2	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction in TSA015 (Rev. 1)
D3	Placing method, vibration, surface treatment	Visual	Per batch	2020-06-08	2020-10-16	In accordance with approved method statement/O&P plan	V	S	S	NIL	Via providing photo records	Visit report (by OSR); Inspection checklist	Refer to WHS's post-concreting inspection checklist on page 29-30	Inspection checklist - Part 5 Item 5.4 and Part 6 Item 6.2 Quality Control Arrangement Item 2.1 & Item 3.1-3.3 Factory Quality Control Item 2.2	Trial panel for each type of façade will be produced and assessed; Quality Control Arrangement Item 1.3)
D4	Construction joint	Visual	Per batch	2020-06-08	2020-10-16	Application of retarder, method for exposing aggregate C3 surface in accordance with approved method statement/O&P plan	V	S	S	NIL	Via providing photo records	Visit report (by OSR); Inspection checklist	Ditto	Inspection checklist - Part 5 Item 5.4 and Part 6 Item 6.2 Quality Control Arrangement Item 3.1-3.3 Factory Quality Control Item 2.3	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction in TSA015 (Rev. 1)
<b>E. Post-Concreting Check</b>															
E1	Curing	Visual	Per batch	2020-06-09	2020-10-23	In accordance with approved method statement/O&P plan	V	V	S	NIL	Via videotelephony	Visit report (by OSR); Record Sheet	Page 40 for the Concrete Product Later Stage Curing Record	Inspection checklist - Part 3 Item 3.1 and Part 5 Item 5.3 Quality Control Arrangement Item 2.1 & Item 3.1-3.3 Factory Quality Control Item 3.1	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction in TSA015 (Rev. 1)
E2	Dimension checking	Visual	1:10 units (mould no.)	2020-06-09	2020-10-23	In accordance with approved drawings	V	V	S	NIL	Via videotelephony	Visit report (by OSR); Inspection checklist; approved precast; façade shop drawing (GCC)	Refer to WHS's post-concreting Quality Control Checklist on page 29-30	Inspection checklist - Part 5 Item 5.4 and Part 6 Item 6.2 Quality Control Arrangement Item 1.3 & Item 3.1-3.3 Factory Quality Control Item 3.2	Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction in TSA015 (Rev. 1)
E4	Construction joint & surface treatment	Visual	Per batch	2020-06-09	2020-10-23	In accordance with approved method statement/O&P plan	V	V	S	NIL	Via videotelephony	Visit report (by OSR); Inspection checklist	Ditto	Inspection checklist - Part 5 Item 5.4 and Part 6 Item 6.2 Quality Control Arrangement Item 1.3 & Item 3.1-3.3 Factory Quality Control Item 3.3	Trial panel for each type of façade will be produced and assessed; Quality Control Arrangement Item 1.3)



