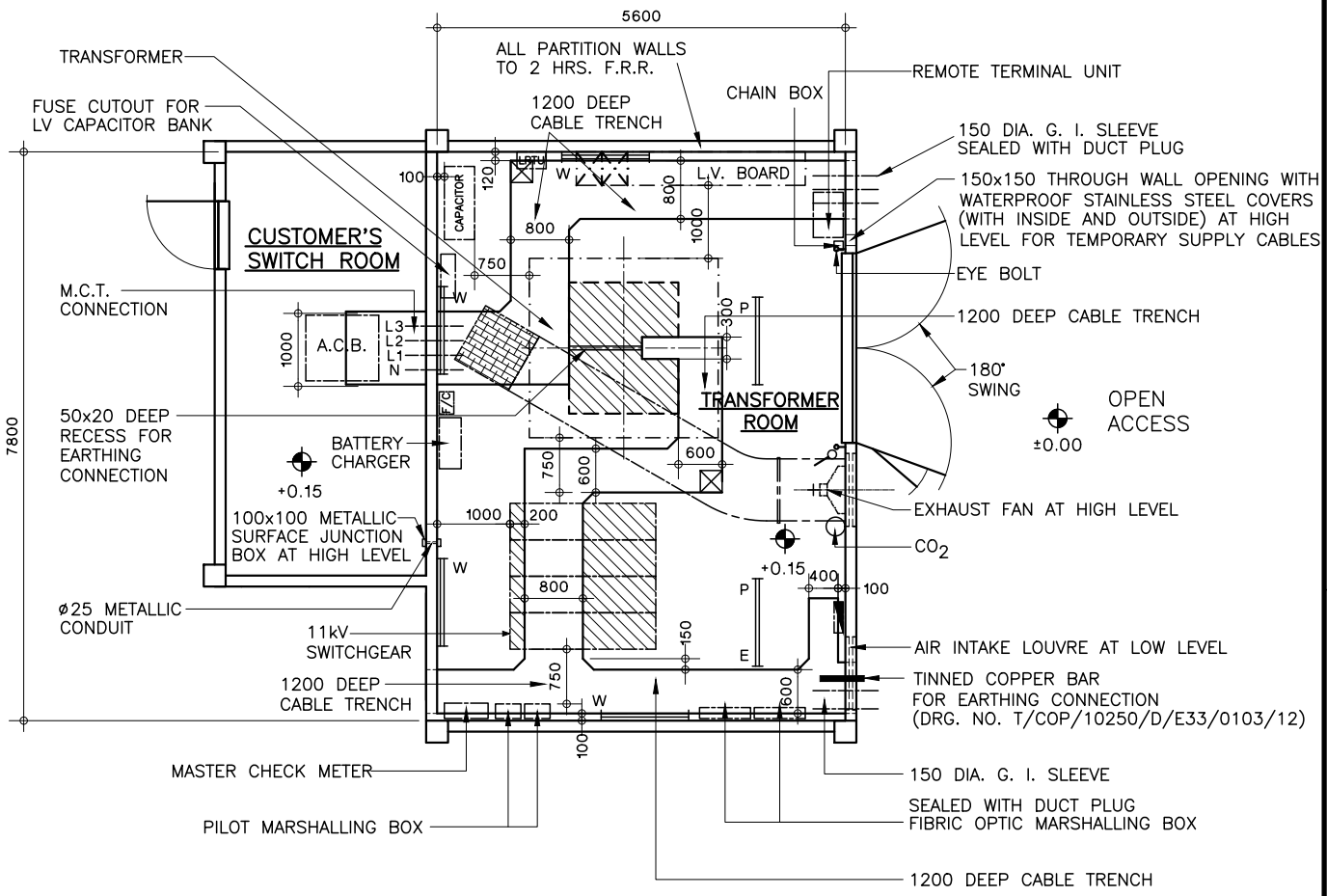


LEGEND:

W	WALL MOUNTED LAMPS
P	LAMPS SUSPENDED FROM CEILING
E	LAMPS WITH EMERGENCY LIGHTING UNIT
	LIGHTING SWITCH
F/C	FAN CONTROL PANEL
LRTU	LV MONITORING PANEL
	MCB BOARD
	300x300x200(D) RECESS AT TRENCH BOTTOM FOR SUMP PIT

K	CABLE TRENCH SIZE REVISED
J	SWAP POSITION OF MASTER CHECK METER AND BATTERY CHARGER, RECESS FOR SUMP PIT ADDED.
H	SYMBOLS, G.I. SLEEVE SIZE AND DEPTH OF CABLE TRENCH UPDATED. MASTER CHECK METER ADDED.
G	FUSE CUTOUT ADDED, DOOR, TRANSFORMER, HV SWITCHGEAR AND G.I. SLEEVE SIZE UPDATED. EMERGENCY LIGHTING ADDED.
F	CHAIN BOX ADDED AND CABLE TRENCH LADDER DELETED
E	UPDATED PHASE IDENTIFICATION, CABLE TRENCH LADDER AND E. LIGHTING ADDED
D	EMERGENCY LIGHTING UNIT DELETED. AIR INTAKE LOUVRE AND FAN CONTROL PANEL RELOCATED.
C	LRTU ADDED
B	GENERAL LAYOUT REVISION

REVS.	3.4.03	3.12.04	21.12.05	3.1.06	08.08.07	16.12.09	22.03.12	18.03.14	23.02.17	10.06.20	
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU	

CLP 中電

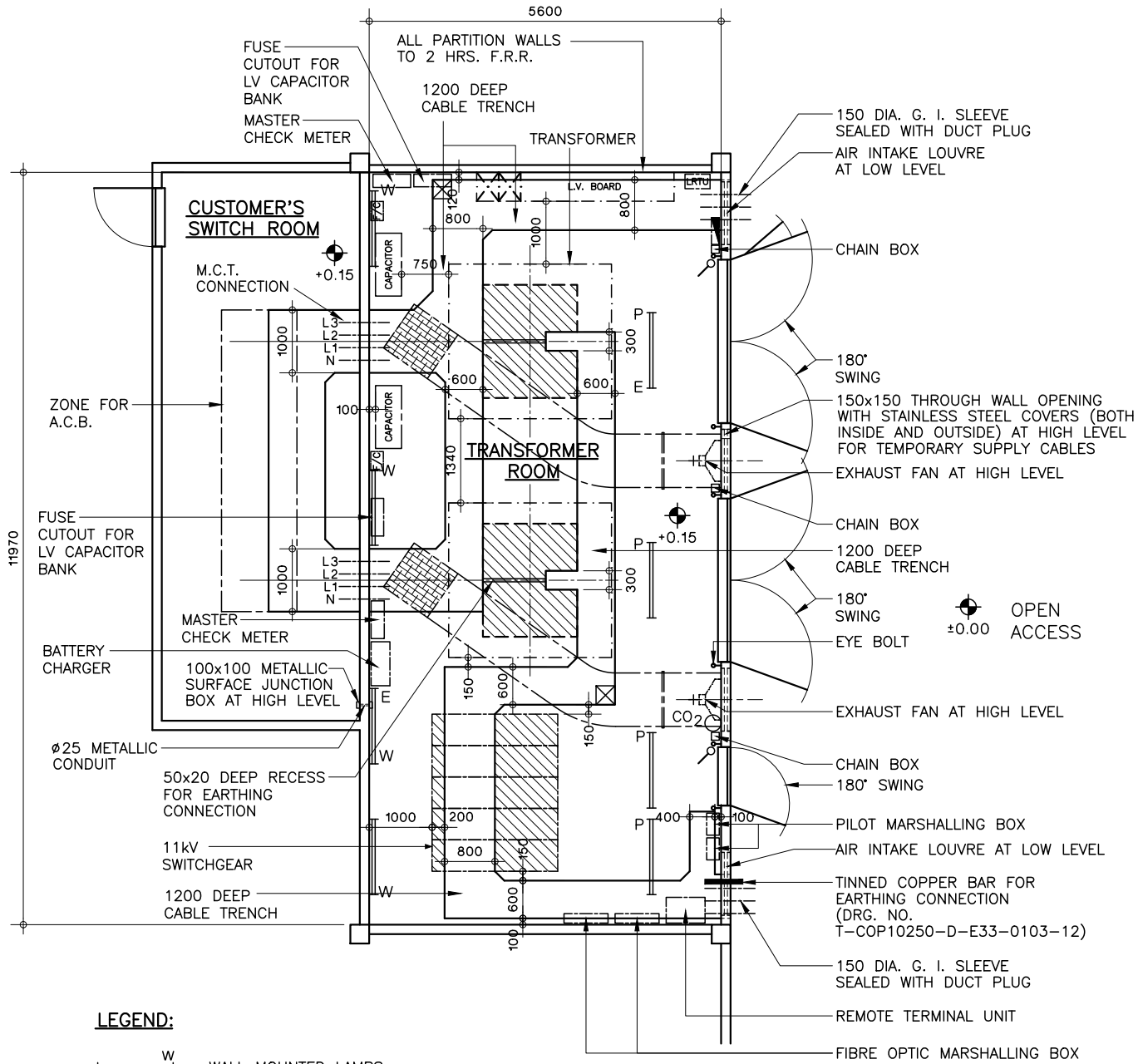
DRAWN:	S. C. TO	DATE:	18-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

TITLE :

TYPICAL GROUND FLOOR SUBSTATION LAYOUT FOR ONE TRANSFORMER AND 11kV SWITCHGEAR

ASSET MANAGEMENT

DRG. NO. T/COP/10250/D/E33/0101/02/K/A



LEGEND:

W	WALL MOUNTED LAMPS
P	LAMPS SUSPENDED FROM CEILING
E	LAMPS WITH EMERGENCY LIGHTING UNIT
	LIGHTING SWITCH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
F/C	FAN CONTROL PANEL
LRTU	LV MONITORING PANEL
	MCB BOARD
	300x300x200(D) RECESS AT TRENCH BOTTOM FOR SUMP PIT

K	UPDATED THE NAME OF CAPACITOR BANK
J	GENERAL LAYOUT REVISION
H	SYMBOL, G.I. SLEEVE SIZE AND DEPTH OF CABLE TRENCH UPDATED. MASTER CHECK METER ADDED.
G	FUSE CUTOUT ADDED, DOOR, TRANSFORMER, HV SWITCHGEAR AND G.I. SLEEVE SIZE UPDATED. EMERGENCY LIGHTING ADDED.
F	CHAIN BOX ADDED AND CABLE TRENCH LADDER DELETED
E	UPDATED PHASE IDENTIFICATION, CBALE TRENCH LADDER AND E. LIGHTING ADDED.
D	EMERGENCY LIGHTING UNIT DELETED. AIR INTAKE LOUVRE AND FAN CONTROL PANEL RELOCATED.
C	LRTU ADDED

REVS.	3.4.03	6.12.04	21.12.05	3.1.06	08.08.07	16.12.09	22.03.12	18.03.14	18.05.17	15.06.20	
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU	

CLP 中電

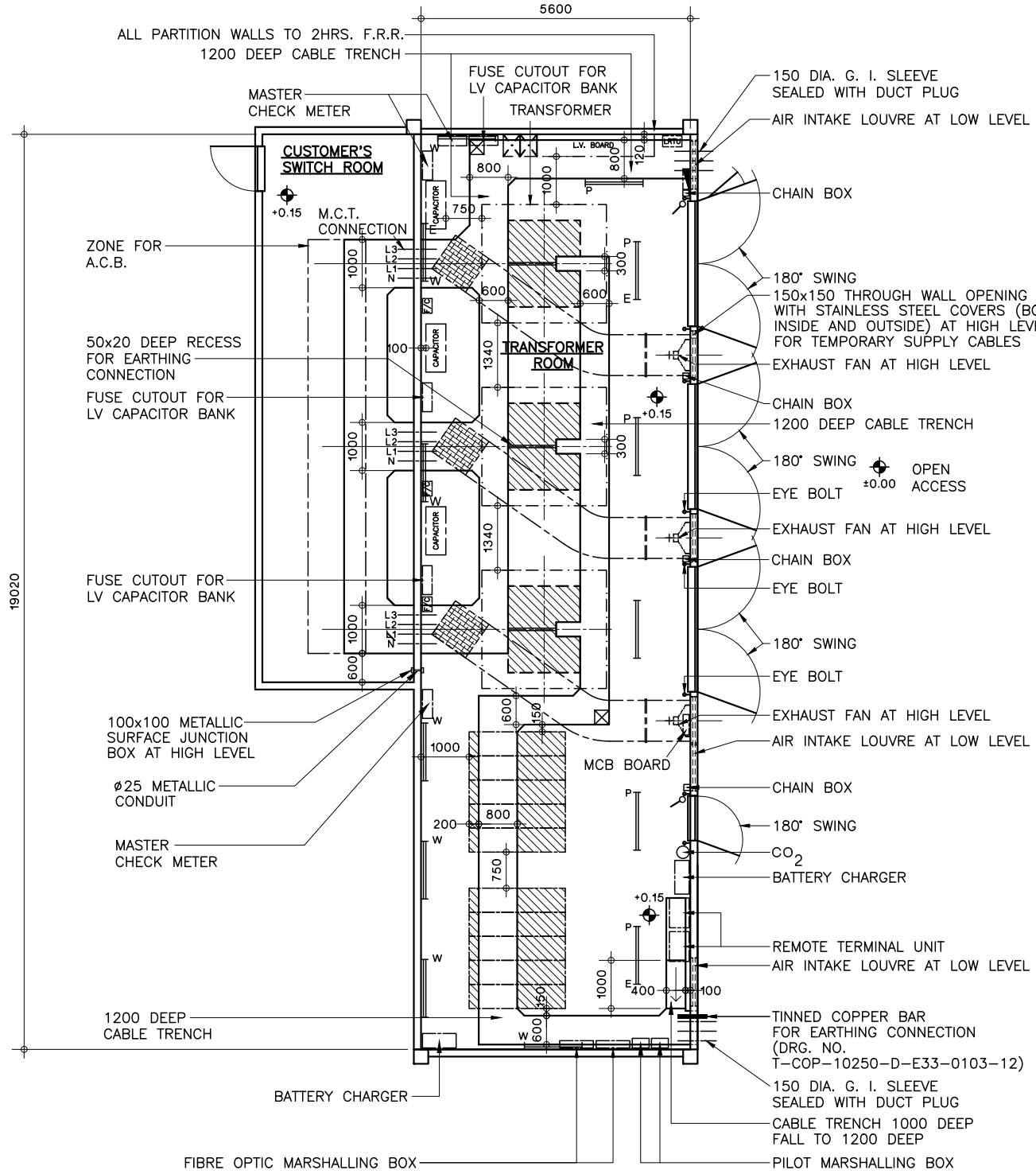
DRAWN:	S. C. TO	DATE:	19-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

TITLE :

TYPICAL GROUND FLOOR SUBSTATION LAYOUT FOR TWO TRANSFORMERS AND 11kV SWITCHGEAR

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 1 0 3 K A



LEGEND:

- LIGHTING SWITCH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
- P — LAMPS SUSPENDED FROM CEILING
- W — WALL MOUNTED LAMPS
- F/C — FAN CONTROL PANEL
- E — LAMPS WITH EMERGENCY LIGHTING UNIT
- LRTU — LV MONITORING PANEL
- MCB BOARD
- 300x300x200(D) RECESS AT TRENCH BOTTOM FOR SUMP PIT

L	UPDATED THE NAME OF CAPACITOR BANK

REVS.	3.4.03	30.11.04	21.12.05	3.1.06	13.4.06	13.8.07	16.12.09	23.03.12	18.03.14	23.02.17	15.06.20
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU

CLP 中電

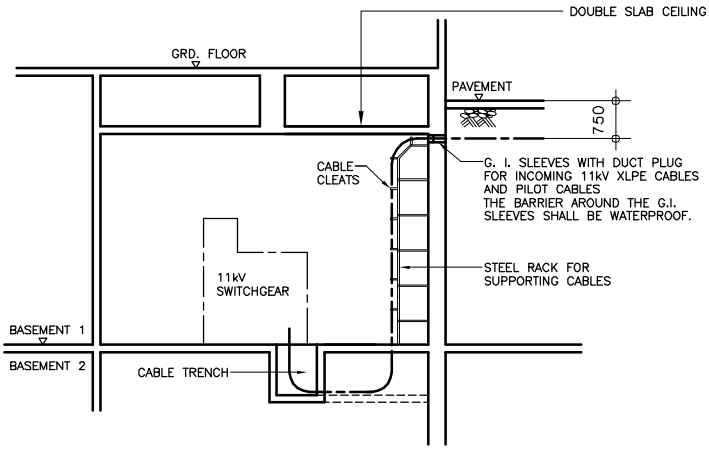
DRAWN:	S. C. TO	DATE:	19-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 125 (mm)	SHEET(S) IN SET:	

TITLE :

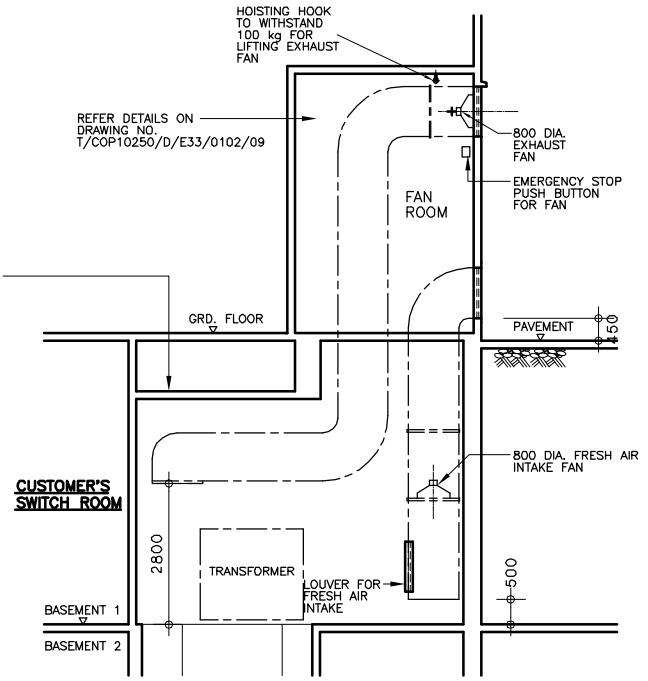
TYPICAL GROUND FLOOR SUBSTATION LAYOUT FOR THREE TRANSFORMERS AND 11kV SWITCHGEAR

ASSET MANAGEMENT

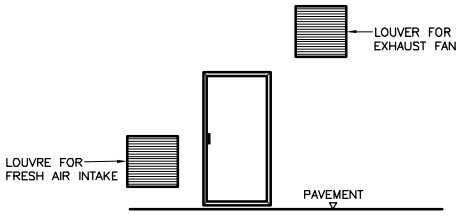
DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 1 0 4 L A



TYPICAL SECTIONAL VIEW OF CABLE RACK FOR BASEMENT SUBSTATION



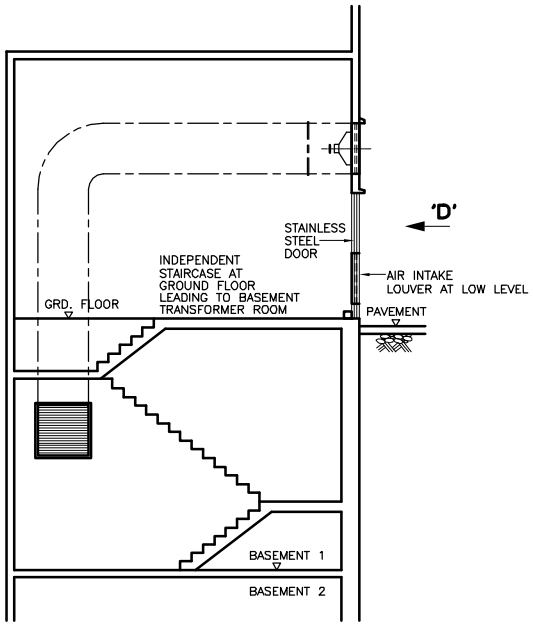
TYPICAL SECTIONAL VIEW OF AIR DUCTS FOR BASEMENT SUBSTATION



TYPICAL VENTILATION LOUVRE ELEVATION

NOTE:

MECHANICAL VENTILATION SYSTEM SHALL BE INSTALLED TO ADEQUATELY VENTILATE THE ACCESS CORRIDOR AND STAIR LEADING TO BASEMENT SUBSTATION.



TYPICAL SECTION OF STAIRS FOR SUBSTATION ACCESS

F	WATERPROOF REQUIREMENT FOR G.I. SLEEVES ADDED	E	LOUVER LEVEL UPDATED.	D	SCALE CHANGED TO NOT TO SCALE
C	DOUBLE SLAB CEILING ADDED	B	NOTES ADDED	A	VENT. AIR DUCT ADDED IN STAIRCASE

REVS.	14.09.04	13.08.07	08.01.10	22.03.12	18.03.14	23.02.17					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU					

CLP 中電

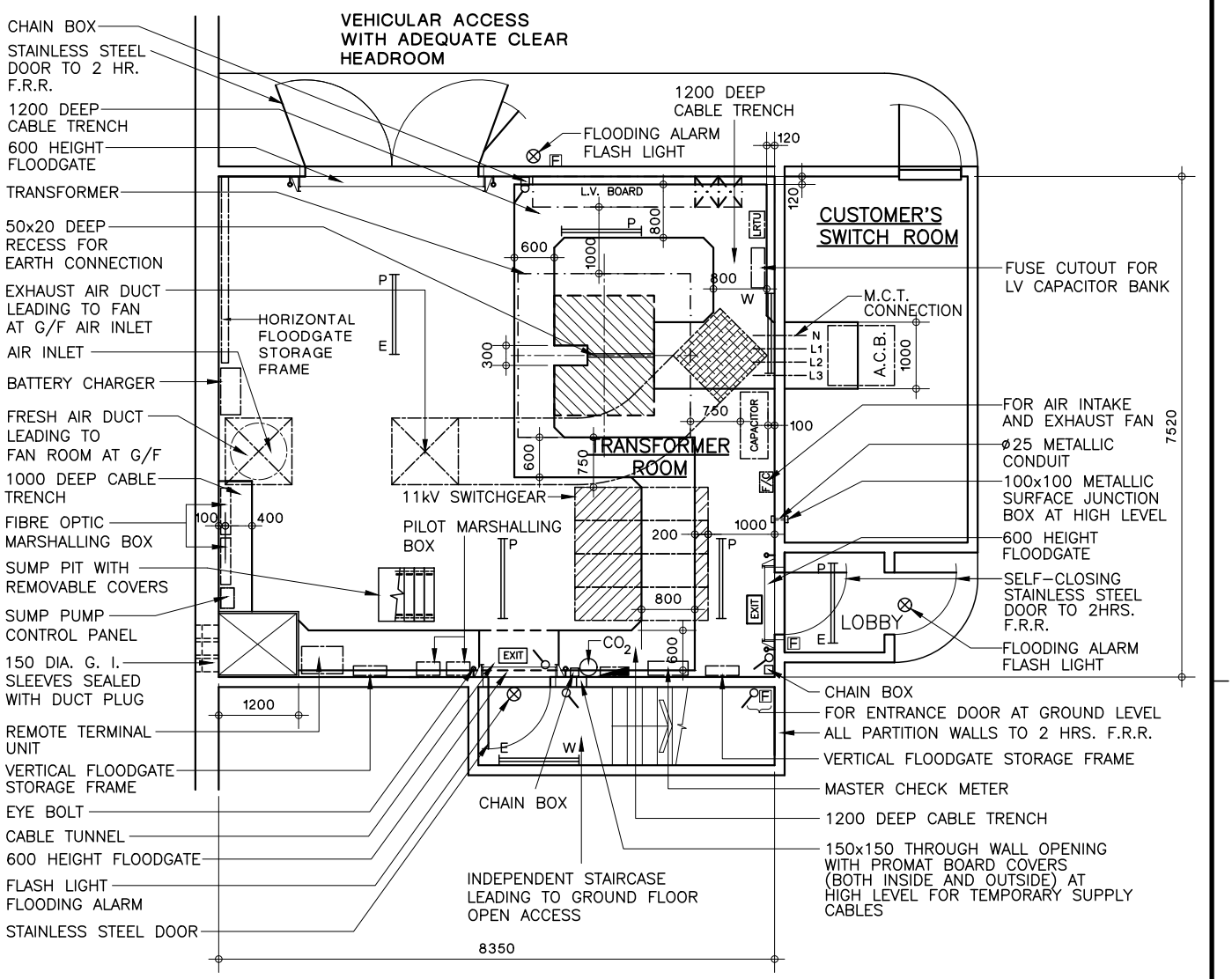
TITLE :

TYPICAL BASEMENT SUBSTATION SECTIONS

DRAWN:	S. C. TO	DATE:	22-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	N. T. S.	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 1 0 5 F A



LEGEND:

W	WALL MOUNTED LAMPS
P	LAMPS SUSPENDED FROM CEILING
E	LAMPS WITH EMERGENCY LIGHTING UNIT
	LIGHTING SWITCH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
F	FAN AUTO/MANUAL OPERATION SWITCH
F/C	FAN CONTROL PANEL
LRTU	LV MONITORING PANEL
	MCB BOARD

K	FLOODGATE AND STORAGE FRAME ADDED
J	GENERAL LAYOUT REVISION
H	SYMBOLS, G.I. SLEEVE SIZE AND DEPTH OF CABLE TRENCH UPDATED. MASTER CHECK METER ADDED.
G	FUSE CUTOUT ADDED, DOOR, TRANSFORMER, HV SWITCHGEAR AND G.I. SLEEVE SIZE UPDATED
F	CHAIN BOX ADDED AND CABLE TRENCH LADDER DELETED
E	PHASE IDENTIFICATION UPDATED SECTIONAL VIEWS AND CABLE TRENCH LADDER ADDED.
D	FAN CONTROL PANEL FOR AIR INTAKE AND EXHAUST FAN RELOCATED
C	LRTU ADDED
B	GENERAL LAYOUT REVISION

REVS.	03.08.04	08.12.04	21.12.05	5.1.06	08.08.07	16.12.09	26.03.12	18.03.14	24.02.17	12.06.20	
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C	K.C.C	K.C.C	K.C.C	K.C.C	K.C.C	K.C.C	H.T.YU	H.T.YU	H.T.YU	

CLP 中電

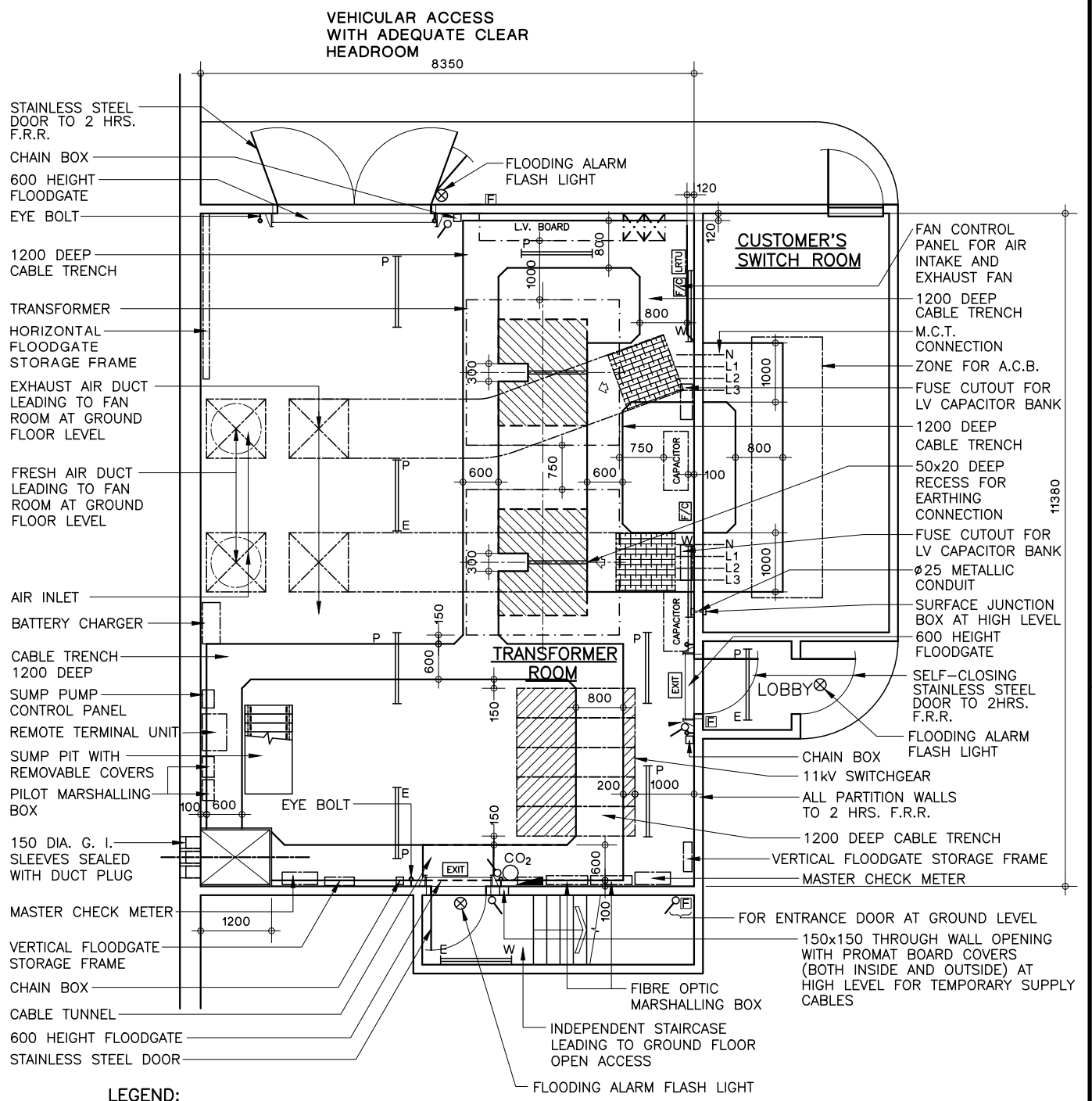
DRAWN:	S. C. TO	DATE:	22-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

TITLE :

TYPICAL BASEMENT SUBSTATION LAYOUT FOR ONE TRANSFORMER AND 11kV SWITCHGEAR

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010106KA



LEGEND:

W	WALL MOUNTED LAMPS
P	LAMPS SUSPENDED FROM CEILING
E	LAMPS WITH EMERGENCY LIGHTING UNIT
	LIGHTING SWITCH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
F	FAN AUTO/MANUAL OPERATION SWITCH
F/C	FAN CONTROL PANEL
LRTU	LV MONITORING PANEL
	MCB BOARD

K	FLOODGATE AND STORAGE FRAME ADDED
J	GENERAL LAYOUT REVISION
H	SYMBOLS, G.I. SLEEVE SIZE AND DEPTH OF CABLE TRENCH UPDATED, FIRE EXTINGUISHER ADDED. MASTER CHECK METER ADDED.
G	FUSE CUTOUT ADDED, DOOR, TRANSFORMER, HV SWITCHGEAR AND G.I. SLEEVE SIZE UPDATED
F	CHAIN BOX ADDED AND CABLE TRENCH LADDER DELETED
E	PHASE IDENTIFICATION UPDATED, FAN SWITCH AND CABLE TRENCH LADDER ADDED
D	FAN CONTROL PANEL FOR AIR INTAKE AND EXHAUST FAN RELOCATED

REVS.	03-9-04	09-12-04	21-12-05	5-1-06	16.08.07	16.12.09	26.03.12	18.03.14	23.02.17	12.06.20	
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU	

CLP 中電

DRAWN:	S. C. TO	DATE:	22-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

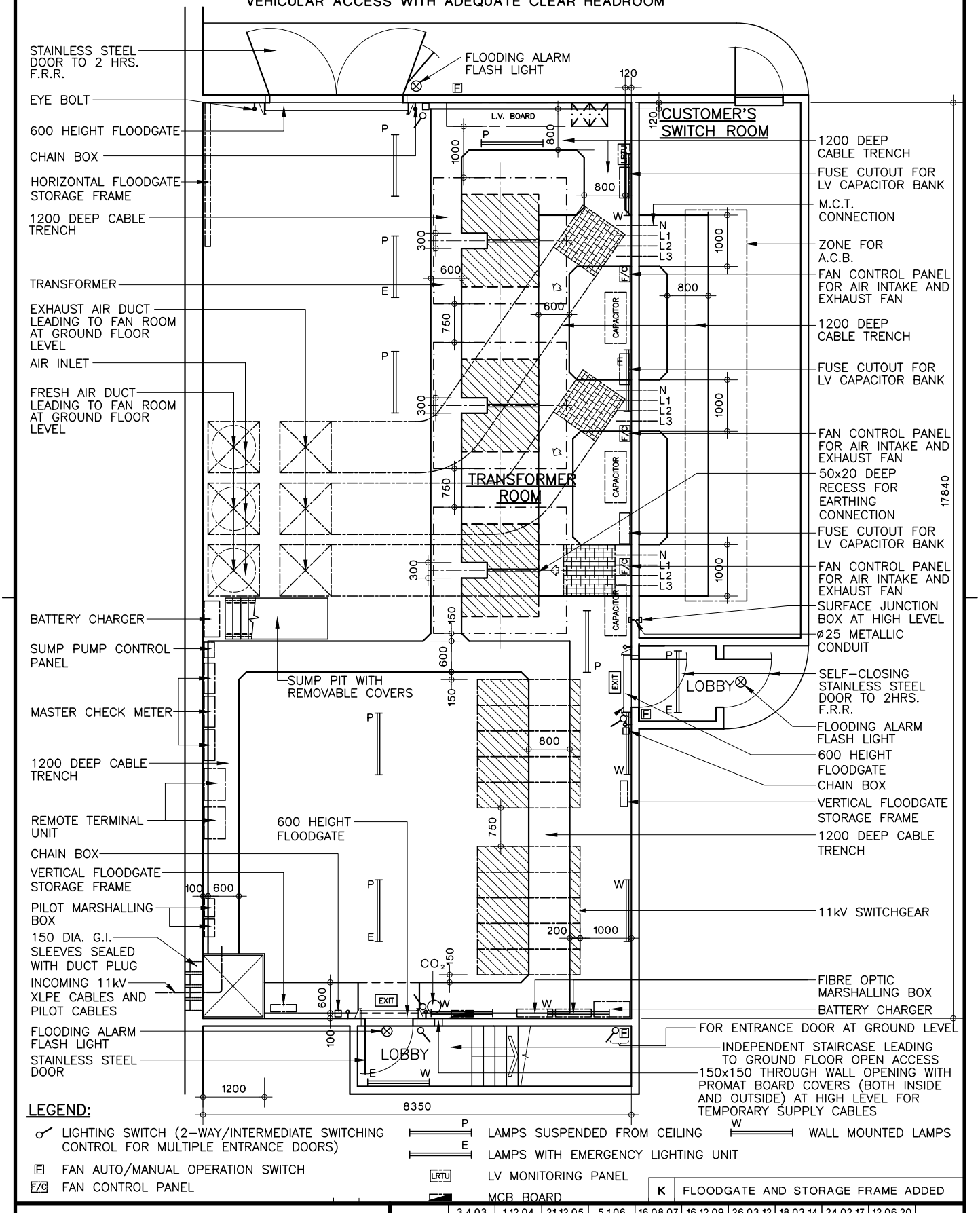
TITLE :

TYPICAL BASEMENT SUBSTATION LAYOUT FOR TWO TRANSFORMERS AND 11kV SWITCHGEAR

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010107KA

VEHICULAR ACCESS WITH ADEQUATE CLEAR HEADROOM



LEGEND:

- LIGHTING SWITCH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
- F FAN AUTO/MANUAL OPERATION SWITCH
- F/C FAN CONTROL PANEL
- P LAMPS SUSPENDED FROM CEILING
- E LAMPS WITH EMERGENCY LIGHTING UNIT
- LRTU LV MONITORING PANEL
- MCB BOARD
- W WALL MOUNTED LAMPS

K	FLOODGATE AND STORAGE FRAME ADDED

REVS.	3.4.03	1.12.04	21.12.05	5.1.06	16.08.07	16.12.09	26.03.12	18.03.14	24.02.17	12.06.20	
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU	

CLP 中電

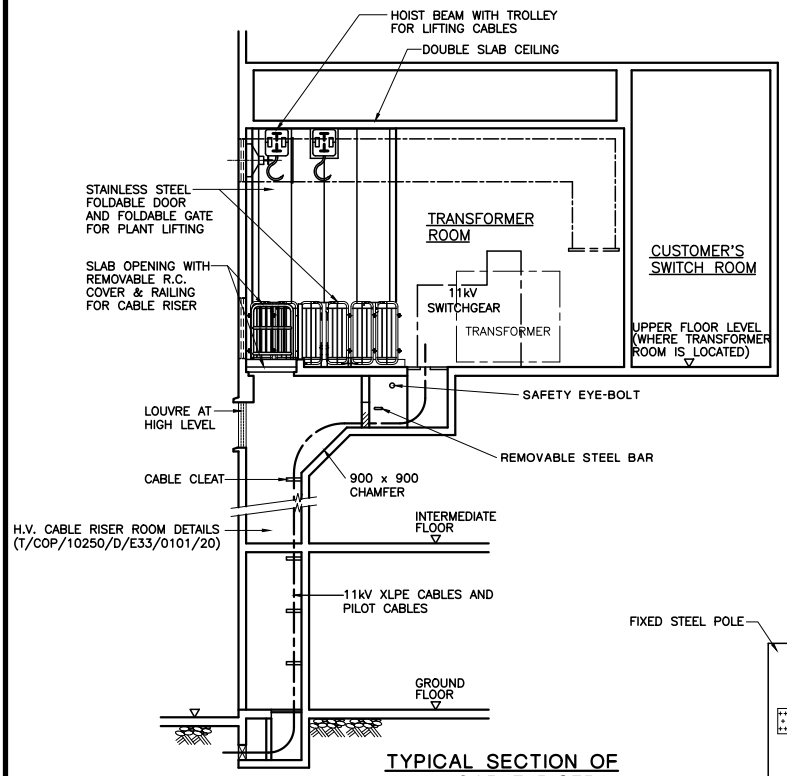
DRAWN:	S. C. TO	DATE:	22-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

TITLE :

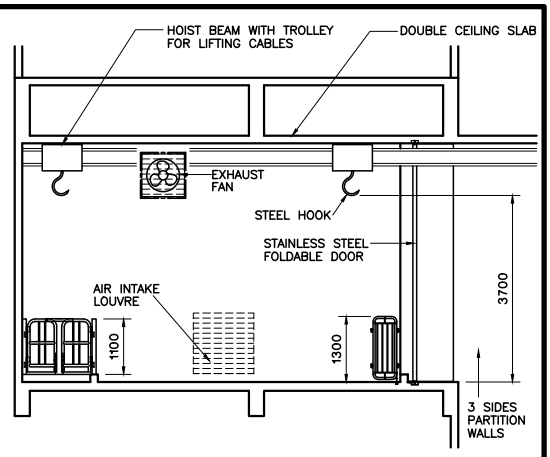
TYPICAL BASEMENT SUBSTATION LAYOUT FOR THREE TRANSFORMERS AND 11kV SWITCHGEAR

ASSET MANAGEMENT

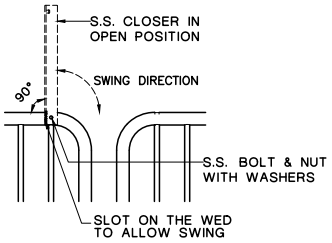
DRG. NO. TCOP10250DE3010108KA



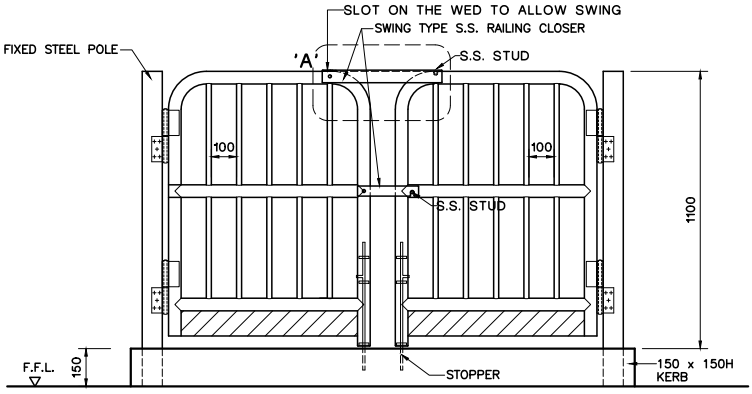
TYPICAL SECTION OF H.V. CABLE RISER



TYPICAL SECTIONAL VIEW OF UPPER FLOOR SUBSTATION WITH LIFTING SHAFT

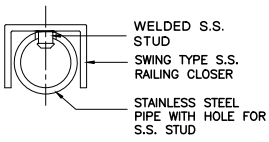


DETAIL 'A'

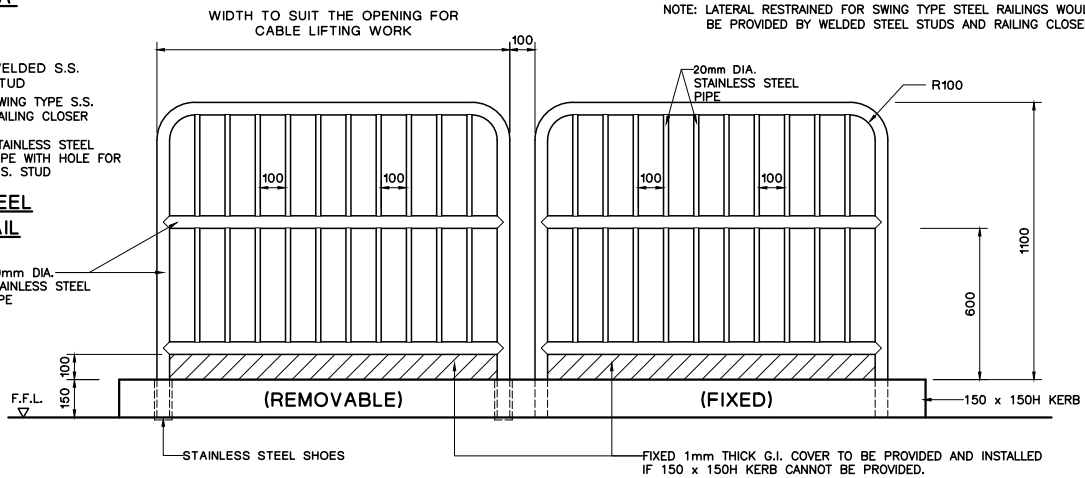


TYPICAL ELEVATION OF SWING TYPE STAINLESS STEEL RAILING (FRONT)

NOTE: LATERAL RESTRAINED FOR SWING TYPE STEEL RAILINGS WOULD BE PROVIDED BY WELDED STEEL STUDS AND RAILING CLOSERS.



