



工程指示 / 要求簡箋(E.I.)

工程指示編號：EI / 7395 / 24

修改版次： -

工程編號： J - 858

工程名稱：將軍澳日出康城 11

工程項目： Pull out Test 拉力測試 (幕牆) 拉 M12 天面 Monorail

收件人： Maggie

發件人： Ant Yeung

日期： 04/03/2024

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：

★ Monorail 工字電 Block = 判頭安裝 = midi 約驗

Monorail 吊船 = 華光安裝 = 華光自行約驗

Monorail 工字電 Block 拉拉爆，預每座拉 1 次。共 3 次

不是 BD 項目，安全自檢。

拉力 11.7kN

請安排公証行到地盆驗拉爆。

謝謝

請在 2024.03.10 前完成上列要求。

附：

- 原合約工程包 原合約工程加 / 減賬 新工程報價

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 () 小羅 & 清 連附件
 () 質檢部 連附件 () 會計部 連附件 () 報關組 連附件 () 其他 _____ 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 積哥，祥哥
 (✓) 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 / 24

發件人簽署：

項目經理簽署：

- SAFE WORKING LOAD = 650 kg
- (** ACTUAL S.W.L. TO BE USED = 650KG X 0.8 = 520KG)
- DYNAMIC FACTOR = 1.25

- DESIGN WIND PRESSURE SHALL BE COMPILED WITH CODE OF PRACTICE FOR SAFE USE AND OPERATION OF SUSPENDED WORKING PLATFORM.
 - WIND SPEED = 14 m/s
 - GUST WIND = 31 m/s
 - BASIC WIND PRESSURE, q = 0.58 kPa
 - PRESSURE COEFFICIENT, C_p = 2.0
 - THEREFORE, DESIGN WIND PRESSURE, W_L = 1.16 kPa

NOTES FOR PARENT R.C. STRUCTURES
(FOR INFORMATION ONLY)

- ALL STRUCTURAL CONCRETE TO BE GRADE 45/20 WITH A MINIMUM STRENGTH OF 45 MPa AT 28 DAYS.

NOTES FOR ANCHOR BOLT

- ALL ANCHOR BOLTS TO BE HILTI HST3 (f.o.s. ≥ 3.0) (GRADED CONCRETE DESIGN)

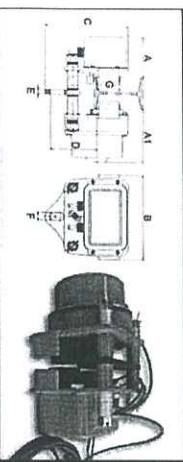
BOLT TYPE	MIN. EMBEDMENT DEPTH (mm)	MIN. SPACING (mm)	MIN. EDGE DISTANCE (mm)	MIN. BASE THICKNESS (mm)	RECOMMENDED TENSION LOAD (kN)	TEST LOAD = 1.5 x TENSION ϕ LOAD (kN)
HILTI HST3-M12	50	50	55	100	5.8 x 1.34 = 7.77	7.77 x 1.5 = 11.7