I & T Point	Description	Inspection & Test Method to be used	Frequency of IT	Tentative Date		Acceptance Criteria	GECCL	Control Point			Inspection arrangement under normal condition	COVID-19 special arrangement	Records	Refer to WHS: O&A Plan (TSA/02 Rev. 0)	Refer to Sino' SOP T033B	Remark
				Start	End			MFT	OSR	BSI						
E5	Window installation	Visual	Per batch	2020-06-09	2020-10-23	In accordance with approved drawings	V	V	S	NIL	Via weekly OSR/T3 factory visit; Full time O&E/RE	Via videotelephony	Visit report (by OSR); Approved precast concrete drawings and allu window shop drawing	Ditto	Inspection checklist - Part 5 Item 5.4 and Part 6 Item 6.2 Quality Control Arrangement Item 1.3 & Item 3.1-3.3 Factory Quality Control Item 3.6	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA/015 (Rev. 1)
E6	Demoulding	Visual	Per batch	2020-06-09	2020-10-23	In accordance with approved method statement/OC plan; Non-conformance report to be prepared if heavy crumb exist; Concrete strength >13.5 Mpa	V	V	S	NIL	Via weekly OSR/T3 factory visit; Full time O&E/RE	Via providing photo records	Visit report (by OSR); Inspection checklist (if defects found); Test report	Ditto	Inspection checklist - Part 3 Item 3.3 & Item 5.3 Quality Control Arrangement Item 3.1-3.3	Relevant checklist from MIDI: 窗沙輪轉表(窗底)
E7	Unique identification checking	Visual	Per type	2020-06-09	2020-10-23	Client name, project name, type of product, mould no., casting date, dead weight, metal etc., no damage and no scratch, equipotential bonding, caulking, protection in accordance with approved method statement/OC plan	V	V	S	NIL	Via weekly OSR/T3 factory visit; Full time O&E/RE	Via providing photo records	Visit report (by OSR); Inspection checklist	Ditto	Inspection checklist - Part 3 Item 3.3, 3.4 and Part 5 Item 5.4 Quality Control Arrangement Item 1.3 & Item 3.1, 3.3 & Item 3.4 Factory Quality Control Item 3.4	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA/015 (Rev. 1)
E8	Finishing Work	Visual	Per-type			Concrete surface preparation, the adhesion, staining, application, the tapping, acid, filling, water proofing, including filling plaster and coltur- prefabricator	V	V	S	NIL	Via weekly OSR/T3 factory visit; Full time O&E/RE	Via providing photo records	Visit report (by OSR); Inspection checklist	Ditto	Inspection checklist - Part 7 Item 7.6 Factory Quality Control Item 4.4	Trial panel for each type of facade will be produced and assessed.(Quality Control Arrangement Item 1.3)
<b>F. Aluminium Window</b>																
F1	Member size (non-destructive / destructive) checking	Visual	Per type	2020-06-09	2020-10-23	In accordance with approved drawings/OC plan	V	V	S	NIL	Via weekly OSR/T3 factory visit; Full time O&E/RE	Via providing photo records	Visit report (by OSR); Approved allu window shop drawing	Refer to WHS's post-concreting Quality Control Checklist on page 29-30	Inspection checklist - Part 6 Item 6.3 Factory Quality Control Item 5.1	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA/015 (Rev. 1)
F2	Detailed dimension & rectangularity, reinforcement bar	Visual	Per type	2020-06-09	2020-10-23	In accordance with approved drawings/OC plan	V	V	S	NIL	Via weekly OSR/T3 factory visit; Full time O&E/RE	Via providing photo records	Visit report (by OSR); Approved allu window shop drawing	Ditto	Inspection checklist - Part 6 Item 6.3 Factory Quality Control Item 5.2	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA/015 (Rev. 1)
F3	Water test for window frame	Visual	100%	2020-06-09	2020-10-23	No Water leakage was found	V	W	S	NIL	Via weekly OSR/T3 factory visit; Full time O&E/RE	Via providing photo records	Visit report (by OSR); Inspection checklist	Refer to WHS's post-concreting Quality Control Checklist on page 29-30	Inspection checklist - Part 5 Item 5.4 and Part 6 Item 6.2 Quality Control Arrangement Item 3.1-3.3 & Item 5.1 Factory Quality Control Item 6.1-6.2	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA/015 (Rev. 1)
<b>G. Material Handling and Storage</b>																
G1	Handling and storage of precast facade	Visual	Per type	2020-06-08	2020-10-31	Usage of upturning table, lifting beam, storage rack and etc. in accordance with OC plan	V	W	S	NIL	Via weekly OSR/T3 factory visit; Full time O&E/RE	Via providing photo records	Visit report (by OSR); Photo record	Page 6 Item 10.1-10.6	Inspection checklist - Part 4 Item 4.1 Quality Control Arrangement Item 1.3 & Item 3.1-3.3 Factory Quality Control Item 6.1	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA/015 (Rev. 1)
G2	Raw materials and batching operation	Visual	Per batch	2020-06-08	2020-10-31	In accordance with OC plan	V	W	S	S	Via weekly OSR/T3 factory visit; Full time O&E/RE	Via providing photo records	Visit report (by OSR); Photo record	Page 5-6 Item 6.1-6.2	Inspection checklist - Part 7 Item 7.6 Quality Control Arrangement Item 3.1-3.3 Factory Quality Control Item 6.2	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA/015 (Rev. 1)
G3	Aluminium Window	Visual	Per type	2020-06-08	2020-10-31	In accordance with OC plan	V	W	S	NIL	Via weekly OSR/T3 factory visit; Full time O&E/RE	Via providing photo records	Visit report (by OSR); Photo record	To be provided by MIDI, Page 31 for Alum. Window Inspection Record.	Inspection checklist - Part 7 Item 7.6 Quality Control Arrangement Item 3.1-3.3 Factory Quality Control Item 6.3	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of Qualified Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA/015 (Rev. 1)