TYPICAL STEEL STUD DETAIL



TYPICAL ELEVATION OF FIXED/REMOVABLE STAINLESS STEEL RAILING

NOTE: REMOVABLE RAILING IS USED FOR WORKING PLATFORM ONLY. REFER TO DRG. NO. T/COP/10250/D/E33/0102/03

NOTES:

1. ALL METAL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONNECTOR NOT LESS THAN 6mm^2.
2. ALL DIMENSIONS ARE IN mm.
3. THE DESIGN OF STEEL RAILING SHALL COMPLY WITH THE REQUIREMENT FOR PROTECTIVE BARRIERS IN THE BUILDING (CONSTRUCTION) REGULATION TABLE 3.

E	GENERALLY UPDATED
D	DETAILS OF HOIST BEAM & AIR TRUNK UPDATED
C	TYPICAL DETAIL OF REMOVABLE RAILING AND NOTE ADDED.
F	HATCH OPENING AND RAILING DESIGN UPDATED

REVS.	08.01.10	26.03.12	18.03.14	17.03.17	22.01.19	18.03.20					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	KCC	KCC	H.T.YU	H.T.YU	ED.YU	H.T.YU					

CLP 中電

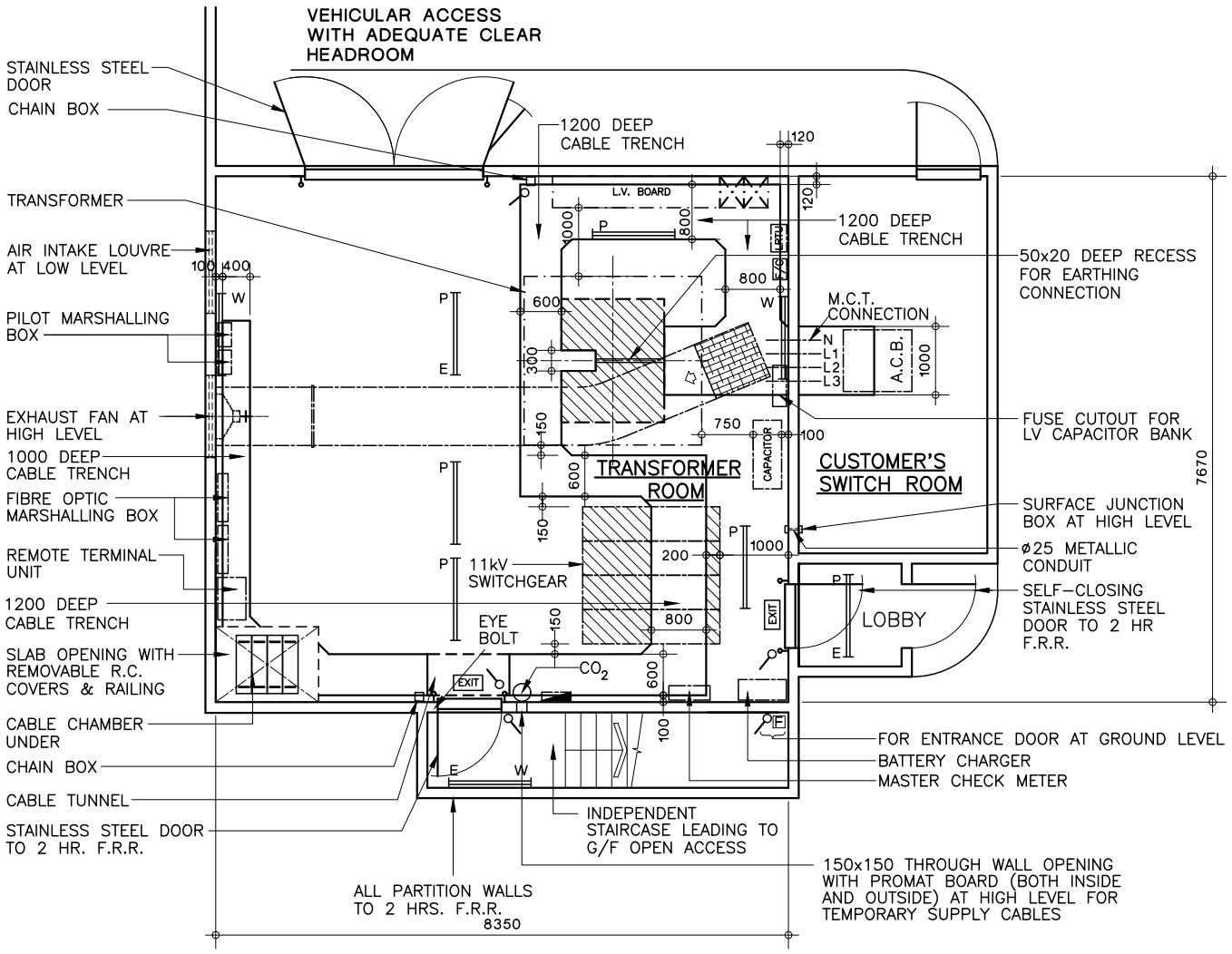
DRAWN: S. C. TO	DATE: 22-07-2002
CHECKED: K. C. CHENG	APPROVED: K. W. WONG
SCALE: N. T. S.	SHEET(S) IN SET:

TITLE :

TYPICAL UPPER FLOOR SUBSTATION SECTIONS

ASSET MANAGEMENT

DRG. NO. T/COP/10250/DE33/0101/09/F/A



LEGEND:

- W — WALL MOUNTED LAMPS
- P — LAMPS SUSPENDED FROM CEILING
- E — LAMPS WITH EMERGENCY LIGHTING UNIT
- LIGHTING SWITCH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
- F/C — FAN CONTROL PANEL
- LRTU — LV MONITORING PANEL
- MCB BOARD
- FAN AUTO/MANUAL OPERATION SWITCH

K	UPDATED THE NAME OF CAPACITOR BANK
J	GENERAL LAYOUT REVISION
H	SYMBOLS, DEPTH OF CABLE TRENCH UPDATED. FIRE EXTINGUISHER, MASTER CHECK METER ADDED.
G	FUSE CUTOUT ADDED, DOOR, TRANSFORMER, HV SWITCHGEAR AND G.I. SLEEVE SIZE UPDATED
F	CHAIN BOX ADDED AND CABLE TRENCH LADDER DELETED
E	PHASE IDENTIFICATION UPDATED AND CABLE TRENCH LADDER ADDED
D	AIR INTAKE LOUVRE AND FAN CONTROL PANEL RELOCATED
C	LRTU ADDED
B	GENERAL LAYOUT REVISION

REVS.	7.9.04	9.12.04	21.12.05	5.1.06	16.08.07	16.12.09	26.03.12	18.03.14	23.02.17	15.06.20	
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C	K.C.C	K.C.C	K.C.C	K.C.C	K.C.C	K.C.C	H.T.YU	H.T.YU	H.T.YU	

CLP 中電

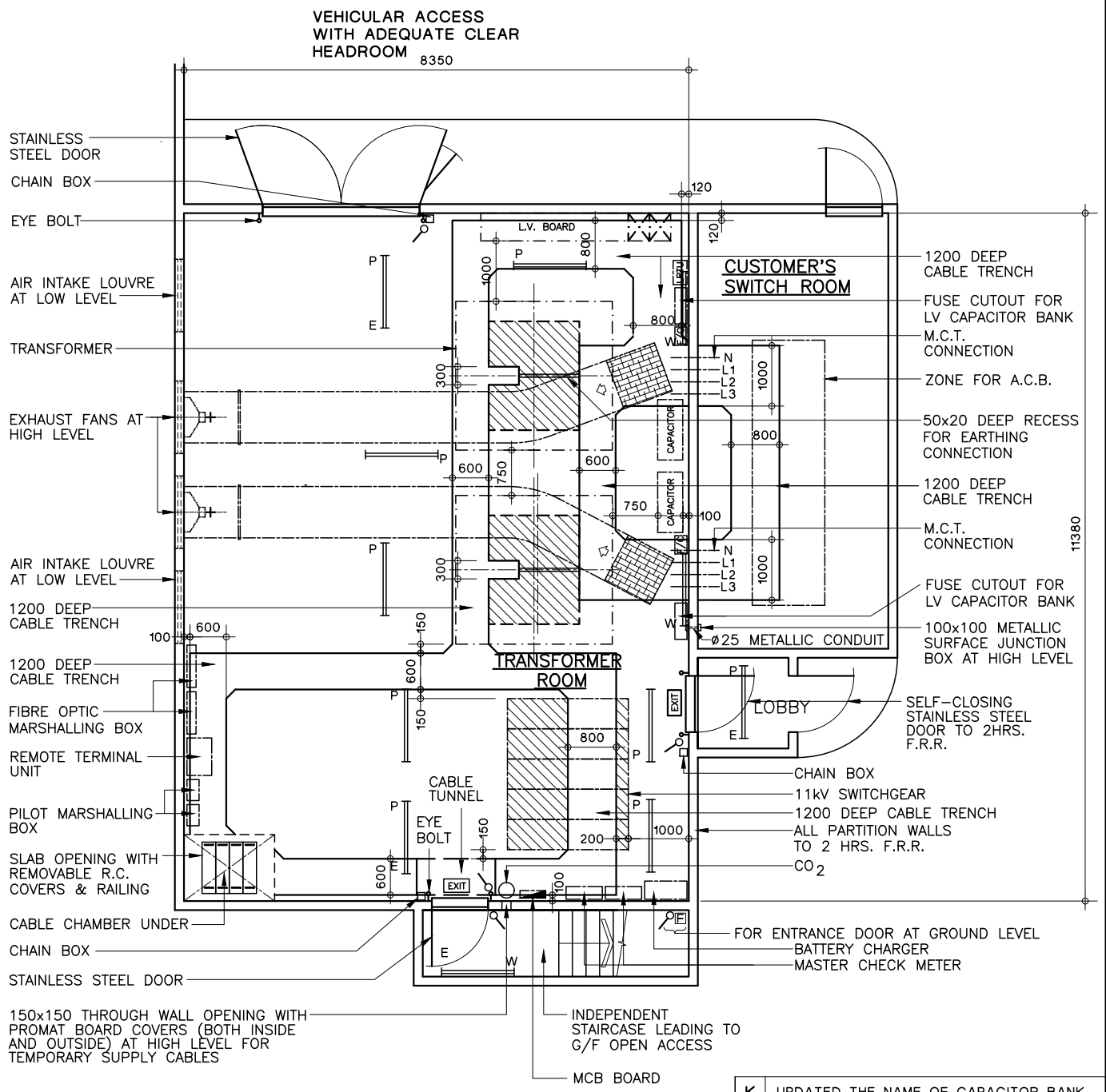
DRAWN:	S. C. TO	DATE:	22-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W.C.HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

TITLE :

TYPICAL UPPER FLOOR SUBSTATION LAYOUT FOR ONE TRANSFORMER AND 11kV SWITCHGEAR (INDEPENDENT STAIRCASE)

ASSET MANAGEMENT

DRG. NO. TCOP/10250/DE33010110/K/A



LEGEND:

W	WALL MOUNTED LAMPS
P	LAMPS SUSPENDED FROM CEILING
E	LAMPS WITH EMERGENCY LIGHTING UNIT
	LIGHTING SWITH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
F/C	FAN CONTROL PANEL
LRTU	LV MONITORING PANEL
	MCB BOARD
F	FAN AUTO/MANUAL OPERATION SWITCH

K	UPDATED THE NAME OF CAPACITOR BANK
J	GENERAL LAYOUT REVISION
H	SYMBOLS, DEPTH OF CABLE TRENCH UPDATED, FIRE EXTINGUISHER, MASTER CHECK METER ADDED.
G	FUSE CUTOUT ADDED, DOOR, TRANSFORMER, HV SWITCHGEAR AND G.I. SLEEVE SIZE UPDATED
F	CHAIN BOX ADDED AND CABLE TRENCH LADDER DELETED
E	PHASE IDENTIFICATION UPDATED AND CABLE TRENCH LADDER ADDED.
D	AIR INTAKELOUVRE AND FAN CONTROL PANEL RELOCATED
C	LRTU ADDED
B	GENERAL LAYOUT REVISION

REVS.	7-9-04	9.12.04	21.12.05	5.1.06	20.08.07	16.12.09	26.03.12	18.03.14	23.02.17	15.06.20	
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU	

CLP 中電

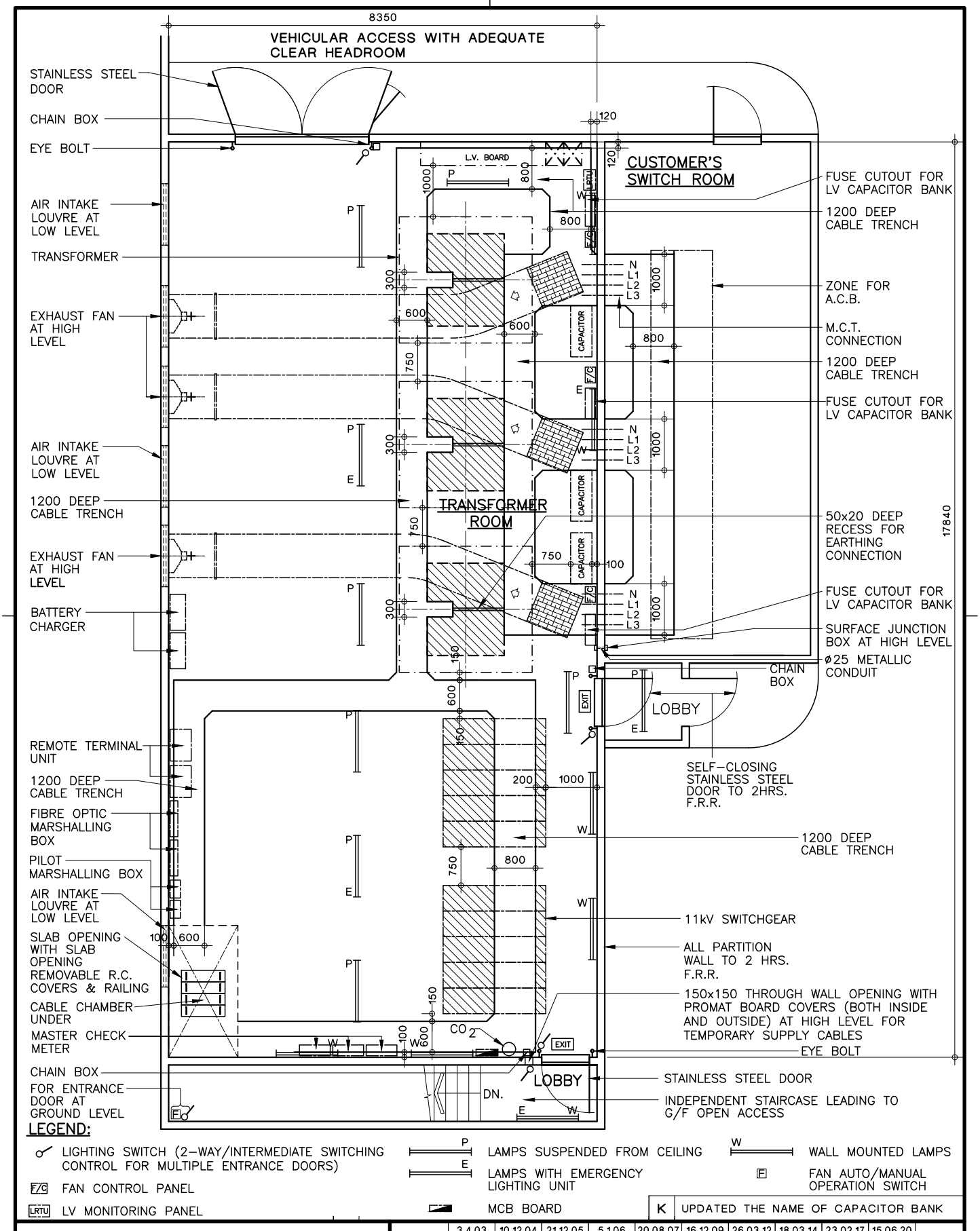
DRAWN:	S. C. TO	DATE:	22-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

TITLE :

TYPICAL UPPER FLOOR SUBSTATION LAYOUT FOR TWO TRANSFORMERS AND 11kV SWITCHGEAR (INDEPENDENT STAIRCASE)

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3301011KA



LEGEND:

- LIGHTING SWITCH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
- P — LAMPS SUSPENDED FROM CEILING
- W — WALL MOUNTED LAMPS
- E — LAMPS WITH EMERGENCY LIGHTING UNIT
- F — FAN AUTO/MANUAL OPERATION SWITCH
- F/C — FAN CONTROL PANEL
- LRTU — LV MONITORING PANEL
- MCB BOARD
- K — UPDATED THE NAME OF CAPACITOR BANK

REVS.	3.4.03	10.12.04	21.12.05	5.1.06	20.08.07	16.12.09	26.03.12	18.03.14	23.02.17	15.06.20	
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU	

CLP 中電

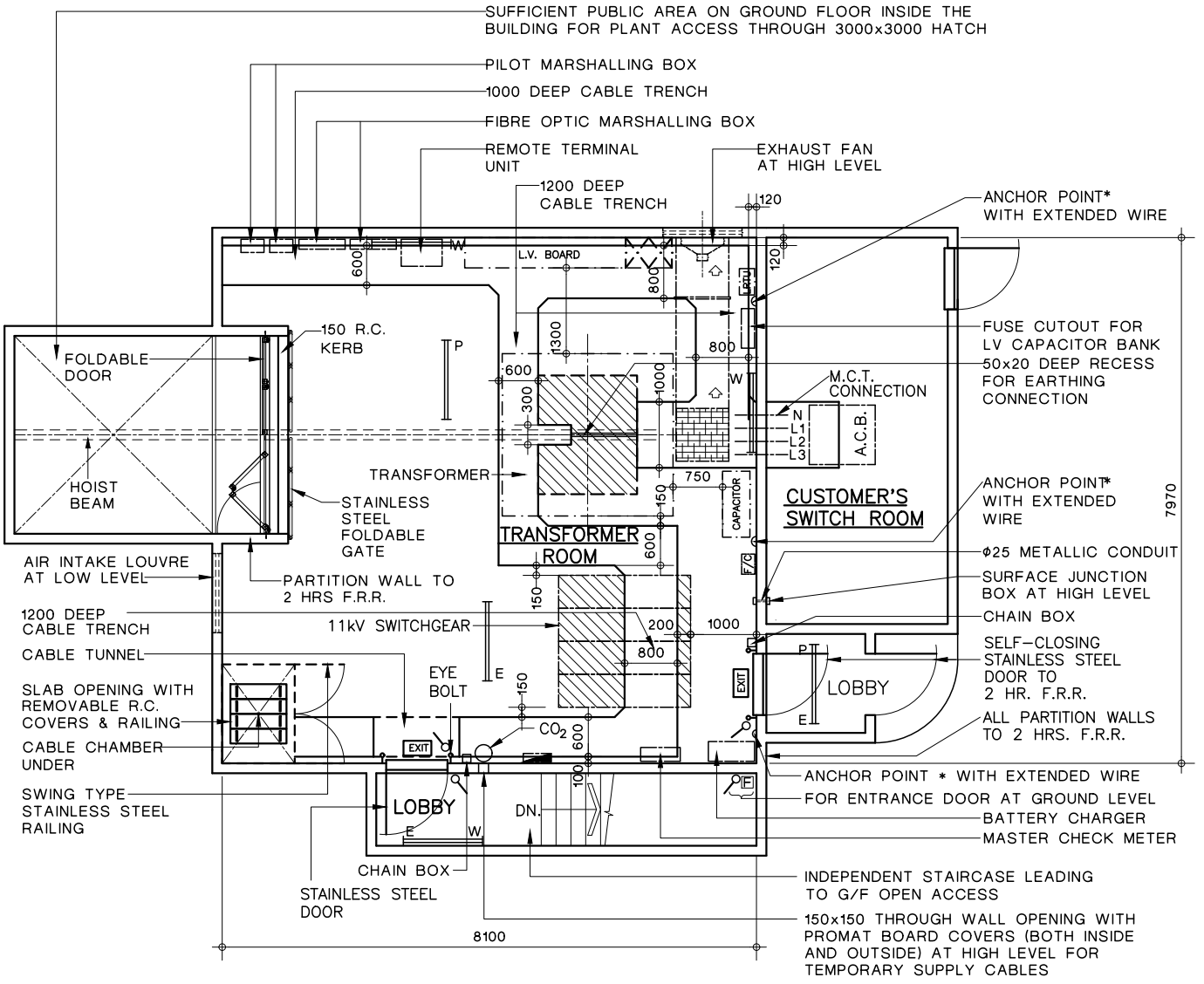
DRAWN:	S. C. TO	DATE:	22-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

TITLE :

TYPICAL UPPER FLOOR SUBSTATION LAYOUT FOR THREE TRANSFORMERS AND 11kV SWITCHGEAR (INDEPENDENT STAIRCASE)

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3301012KA



LEGEND:

- W — WALL MOUNTED LAMPS
- P — LAMPS SUSPENDED FROM CEILING
- E — LAMPS WITH EMERGENCY LIGHTING UNIT
- LIGHTING SWITCH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
- F/C — FAN CONTROL PANEL
- LRTU — LV MONITORING PANEL
- MCB BOARD
- F — FAN AUTO/MANUAL OPERATION SWITCH
- FIXED RAILING
- REMOVABLLE RAILING

NOTES:

*1. DESIGN OF FALL RESTRAINT SYSTEM SHALL FOLLOW THE TYPICAL DRAWING T/COP/10250/D/E33/0103/38.
2. IF THE PROVISION OF FALL RESTRAINT SYSTEM IS NOT REASONABLY PRACTICABLE, FALL ARREST SYSTEM SHALL BE PROVIDED AS THE LAST RESORT.
3. DESIGN OF STAINLESS STEEL FOLDABLE DOOR AND FOLDABLE GATE REFER TO DWG NO. T/COP/10250/D/E33/0103/43.
4. ALTERNATIVE ACCESS BY LIFT IN THE PUBLIC AREA INSIDE BUILDING SHALL BE PROVIDED.
5. IF HIGHER THAN 2 HOURS F.R.R. PARTITION WALL IS REQUIRED, PROTECTED LOBBY FOR PLANT ACCESS WILL BE REQUIRED.

L	ACCESS FOR PLANT LIFTING UPDATED
K	ANCHOR POINT AND FIXED RAILING, NOTE ADDED.
J	GENERAL LAYOUT REVISION
H	SYMBOLS, DEPTH OF CABLE TRENCH CONDUIT, FIRE EXTINGUISHER, MASTER CHECK METER ADDED.

REVS.	7.9.04	7.12.04	21.12.05	5.1.06	16.08.07	16.12.09	26.03.12	18.03.14	23.02.17	17.12.18	20.03.20
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C	K.C.C	K.C.C	K.C.C	K.C.C	K.C.C	K.C.C	H.T.YU	H.T.YU	H.T.YU	H.T.YU

CLP 中電

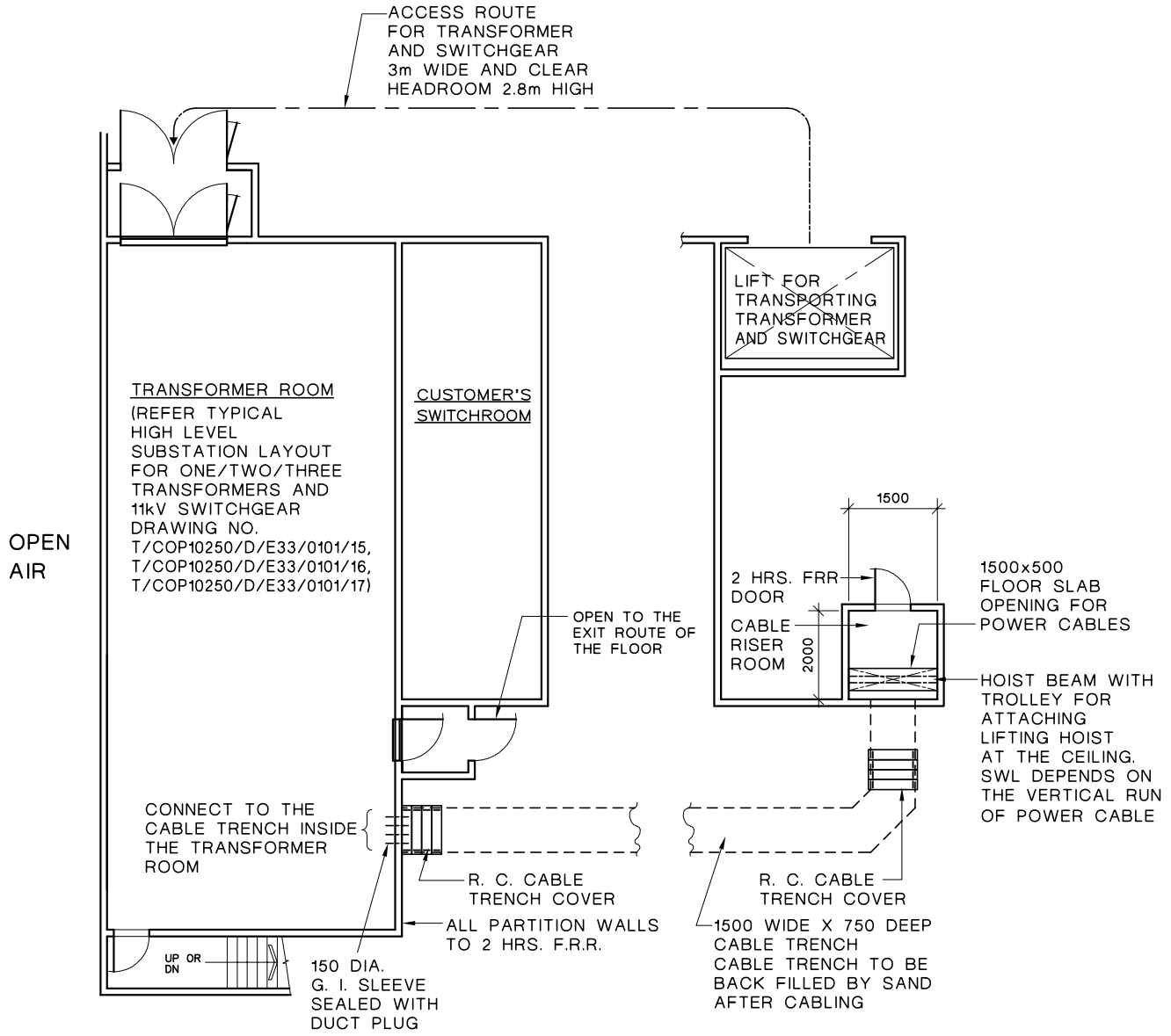
DRAWN:	S. C. TO	DATE:	22-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W.C.HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

TITLE :

TYPICAL UPPER FLOOR SUBSTATION LAYOUT FOR HOUSING ONE TRANSFORMER WITHOUT VEHICULAR ACCESS (INDEPENDENT STAIRCASE)

ASSET MANAGEMENT

DRG. NO. T/COP/10250/DE33/0101/13/L/A



NOTES:

1. THE TRANSFORMER ROOM SHALL BE LOCATED ON THE PERIPHERY OF THE BUILDING.
2. ALL FLOOR OPENINGS IN THE CABLE RISER ROOM TO BE SEALED UP BY CUSTOMER AFTER CABLING.
3. HOIST BEAM WITH TROLLEY FOR ATTACHING LIFTING HOIST TO BE PROVIDED BY CUSTOMER.

A	GENERAL AMENDMENT

CLP 中電

REVS.	18.03.14										
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	H.T.YU										

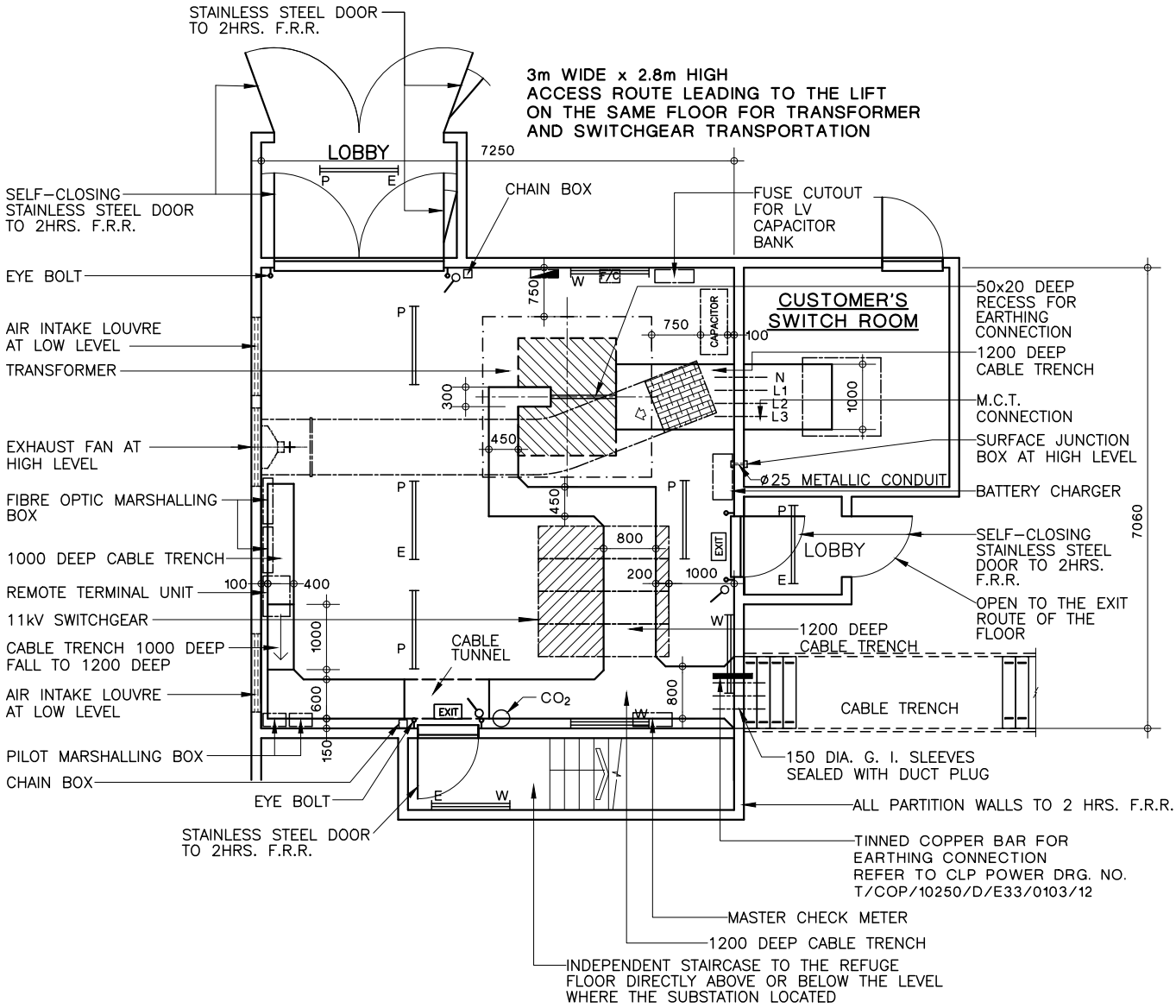
DRAWN:	T. Y. IP	DATE:	24-07-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	N.T.S.	SHEET(S) IN SET:	

TITLE :

TYPICAL HIGH LEVEL SUBSTATION LAYOUT FOR ONE/TWO/THREE TRANSFORMERS AND 11kV SWITCHGEAR IN HIGH RISE BUILDING

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 1 1 4 A A



LEGEND:

- W — WALL MOUNTED LAMPS
- P — LAMPS SUSPENDED FROM CEILING
- E — LAMPS WITH EMERGENCY LIGHTING UNIT
- LIGHTING SWITCH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
- F/C — FAN CONTROL PANEL
- MCB BOARD

NOTES:

WIND SHIELD DESIGN SHALL BE PROVIDED TO THE LOUVRES IN HIGH LEVEL FLOOR OF THE BUILDING IN ORDER TO PREVENT RAIN WATER INGRESS CAUSED BY STRONG WIND.