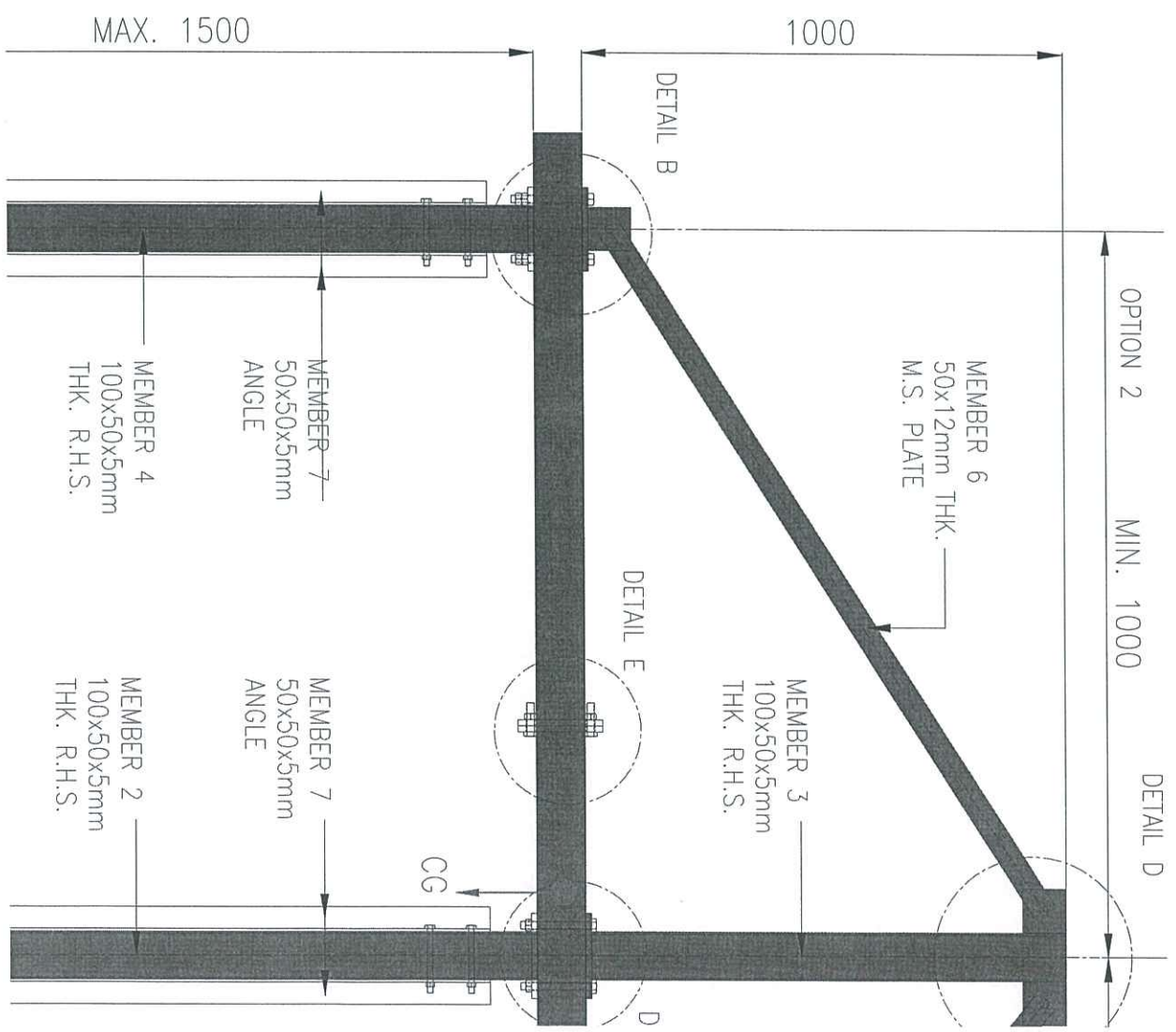
- * INFLUENCING FACTORS OF CONCRETE STRENGTH, $f_{c,calc} = 1.34$ (FOR GRADE C45)
- * TEST LOAD = RECOMMENDED LOAD x $f_{c,calc}$ x 1.5
- INSTALLATION OF THE ANCHOR BOLTS SHALL BE COMPLY WITH THE MANUFACTURER'S SPECIFICATIONS & RECOMMENDATIONS.
- COVER METER SHOULD BE USED TO LOCATE EXISTING REINFORCEMENT TO ENSURE THAT THEY WILL NOT BE DAMAGED DURING INSTALLATION OF ANCHOR BOLTS.