JBR60 - Proposed Residential Development, At 139 - 147 Angle Street, Kowloon

**INSPECTION AND TEST PLAN  
(Precast Façade Fabrication)**

JBR60/TP/PFP01  
4

I & T Point	Description	Inspection & Test Method to be used	Frequency of IT	Tentative Date		Acceptance Criteria	Control Point		Inspection arrangement under normal condition	COVID-19 special arrangement	Records	Refer to WJES: QA Plan (TSA002 Rev. 0)	Refer to Sino SOP TQ3B	Remark
				Start	End		GECC	OSR						
G4	Stock checking of steel reinforcement	Visual	Per batch	2020-06-08	2020-10-31	In accordance with QC plan	V	W S	Via weekly OSR/T3 factory visit. Full time OCE/RE	Via providing photo records and delivery notes	Visit report (by OSR); Photo record	7.6 Quality Control Arrangement Item 2.2 & Item 3.1-3.3 Factory Quality Control Item 6.4	Inspection checklist - Part 7 Item 7.6 Quality Control Arrangement Item 2.2 & Item 3.1-3.3 Factory Quality Control Item 6.4	
G5	Stock checking of aluminium window	Visual	Per batch	2020-06-08	2020-10-31	In accordance with QC plan	V	W S	Via weekly OSR/T3 factory visit. Full time OCE/RE	Via providing photo records and delivery notes	Visit report (by OSR); Photo record	7.6 Quality Control Arrangement Item 2.2 & Item 3.1-3.3 Factory Quality Control Item 6.4	Inspection checklist - Part 7 Item 7.6 Quality Control Arrangement Item 2.2 & Item 3.1-3.3 Factory Quality Control Item 6.4	Factory inspection to be replaced by videotelephony due to Coronavirus; refer to the "Proposal of On-site Audit Supervision and On-site Audit Checks for Precast Concrete Construction" in TSA015 (Rev. 1)
G6	Stock checking of cast-in item	Visual	Per batch	2020-06-08	2020-10-31	In accordance with QC plan	V	W S	Via weekly OSR/T3 factory visit. Full time OCE/RE	Via providing photo records and delivery notes	Visit report (by OSR); Photo record	7.6 Quality Control Arrangement Item 2.2 & Item 3.1-3.3 Factory Quality Control Item 6.6	Inspection checklist - Part 7 Item 7.6 Quality Control Arrangement Item 2.2 & Item 3.1-3.3 Factory Quality Control Item 6.6	
G7	Stock checking of conduits	Visual	Per batch	2020-06-08	2020-10-31	In accordance with QC plan	V	W S	Via weekly OSR/T3 factory visit. Full time OCE/RE	Via providing photo records and delivery notes	Visit report (by OSR); Photo record	7.6 Quality Control Arrangement Item 2.2 & Item 3.1-3.3 Factory Quality Control Item 6.6	Inspection checklist - Part 7 Item 7.6 Quality Control Arrangement Item 2.2 & Item 3.1-3.3 Factory Quality Control Item 6.6	
G8	Stock checking of steel-reinforcement in the ground	Visual	Per batch			In accordance with QC plan	V	W S	Via weekly OSR/T3 factory visit. Full time OCE/RE	Via providing photo records and delivery notes	Visit report (by OSR); Photo record	7.6 Quality Control Arrangement Item 2.2 & Item 3.1-3.3 Factory Quality Control Item 6.6	Inspection checklist - Part 7 Item 7.6 Quality Control Arrangement Item 2.2 & Item 3.1-3.3 Factory Quality Control Item 6.6	

Control point

Verification(V) - Make sure that the required item is arranged for inspection / testing with proper report / checklist / photo record compliance with the specified requirements.  
Hold (H) - Approval shall be obtained before subsequent operations are proceed.

Witness(W) - Notification / Request for inspection to be provided to party shown "H" before inspection / test is performed.

Surveillance(S) - Continual monitoring and / or analysis of the inspection and test records (form / report / checklist / photo) during regular factory / site visit to ensure that specified requirements have been fulfilled.