H	GENERAL LAYOUT REVISION
G	MASTER CHECK METER, FIRE EXTINGUISHER ADDED, SYMBOLS, G.I. SLEEVE SIZE AND DEPTH OF CABLE TRENCH UPDATED.
F	FUSE CUTOUT ADDED, DOOR, TRANSFORMER, HV SWITCHGEAR AND G.I. SLEEVE SIZE UPD.
E	CHAIN BOX ADDED AND CABLE TRENCH LADDER DELETED
J	UPDATED THE NAME OF CAPACITOR BANK

REVS.	3.4.03	8.12.04	5.1.06	16.08.07	17.12.09	26.03.12	18.03.14	24.02.17	15.06.20		
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU		

CLP 中電

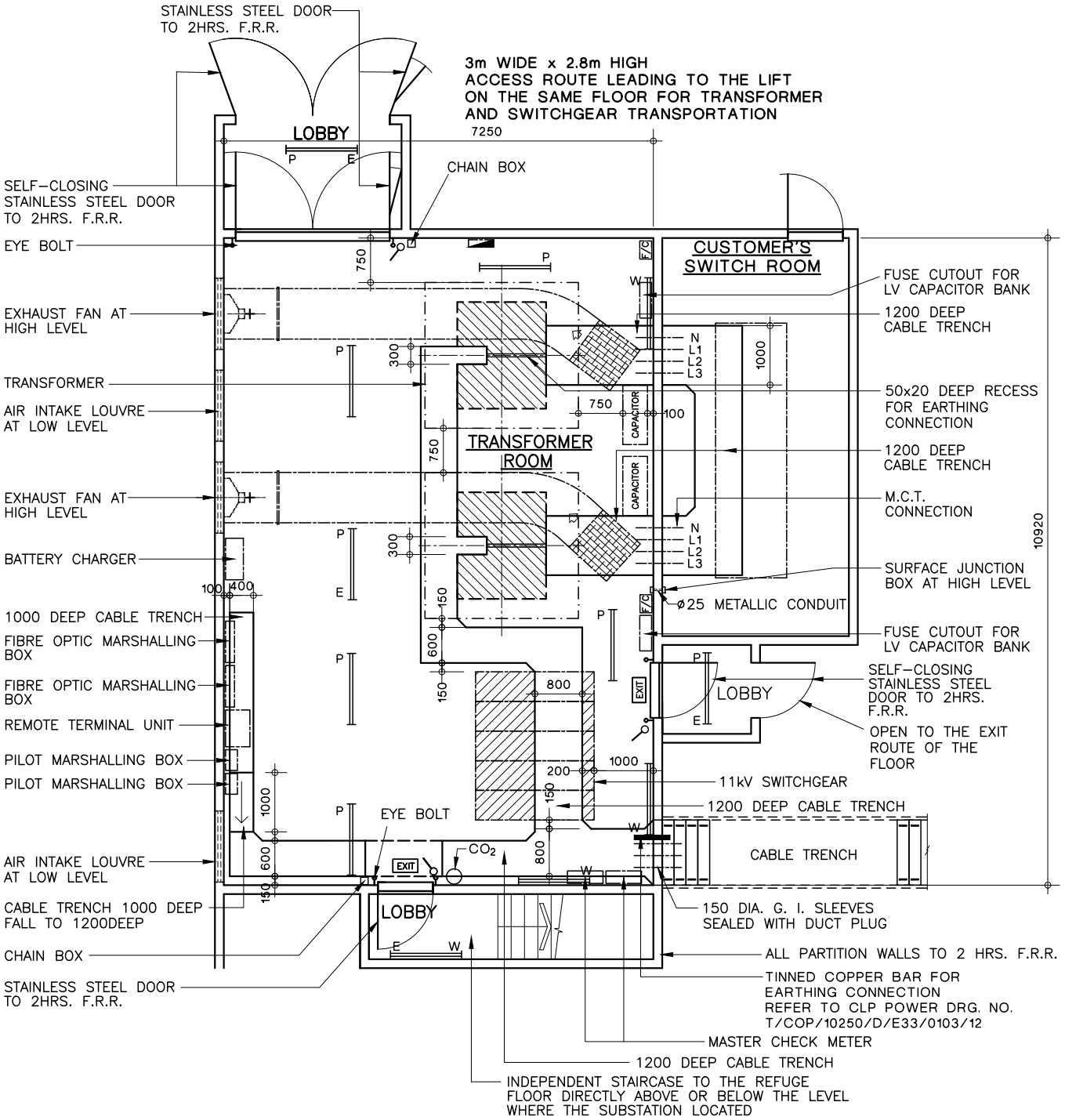
DRAWN: S. C. TO	DATE: 8-8-2002
CHECKED: K. C. CHENG	APPROVED: W. C. HO
SCALE: 1 : 100 (mm)	SHEET(S) IN SET:

TITLE :

TYPICAL HIGH LEVEL SUBSTATION LAYOUT FOR ONE TRANSFORMER AND 11kV SWITCHGEAR IN HIGH RISE BUILDING

ASSET MANAGEMENT

DRG. NO. T/COP/10250/DE33/0101/15/J/A



LEGEND:

- W — WALL MOUNTED LAMPS
- P — LAMPS SUSPENDED FROM CEILING
- E — LAMPS WITH EMERGENCY LIGHTING UNIT
- LIGHTING SWITCH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
- F/C — FAN CONTROL PANEL
- MCB BOARD

NOTES:

WIND SHIELD DESIGN SHALL BE PROVIDED TO THE LOUVRES IN HIGH LEVEL FLOOR OF THE BUILDING IN ORDER TO PREVENT RAIN WATER INGRESS CAUSED BY STRONG WIND.

H	GENERAL LAYOUT REVISION
G	MASTER CHECK METER, FIRE EXTINGUISHER ADDED, SYMBOLS, G.I. SLEEVE SIZE AND DEPTH OF CABLE TRENCH UPDATED.
F	FUSE CUTOUT ADDED, DOOR, TRANSFORMER, HV SWITCHGEAR AND G.I. SLEEVE SIZE UPD.
E	CHAIN BOX ADDED AND CABLE TRENCH LADDER DELETED
J	UPDATED THE NAME OF CAPACITOR BANK

REVS.	3.4.03	8.12.04	16.08.07	16.10.07	16.12.09	26.03.12	18.03.14	24.02.17	15.06.20		
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU		

CLP 中電

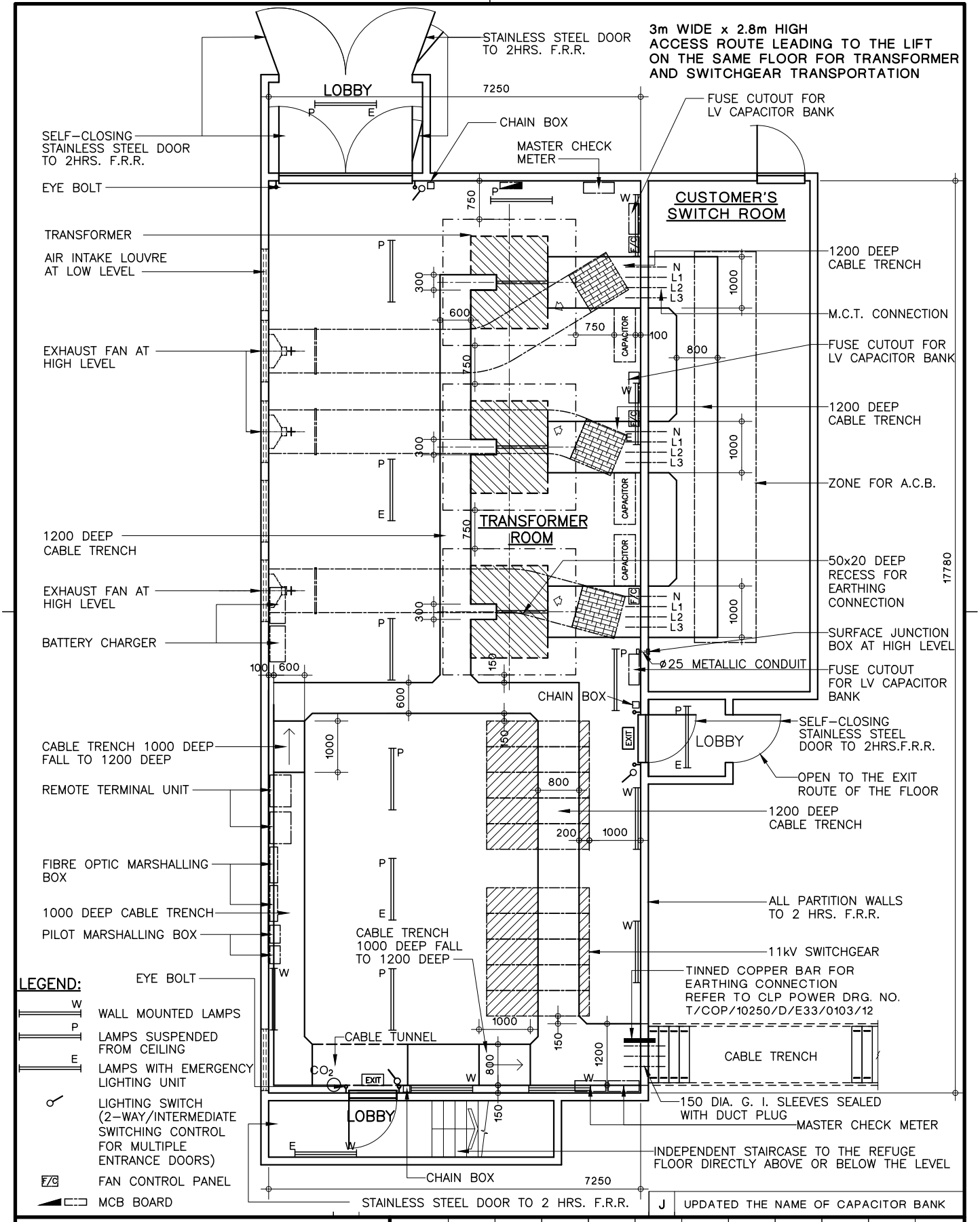
TITLE :

TYPICAL HIGH LEVEL SUBSTATION LAYOUT FOR TWO TRANSFORMERS AND 11kV SWITCHGEAR IN HIGH RISE BUILDING

DRAWN:	S. C. TO	DATE:	8-8-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. T/COP/10250/D/E33/0101/16/J/A



J	UPDATED THE NAME OF CAPACITOR BANK

REVS.	3.4.03	10.12.04	5.1.06	16.08.07	17.12.09	26.03.12	18.03.14	23.02.17	15.06.20		
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU		

CLP 中電

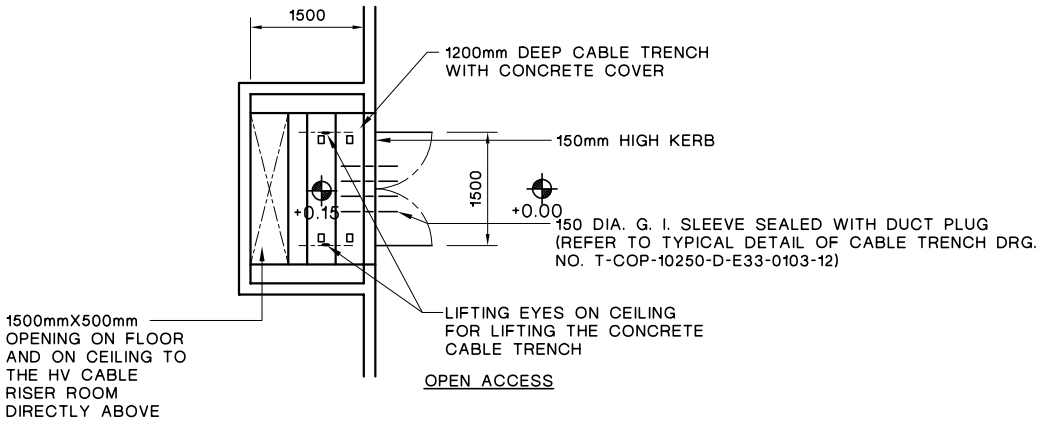
DRAWN:	S. C. TO	DATE:	8-8-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

TITLE :

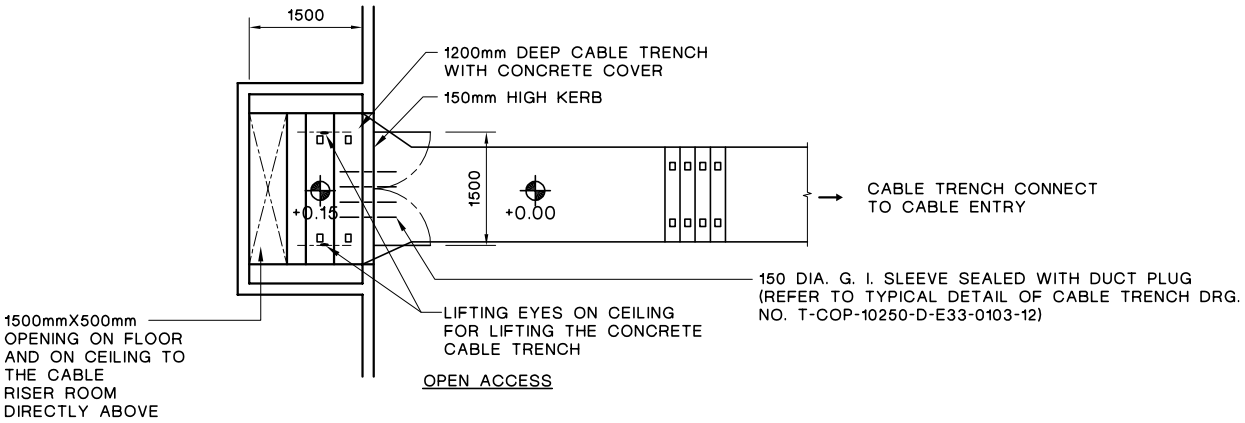
TYPICAL HIGH LEVEL SUBSTATION LAYOUT FOR THREE TRANSFORMERS AND 11kV SWITCHGEAR IN HIGH RISE BUILDING

ASSET MANAGEMENT

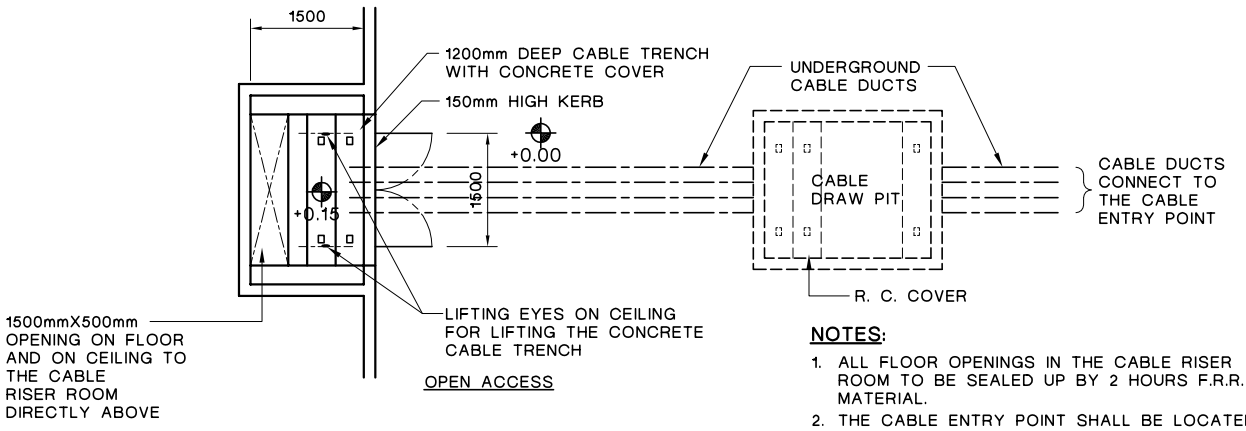
DRG. NO. T / C O P / 1 0 2 5 0 / D / E 3 3 / 0 1 0 1 / 1 7 / J / A



PART PLAN OFCABLE RISER ROOM LOCATED
ON GROUND FLOOR AND PERIPHERY OF THE BUILDING



PART PLAN OF CABLE RISER ROOM LOCATED
ON GROUND FLOOR OF THE BUILDING AND
CONNECTED TO CABLE ENTRY POINT BY CABLE TRENCH



PART PLAN OF CABLE RISER ROOM LOCATED
ON GROUND FLOOR OF THE BUILDING AND
CONNECTED TO CABLE ENTRY POINT
BY UNDERGROUND CABLE DUCTS

NOTES:

1. ALL FLOOR OPENINGS IN THE CABLE RISER ROOM TO BE SEALED UP BY 2 HOURS F.R.R. MATERIAL.
2. THE CABLE ENTRY POINT SHALL BE LOCATED AT THE SITE BOUNDARY OF THE CUSTOMER'S SITE.
3. THE DIMENSIONS AND LAYOUT OF THE CABLE TRENCH AND UNDERGROUND CABLE DUCTS CONNECTING TO THE CABLE ENTRY POINT OF THE SITE TO BE DETERMINED SUBJECTED TO THE NUMBER OF CABLE LAYING TO THE HIGH LEVEL SUBSTATION.

C	G.I. SLEEVE SIZE UPDATED.

REVS.	3.4.03	09.07.12	09.06.14								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	E. YU	H.T.YU								

CLP 中電

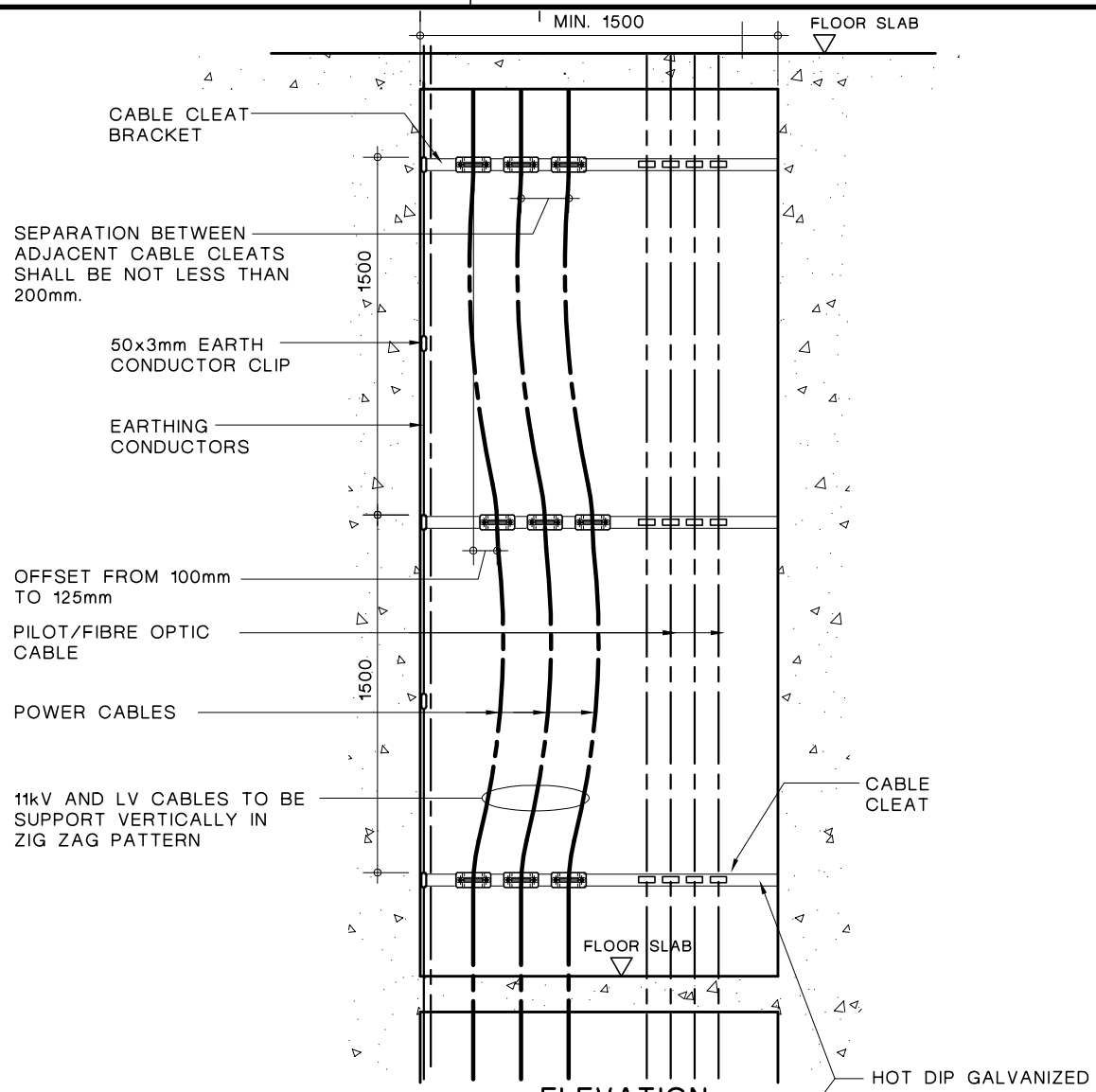
DRAWN: T. Y. IP	DATE: 9-8-2002
CHECKED: K. C. CHENG	APPROVED: K. W. WONG
SCALE: 1 : 100 (mm)	SHEET(S) IN SET:

TITLE :

TYPICAL PLAN OF CABLE RISER ROOM ON GROUND FLOOR OR FLOOR LEVEL WHERE CABLE ENTRY (SHEET 1 OF 4)

ASSET MANAGEMENT

DRG. NO. TCOP10250DE33010118CA



NOTES :-

1. CABLE CLEAT, EARTHING CONDUCTOR AND CLIP AND HOT DIP GALVANIZED STEEL CHANNEL FOR MOUNTING CABLE CLEATS SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/DEVELOPER.
2. LIGHTING AND FIRE SERVICES INSIDE CABLE RISER ROOM TO BE SUPPLIED, INSTALLED AND MAINTAINED BY CUSTOMER/DEVELOPER.
3. EXACT NUMBER AND LAYOUT OF H.V. AND L.V. CABLES TO SUIT SITE REQUIREMENT.
4. ALL DIMENSIONS ARE IN mm.

C	GENERAL AMENDMENT	

REVS.	A	B	C	D	E	F	G	H	J	K	L
	30-7-08	02-05-12	18.03.14								
INITIAL	KCC	KCC	H.T.YU								

CLP 中電

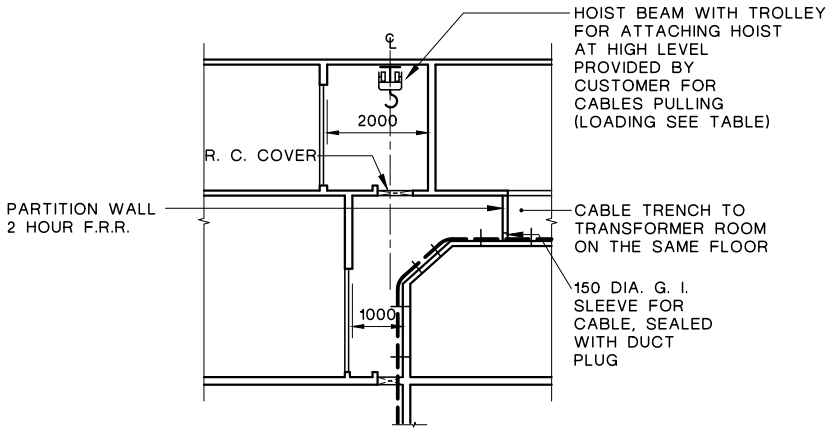
DRAWN:	T. C. AU	DATE:	17-09-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	1 : 30 (mm)	SHEET(S) IN SET:	

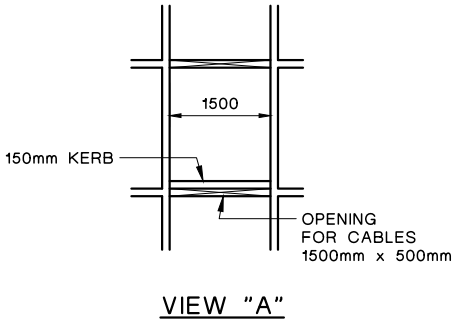
TITLE :

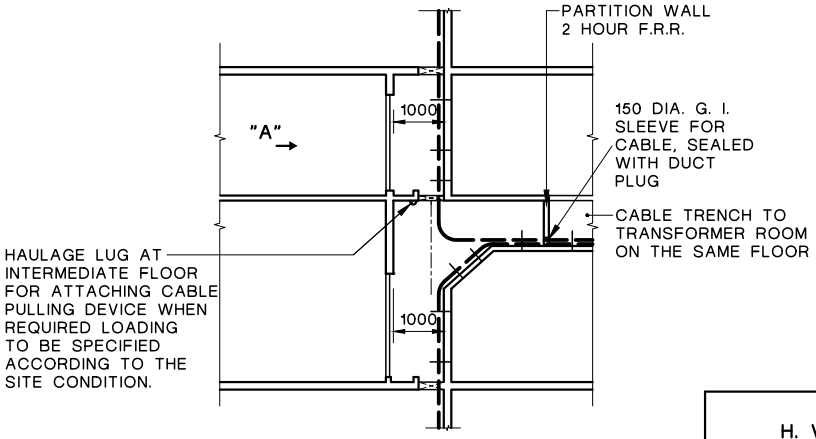
TYPICAL LAYOUT OF CABLE RISER ROOM (SHEET 2 OF 4)

ASSET MANAGEMENT

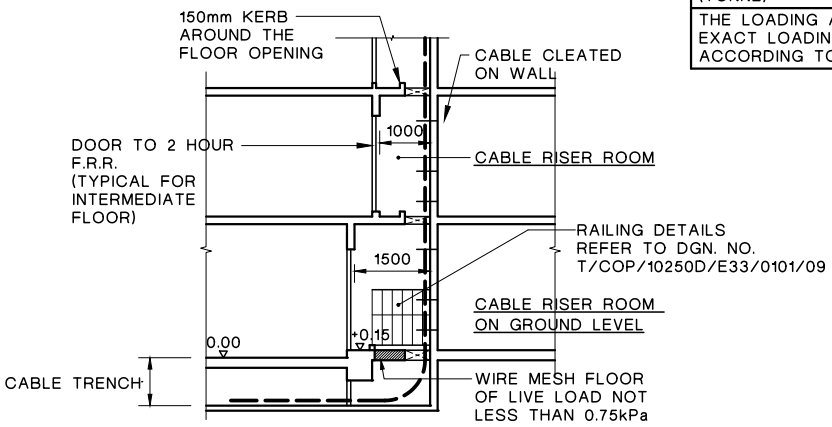
DRG. NO. TCOP10250DE3010119CA







LOADING OF HOIST BEAM IN THE H. V. CABLE RISER ROOM FOR CABLE PULLING								
TOTAL VERTICAL CABLE RISER LENGTH (m)	10	20	30	60	130	200	260	330
HOIST BEAM LOADING (TONNE)	0.5	1	2	3	4	5	6	7
THE LOADING ARE FOR REFERENCE ONLY. EXACT LOADING TO BE DETERMINED BY CLPP ACCORDING TO SITE CONDITIONS AND CABLE USED.								



		F	RAILING DETAIL UPDATED	E	REMOVABLE RAILING, WIRE MESH FLOOR ADDED AND TABLE UPDATED.
D	G.I. SLEEVE SIZE UPDATED.	C	G.I. SLEEVE SIZE UPDATED.	B	HAULAGE LUG ADDED.

CLP 中電

REVS.	03.12.04	30.10.07	09.07.12	09.06.14	17.03.17	20.03.20					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C	K.C.C	E. YU	H.T.YU	H.T.YU	H.T.YU					

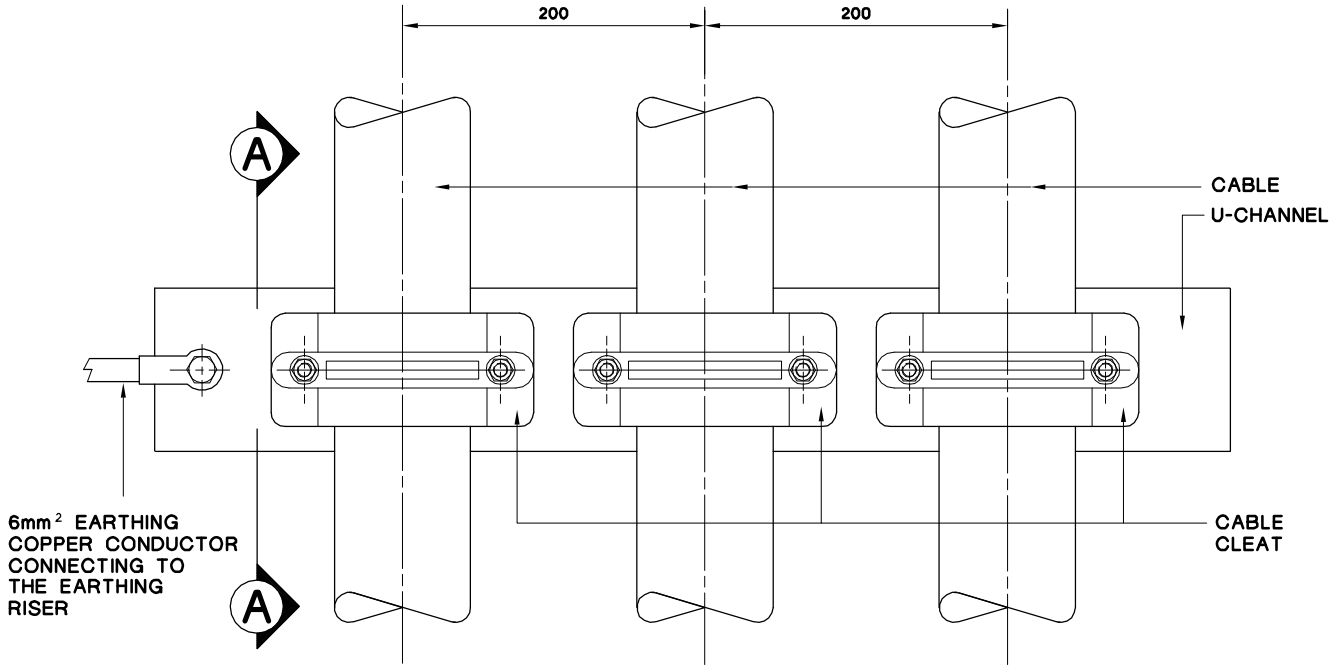
DRAWN:	T. W. LAU	DATE:	12-8-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 150 (mm)	SHEET(S) IN SET:	

TITLE :

TYPICAL SECTIONS OF CABLE RISER ROOM (SHEET 3 OF 4)

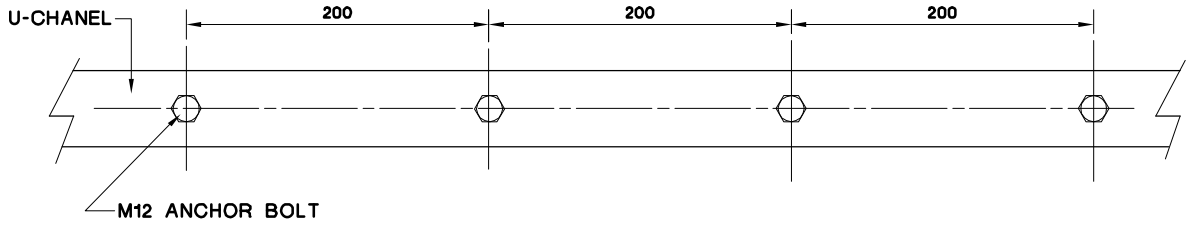
ASSET MANAGEMENT

DRG. NO. T/COP/10250D/E33/0101/20/F/A



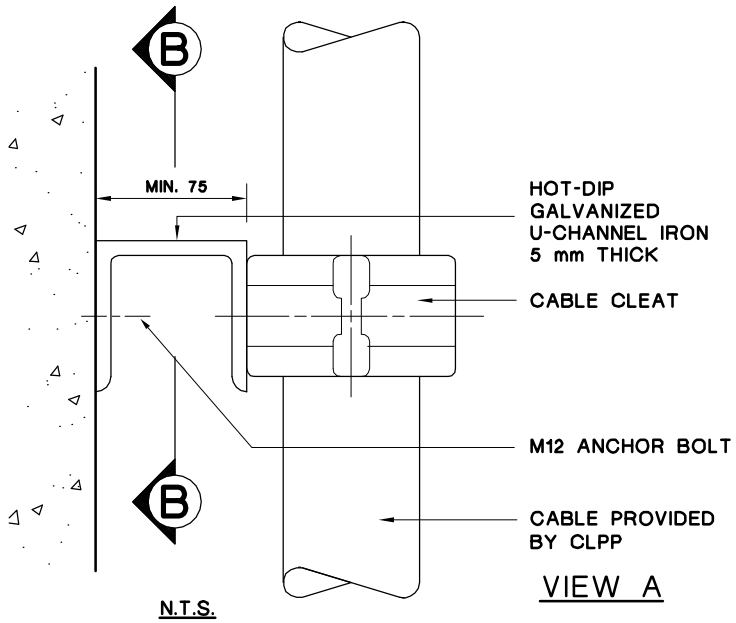
SCALE 1 : 5

ELEVATION VIEW



VIEW B

SCALE 1 : 5



N.T.S.

VIEW A

NOTES :

1. TECHNICAL INFROMATION AND SAMPLES OF CABLE CLEATS SHALL BE SUBMITTED TO CLPP FOR APPROVAL.
2. WEIGHT OF POWER CABLE SHALL BE 16kg/m.
3. MATERIAL OF CABLE CLEAT AND THE ASSOCIATED BOLTS, NUTS, WASHER AND SPRING WASHERS, ETC. TO BE ALUMINIUN ALLOY OR OTHER METALS OR ALLOY WITH CORROSION RESISTANT COATING/PLATING.
4. EACH CABLE CLEAT SHALL BE TYPE TESTED TO WITHSTAND A VERTICAL SAFE WORKING LOAD (SWL) OF NOT LESS THAN 360kg (i.e. 15 x 16 kg/m x 1.5m).
5. THE HORIZONTAL MOUNTING STEEL CHANNEL SHALL BE OF HOT DIP GALVANISED STEEL OR OTHER CORROSION RESISTANT MATERIAL AND BE DESIGNED AND CONSTRUCTED TO WITHSTAND A VERTICAL SWL OF THE TOTAL NUMBER CABLE ON IT.
6. ALL DIMENSIONS ARE IN mm

B	GENERAL LAYOUT REVISION

CLP 中電

REVS.	3.4.03	23.02.17									
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	H.T.YU									

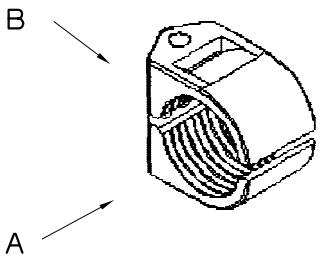
DRAWN: T. W. LAU	DATE: 1-11-2002
CHECKED: K. C. CHENG	APPROVED: K. W. WONG
SCALE: AS SHOWN	SHEET(S) IN SET:

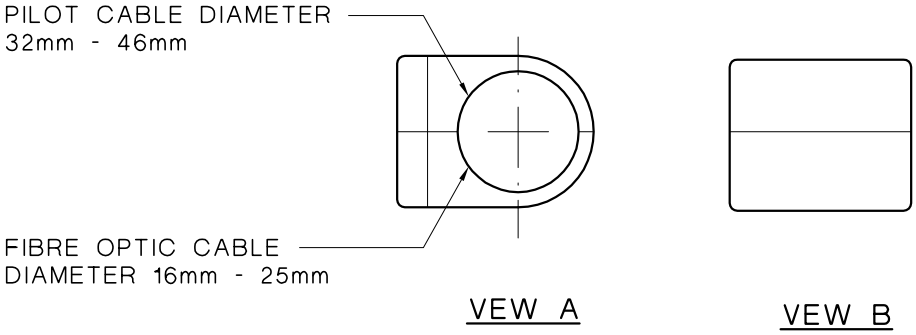
TITLE :

TYPICAL LAYOUT OF CABLE RISER ROOM
CABLE MOUNTING DETAILS (SHEET 4 OF 4)

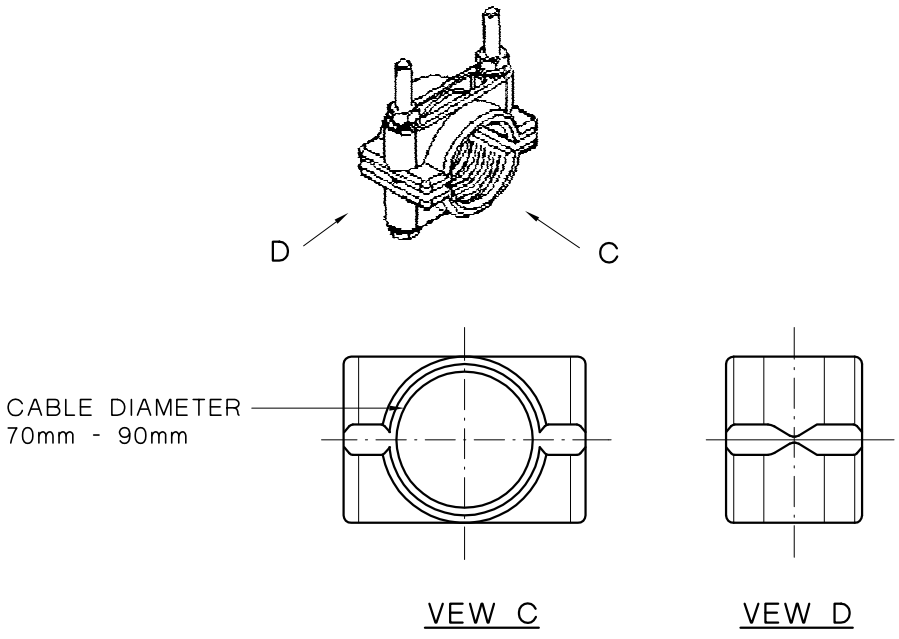
ASSET MANAGEMENT

DRG. NO. TCOP10250DE330101211BA





PILOT AND FIBRE OPTIC CABLE CLEATS



HV CABLES CLEATS

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

CLP 中電

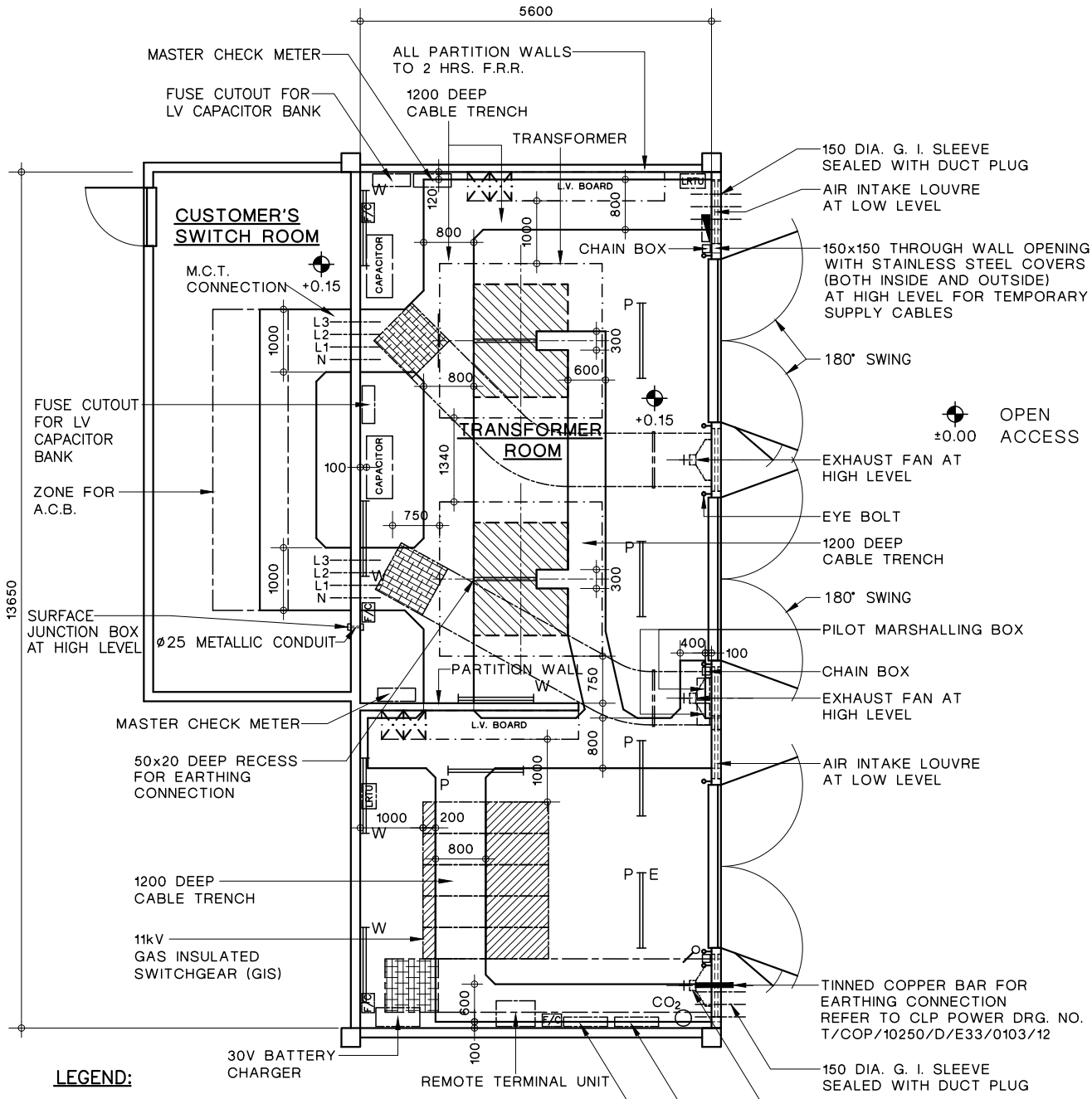
TITLE :