USE OF TROLLEY

MODEL: DC-A-10



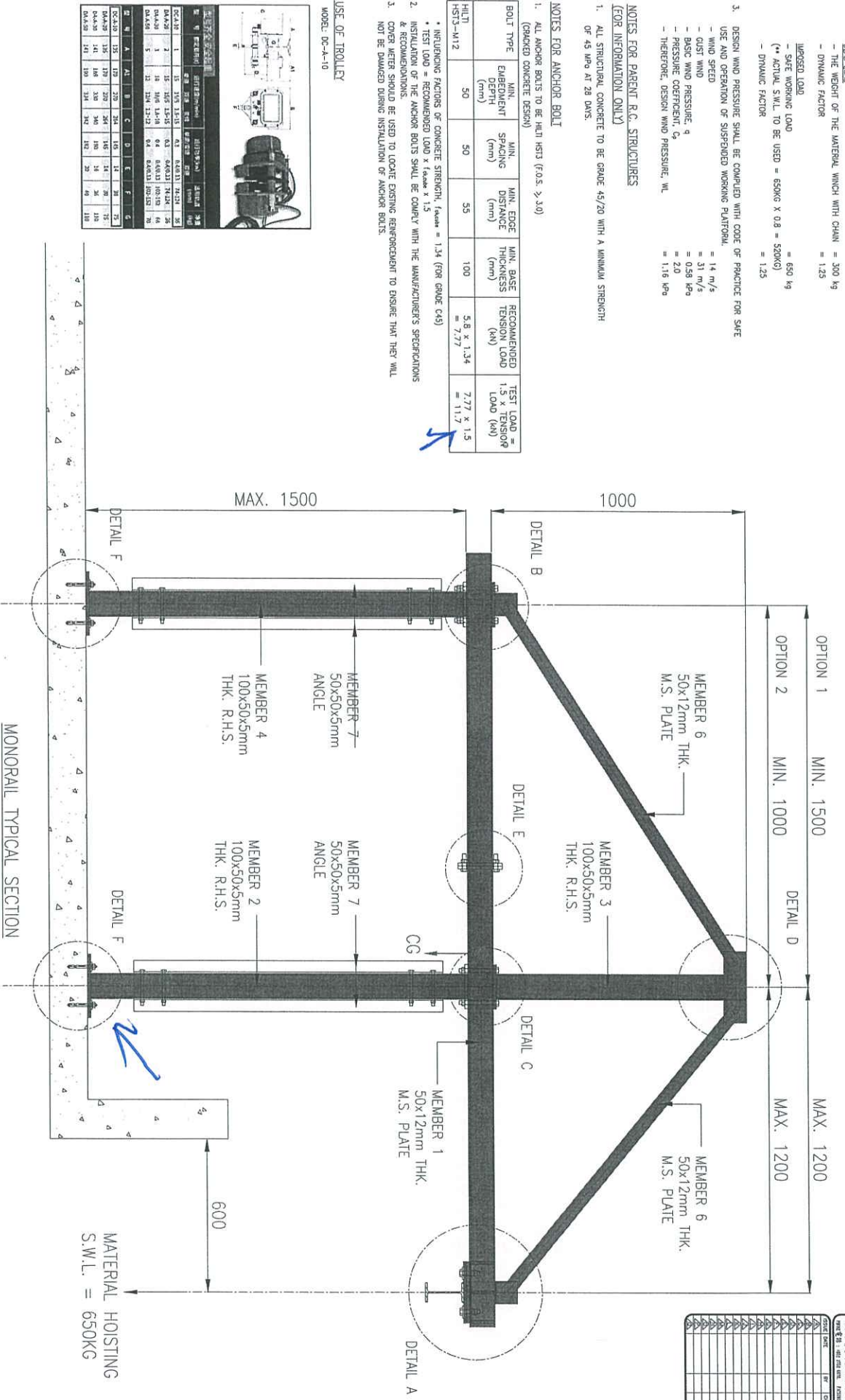
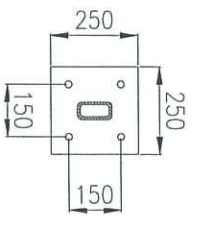
型号	额定载重(kg)	运行速度(m/min)	运行功率(kw)	总重量(kg)	净重(kg)
型号齐全	安全起重				



MEMBER SCHEDULE

MEMBER MARK	MEMBER SIZE	GRADE
MEMBER 1,2,3,4	100x50x5 R.H.S.	Q235
MEMBER 5,6	50x12 FLAT BAR	Q235
MEMBER 7	50x50x5 ANGLE	Q235
RAIL FOR MATERIAL	150x75x14 kg/m I-BEAM	Q355

FLOOR MOUNTED DETAIL



MONORAIL TYPICAL SECTION

MATERIAL HOISTING
S.W.L. = 650KG

- NOTES FOR STRUCTURAL STEEL**
- ALL MILD STEEL TO BE GRADE Q235 & Q345 IN COMPLIANCE WITH GB 50017.
 - GRADE Q345 FOR ALL HOLLOW SECTIONS, ANGLES AND PLATES ;
 - GRADE Q235 FOR ALL I-BEAMS.
 - DESIGN STRENGTH OF GRADE Q235 = 215 N/mm²
 - DESIGN STRENGTH OF GRADE Q345 = 310 N/mm²
 - ALL WELDS SHALL BE CARRIED OUT IN ACCORDANCE WITH GB 50017.