J3860- Proposed Residential Development, At 139 – 147 Argyle Street, Kowloon

INSPECTION AND TEST PLAN (Precast Façade Installation)		J3860/ITP/PF/02	
ITP No.	4	Rev.	
File:			

I & T Point	Description	Inspection & Test Method to be used	Frequency of I/T	Tentative Date		Acceptance Criteria	Control Point			Records	Refer to Sino' SOP' T033B	Remark
				Start	End		GECCL	MFT	OSR			
<b>A. Materials on-site</b>												
A1	Concrete	Visual	Per batch	2020-07-10	2020-11-26	Check dimensions, concrete defect, ID & cast date, C.J, lifting anchor	V	H	W	NIL	Inspection Form	Checklist for Façade Quality on Site (Item 1 to 8); On-site Quality Control Item 1 to 3 & 6
A2	Window	Visual	Per batch	2020-07-10	2020-11-26	Check type & size, position, scratch & damage, bonding, frame caulking, protection	V	H	W	NIL	Inspection Form	Checklist for Façade Quality on Site (Item 9 to 14); On-site Quality Control Item 5 & 7
A3	Handling and storage of precast façade	Visual	Per batch	2020-07-10	2020-11-26	Check lifting anchor, anchor rebar size & no., rebar anchorage length, fitting & insert	V	H	W	NIL	Inspection Form	Checklist for Façade Quality on Site (Item 19 to 22); On-site Quality Control Item 6
A4	Opening-up of the concrete surface	Visual	2% with min. of one per every 10 batches	2020-07-10	2020-11-26	Check the size, pattern and layout of the steel reinforcing bars and the concrete covers	V	H	W	NIL	Test report	Refer to app-143 Appendix B & BD's circular letter BD GR/1-125/54 on 07 Feb 2020
A5	Concrete coring	Visual	2% with min. of one per every 10 batches	2020-07-10	2020-11-26	Check concrete strength	V	H	W	NIL	Test report	Refer to app-143 Appendix B & BD's circular letter BD GR/1-125/54 on 07 Feb 2020
<b>B. Installation at Working Floor</b>												
C1	Temporary support	Visual	Per Floor	2020-07-13	2020-11-26	Check embed, bracket, bracing, lifting anchor etc. in accordance with approved drawings / method statement	V	W	W	NIL	Photo record	
C2	Through bolt hole for temporary support on floor slab (before backfilling)	Visual	Per Floor	2020-07-13	2020-11-26	Check steel rod before backfilling	V	S	S	NIL	Photo record	Detail of backfilling to the through bolt hole for the temporary support on floor slab
C3	Alignment and setting-out (before wall and column concreting)	Visual	Per Floor	2020-07-13	2020-11-26	Check façade alignment and setting-out of installed precast facade	V	H	W	NIL	Inspection Form	
C4	Façade Vertically (After wall and column concreting)	Visual	Per Floor	2020-07-13	2020-11-26	Check the inclined in vertically	V	H	W	NIL	Survey record	Record of Façade Verticality after concreting; On-site Quality Control Item 8
C5	Sealing of C.J	Visual	Per Floor	2020-07-13	2020-11-26	Check the conditional of C.J and grouting material (approved)	V	H	W	NIL	Inspection Form	
C6	Pull-out test for external wall tile	Visual	1 set (3 nos.) per six storey of façade (after adhesive achieved the full strength)	2020-11-13	2021-02-20	i. The minimum average adhesive strength for each set sample is 0.4MPa ii. in each set of sample, the minimum adhesive strength of maximum one sample is 0.3MPa.	V	NIL	H	NIL	Inspection Form	On-site Quality Control Item 9.1

Control point Verification(V)  
Hold (H)

- Make sure that the required item is arranged for inspection / testing with proper report / checklist / photo record compliance with the specified requirements.

- Approval shall be obtained before subsequent operations are proceed.

- Notification / Request for inspection to be provided to party shown "H" before inspection / test is performed.

- Notification / Request for inspection to be provided to party shown "W" for witnessing the inspection / test results are correctly recorded.

Surveillance(S) - Continual monitoring and / or analysis of the inspection and test records (form / report / checklist / photo) during regular factory / site visit to ensure that specifies requirements have been fulfilled.