TYPICAL CABLE CLEATS FOR HV CABLES, PILOT CABLES AND FIBRE OPTIC CABLES

DRAWN:	T. W. LAU	DATE:	21-9-2004
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	N.T.S	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. TCOP1025ODE3301122-A



LEGEND:

- W — WALL MOUNTED LAMPS
- P — LAMPS SUSPENDED FROM CEILING
- E — LAMPS WITH EMERGENCY LIGHTING UNIT
- LIGHTING SWITCH (2–WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
- F/C — FAN CONTROL PANEL
- LRTU — LV MONITORING PANEL
- MCB BOARD

D	UPDATED THE NAME OF CAPACITOR BANK
C	EMERGENCY LIGHTING ADDED
B	MASTER CHECK METER, FIRE EXTINGUISHER ADDED. SYMBOLS, G.I. SLEEVE SIZE AND DEPTH OF CABLE TRENCH UPDATED.
A	FUSE CUTOUT ADDED, DOOR, TRANSFORMER, HV SWITCHGEAR AND G.I. SLEEVE SIZE UPDATED

CLP 中電

REVS.	24.4.12	18.03.14	23.02.17	15.06.20							
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	H.T.YU	H.T.YU	H.T.YU							

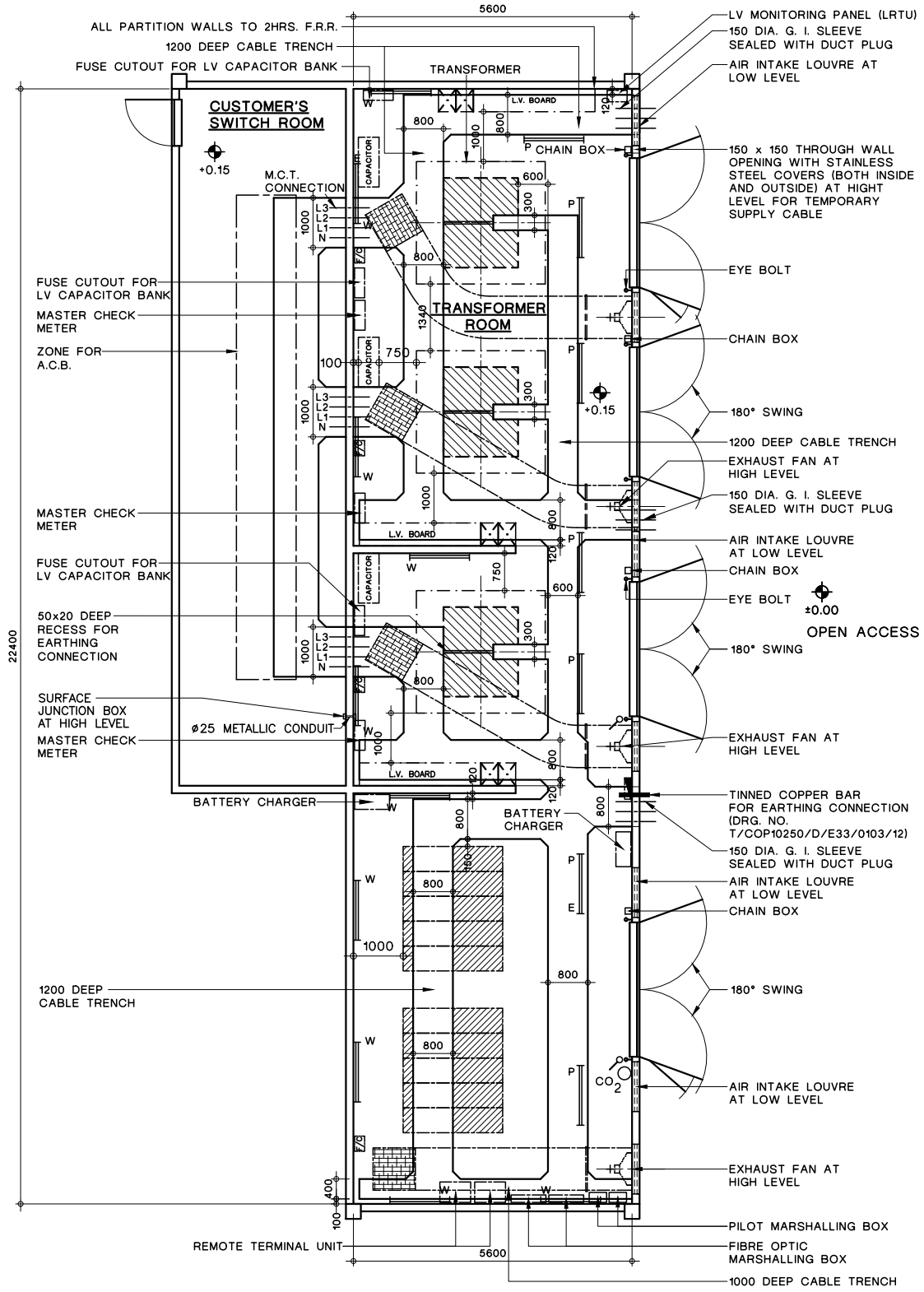
DRAWN:	C W WONG	DATE:	17 SEP., 2009
CHECKED:	K C CHENG	APPROVED:	W C HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

TITLE :

TYPICAL GROUND FLOOR SUBSTATION LAYOUT FOR TWO TRANSFORMERS AND 11kV SWITCHGEAR (WITH TWO LV BOARDS)

ASSET MANAGEMENT

DRG. NO. T/COP/10250/D/E33/0101/23/D/A



LEGEND:

W — WALL MOUNTED LAMPS	F/C — FAN CONTROL PANEL
P — LAMPS SUSPENDED FROM CEILING	LRTU — LV MONITORING PANEL
E — LAMPS WITH EMERGENCY LIGHTING UNIT	MCB BOARD
LIGHTING SWITCH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)	

C	GENERAL LAYOUT REVISION
B	MASTER CHECK METER, FIRE EXTINGUISHER ADDED. SYMBOLS, G.I. SLEEVE SIZE AND DEPTH OF CABLE TRENCH UPDATED.
D	UPDATED THE NAME OF CAPACITOR BANK

REVS.	24.4.12	18.03.14	23.02.17	15.06.20							
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	H.T.YU	H.T.YU	H.T.YU							

CLP 中電

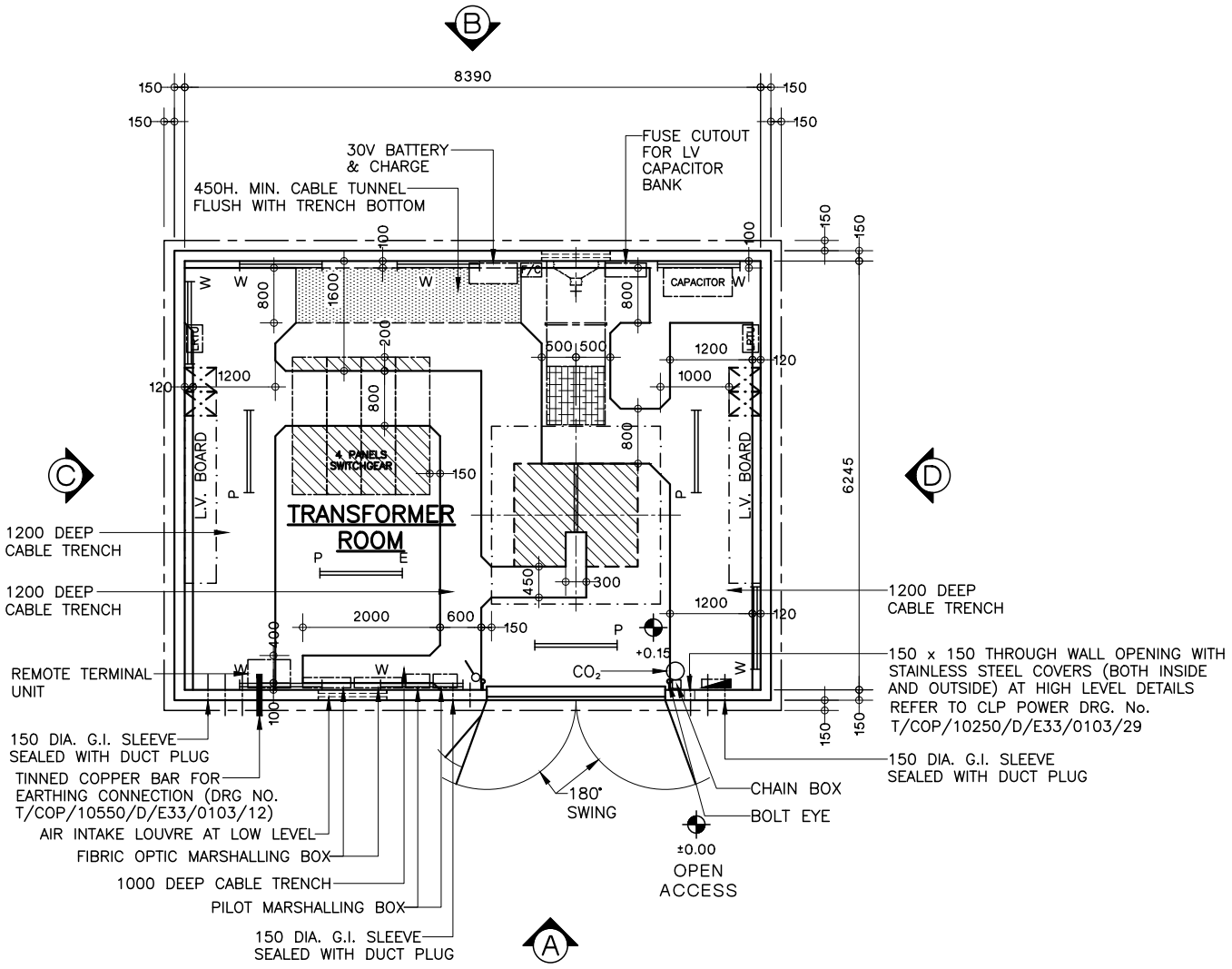
DRAWN: C W WONG	DATE: 17 SEP., 2009
CHECKED: K C CHENG	APPROVED: W C HO
SCALE: 1 : 125 (mm)	SHEET(S) IN SET:

TITLE :

TYPICAL GROUND FLOOR SUBSTATION LAYOUT FOR THREE TRANSFORMERS AND 11kV SWITCHGEAR (WITH THREE LV BOARDS)

ASSET MANAGEMENT

DRG. NO. T/COP/10250/D/E33/0101/24/D/A



LEGEND:

W	WALL MOUNTED LAMPS
P	LAMPS SUSPENDED FROM CEILING
E	LAMPS WITH EMERGENCY LIGHTING UNIT
	LIGHTING SWITCH
F/C	FAN CONTROL PANEL
LRTU	LV MONITORING PANEL
	MCB BOARD

C	UPDATED THE NAME OF CAPACITOR BANK	B	GENERAL LAYOUT REVISED	A	SYMBOLS, G.I. SLEEVE SIZE AND DEPTH OF CABLE TRENCH UPDATED.

REVS.	18.03.14	20.03.17	15.06.20	D	E	F	G	H	J	K	L
	A	B	C								
INITIAL	H.T.YU	H.T.YU	H.T.YU								

CLP 中電

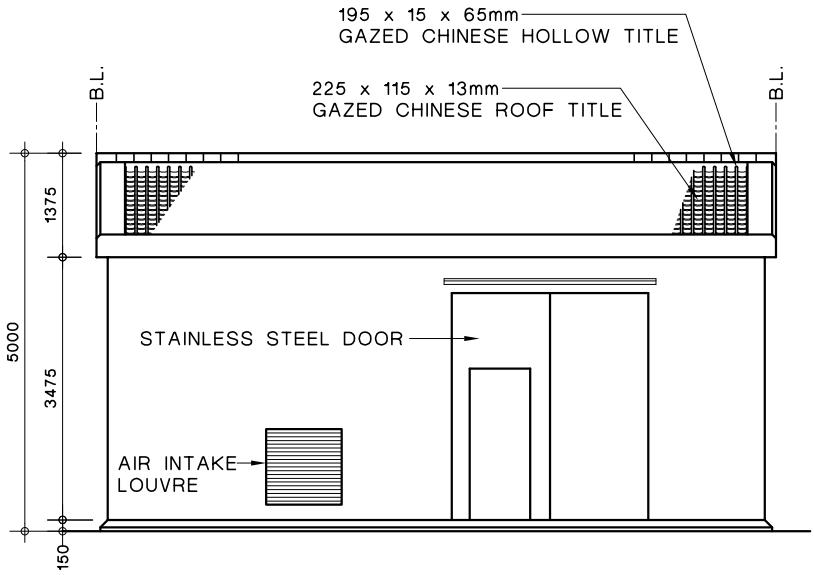
TITLE :

TYPICAL DRAWING FOR STANDALONE SUBSTATION (SHEET 1 OF 3)

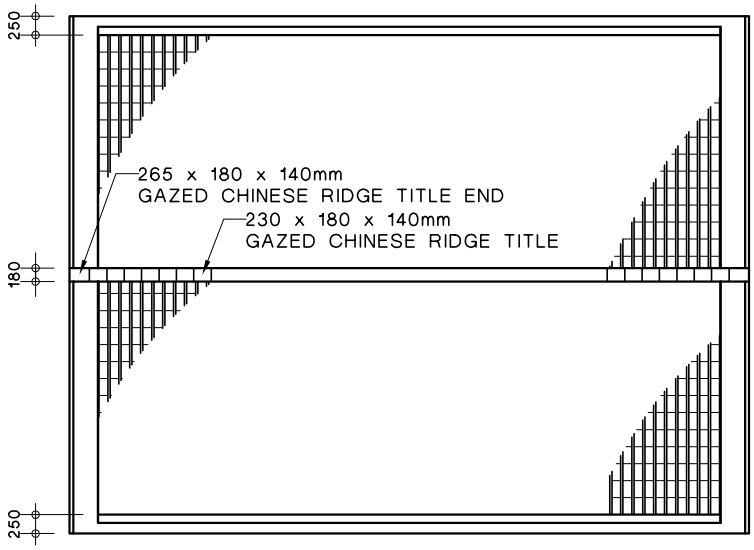
DRAWN:	C W WONG	DATE:	16 APR., 2012
CHECKED:	EDMOND YU	APPROVED:	W. C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. T/COP/10250/DE33/0101/25/C/A



VIEW A



ROOF FLOOR PLAN

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

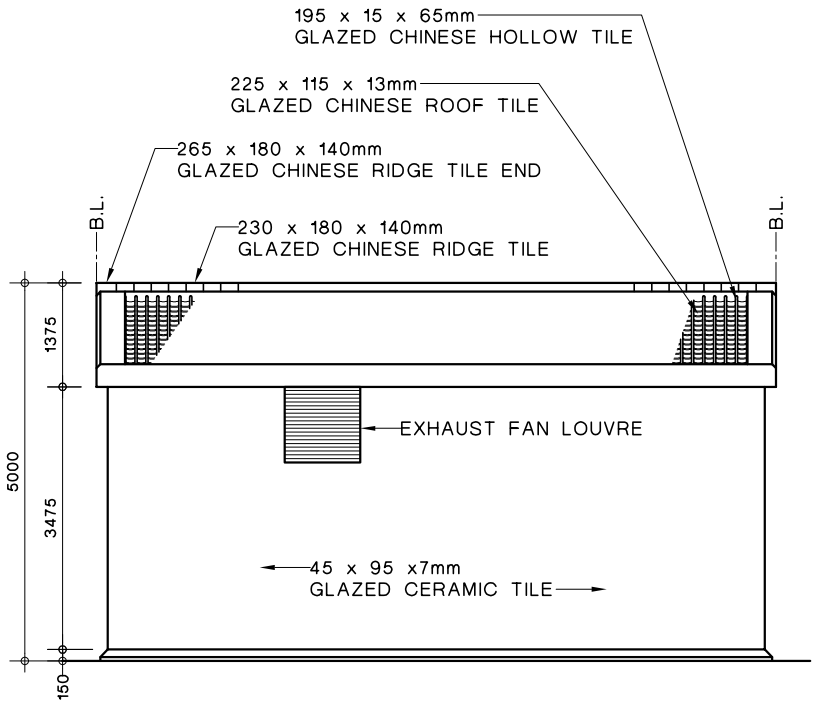
TITLE :

TYPICAL DRAWING FOR STANDALONE SUBSTATION (SHEET 2 OF 3)

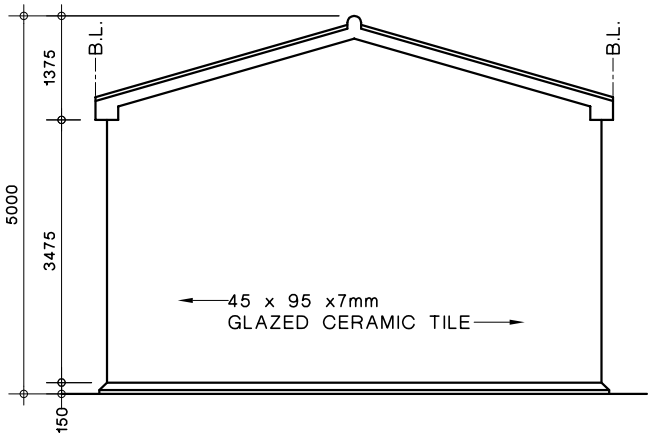
DRAWN:	C W WONG	DATE:	16 APR., 2012
CHECKED:	EDMOND YU	APPROVED:	W. C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3301012 6 - A



VIEW B



VIEW C & D

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

CLP 中電

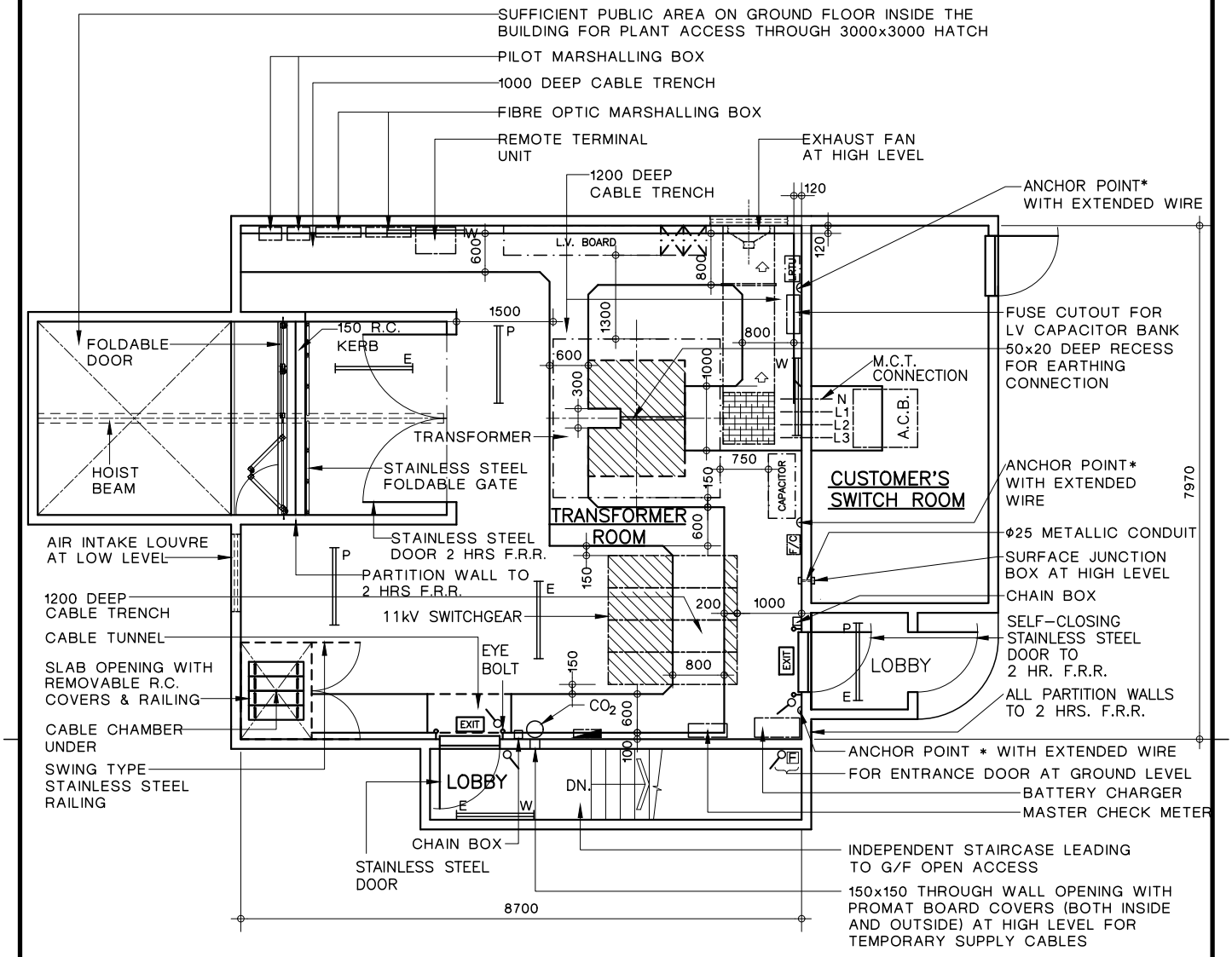
TITLE :

TYPICAL DRAWING FOR STANDALONE SUBSTATION (SHEET 3 OF 3)

DRAWN:	C W WONG	DATE:	16 APR., 2012
CHECKED:	EDMOND YU	APPROVED:	W. C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. TCOP10250DE330101270-A



LEGEND:

- W — WALL MOUNTED LAMPS
- P — LAMPS SUSPENDED FROM CEILING
- E — LAMPS WITH EMERGENCY LIGHTING UNIT
- LIGHTING SWITCH (2-WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
- F/C — FAN CONTROL PANEL
- LRTU — LV MONITORING PANEL
- MCB BOARD
- F — FAN AUTO/MANUAL OPERATION SWITCH
- FIXED RAILING
- REMOVABLLE RAILING

NOTES:

*1. DESIGN OF FALL RESTRAINT SYSTEM SHALL FOLLOW THE TYPICAL DRAWING T/COP/10250/D/E33/0103/38.
2. IF THE PROVISION OF FALL RESTRAINT SYSTEM IS NOT REASONABLY PRACTICABLE, FALL ARREST SYSTEM SHALL BE PROVIDED AS THE LAST RESORT.
3. DESIGN OF LAMINATED DOOR, STAINLESS STEEL FOLDABLE DOOR AND FOLDABLE GATE REFER TO DWG NO. T/COP/10250/D/E33/0103/45.
4. ALTERNATIVE ACCESS BY LIFT IN THE PUBLIC AREA INSIDE BUILDING SHALL BE PROVIDED.

CLP 中電

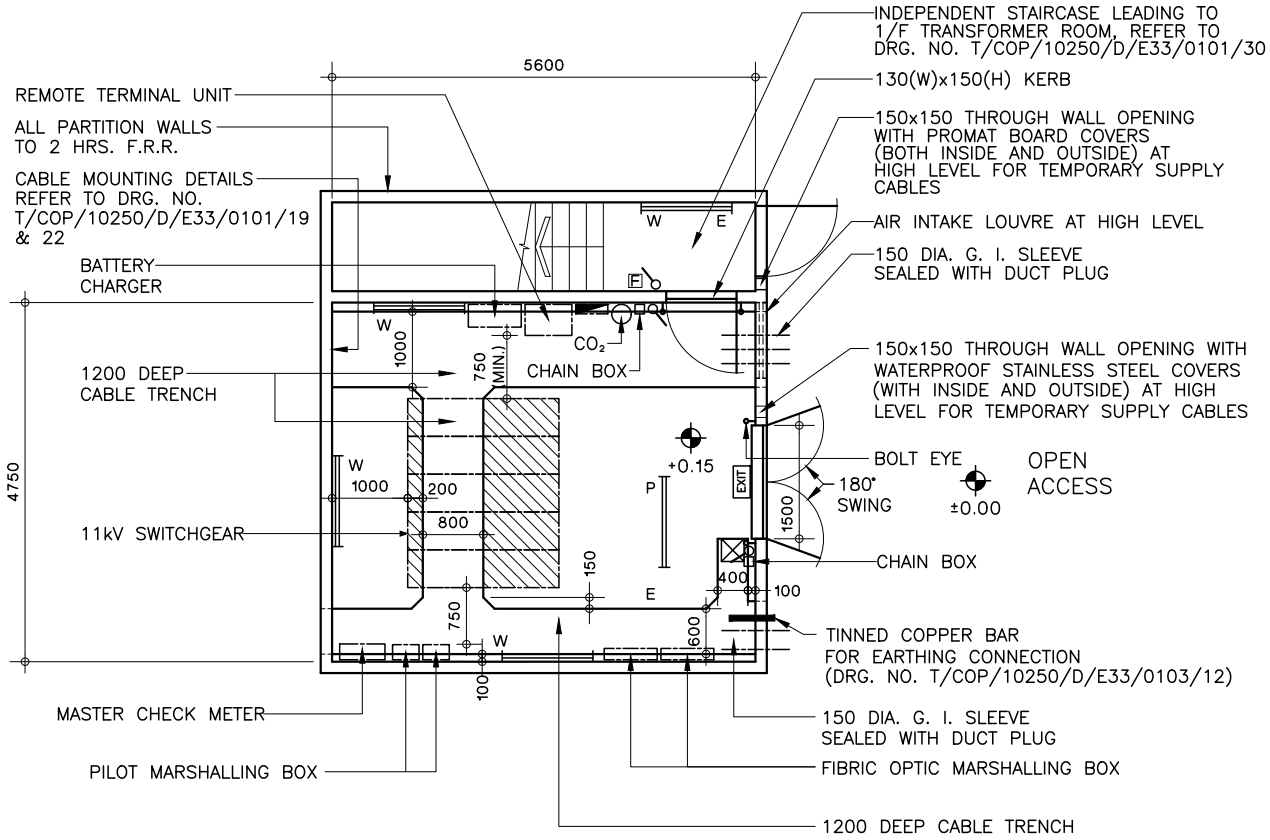
REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

TITLE : TYPICAL UPPER FLOOR SUBSTATION LAYOUT FOR HOUSING ONE TRANSFORMER WITHOUT VEHICULAR ACCESS (INDEPENDENT STAIRCASE & PROTECTED LOBBY)

DRAWN:	C. W. WONG	DATE:	20 MAR., 2020
CHECKED:	EDMOND YU	APPROVED:	Y. S. YEUNG
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. T/COP/10250/DE33/0101/28 - A



LEGEND:

W	WALL MOUNTED LAMPS
P	LAMPS SUSPENDED FROM CEILING
E	LAMPS WITH EMERGENCY LIGHTING UNIT
	LIGHTING SWITCH
F	FAN AUTO/MANUAL OPERATION SWITCH
LRTU	LV MONITORING PANEL
	MCB BOARD
	300x300x200(D) RECESS AT TRENCH BOTTOM FOR SUMP PIT

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

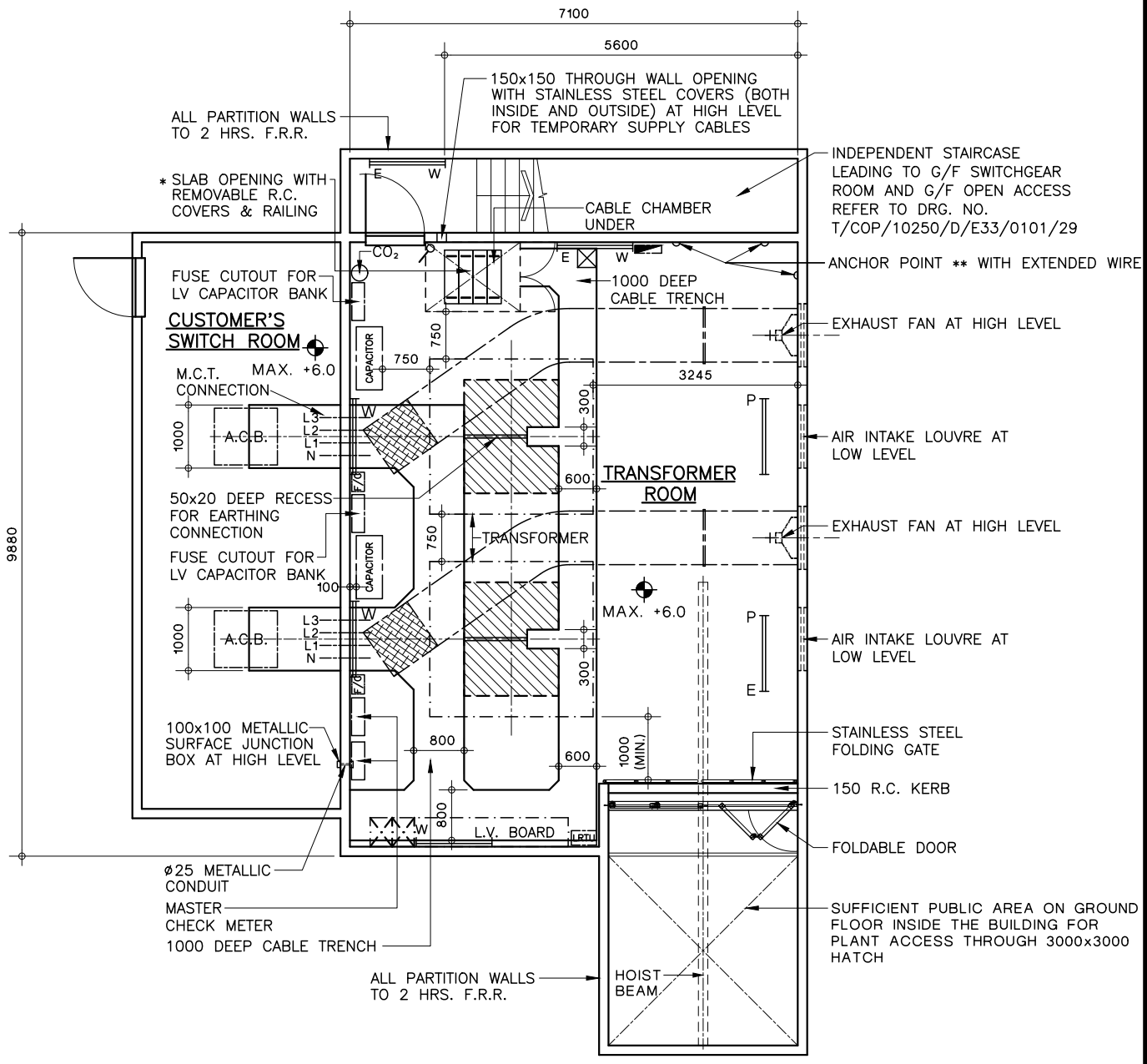
TITLE :

TYPICAL LAYOUT FOR GROUND FLOOR 11kV SWITCHGEAR ROOM

DRAWN:	C. W. WONG	DATE:	28 APR., 2020
CHECKED:	EDMOND YU	APPROVED:	Y. S. YEUNG
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	1

ASSET MANAGEMENT

DRG. NO. TCOP10250DE33010129-A



LEGEND:

- W — WALL MOUNTED LAMPS
- P — LAMPS SUSPENDED FROM CEILING
- E — LAMPS WITH EMERGENCY LIGHTING UNIT
- LIGHTING SWITCH (2–WAY/INTERMEDIATE SWITCHING CONTROL FOR MULTIPLE ENTRANCE DOORS)
- F/C — FAN CONTROL PANEL
- LRTU — LV MONITORING PANEL
- MCB BOARD
- 300x300x200(D) RECESS AT TRENCH BOTTOM FOR SUMP PIT

NOTES:

* 1. HAULAGE LUG WITH SAFETY LOAD 2 TONS SHALL BE PROVIDED ON TOP OF CABLE CHAMBER FOR CABLE LIFTING WORK. THE LUG SHOULD BE POSITIONED AT 2800mm FROM THE FLOOR LEVEL.

** 2. DESIGN OF FALL RESTRAINT SYSTEM SHALL FOLLOW THE TYPICAL DRAWING T/COP/10250/D/E33/0103/38.

3. IF THE PROVISION OF FALL RESTRAINT SYSTEM IS NOT REASONABLY PRACTICABLE, FALL ARREST SYSTEM SHALL BE PROVIDED AS THE LAST RESORT.

4. DESIGN OF STAINLESS STEEL FOLDABLE DOOR AND FOLDABLE GATE REFER TO DWG NO. T/COP/10250/D/E33/0103/43.

5. IF HIGHER THAN 2 HOURS F.R.R. PARTITION WALL IS REQUIRED, PROTECTED LOBBY FOR PLANT ACCESS WILL BE REQUIRED.

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

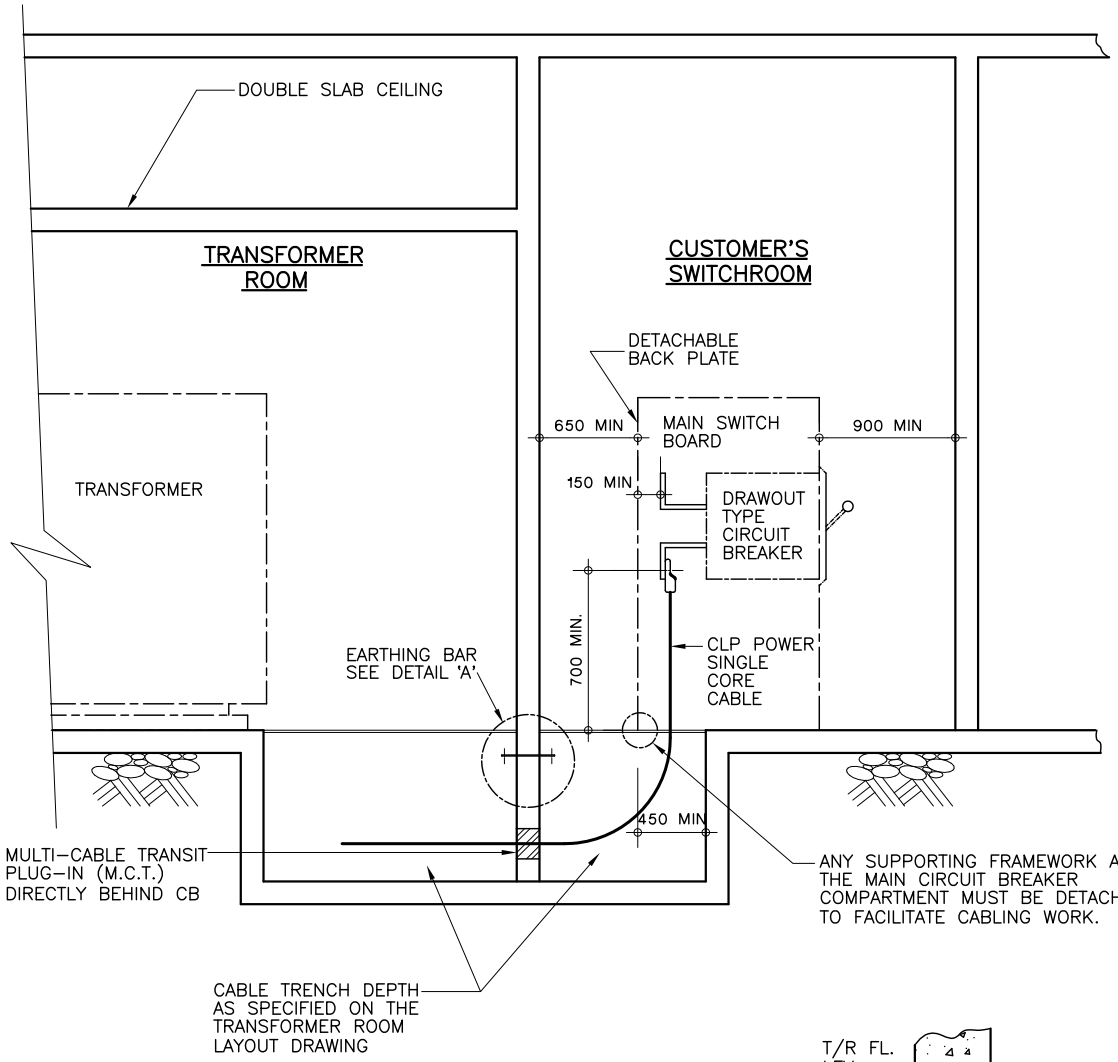
TITLE :

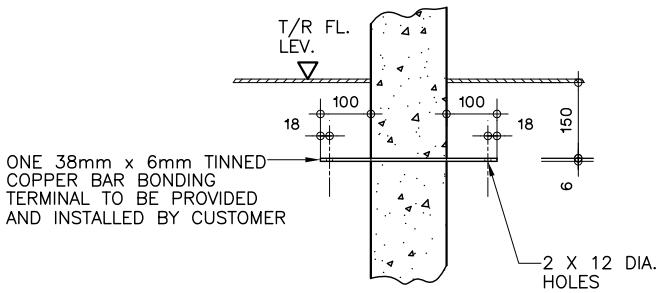
TYPICAL LAYOUT FOR FIRST FLOOR TRANSFORMER ROOM WITH TWO TRANSFORMERS

DRAWN:	C. W. WONG	DATE:	28 APR., 2020
CHECKED:	EDMOND YU	APPROVED:	Y. S. YEUNG
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. T/COP/10250/D/E33/0101/30-A





DETAIL 'A'
SCALE 1 : 15

NOTES:

1. EXACT POSITION OF ALL MAIN INCOMING CIRCUIT BREAKERS AND DETAILED CABLE TRENCH LAYOUT WITHIN CUSTOMER'S SWITCHROOM MUST BE SUBMITTED TO CLP POWER FOR APPROVAL PRIOR TO INSTALLATION.
2. REFER TO DRAWING NO. T/COP/10250/D/E33/0103/13 FOR THE CLEARANCE BEHIND THE MAIN SWITCH BOARD.
3. WATERROOFING SHALL BE APPLIED TO THE SLAB BETWEEN THE CEILING OF THE SUBSTATION AND THE VOID.
4. DRAIN SHALL BE PROVIDED IN THE VOID TO DRAIN AWAY WATER LEAKED INTO THE VOID.
5. NO DRAIN OR OTHER WATER SERVICES PIPE SHALL RUN INTO OR CONCEAL IN THE CEILING SLAB OF THE SUBSTATION.