- DESIGN LOAD**
- ALL DEAD LOADS AND IMPOSED LOADS SHALL BE COMPLIED WITH CODE OF PRACTICE FOR DEAD AND IMPOSED LOADS 2011.
 - DESIGN LOADS ON RAIL FOR HOISTING THE MATERIAL--
 - DEAD LOAD
 - THE WEIGHT OF THE MATERIAL WHICH WITH CHAIN = 300 kg
 - DYNAMIC FACTOR = 1.25
 - IMPOSED LOAD
 - SAFE WORKING LOAD = 650 kg
 - (** ACTUAL S.W.L. TO BE USED = 650G X 0.8 = 520KG)
 - DYNAMIC FACTOR = 1.25

- DESIGN WIND PRESSURE SHALL BE COMPLIED WITH CODE OF PRACTICE FOR SAFE USE AND OPERATION OF SUSPENDED WORKING PLATFORM.
 - WIND SPEED = 14 m/s
 - WIND PRESSURE, q = 31 N/m²
 - BASIC WIND PRESSURE, q_s = 0.58 kN/m²
 - PRESSURE COEFFICIENT, C_{pe} = 2.0
 - WIND PRESSURE, W_L = 1.16 kN/m²

- NOTES FOR PARENT R.C. STRUCTURES (FOR INFORMATION ONLY)**
- ALL STRUCTURAL CONCRETE TO BE GRADE 45/20 WITH A MINIMUM STRENGTH OF 45 MPa AT 28 DAYS.

NOTES FOR ANCHOR BOLT

1. ALL ANCHOR BOLTS TO BE H&I HST (C.O.S. ≥ 3.0) (BRACED CONCRETE DESIGN)

BOLT TYPE	MIN. EMBEDMENT DEPTH (mm)	MIN. SPACING (mm)	MIN. EDGE DISTANCE (mm)	MIN. BASE THICKNESS (mm)	RECOMMENDED TENSION LOAD (kN)	TEST LOAD = 1.5 x TENSION LOAD (kN)
H&I HST3-M12	50	50	55	100	5.8 x 1.34 = 7.77	7.77 x 1.5 = 11.7

* INFLUENCING FACTORS OF CONCRETE STRENGTH, f_{cm,act} = 1.34 (FOR GRADE C45)

* TEST LOAD = RECOMMENDED LOAD x f_{cm,act} x 1.5

- INSTALLATION OF THE ANCHOR BOLTS SHALL BE COMPLY WITH THE MANUFACTURER'S SPECIFICATIONS & RECOMMENDATIONS.
- COVER METER SHOULD BE USED TO LOCATE EXISTING REINFORCEMENT TO ENSURE THAT THEY WILL NOT BE DAMAGED DURING INSTALLATION OF ANCHOR BOLTS.

USE OF TROLLEY

MODEL: DC-A-10

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	REMARKS
01	Trolley	Set	1	
02	Anchor Bolt	Set	4	
03	Washer	Set	4	
04	Nut	Set	4	
05	Plate	Set	1	
06	Bracket	Set	1	
07	Roller	Set	2	
08	Welding Material	kg	10	
09	Paint	kg	5	
10	Other	kg	10	

PROJECT NO: CK-1284-01

DATE: 28/7/2024

CHINA KING ENGINEERING LIMITED
 華光工程有限公司

PROJECT: MONORAIL RAIL TYPICAL SECTION AT L911

DESIGNED BY: KENH
 CHECKED BY: KL
 DRAWN BY: JLN

DATE: 28/7/2024

PROJECT: CK-1284-01

DATE: 28/7/2024