D	GENERAL AMENDMENT
C	DOUBLE SLAB HEIGHT CHANGED
B	DOUBLE SLAB CEILING ADDED
A	NOTE 2 ADDED

REVS.	21.11.07	08.01.10	26.03.12	23.05.17							
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	H.T.YU							

CLP 中電

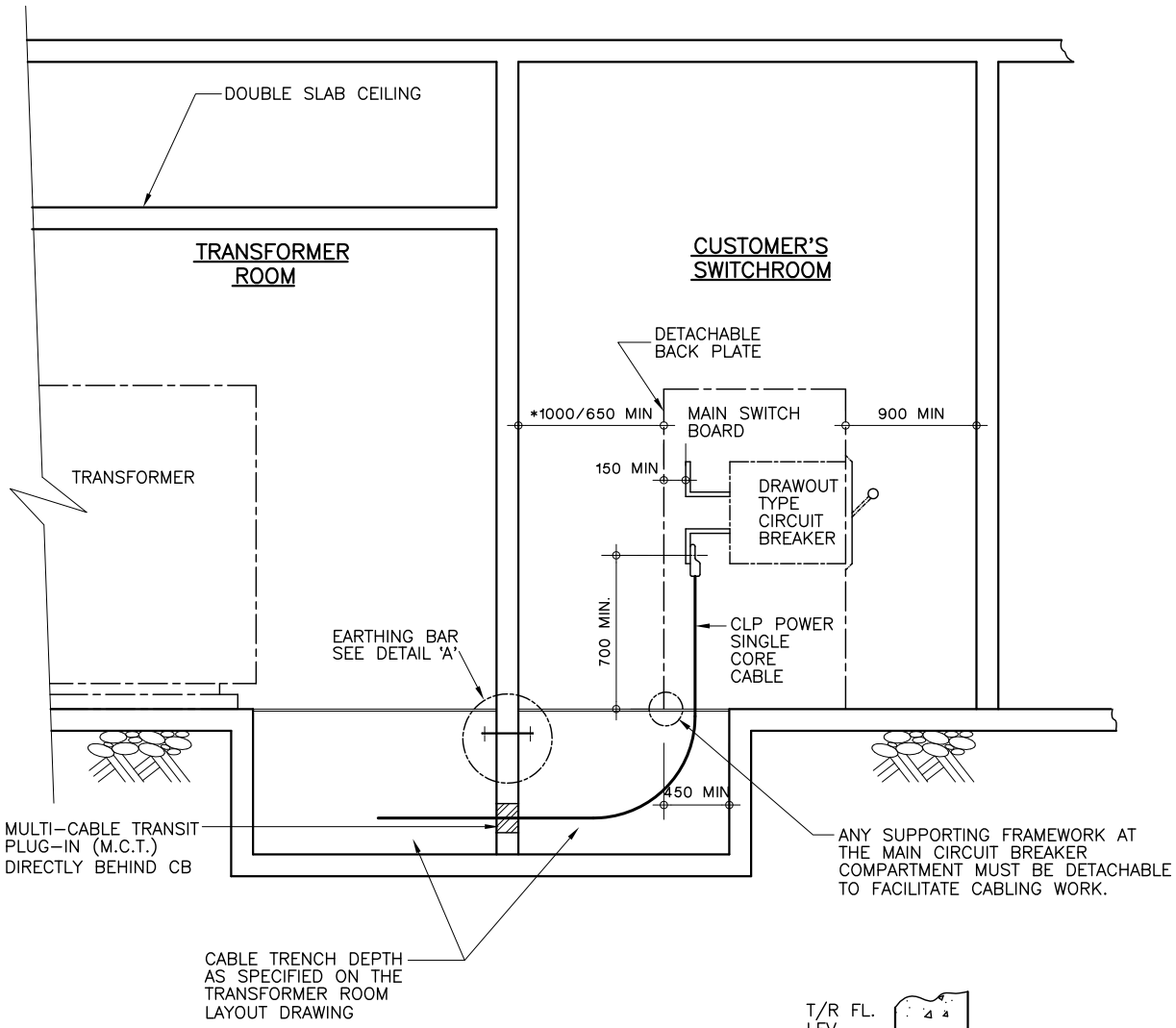
DRAWN: S. C. TO	DATE: 12-8-2002
CHECKED: K. C. CHENG	APPROVED: K. W. WONG
SCALE: 1 : 50 (mm)	SHEET(S) IN SET:

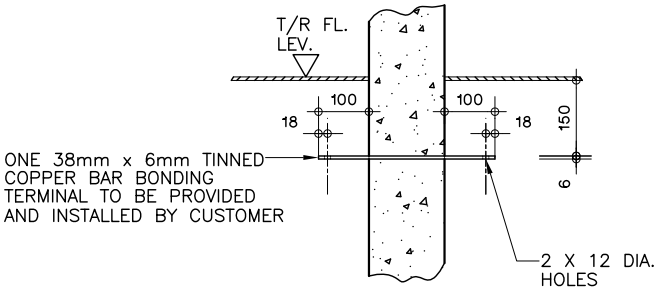
TITLE :

MINIMUM REQUIREMENTS FOR CUSTOMER MAIN SWITCHROOM ADJACENT TO SUBSTATION FOR SINGLE TRANSFORMER INSTALLATION

ASSET MANAGEMENT

DRG. NO. T/COP/10250/D/E33/0102/01/D/A





DETAIL 'A'
SCALE 1 : 15

NOTES:

1. EXACT POSITION OF ALL MAIN INCOMING CIRCUIT BREAKERS AND DETAILED CABLE TRENCH LAYOUT WITHIN CUSTOMER'S SWITCHROOM MUST BE SUBMITTED TO CLP POWER FOR APPROVAL PRIOR TO INSTALLATION.
2. REFER TO DRAWING NO. T-COP-10250-D-E33-0103-13 FOR THE CLEARANCE BEHIND THE MAIN SWITCH BOARD.
3. WATERROOFING SHALL BE APPLIED TO THE SLAB BETWEEN THE CEILING OF THE SUBSTATION AND THE VOID.
4. DRAIN SHALL BE PROVIDED IN THE VOID TO DRAIN AWAY WATER LEAKED INTO THE VOID.
5. NO DRAIN OR OTHER WATER SERVICES PIPE SHALL RUN INTO OR CONCEAL IN THE CEILING SLAB OF THE SUBSTATION.

* IF THE POSITION OF THE DRAWOUT TYPE CIRCUIT BREAKER IS NOT IN LINE WITH THE RESPECTIVE TRANSFORMER, THE MINIMUM DISTANCE SHALL BE KEPT AT 1000mm.

E	GENERAL AMENDMENT
D	NOTE ADDED
C	DOUBLE SLAB HEIGHT CHANGED
B	DOUBLE SLAB CEILING ADDED
A	NOTE 2 ADDED

REVS.	21.11.07	08.01.10	26.03.12	04.06.14	23.05.17						
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU						

CLP 中電

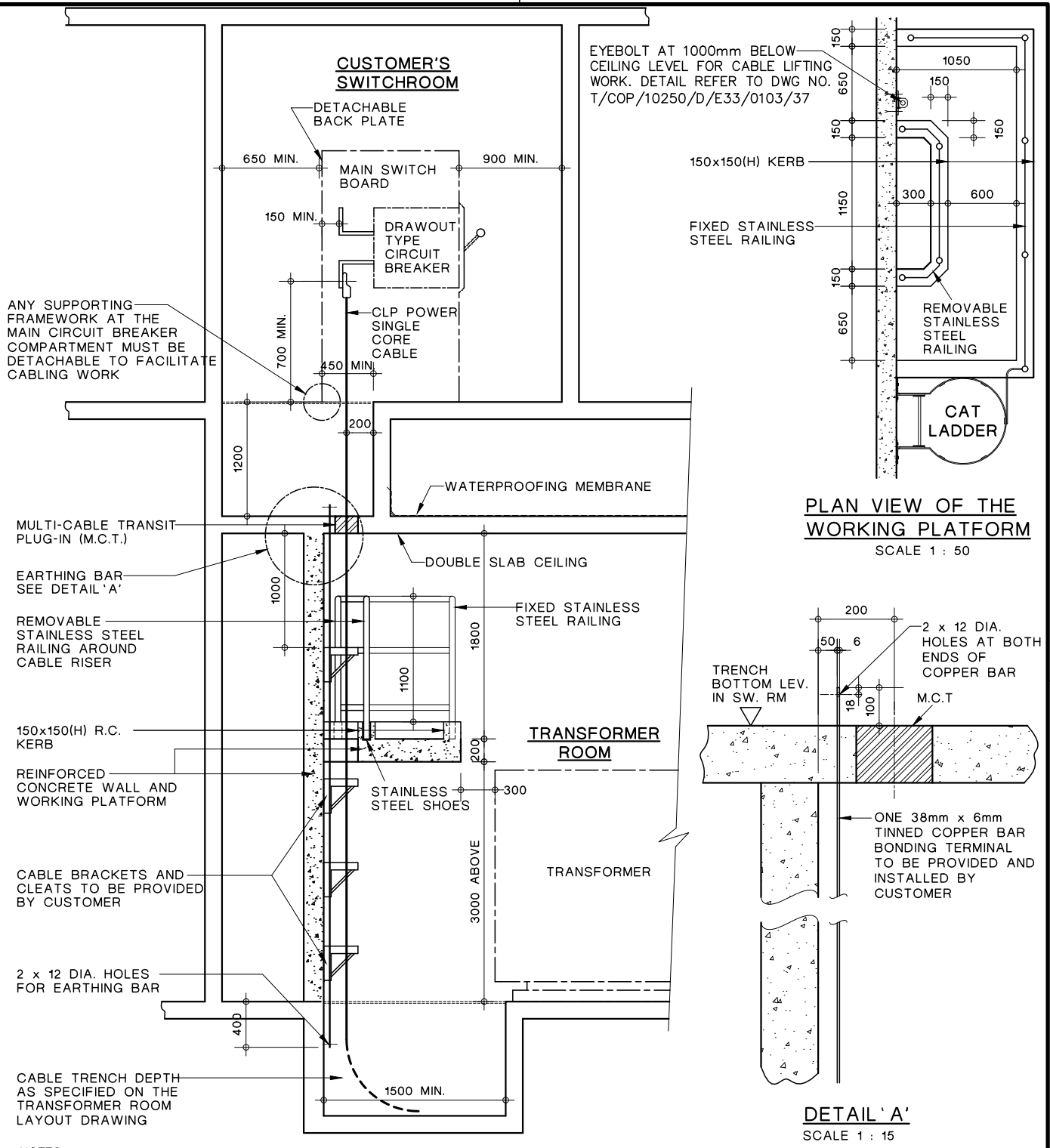
DRAWN: T. Y. IP	DATE: 19-07-2002
CHECKED: K. C. CHENG	APPROVED: K. W. WONG
SCALE: 1 : 50 (mm)	SHEET(S) IN SET:

TITLE :

MINIMUM REQUIREMENTS FOR CUSTOMER MAIN SWITCHROOM ADJACENT TO SUBSTATION FOR MULTI-TRANSFORMER INSTALLATION

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 2 0 2 E A



PLAN VIEW OF THE WORKING PLATFORM

SCALE 1 : 50

DETAIL 'A'

SCALE 1 : 15

NOTES:

1. EXACT POSITION OF ALL MAIN INCOMING CIRCUIT BREAKERS AND DETAILED CABLE TRENCH LAYOUT WITHIN CUSTOMER'S SWITCHROOM MUST BE SUBMITTED TO CLP POWER FOR APPROVAL PRIOR TO INSTALLATION.
2. REFER TO DRAWING NO. T/COP/10250/D/E33/0103/13 FOR THE CLEARANCE BEHIND THE MAIN SWITCH BOARD.
3. WATERPOOFING MEMBRANE SHALL BE APPLIED ON THE TOP OF DOUBLE SLAB.
4. DRAIN SHALL BE PROVIDED IN THE VOID TO DRAIN AWAY WATER LEAKED INTO THE VOID.
5. NO DRAIN OR OTHER WATER SERVICES PIPE SHALL RUN INTO OR CONCEAL IN THE CEILING SLAB OF THE SUBSTATION.
6. REINFORCED CONCRETE WORKING PLATFORM SHALL BE PROVIDED IF THE HEADROOM OF TRANSFORMER ROOM IS GREATER THAN 5 METERS.

F	R.C. WORKING PLATFORM ADDED
E	CONCRETE WALL OR STEEL SUPPORTING STRUCTURE ADDED TO OPTIMISE CABLE ROUTING
D	CABLE TRENCH AND FACILITY FOR CUSTOMER MAIN SWITCHROOM UPDATED
C	DIMENSION OF CABLE TRENCH ADDED AND DOUBLE SLAB HEIGHT CHANGED
B	DOUBLE SLAB CEILING ADDED

CLP 中電

REVS.	21.11.07	08.01.10	23.03.12	23.02.17	20.06.19	23.03.20					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU					

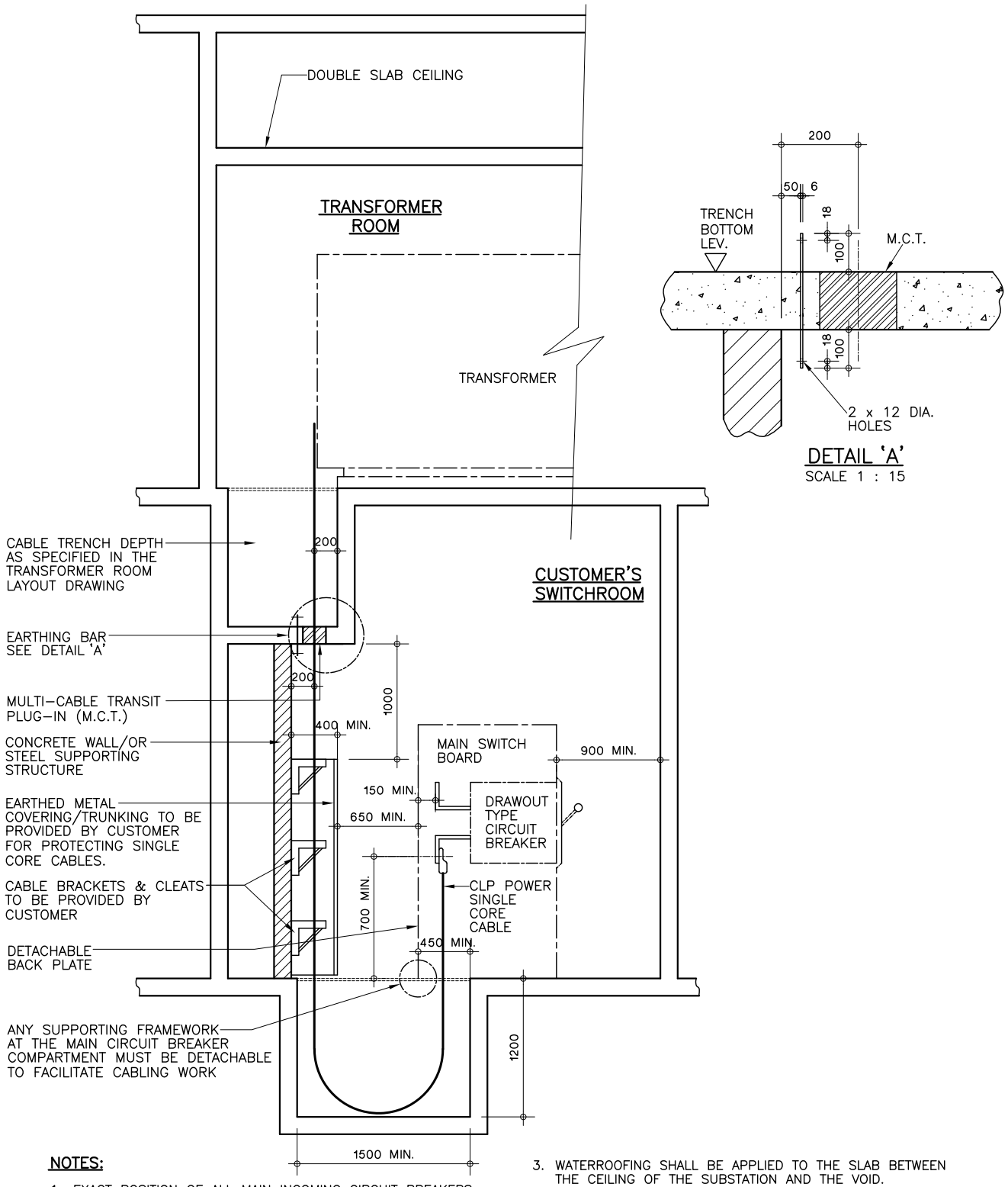
DRAWN:	S. C. TO	DATE:	12-8-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	N. T. S. :	SHEET(S) IN SET:	

TITLE :

MINIMUM REQUIREMENTS FOR CUSTOMER MAIN SWITCHROOM ABOVE TRANSFORMER ROOM

ASSET MANAGEMENT

DRG. NO. T / C O P / 1 0 2 5 0 / D / E 3 3 / 0 1 0 2 / 0 3 / F / A



NOTES:

1. EXACT POSITION OF ALL MAIN INCOMING CIRCUIT BREAKERS AND DETAILED CABLE TRENCH LAYOUT WITHIN CUSTOMER'S SWITCHROOM MUST BE SUBMITTED TO CLP POWER FOR APPROVAL PRIOR TO INSTALLATION.
2. REFER TO DRAWING NO. T-COP-10250-D-E33-0103-13 FOR THE CLEARANCE BEHIND THE MAIN SWITCH BOARD.
3. WATERROOFING SHALL BE APPLIED TO THE SLAB BETWEEN THE CEILING OF THE SUBSTATION AND THE VOID.
4. DRAIN SHALL BE PROVIDED IN THE VOID TO DRAIN AWAY WATER LEAKED INTO THE VOID.
5. NO DRAIN OR OTHER WATER SERVICES PIPE SHALL RUN INTO OR CONCEAL IN THE CEILING SLAB OF THE SUBSTATION.

C	DIMENSION OF CABLE TRENCH ADDED AND DOUBLE SLAB HEIGHT CHANGED	D	CABLE TRENCH AND FACILITY FOR CUSTOMER MAIN SWITCHROOM UPDATED.	E	CONCRETE WALL OR STEEL SUPPORTING STRUCTURE ADDED TO OPTIMISE CABLE ROUTING

REVS.	21.11.07	08.01.10	23.03.12	17.03.17	20.09.19						
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU						

CLP 中電

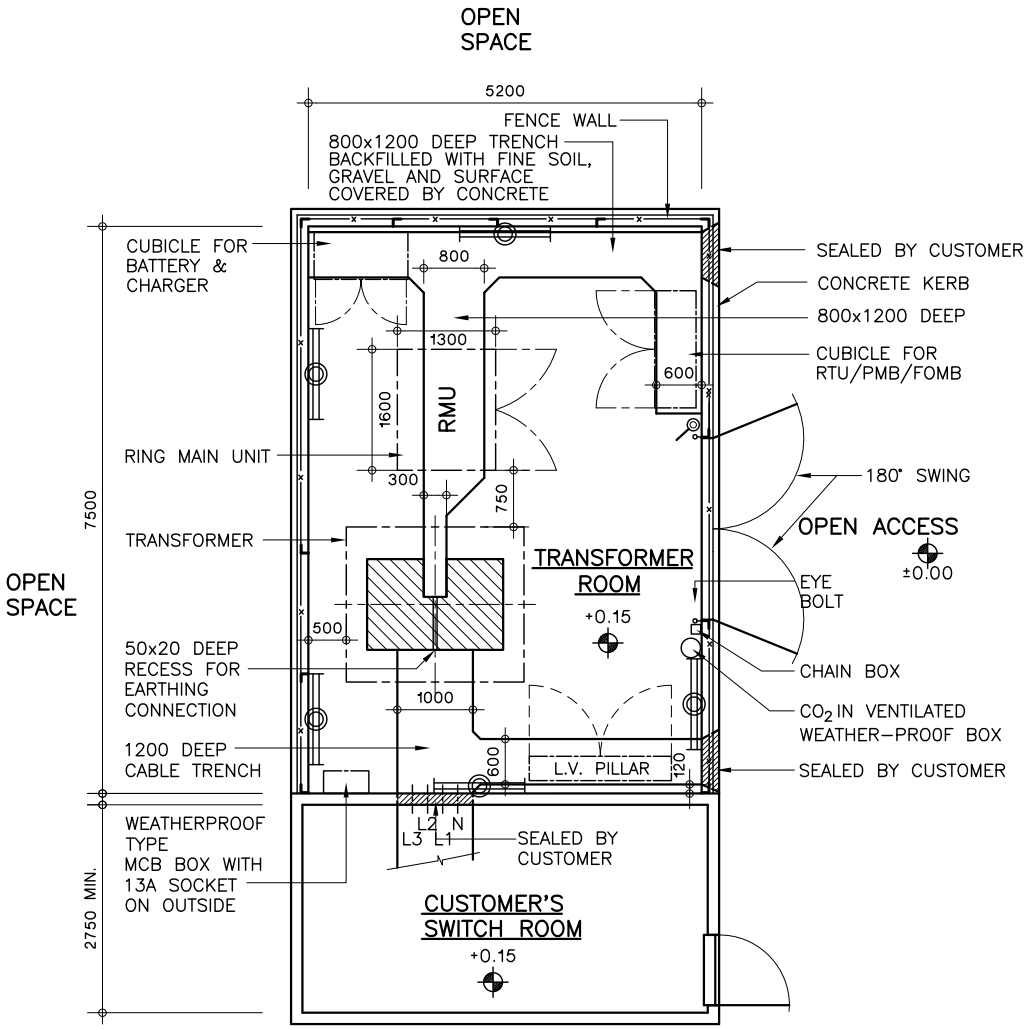
DRAWN:	T. Y. IP	DATE:	19-07-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	1 : 50 (mm)	SHEET(S) IN SET:	

TITLE :

MINIMUM REQUIREMENTS FOR CUSTOMER MAIN SWITCHROOM BELOW TRANSFORMER ROOM

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 2 0 4 E A



LEGEND:

WEATHERPROOF FLUORESCENT LAMPS

WEATHERPROOF LIGHTING SWITCH

E	SIZE OF RMU UPDATED.
D	DEPTH OF CABLE TRENCH AND DOOR SIZE UPDATED.
C	CHAIN BOX ADDED
B	PHASE IDENTIFICATION UPDATED

REVS.	3.4.03	16.08.07	16.12.09	18.03.14	28.06.17						
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU						

CLP 中電

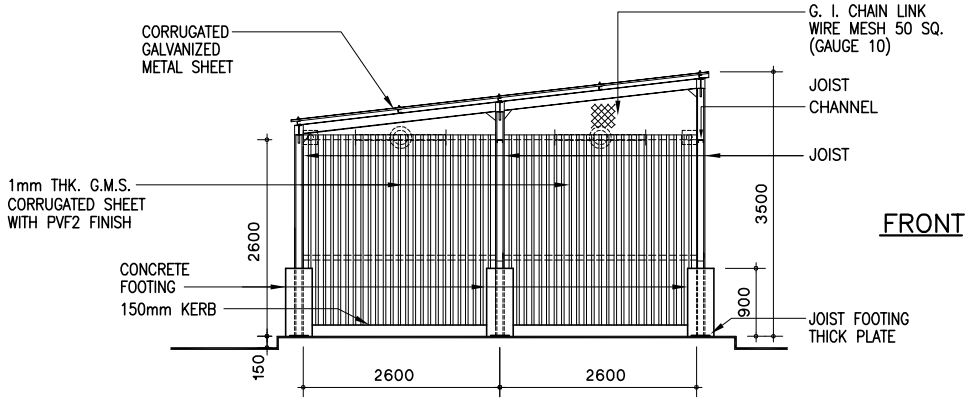
DRAWN:	S. C. TO	DATE:	18-07-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

TITLE :

TYPICAL TEMPORARY OUTDOOR SUBSTATION LAYOUT FOR ONE TRANSFORMER AND 11kV RING MAIN UNIT

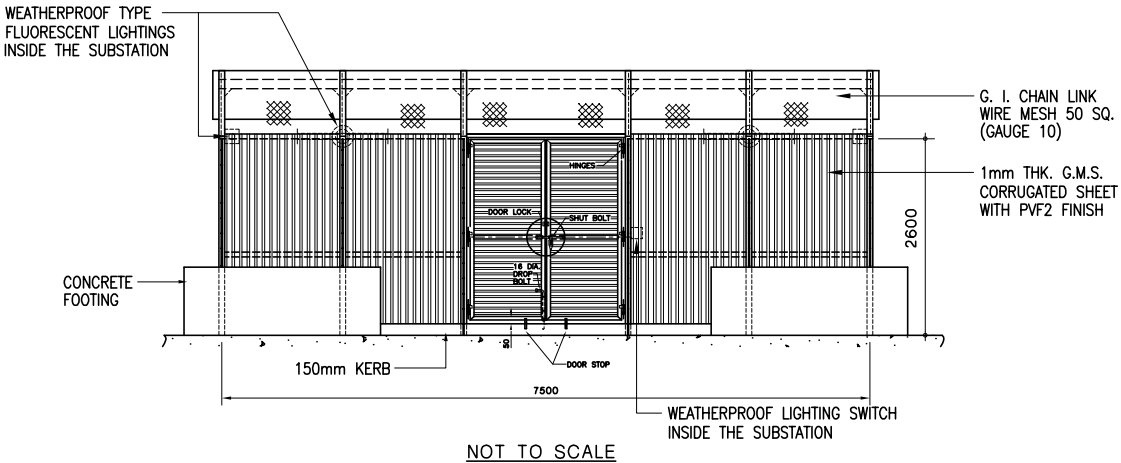
ASSET MANAGEMENT

DRG. NO. TCOP1025ODE3010101EA



FRONT

SIDE VIEW



NOT TO SCALE

FRONT VIEW

NOTES:

1. DETAIL STRUCTURE SHALL BE DESIGNED BY COMPETENT PROFESSIONAL HIRED BY THE CUSTOMER/DEVELOPER.
2. DETAILS OF METAL GATE, DRAIN PIPE, EARTHING BAR ARRANGEMENT REFER TO DRG. NO. T-COP-10250-D-E33-0104-01
3. SUPPORTING METAL STRUCTURE SHALL BE APPLIED WITH ANTI-RUST PAINTING.
4. FLOORESCENT LIGHTINGS (WEATHERPROOF TYPE) SHALL BE INSTALLED INSIDE THE SUBSTATION.

C	DIMENSION UPDATED.	B	CHANGE FENCE WALL MATERIAL	A	CHANGE FENCE WALL

CLP 中電

REVS.	21.12.05	16.08.07	18.03.14								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	H.T.YU								

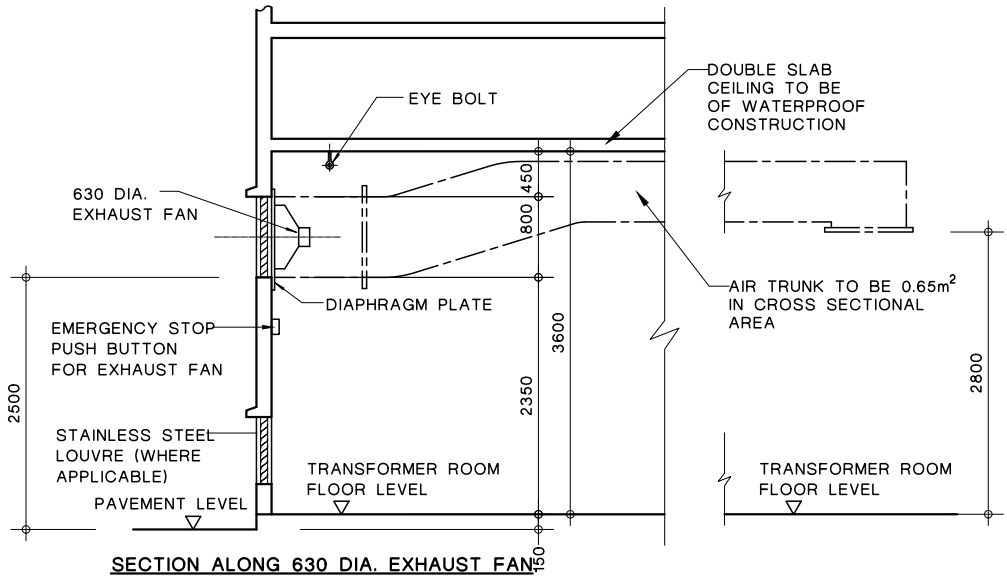
DRAWN:	T. Y. IP	DATE:	21 Dec., 2005
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 100 (mm)	SHEET(S) IN SET:	

TITLE :

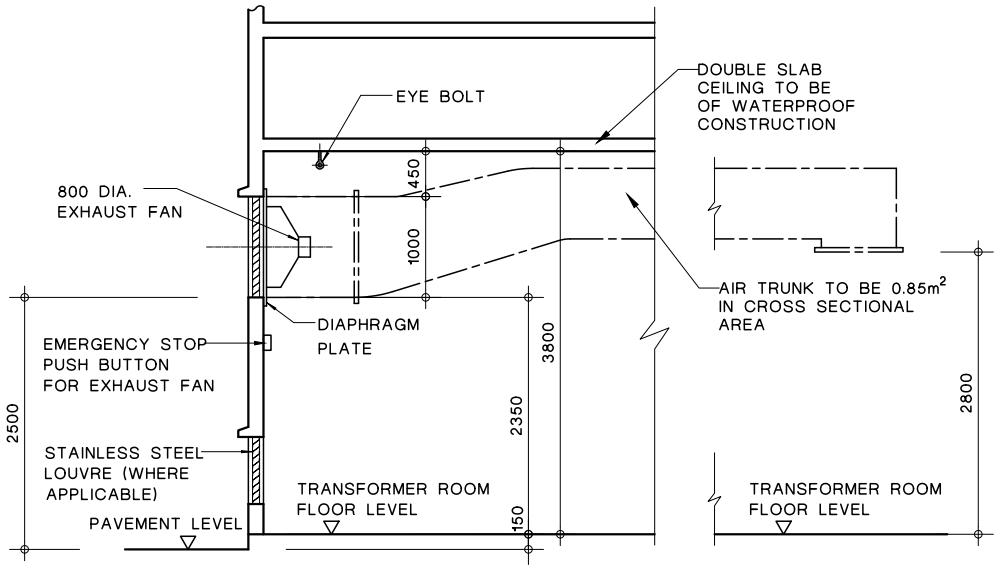
COVER FOR OUTDOOR SUBSTATION LOCATED INSIDE CONSTRUCTION SITE

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 2 0 5 C A



SECTION ALONG 630 DIA. EXHAUST FAN



SECTION ALONG 800 DIA. EXHAUST FAN

NOTES:

1. WATERROOFING SHALL BE APPLIED TO THE SLAB BETWEEN THE CEILING OF THE SUBSTATION AND THE VOID.
2. DRAIN SHALL BE PROVIDED IN THE VOID TO DRAIN AWAY WATER LEAKED INTO THE VOID.
3. NO DRAIN OR OTHER WATER SERVICES PIPE SHALL RUN INTO OR CONCEAL IN THE CEILING SLAB OF THE SUBSTATION.

F	DIMENSION UPDATED	E	AIR TRUNK UPDATED	D	GENERAL AMENDMENT

REVS.	16.08.07	08.01.10	26.04.12	06.06.14	23.02.17	10.06.20					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU					

CLP 中電

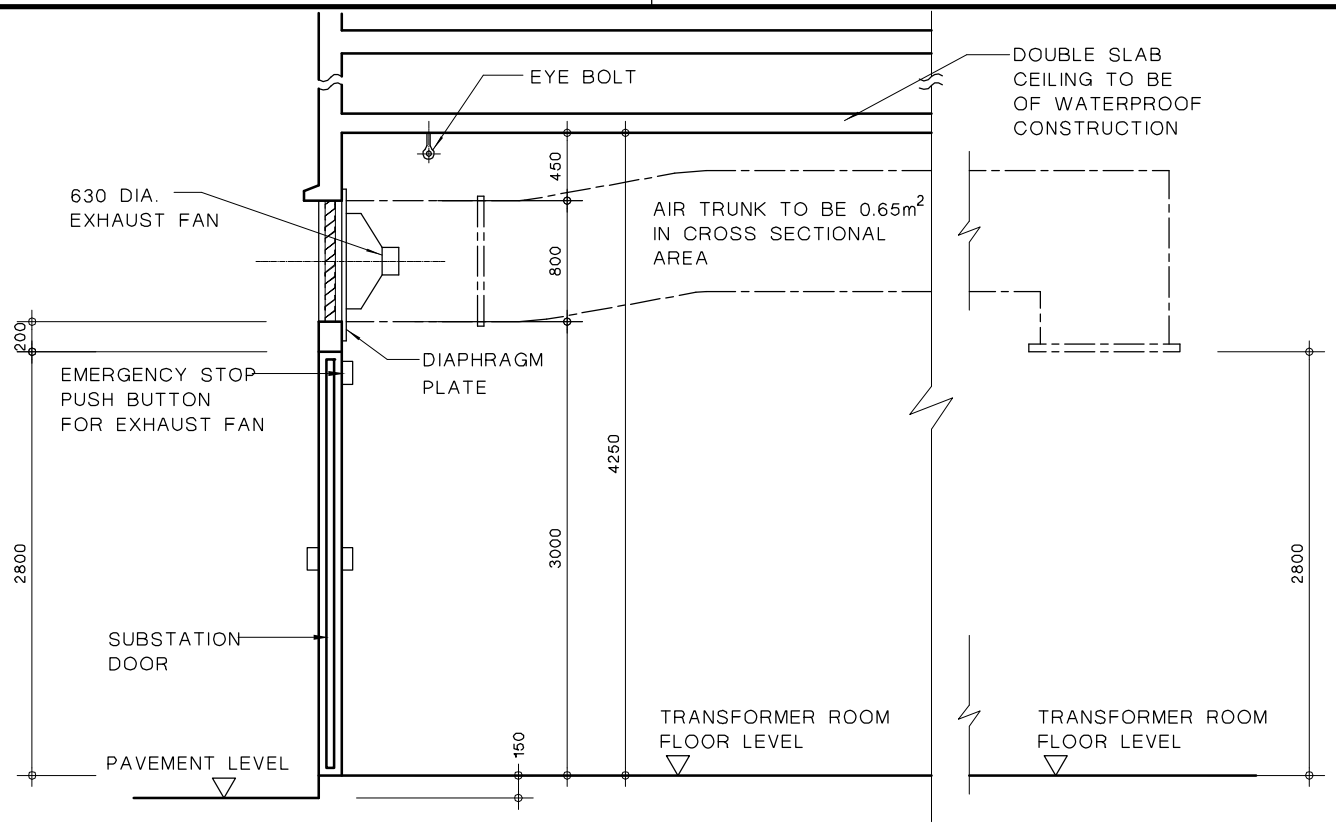
DRAWN:	S. C. TO	DATE:	23-07-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	1 : 75 (mm)	SHEET(S) IN SET:	

TITLE :

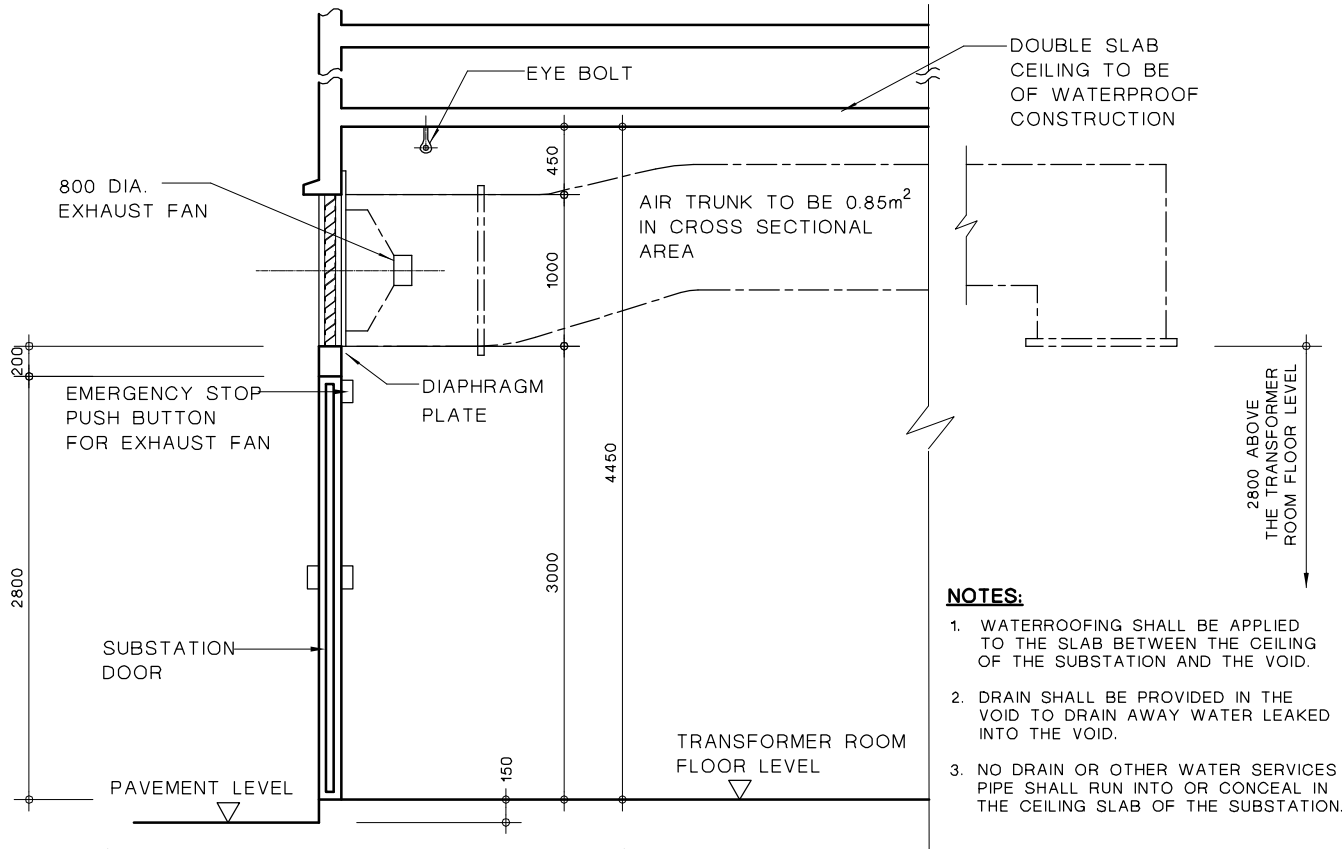
TYPICAL SECTIONS OF TRANSFORMER ROOM AT EXHAUST FAN POSITION (NOT DIRECTLY ABOVE SUBSTATION DOOR) (SHEET 1 OF 3)

ASSET MANAGEMENT

DRG. NO. TCOP/10250DE33/0102/07F/A



SECTION ALONG 630 DIA. EXHAUST FAN



SECTION ALONG 800 DIA. EXHAUST FAN

NOTES:

1. WATERROOFING SHALL BE APPLIED TO THE SLAB BETWEEN THE CEILING OF THE SUBSTATION AND THE VOID.
2. DRAIN SHALL BE PROVIDED IN THE VOID TO DRAIN AWAY WATER LEAKED INTO THE VOID.
3. NO DRAIN OR OTHER WATER SERVICES PIPE SHALL RUN INTO OR CONCEAL IN THE CEILING SLAB OF THE SUBSTATION.

C	GENERAL AMENDMENT	B	DOUBLE SLAB HEIGHT CHANGED	D	AIR TRUNK UPDATED

REVS.	08.01.10	02.05.12	18.03.14	23.02.17							
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C	K.C.C	H.T.YU	H.T.YU							

CLP 中電

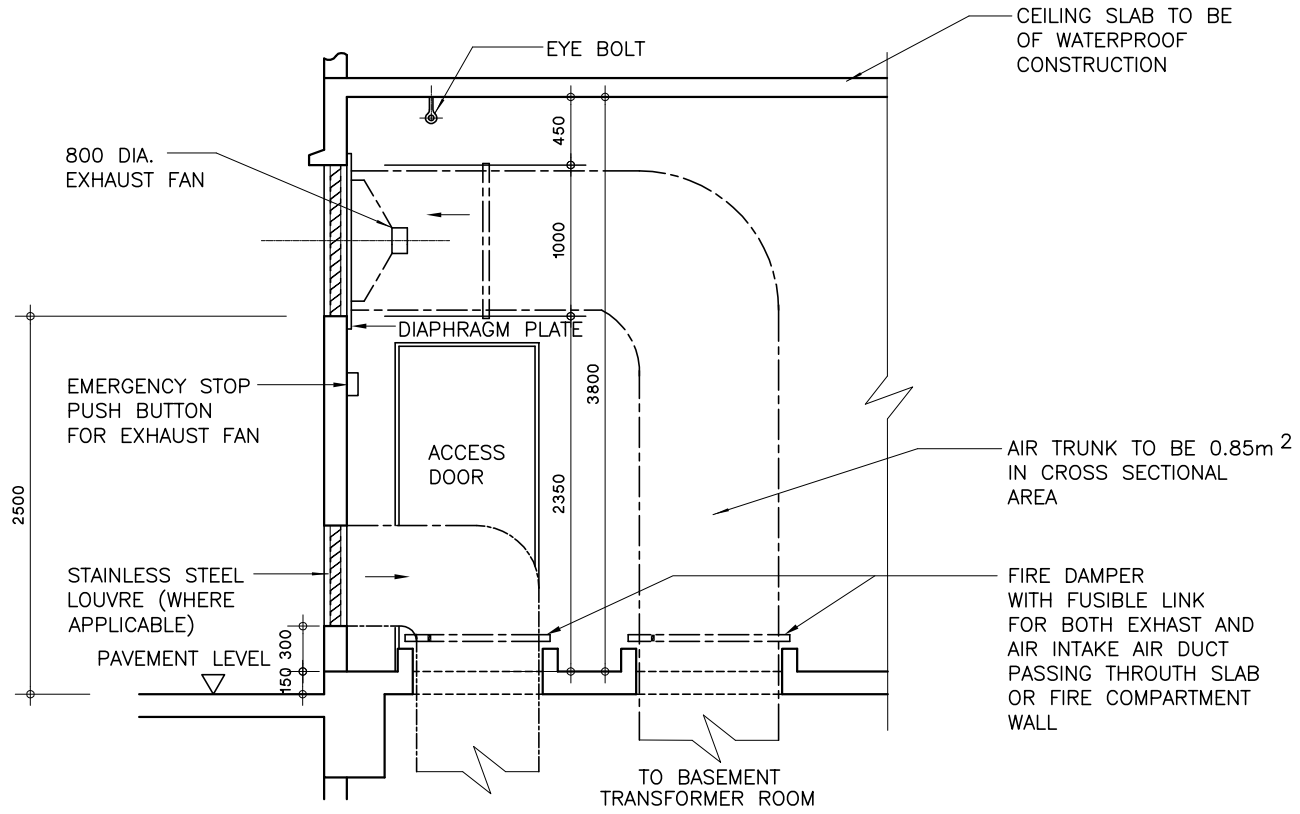
DRAWN:	S. C. TO	DATE:	23-07-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	1 : 50 (mm)	SHEET(S) IN SET:	

TITLE :

TYPICAL SECTIONS OF TRANSFORMER ROOM AT EXHAUST FAN POSITION (DIRECTLY ABOVE SUBSTATION DOOR) (SHEET 2 OF 3)

ASSET MANAGEMENT

DRG. NO. TCOP/10250D/E33/01028/D/A



SECTION ALONG 800 DIA. EXHAUST FAN

NOTES:

THE FOLLOWING ITEMS SHALL BE PROVIDED FOR THE FAN ROOM:

1. ACCESS DOOR WITH PROPER NOTICE
2. ADEQUATE WORKING SPACE FOR MAINTENANCE
3. ADEQUATE LIGHTING AND POWER SOCKET
4. FIRE DAMPER CAN BE OMITTED WHEN FIRE RESISTANCE AIR DUCT IS USED IN ACCORDANCE WITH THE REGULATIONS

B	LOUVRE REVISED
A	NOTE 4 ADDED

CLP 中電

REVS.	01.12.04 A	16.08.07 B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C	K.C.C									

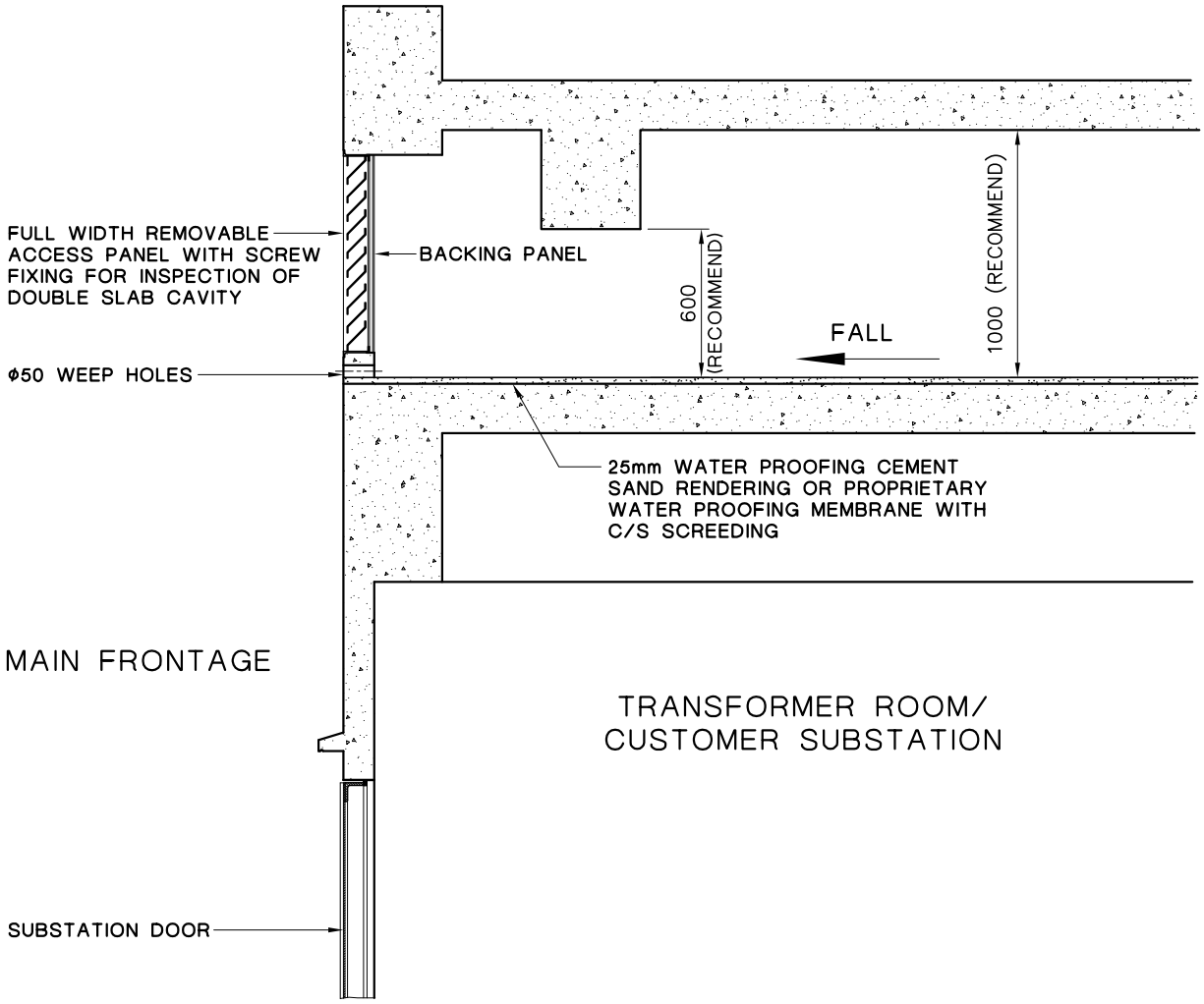
DRAWN:	S. C. TO	DATE:	23-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 50 (mm)	SHEET(S) IN SET:	

TITLE :

TYPICAL SECTION OF FAN ROOM (SHEET 3 OF 3)

ASSET MANAGEMENT

DRG. NO. TCOP1025ODE3301029BA



NOTES:

1. NO LEFT IN TIMBER FORM WORK INSIDE THE VOID AFTER CASTING THE CONCRETE.
2. 50mm DIAMETER WEEP HOLE IS REQUIRED AT THE LOWER POINT OF FALL OR AT LEAST 2 HOLES TO BE PROVIDED WHEN IT IS NOT FALLING TO A SINGLE POINT. ALLOW AT LEAST A SLEEVE OPENING FOR EACH VOID COMPARTMENT.
3. THE FOLLOWING TESTS SHALL BE CARRIED OUT AT THE TIME OF SUBSTATION INSPECTION:
   i. SEAL ALL OUTLETS AND CONSTRUCT SUITABLE DAM WALLS TO COMPARTMENTALISE THE TEST AREAS. DO NOT PERMIT ANY DEBRIS TO ENTER INTO DRAINAGE PIPEWORKS;
   ii CAREFULLY FLOOD THE LEVELS NO LESS THAN 50mm FOR UPPER SLAB AND 150mm FOR LOWER SLAB AND MAINTAIN FOR 24 HOURS;
   iii MARK THE TOP WATER LEVEL AT CLEARLY VISIBLE LOCATIONS AND REGULARLY INSPECT FOR LEAKS;
   iv SLOWLY DRAIN AND REMOVE ALL OUTLET BLOCKAGES AFTER LEST.
4. ALL DIMENSIONS ARE IN mm.

A	GENERAL NOTES ADDED.

REVS.	18.03.14										
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	H.T.YU										

CLP 中電

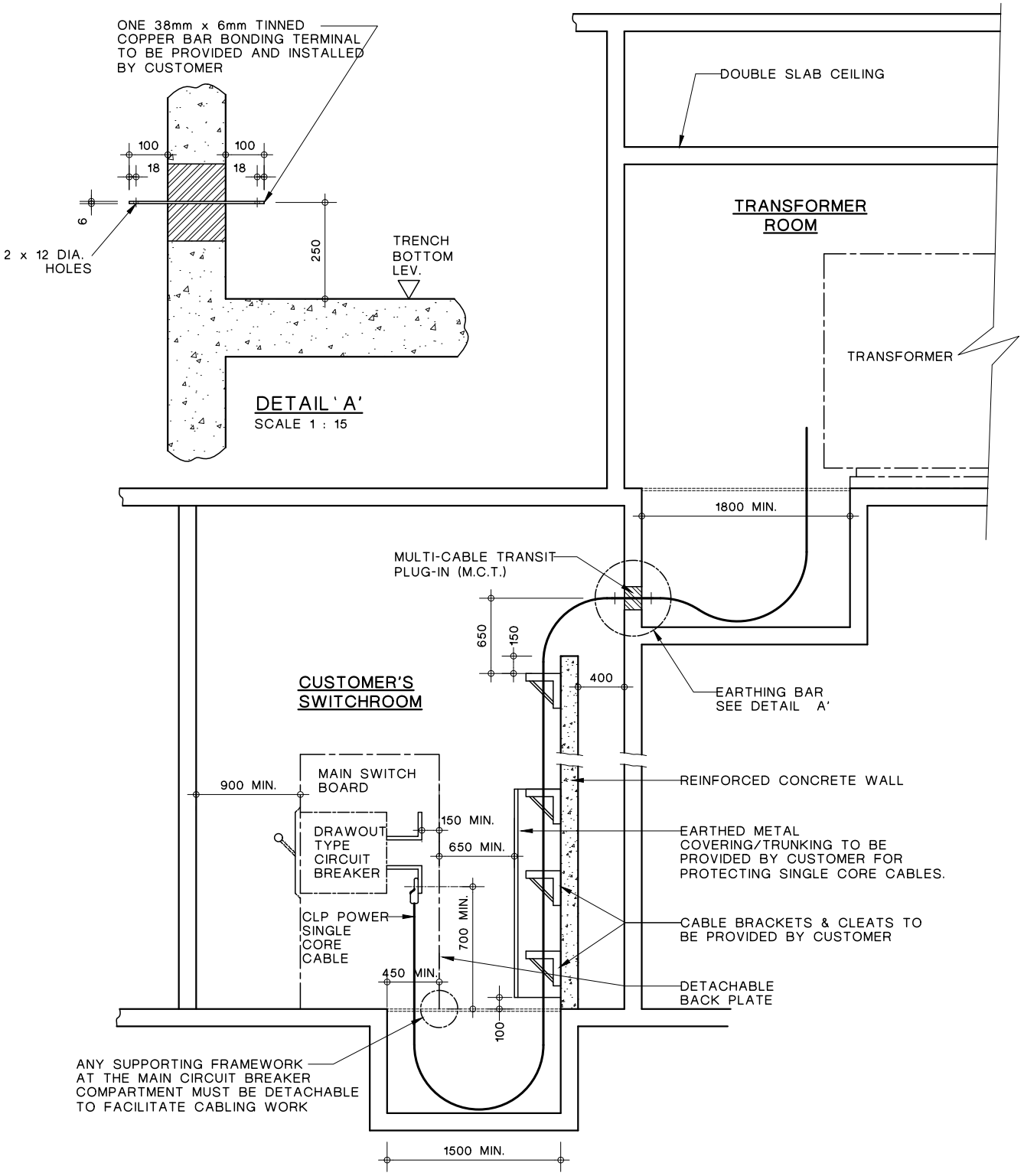
DRAWN:	C W WONG	DATE:	2 APR., 2012
CHECKED:	GARY KWOK	APPROVED:	GARY KWOK
SCALE:	N. T. S.	SHEET(S) IN SET:	

TITLE :

DOUBLE SLAB ARRANGEMENT FOR TRANSFORMER ROOM

ASSET MANAGEMENT

DRG. NO. TCOP10250DE330102 10 AA



NOTES:

1. EXACT POSITION OF ALL MAIN INCOMING CIRCUIT BREAKERS AND DETAILED CABLE TRENCH LAYOUT WITHIN CUSTOMER'S SWITCHROOM MUST BE SUBMITTED TO CLP POWER FOR APPROVAL PRIOR TO INSTALLATION.
2. REFER TO DRAWING NO. T-COP-10250-D-E33-0103-13 FOR THE CLEARANCE BEHIND THE MAIN SWITCH BOARD.
3. WATERPOOFING SHALL BE APPLIED TO THE SLAB BETWEEN THE CEILING OF THE SUBSTATION AND THE VOID.
4. DRAIN SHALL BE PROVIDED IN THE VOID TO DRAIN AWAY WATER LEAKED INTO THE VOID.
5. NO DRAIN OR OTHER WATER SERVICES PIPE SHALL RUN INTO OR CONCEAL IN THE CEILING SLAB OF THE SUBSTATION.
6. REINFORCED CONCRETE WORKING PLATFORM SHALL BE PROVIDED IF THE HEADROOM OF CUSTOMER'S SWITCHROOM IS GREATER THAN 4 METERS.

A	REINFORCED CONCRETE WALL SUPPORTING STRUCTURE ADDED TO OPTIMISE CABLE ROUTING AND NOTE UPDATED

REVS.	23.03.20										
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	H.T.YU										

CLP 中電

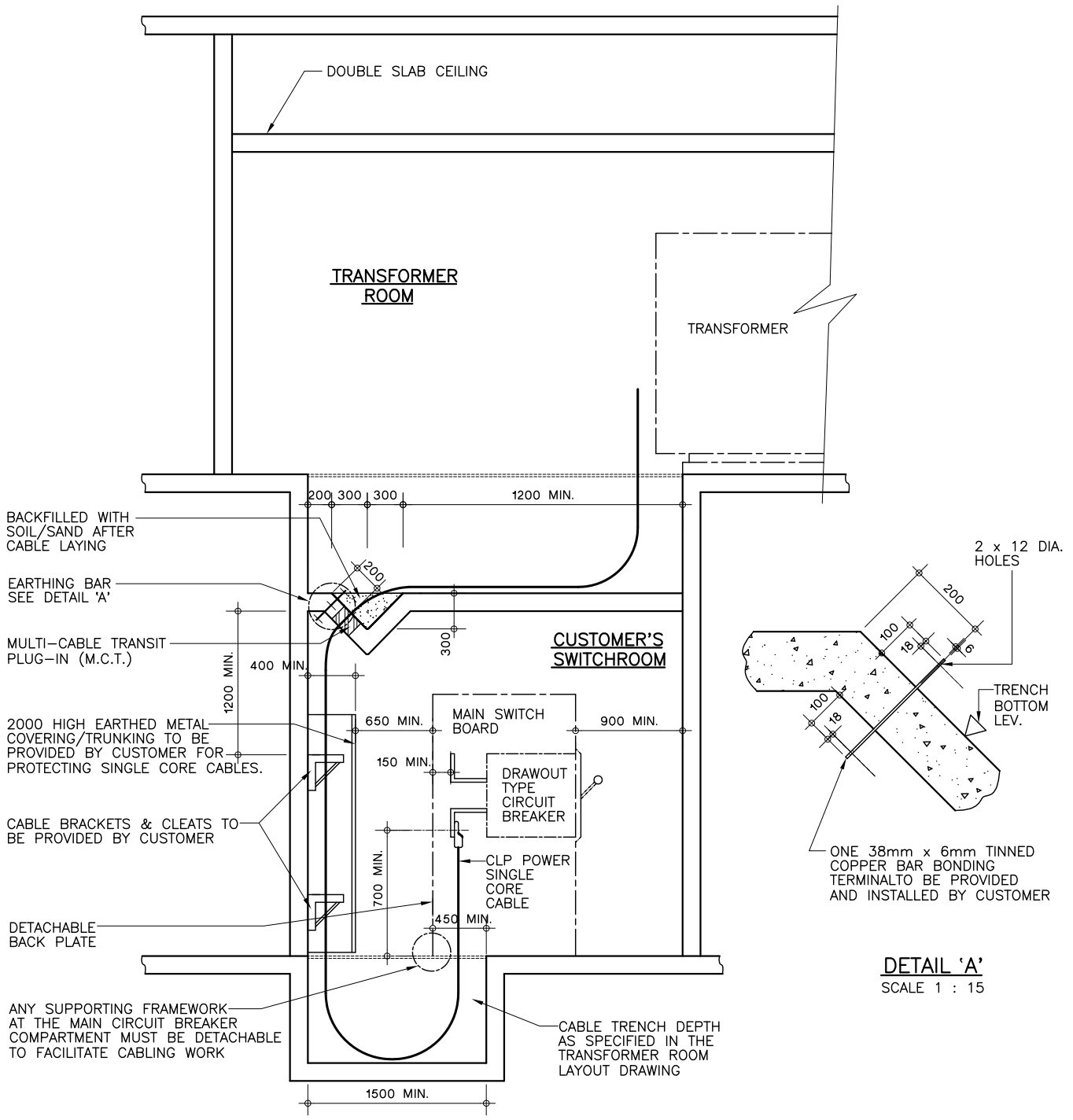
DRAWN:	C W WONG	DATE:	7 APR., 2017
CHECKED:	EDMOND YU	APPROVED:	W C HO
SCALE:	1 : 50 (mm)	SHEET(S) IN SET:	

TITLE :

MINIMUM REQUIREMENTS FOR CUSTOMER MAIN SWITCH ROOM NOT DIRECT BELOW TRANSFORMER ROOM (SHEET 1 OF 2)

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 2 1 1 A A



DETAIL 'A'
SCALE 1 : 15

NOTE:

1. EXACT POSITION OF ALL MAIN INCOMING CIRCUIT BREAKERS AND DETAILED CABLE TRENCH LAYOUT WITHIN CUSTOMER'S SWITCHROOM MUST BE SUBMITTED TO CLP POWER FOR APPROVAL PRIOR TO INSTALLATION.
2. REFER TO DRAWING NO. T-COP-10250-D-E33-0103-13 FOR THE CLEARANCE BEHIND THE MAIN SWITCH BOARD.
3. WATERPROOF SHALL BE APPLIED TO THE SLAB BETWEEN THE CEILING OF THE SUBSTATION AND THE VOID.
4. DRAIN SHALL BE PROVIDED IN THE VOID TO DRAIN AWAY WATER LEAKED INTO THE VOID.
5. NO DRAIN OR OTHER WATER SERVICES PIPE SHALL BE RUN INTO OR CONCEAL IN THE CEIING SLAB OF THE SUBSTATION.

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

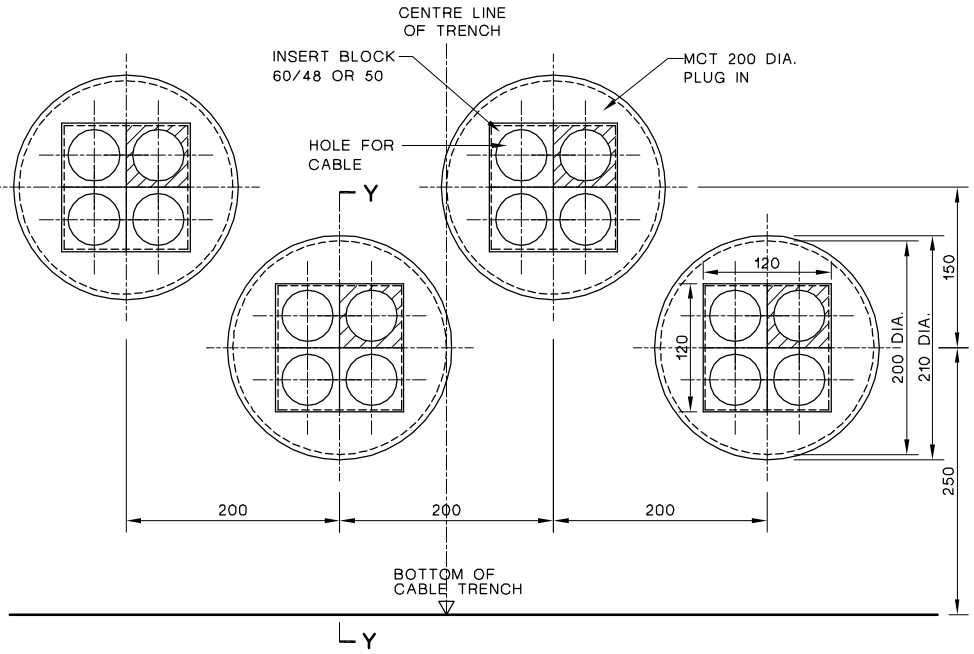
TITLE :

MINIMUM REQUIREMENTS FOR CUSTOMER MAIN SWITCHROOM NOT DIRECT BELOW TRANSFORMER ROOM (SHEET 2 OF 2)

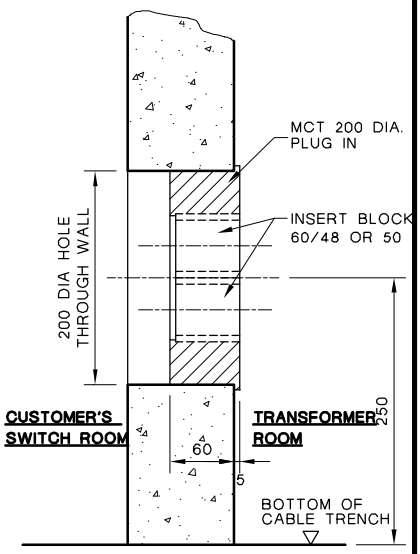
DRAWN: T. W. LAU	DATE: 11-05-2017
CHECKED: EDMOND YU	APPROVED: W. C. HO
SCALE: 1 : 50 (mm)	SHEET(S) IN SET:

ASSET MANAGEMENT

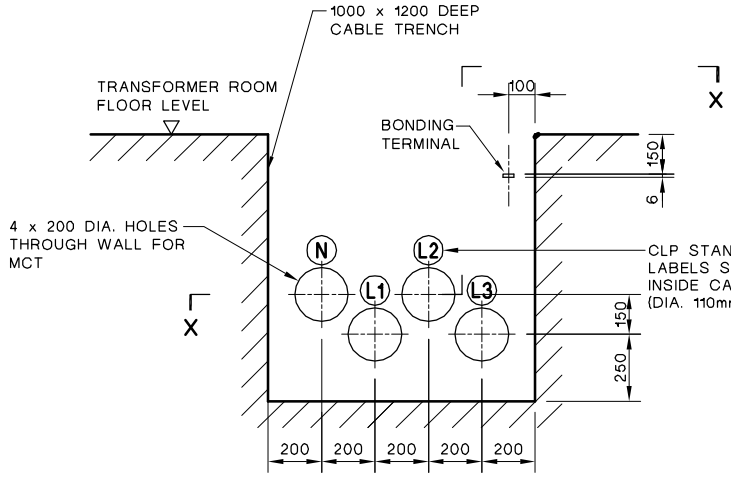
DRG. NO. T COP 10250 D E33 0102 12 - A



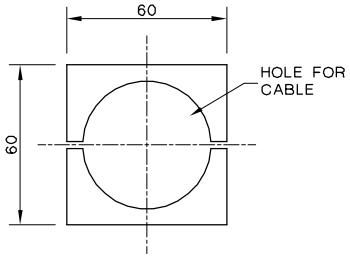
ARRANGEMENT OF MULTI-CABLE TRANSIT
(VIEW LOOKING TOWARDS WALL INSIDE TRANSFORMER ROOM)



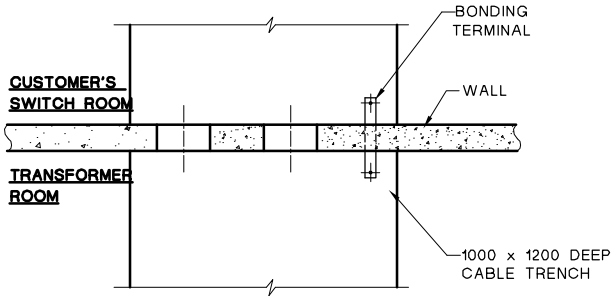
SECTION Y-Y



ELEVATION NOTE: CHEQUER PLATE NOT SHOWN
(VIEW IN TRANSFORMER ROOM)



DETAIL FOR INSERT BLOCK 60/48 OR 50



SECTION X-X

PHASE IDENTIFICATION:

L1 (BROWN)
L2 (BLACK)
L3 (GREY)
N : (NEUTRAL/BLUE)

NOTES:

1. MULTI-CABLE TRANSIT PLUG-IN TO BE PROVIDED AND INSTALLED BY CLP POWER.
2. THE 4 x 200 DIA. HOLES THROUGH WALL TO BE PROVIDED BY CUSTOMER.
3. SOLID CABLE Φ48, STRANDED CABLE Φ50.
4. ☐ USE SPARE INSERT BLOCK 30/0 WHEN ONLY 3 CABLES PER PHASE ARE USED.
5. PHASE IDENTIFICATION LABELS TO BE APPLIED ON TRANSFORMER RM. AND CUSTOMER MAIN SWITCH RM.
6. ALL DIMENSIONS ARE IN mm.

C	SPARE INSERT BLOCK DELETED	B	PHASE LABELS ADDED	A	PHASE IDENTIFICATION UPDATED

REVS.	20.08.07	12.10.09	23.02.17								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	H.T.YU								

CLP 中電

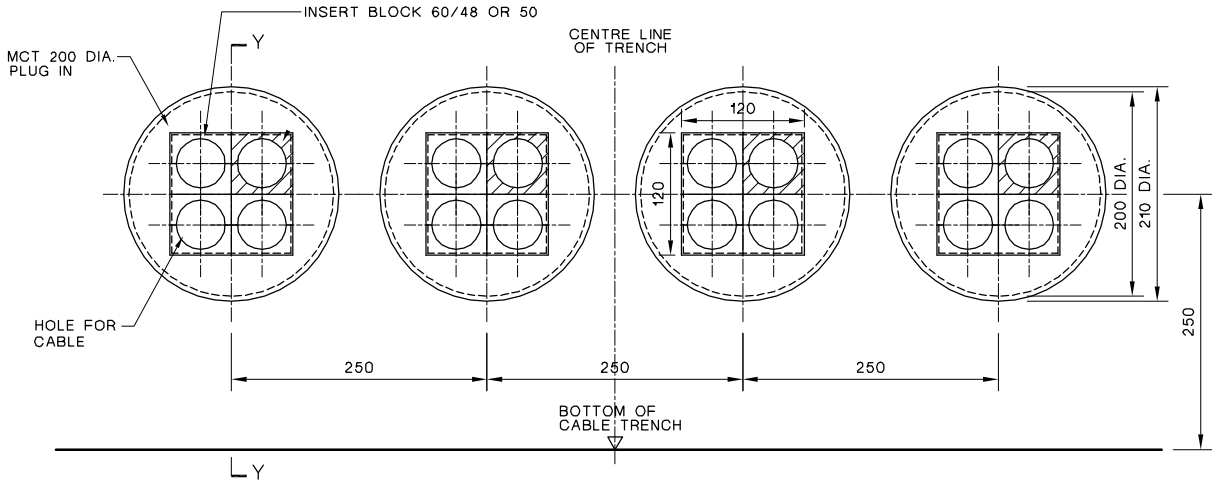
DRAWN:	S. C. TO	DATE:	22-07-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	N.T.S.	SHEET(S) IN SET:	

TITLE :

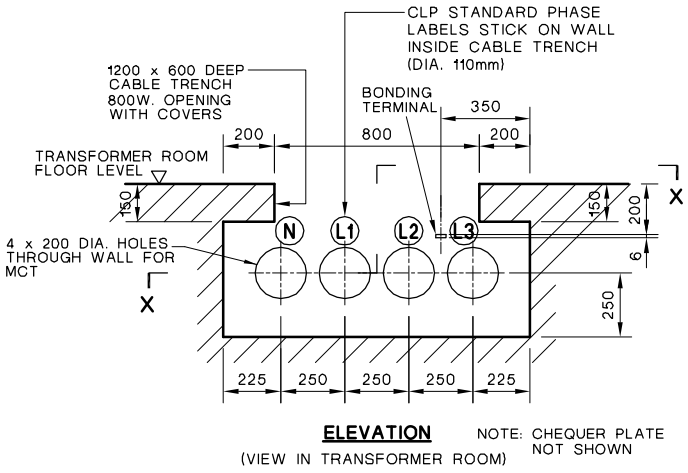
INSTALLATION OF FOUR "MULTI-CABLE TRANSIT" PLUG-IN IN CABLE TRENCH IN TWO LAYERS (FOR FULL NEUTRAL ARRANGEMENT)

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010301CA

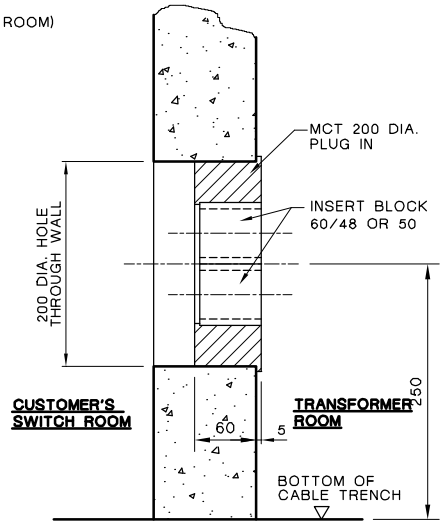


ARRANGEMENT OF MULTI-CABLE TRANSIT
(VIEW LOOKING TOWARDS WALL INSIDE TRANSFORMER ROOM)

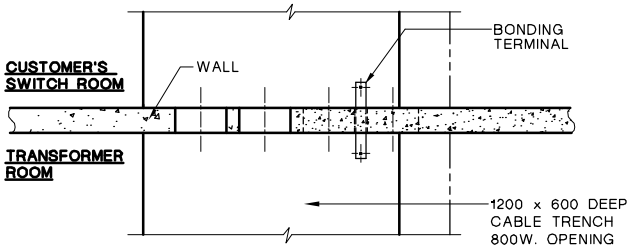


ELEVATION
(VIEW IN TRANSFORMER ROOM)

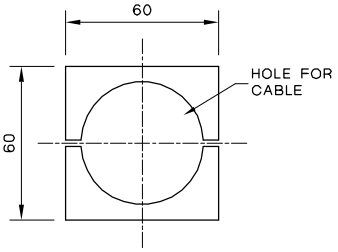
NOTE: CHEQUER PLATE NOT SHOWN



SECTION Y-Y



SECTION X-X



DETAIL FOR INSERT BLOCK 60/48 OR 50

NOTES:

1. MULTI-CABLE TRANSIT PLUG-IN TO BE PROVIDED AND INSTALLED BY CLP POWER.
2. THE 4 x 200 DIA. HOLES THROUGH WALL TO BE PROVIDED BY CUSTOMER.
3. SOLID CABLE Φ48, STRANDED CABLE Φ50.
4. ⬡ USE SPARE INSERT BLOCK 30/0 WHEN ONLY 3 CABLES PER PHASE ARE USED.
5. PHASE IDENTIFICATION LABELS TO BE APPLIED ON TRANSFORMER RM. AND CUSTOMER MAIN SWITCH RM.
6. ALL DIMENSIONS ARE IN mm.

PHASE IDENTIFICATION:

L1 (BROWN)
L2 (BLACK)
L3 (GREY)
N : (NEUTRAL/BLUE)

C	SPARE INSERT BLOCK DELETED		
B	PHASE LABELS ADDED	A	PHASE IDENTIFICATION UPDATED

REVS.	20.08.07	12.10.09	23.02.17								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	H.T.YU								

CLP 中電

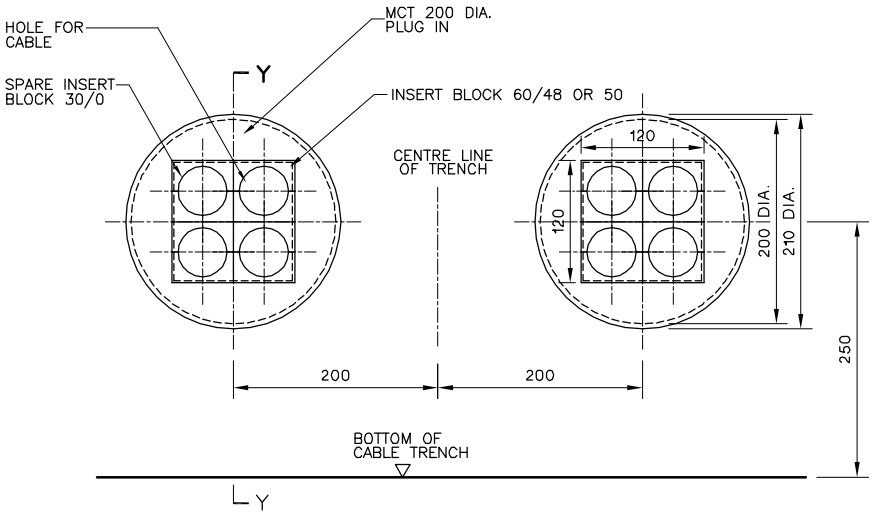
DRAWN:	S. C. TO	DATE:	26-07-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	N. T. S.	SHEET(S) IN SET:	

TITLE :

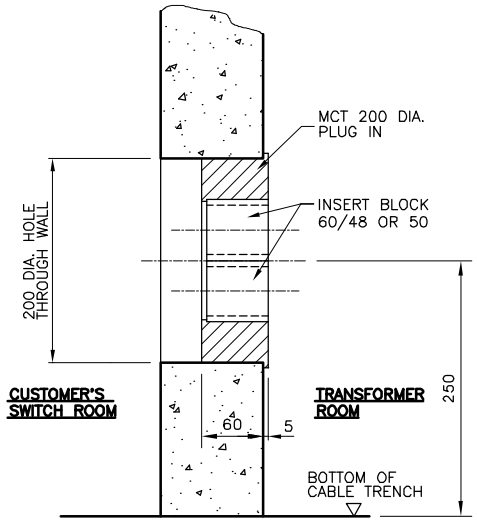
INSTALLATION OF FOUR "MULTI-CABLE TRANSIT" PLUG-IN IN CABLE TRENCH IN LINE (FOR FULL NEUTRAL ARRANGEMENT)

ASSET MANAGEMENT

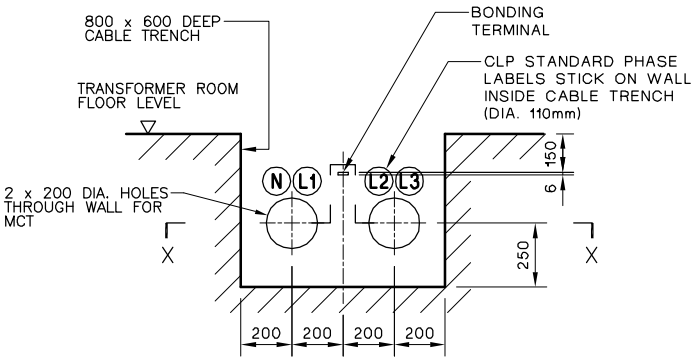
DRG. NO. TCOP10250DE3010302CA



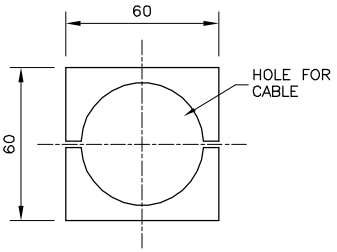
ARRANGEMENT OF MULTI-CABLE TRANSIT
(VIEW LOOKING TOWARDS WALL INSIDE TRANSFORMER ROOM)



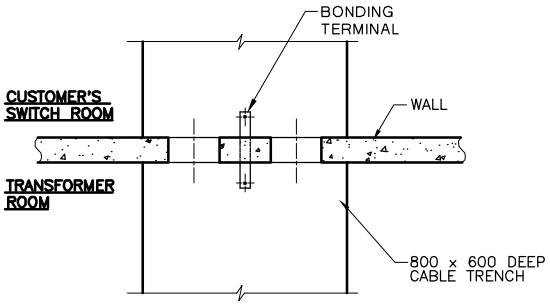
SECTION Y-Y



ELEVATION NOTE: CHEQUER PLATE NOT SHOWN
(VIEW IN TRANSFORMER ROOM)



DETAIL FOR INSERT BLOCK 60/48 OR 50



SECTION X-X

PHASE IDENTIFICATION:

L1 (BROWN)
L2 (BLACK)
L3 (GREY)
N : (NEUTRAL/BLUE)

NOTES:

1. MULTI-CABLE TRANSIT PLUG-IN TO BE PROVIDED AND INSTALLED BY CLP POWER.
2. THE 2 x 200 DIA. HOLES THROUGH WALL TO BE PROVIDED BY CUSTOMER.
3. SOLID CABLE Φ48, STRANDED CABLE Φ50.
4. PHASE IDENTIFICATION LABELS TO BE APPLIED ON TRANSFORMER RM. AND CUSTOMER MAIN SWITCH RM.
5. ALL DIMENSIONS ARE IN mm.

B	NOTES UPDATED	A	PHASE LABELS ADDED

REVS.	12.10.09	23.02.17									
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	H.T.YU									

CLP 中電

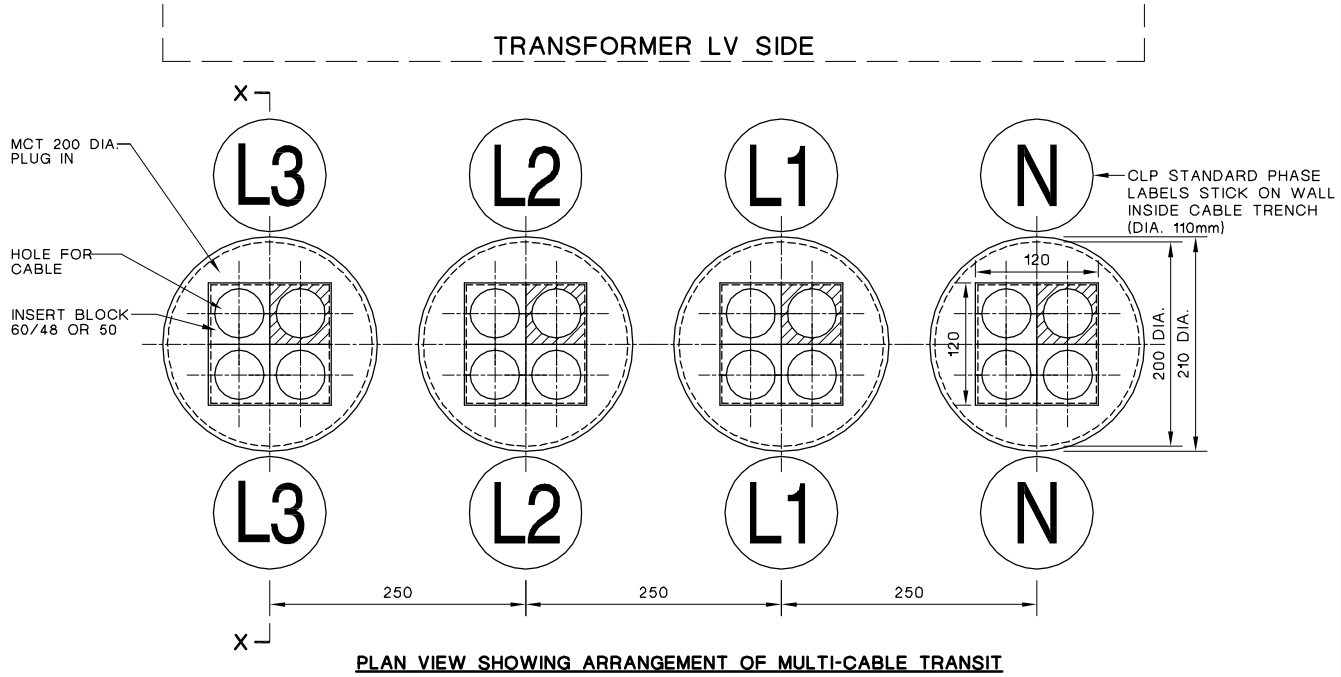
DRAWN:	S. C. TO	DATE:	12-8-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	N.T.S.	SHEET(S) IN SET:	

TITLE :

INSTALLATION OF TWO "MULTI-CABLE TRANSIT" PLUG-IN IN CABLE TRENCH IN LINE (1000kVA OR BELOW TRANSFORMER)

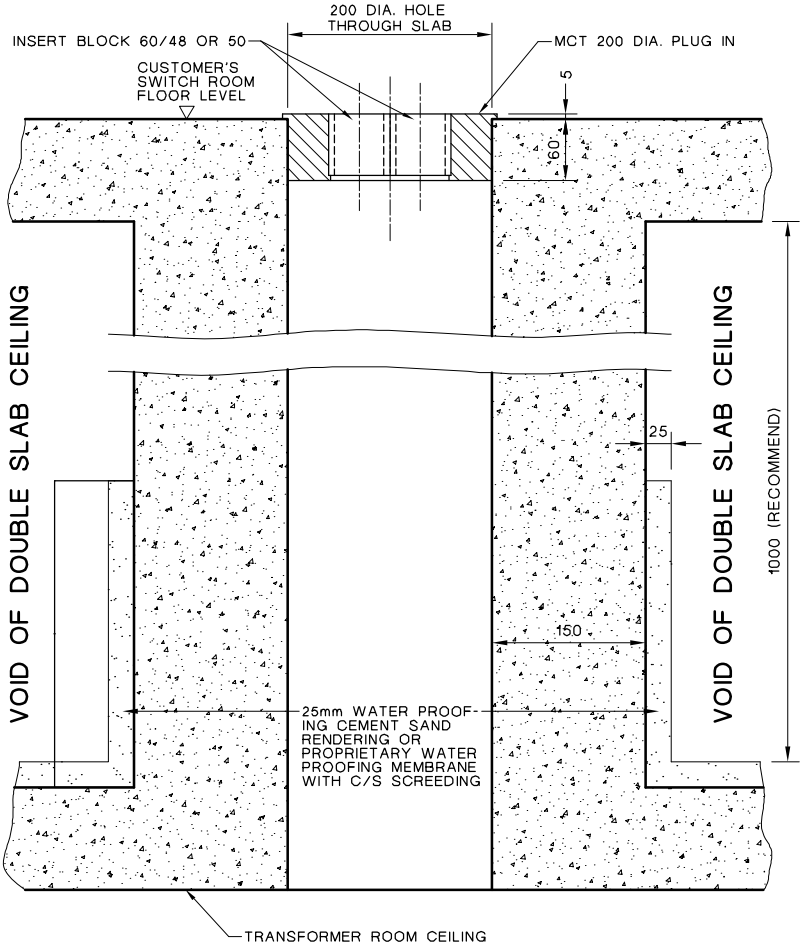
ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010303BA

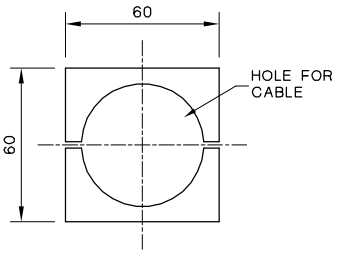


PLAN VIEW SHOWING ARRANGEMENT OF MULTI-CABLE TRANSIT

(LOOKING TOWARDS FLOOR INSIDE CUSTOMER SWITCHROOM)



SECTION X - X



DETAIL FOR INSERT BLOCK 60/48 OR 50

PHASE IDENTIFICATION:

L1 (BROWN)
L2 (BLACK)
L3 (GREY)
N : (NEUTRAL/BLUE)

NOTES:

1. MULTI-CABLE TRANSIT PLUG-IN TO BE PROVIDED AND INSTALLED BY CLP POWER.
2. THE 4 x 200 DIA. HOLES THROUGH WALL TO BE PROVIDED BY CUSTOMER.
3. SOLID CABLE Φ48, STRANDED CABLE Φ50.
4. ☐ USE SPARE INSERT BLOCK 30/0 WHEN ONLY 3 CABLES PER PHASE ARE USED.
5. PHASE IDENTIFICATION LABELS TO BE APPLIED ON TRANSFORMER RM. AND CUSTOMER MAIN SWITCH RM.
6. DETAIL AND LOCATION OF EARTHING BAR REFER TO DRAWING NO. T/COP/10250/D/E33/0102/03.
7. ALL DIMENSIONS ARE IN mm.

C	NOTE 7 ADDED, SECTION X-X REVISED	E	SPARE INSERT BLOCK DETELED	D	GENERAL AMANDMENT

REVS.	20.08.07	12.10.09	23.03.12	18.03.14	23.02.17						
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	E. YU	H.T.YU	H.T.YU						

CLP 中電

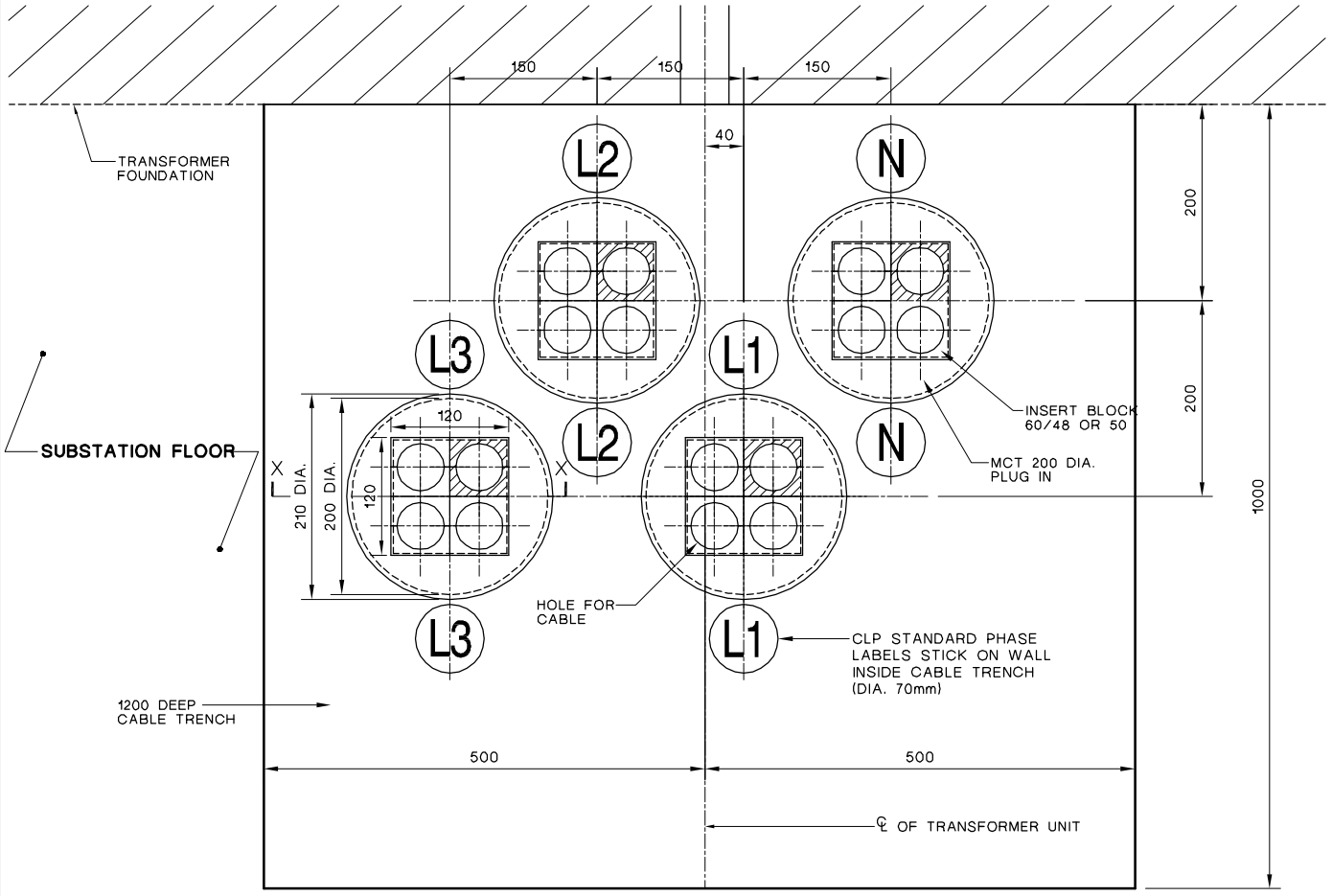
DRAWN:	S. C. TO	DATE:	22-07-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	N. T. S.	SHEET(S) IN SET:	

TITLE :

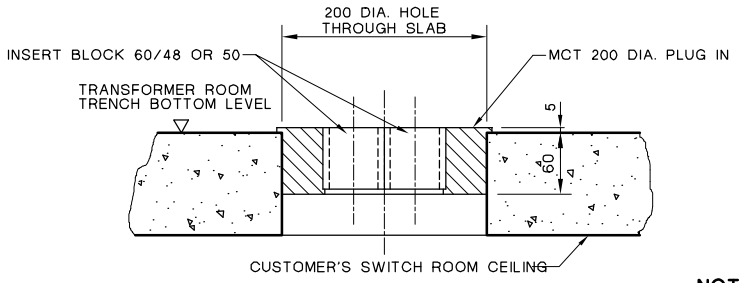
INSTALLATION OF "MULTI-CABLE TRANSIT" PLUG-IN THROUGH SUBSTATION CEILING

ASSET MANAGEMENT

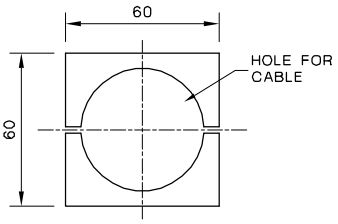
DRG. NO. T/COP/10250/D/E33/0103/04/E/A



PLAN VIEW SHOWING ARRANGEMENT OF MULTI-CABLE TRANSIT
(VIEW TOWARDS FLOOR INSIDE TRANFORMER ROOM)



SECTION X - X



DETAIL FOR INSERT BLOCK 60/48 OR 50

PHASE IDENTIFICATION:

L1 (BROWN)
L2 (BLACK)
L3 (GREY)
N : (NEUTRAL/BLUE)

NOTES:

1. MULTI-CABLE TRANSIT PLUG-IN TO BE PROVIDED AND INSTALLED BY CLP POWER.
2. THE 4 x 200 DIA. HOLES THROUGH WALL TO BE PROVIDED BY CUSTOMER.
3. SOLID CABLE ϕ48, STRANDED CABLE ϕ50.
4. ☐ USE SPARE INSERT BLOCK 30/0 WHEN ONLY 3 CABLES PER PHASE ARE USED.
5. PHASE IDENTIFICATION LABELS TO BE APPLIED ON TRANSFORMER RM. AND CUSTOMER MAIN SWITCH RM.
6. DETAIL AND LOCATION OF EARTHING BAR REFER TO DRAWING NO. T/COP/10250/D/E33/0102/04.
7. ALL DIMENSIONS ARE IN mm.

C	NOTE 7 ADDED	B	PHASE LABELS ADDED	D	SPARE INSERT BLOCK DELETED							
REVS.		16.08.07	12.10.09	23.03.12	23.02.17							
		A	B	C	D	E	F	G	H	J	K	L
INITIAL		K.C.C.	K.C.C.	K.C.C.	H.T.YU							

CLP 中電

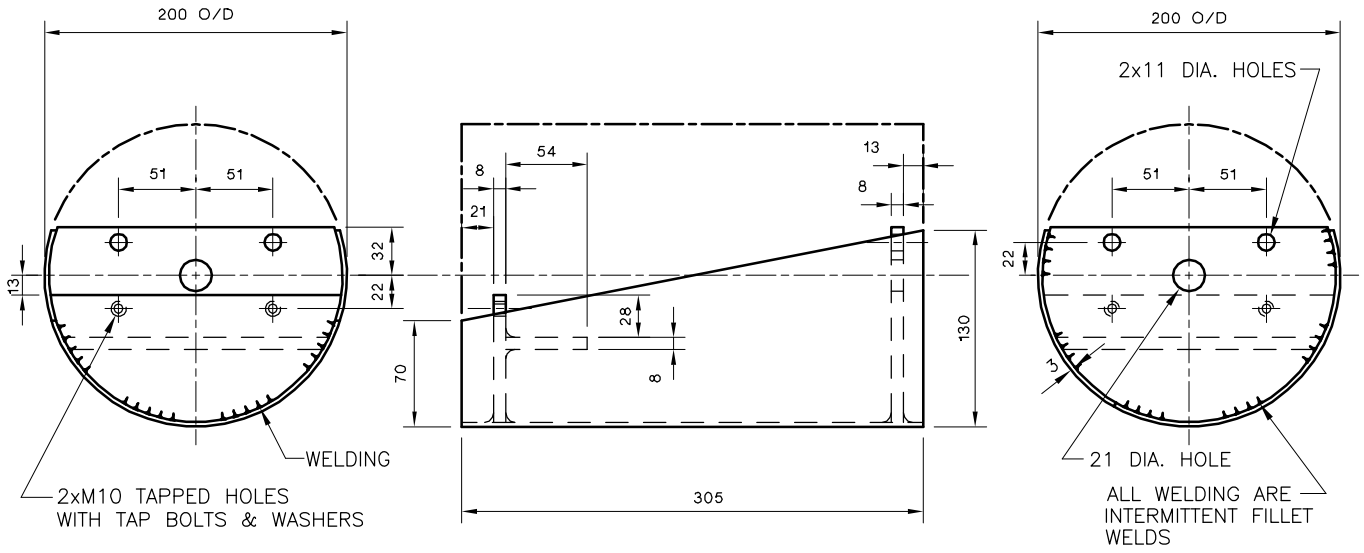
DRAWN:	S. C. TO	DATE:	22-07-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	N. T. S.	SHEET(S) IN SET:	

TITLE :

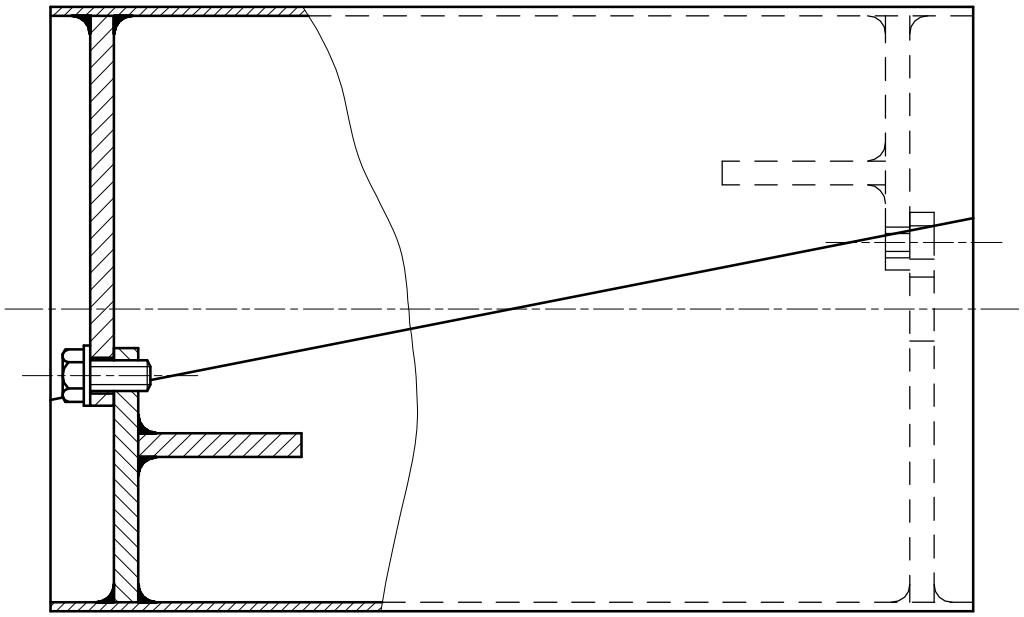
INSTALLATION OF "MULTI-CABLE TRANSIT" PLUG-IN THROUGH SUBSTATION FLOOR

ASSET MANAGEMENT

DRG. NO. T/COP/10250/D/E33/0103/05/D/A



END VIEW ELEVATION END VIEW



ASSEMBLY VIEW (PART SECTIONED)

SCALE: 1 : 2.5

NOTE:

THE COMPLETE FORMER CONSISTS OF TWO IDENTICAL HALVES.

A	NOTES 2 DELETED

CLP 中電

REVS.	23.02.17										
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	H.T.YU										

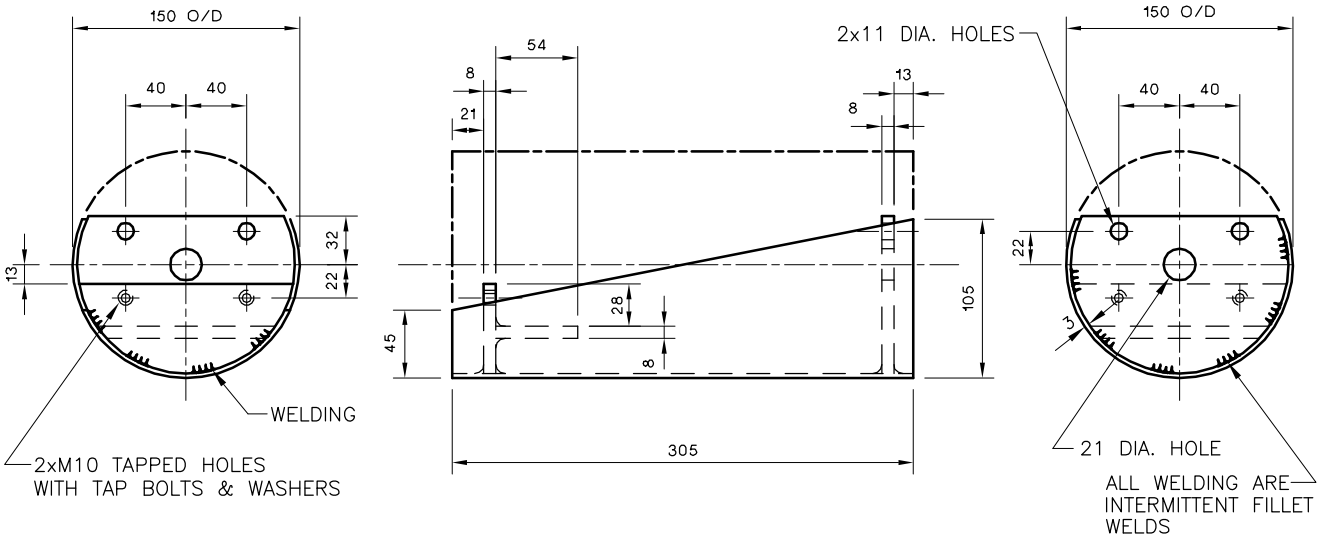
TITLE :

STEEL FORMER FOR 200mm DIA. "MULTI-CABLE TRANSIT" HOLE

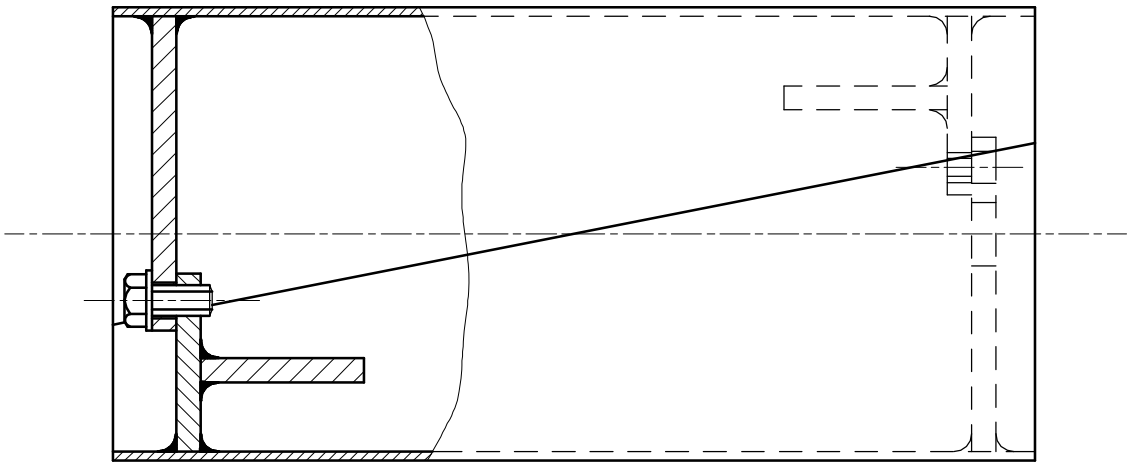
DRAWN:	S. C. TO	DATE:	12-8-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	1 : 5 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. TCOP1025ODE3010306AA



END VIEW ELEVATION END VIEW



ASSEMBLY VIEW (PART SECTIONED)

SCALE: 1 : 2.5

NOTE:

THE COMPLETE FORMER CONSISTS OF TWO IDENTICAL HALVES.

A	NOTES 2 DELETED

CLP 中電

REVS.	23.02.17										
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	H.T.YU										

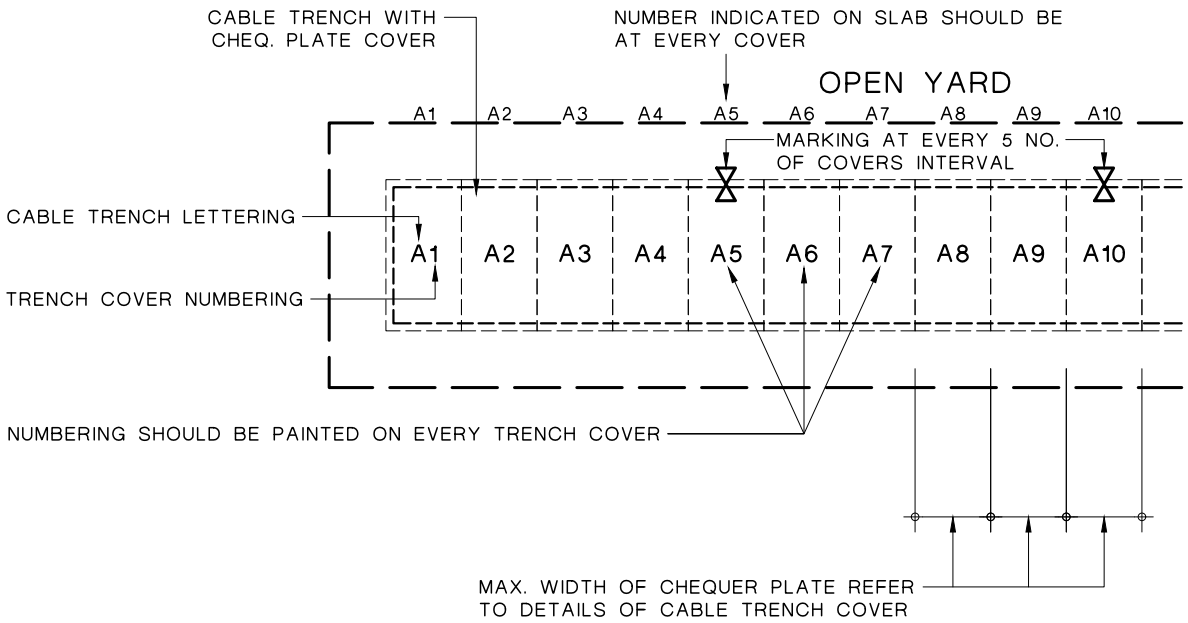
DRAWN: S. C. TO	DATE: 12-8-2002
CHECKED: K. C. CHENG	APPROVED: K. W. WONG
SCALE: 1 : 5 (mm)	SHEET(S) IN SET:

TITLE :

STEEL FORMER FOR 150mm DIA.
"MULTI-CABLE TRANSIT" HOLE

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010307AA



C	NUMBER INDICATED ON SLAB UPDATED.	B	STEP IRON DELETED

CLP 中電

REVS.	30.10.05 A	16.08.07 B	23.03.20 C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	H.T.YU								

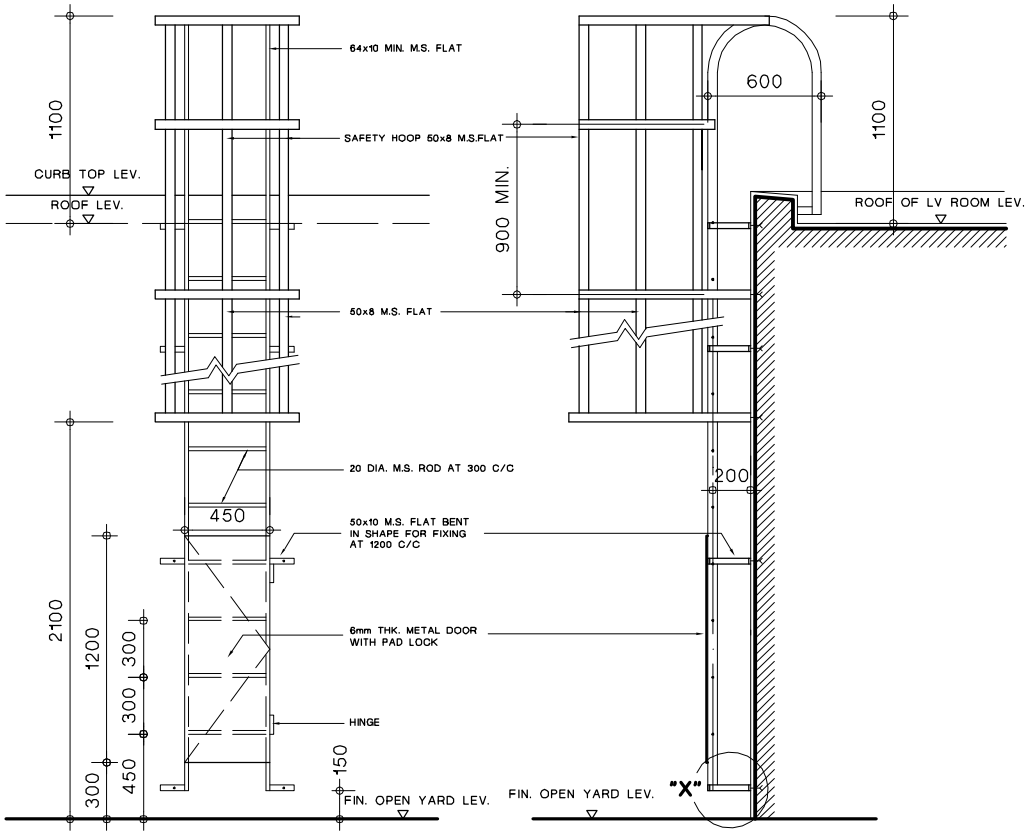
DRAWN: C. W. WONG	DATE: 16 Sep., 2002
CHECKED: K. C. CHENG	APPROVED: K. W. WONG
SCALE: N. T. S.	SHEET(S) IN SET:

TITLE :

TYPICAL DETAILS OF NUMBER MARKED ON THE CABLE TRENCH COVER

ASSET MANAGEMENT

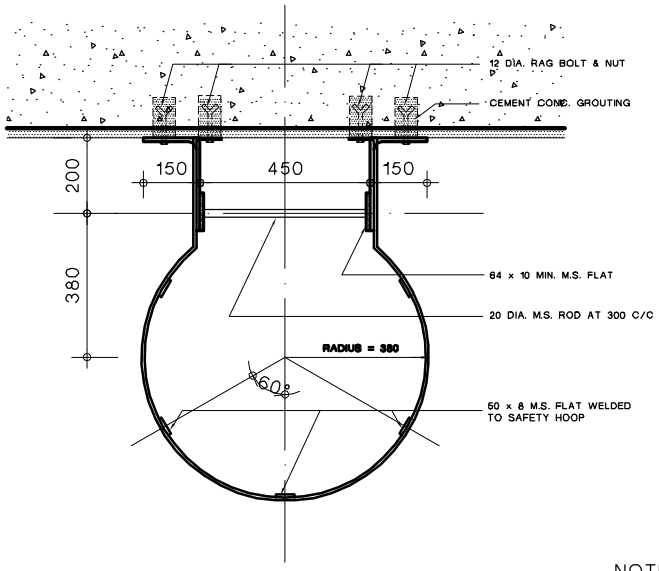
DRG. NO. TCOP10250DE330103 08 C A



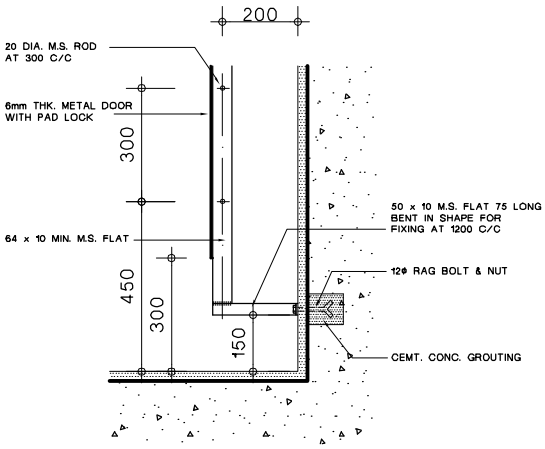
ELEVATION LOCATION : OPEN YARD AT LEVEL 9.60
1 : 40

SECTION
1 : 40

CAT LADDER WITH SAFETY HOOP AT OPEN YARD (TYPE '1')



PLAN OF CAT LADDER
1 : 20



DETAIL AT "X"
1 : 20

NOTE:

ALL METAL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm^2.

D	GENERAL AMENDMENT	C	GENERAL NOTES ADDED.	B	BRACE HOOP INTERNAL

REVS.	13.09.04	13.08.07	18.03.14	23.02.17							
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	H.T.YU	H.T.YU							

CLP 中電

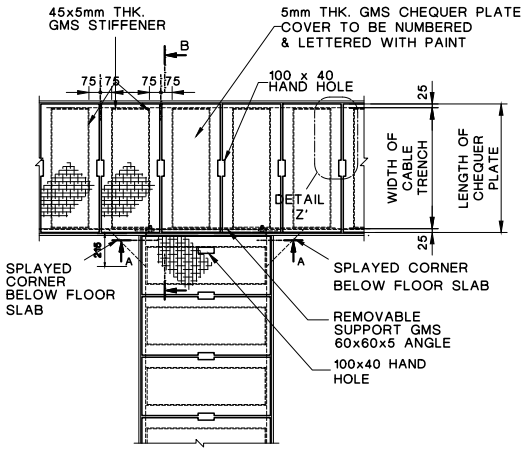
DRAWN:	T. Y. IP	DATE:	17-09-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 20 (mm)	SHEET(S) IN SET:	

TITLE :

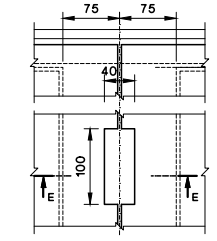
TYPICAL DETAILS OF CAT LADDER

ASSET MANAGEMENT

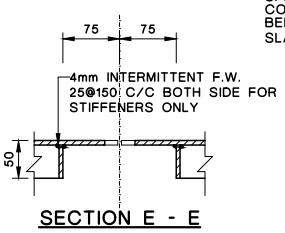
DRG. NO. TCOP10250DE3010309DA



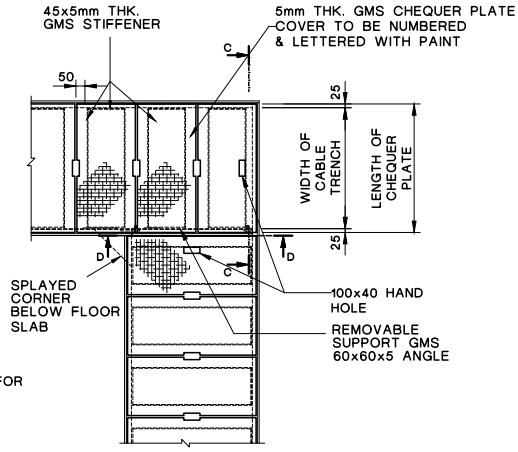
DETAILS OF CHEQUER PLATE SUPPORT AT TEE POINT OF THE TRENCHES



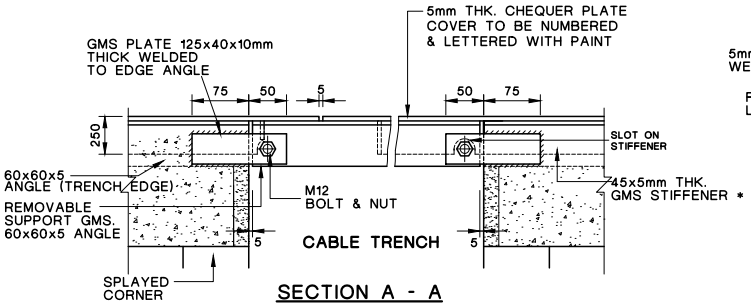
DETAIL 'Z'
(SCALE 1 : 10)



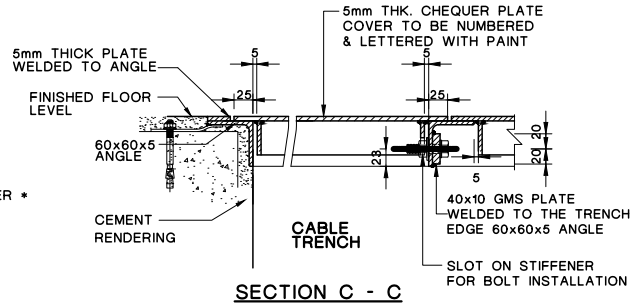
SECTION E - E
(SCALE 1 : 10)



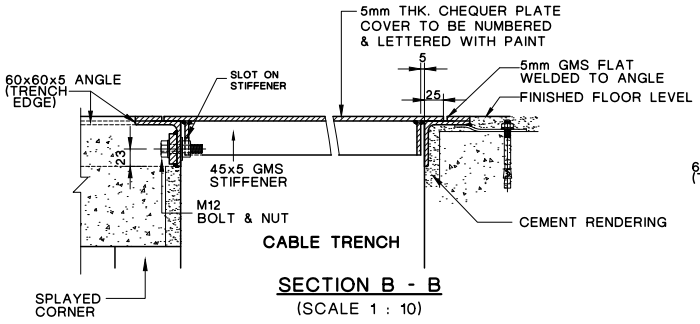
CHEQUER PLATE ARRANGEMENT AT 90° BEND OF THE TRENCH



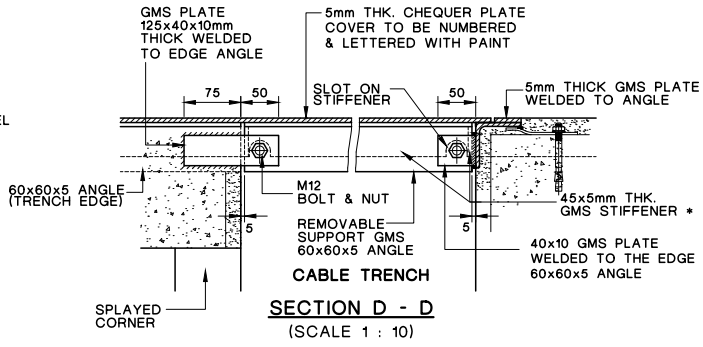
SECTION A - A
(SCALE 1 : 10)



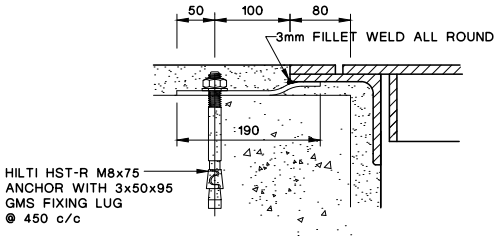
SECTION C - C
(SCALE 1 : 10)



SECTION B - B
(SCALE 1 : 10)



SECTION D - D
(SCALE 1 : 10)



TYPICAL FIXING DETAIL
(SCALE 1 : 5)

NOTES:

1. CHEQUER PLATE TO BE CUT TO SIZE AND FITTED IN POSITION UNDER THE DIRECTION OF CLP POWER ON SITE.
2. ALL CHEQUER PLATES SHALL BE NUMBERED IN SEQUENCE.
3. ALL STEELWORK SHALL BE HOT DIP GALVANISED AND FINISHED WITH ONE COAT OF CALCIUM PLUMBATE OR ZINC PHOSPHATE PRIMER AND TWO FINISHING COATS OF SYNTHETIC PAINT.
4. CONCRETE STRENGTH MINIMUM 30N/mm^2 IN 28 DAYS.
5. ALL STRUCTURAL STEEL WORKS SHALL BE GRADE 275 TO BS EN 10025.
6. WELDING FOR ALL STRUCTURAL STEEL JOINTS SHALL BE 4mm FILLET WELD TO BS EN 729-3:1995, UNLESS OTHERWISE STATED.
7. * DENOTES TO PROVIDE SLOT ON GMS STIFFENER FOR M12 BOLT INSTATION WHERE REQUIRED.

C	GENERALLY REVISED
B	GENERALLY REVISED
A	ZINC PRIMER ADDED

REVS.	15.11.07	25.05.17	25.05.20								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	MS FONG	MS FONG								

CLP 中電

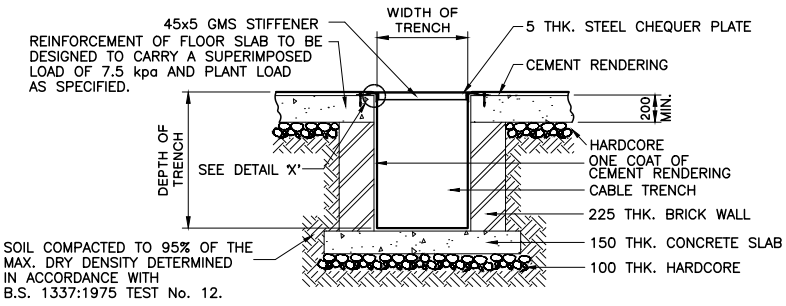
DRAWN:	M. S. FONG	DATE:	25-05-2020
CHECKED:	M. S. FONG	APPROVED:	GARY KWOK
SCALE:	AS SHOWN	SHEET(S) IN SET:	

TITLE :

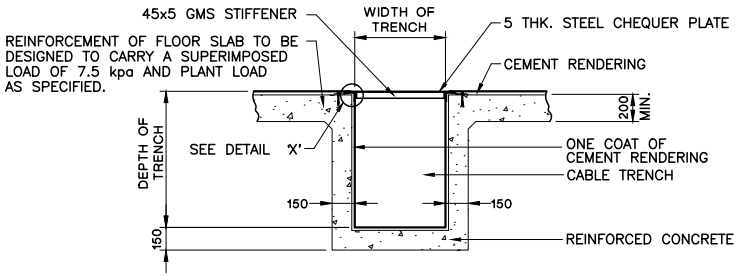
TYPICAL DETAILS OF CABLE TRENCH (SHEET 1 OF 3)

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 3 1 0 C A

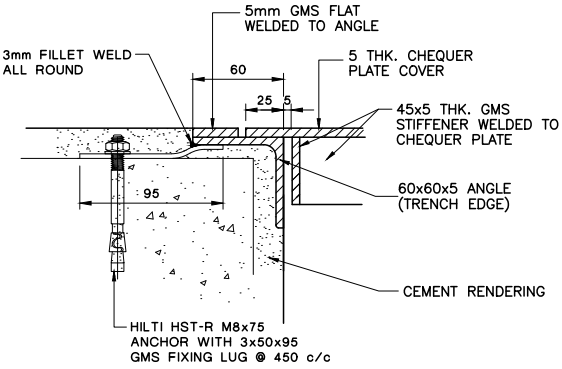


TYPICAL CROSS SECTION OF TRENCH ON SOLID GROUND



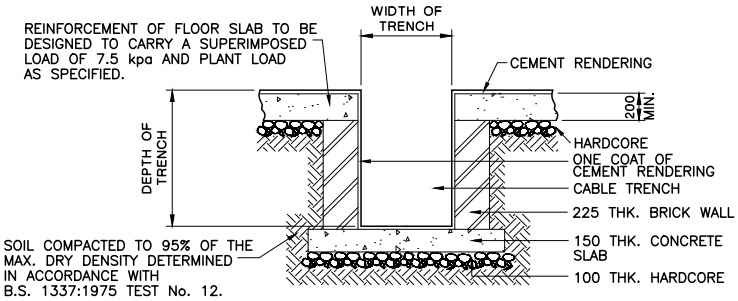
CABLE TRENCH FOR INDOOR SUBSTATION

TYPICAL CROSS SECTION OF SUSPENDED TRENCH

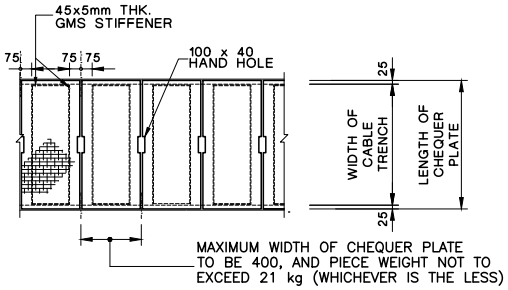


DETAIL AT 'X' (SCALE 1 : 5)

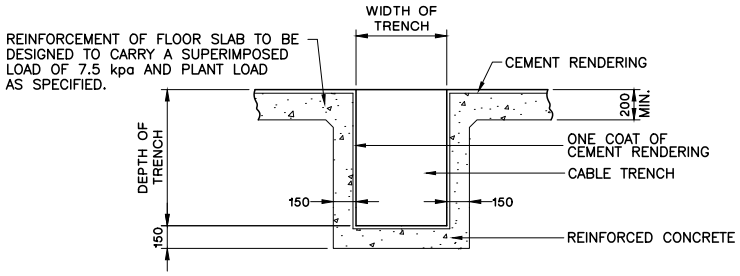
NOTE: TYPICAL FIXING DETAIL FOR CABLE TRENCH EDGE ANGLE



TYPICAL CROSS SECTION OF TRENCH ON SOLID GROUND



DETAIL OF CHEQUER PLATE



CABLE TRENCH FOR OUTDOOR SUBSTATION

TYPICAL CROSS SECTION OF R.C. TRENCH

NOTES:

1. CHEQUER PLATE TO BE CUT TO SIZE AND FITTED IN POSITION UNDER THE DIRECTION OF CLP POWER ON SITE.
2. ALL CHEQUER PLATES SHALL BE NUMBERED IN SEQUENCE.
3. ALL STEELWORK SHALL BE HOT DIP GALVANISED AND FINISHED WITH ONE COAT OF CALCIUM PLUMBATE OR ZINC PHOSPHATE PRIMER AND TWO FINISHING COATS OF SYNTHETIC PAINT.
4. CONCRETE STRENGTH MINIMUM 30N/mm² IN 28 DAYS.

D	GENERAL REVISED
C	NOTES 5 DELETED & TRENCH COVER REVISED

REVS.	13-9-04	15.11.07	25.05.17	25.05.20							
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C	K.C.C	MS FONG	MS FONG							

CLP 中電

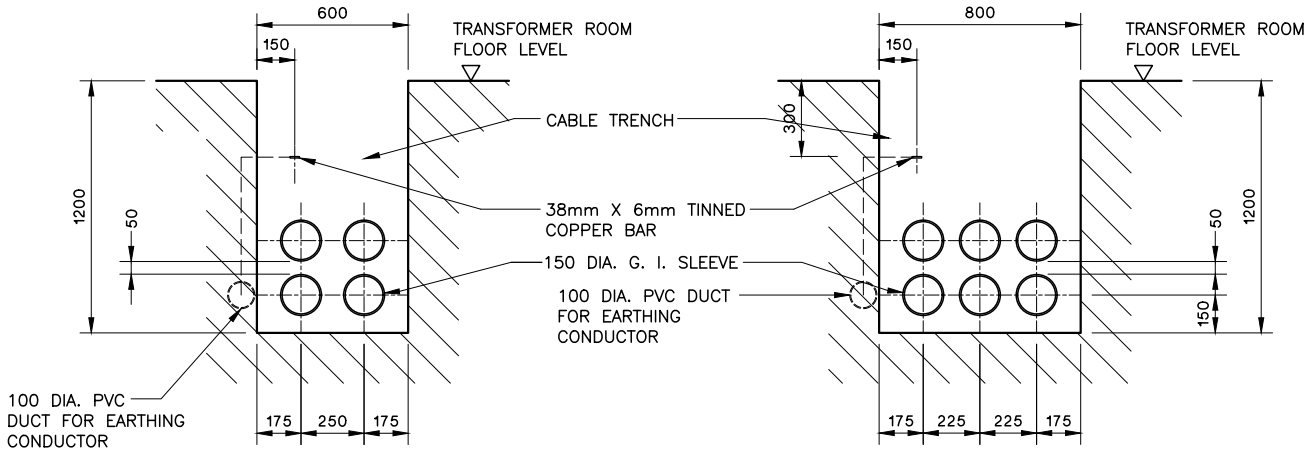
DRAWN:	M. S. FONG	DATE:	25-05-2020
CHECKED:	M. S. FONG	APPROVED:	GARY KWOK
SCALE:	AS SHOWN	SHEET(S) IN SET:	

TITLE :

TYPICAL DETAILS OF CABLE TRENCH (SHEET 2 OF 3)

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010311DA



ARRANGEMENT OF 4 NOS. 150 DIA. G. I. SLEEVE

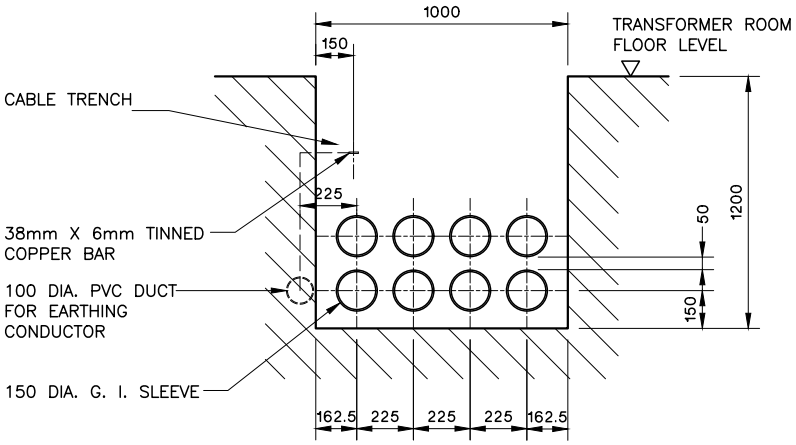
ELEVATION

(LOOKING FROM INSIDE OF TRANSFORMER ROOM)

ARRANGEMENT OF 6 NOS. 150 DIA. G. I. SLEEVE

ELEVATION

(LOOKING FROM INSIDE OF TRANSFORMER ROOM)



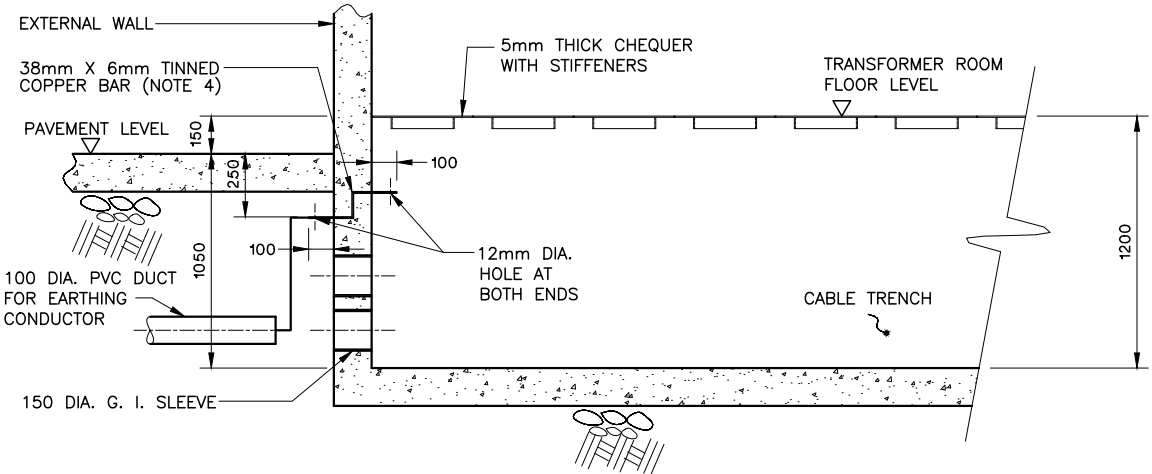
ARRANGEMENT OF 8 NOS. 150 DIA. G. I. SLEEVE

ELEVATION

(LOOKING FROM INSIDE OF TRANSFORMER ROOM)

NOTES:

1. THE BARRIER AROUND THE G. I. SLEEVES SHALL BE WATERPROOF.
2. 38mm X 6mm TINNED COPPER EARTHING BAR TO BE PROVIDED AND INSTALLED BY CUSTOMER.
3. DEPTH OF CABLE TRENCH IS 1200mm ACCORDING TO THE TRANSFORMER ROOM LAYOUT PLAN.
4. AN EARTHING CONDUCTOR NOT LESS THAN 38mm X 6mm IN SIZE SHALL BE EXTENDED VIA DUCTS TO THE FIRST CABLE DRAW PIT INSIDE THE SITE OWNED BY THE CUSTOMER.



SECTION ALONG TRENCH OUTLET

G	CHEQUER PLATE WIDTH UPDATED	F	CHEQUER PLATE DETAILS REVISED	E	G.I. SLEEVE SIZE AND DEPTH OF CABLE TRENCH UPDATED. EARTHING DETAIL ADDED.

REVS.	14-9-04	28-01-05	05-11-07	26-03-12	18.03.14	25.03.17	25.05.20				
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C	K.C.C	K.C.C	K.C.C	H.T.YU	MS FONG	MS FONG				

CLP 中電

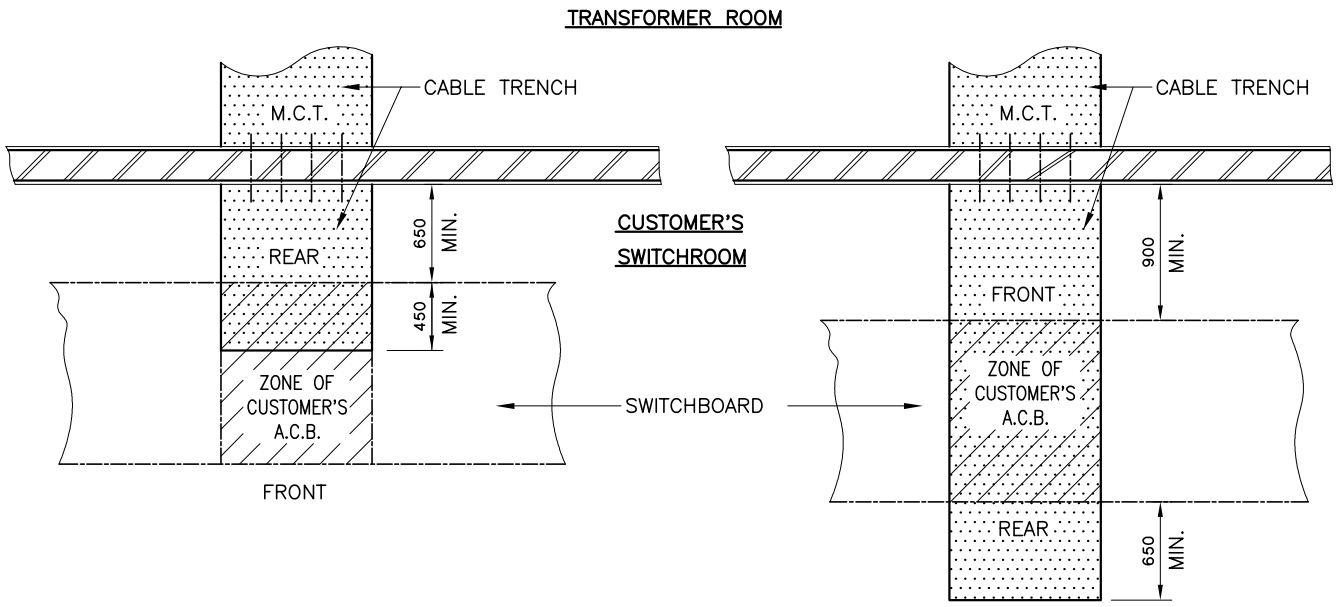
TITLE :

TYPICAL DETAILS OF CABLE TRENCH (SHEET 3 OF 3)

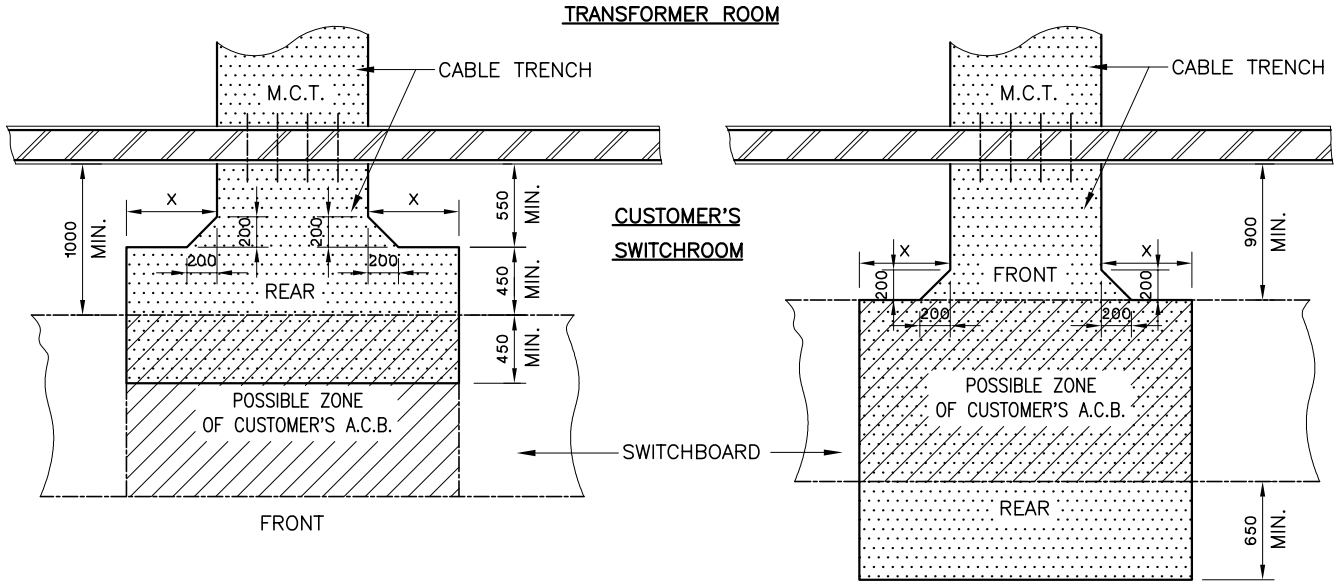
DRAWN:	M. S. FONG	DATE:	20-05-2020
CHECKED:	M. S. FONG	APPROVED:	GARY KWOK
SCALE:	AS SHOWN	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010312GA



CUSTOMER'S A.C.B. IN LINE WITH M.C.T.



CUSTOMER'S A.C.B. NOT IN LINE WITH M.C.T.

NOTES:

1. X TO BE EXTENDED TO THE POSSIBLE ZONE OF CUSTOMER'S MAIN A.C.B..
2. WIDTH AND DEPTH OF CABLE TRENCH, IF NOT SPECIFIED, SHOULD CORRESPOND TO THAT IN THE TRANSFORMER ROOM.

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

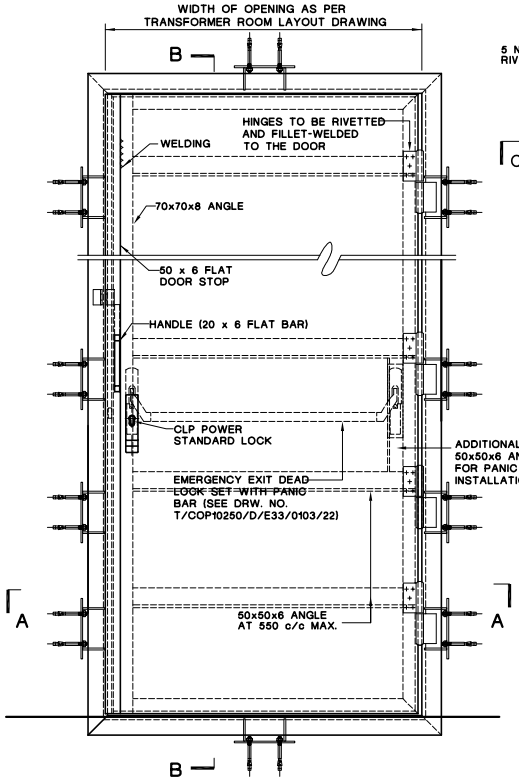
TITLE :

CABLE TRENCH FOR ACCOMMODATING CLP POWER SINGLE-CORE CABLES IN CUSTOMER MAIN SWITCHROOM

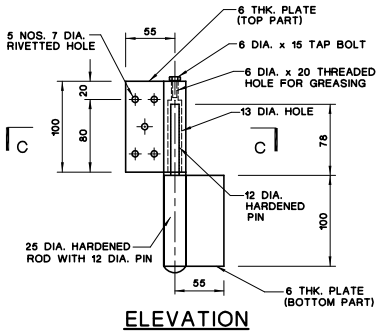
DRAWN:	S. C. TO	DATE:	26-07-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	1 : 50 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

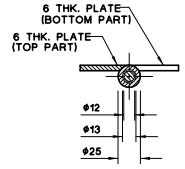
DRG. NO. TCOP10250DE3010313-A



ELEVATION

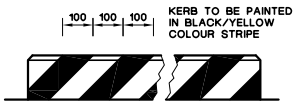


ELEVATION

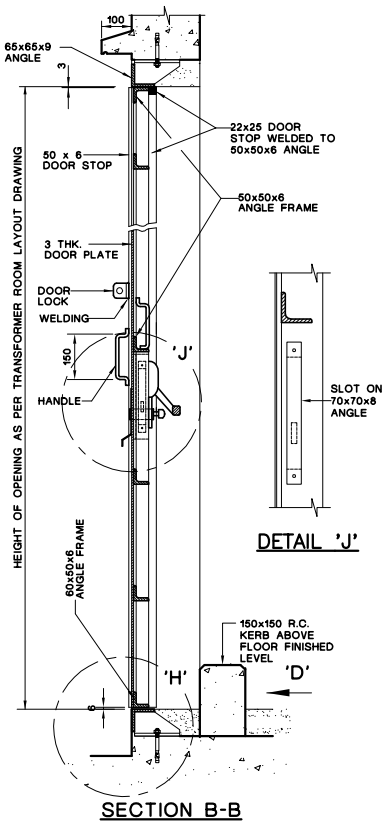


SECTION C-C

DETAIL OF HINGE

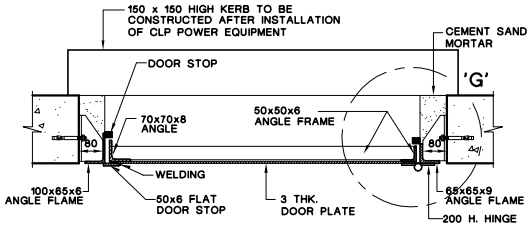


VIEW D

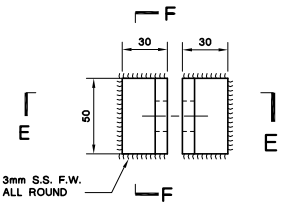


DETAIL 'J'

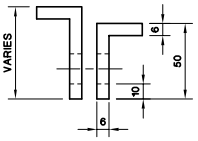
SECTION B-B



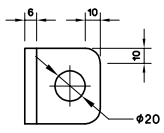
SECTION A-A



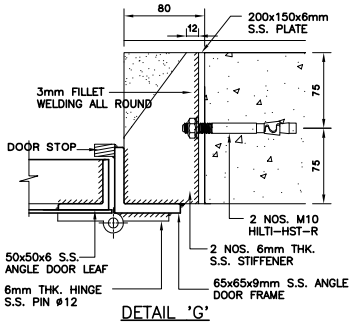
DETAIL OF DOOR LOCK



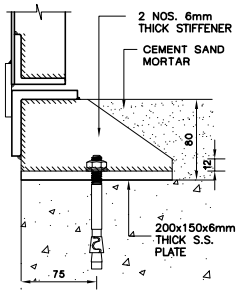
SECTION E-E



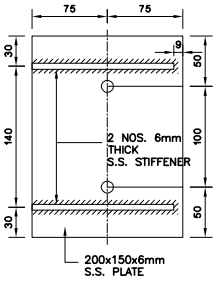
SECTION F-F



DETAIL 'G'



DETAIL 'H'



BASE PLATE OF S.S. STEEL BRACKET

TYPICAL STEEL BRACKET FIXING DETAIL

NOTE: SPACING OF STEEL BRACKET TO BE 450 c/c.

NOTES:

1. ALL CONNECTIONS FOR STAINLESS STEEL WORKS SHALL BE 3mm S.S. FILLET WELD ALL ROUND, EXCEPT 3mm INTERMITTENT FILLET WELD 30@300 C/C FOR FIXING OF 3mm THICK STAINLESS STEEL PLATE.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm².
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.
6. THE DEVELOPER/CONTRACTOR IS REPONSIBLE TO CHECK WITH A STRUCTURAL SUBMISSION FOR THE STEEL DOOR AND BRACKETS. PARTICULARLY TO CATER FOR THE DESIGN WIND PRESSURE TO MATCH THE BUILDING HEIGHT. THE DESIGN WIND LOAD SHALL COMPLY WITH CLAUSE 6 OF CODE OF PRACTICE ON WIND EFFECTS HONG KONG 2004.

		D	GENERALLY REVISED
C	AMENDMENT OF DESCRIPTION TO VIEW 'C'	A	PAINTING ON THE DOOR KERB AND DOOR LOCK DETAIL ADDED
B	S.S. ANGLE BRACKETS ON DOOR ADDED		

REVS.	13.9.04	13.10.09	18.03.14	01.06.17							
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C	K.C.C	H.T.YU	M.S.FONG							

CLP 中電

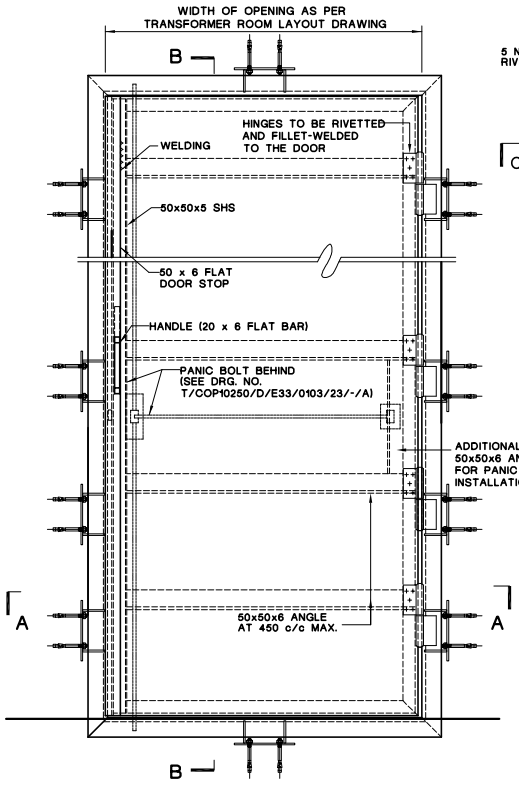
DRAWN:	M. S. FONG	DATE:	1-3-2016
CHECKED:	M. S. FONG	APPROVED:	GARY KWOK
SCALE:	AS SHOWN	SHEET(S) IN SET:	

TITLE :

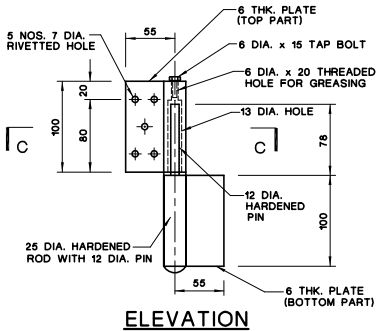
TYPICAL DETAILS OF SINGLE LEAF STAINLESS STEEL DOOR

ASSET MANAGEMENT

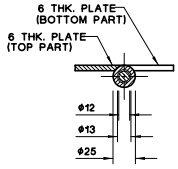
DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 3 1 4 D A



ELEVATION

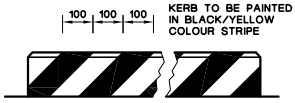


ELEVATION

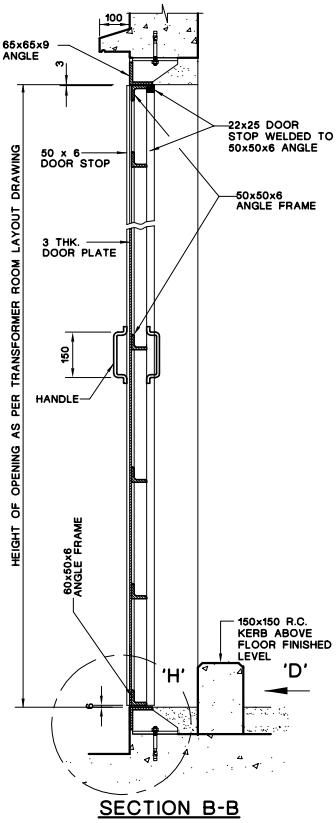


SECTION C-C

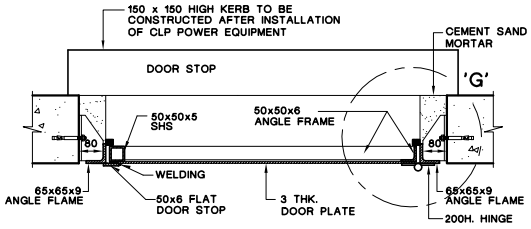
DETAIL OF HINGE



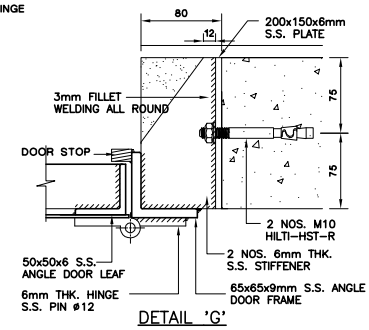
VIEW D



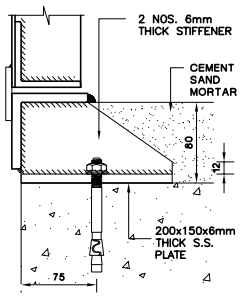
SECTION B-B



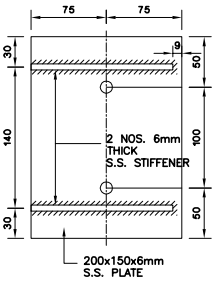
SECTION A-A



DETAIL 'G'



DETAIL 'H'



BASE PLATE OF S.S. STEEL BRACKET

TYPICAL STEEL BRACKET FIXING DETAIL

NOTE: SPACING OF STEEL BRACKET TO BE 450 c/c.

NOTES:

1. ALL CONNECTIONS FOR STAINLESS STEEL WORKS SHALL BE 3mm S.S. FILLET WELD ALL ROUND, EXCEPT 3mm INTERMITTENT FILLET WELD 30@300 C/C FOR FIXING OF 3mm THICK STAINLESS STEEL PLATE.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm².
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.
6. THE DEVELOPER/CONTRACTOR IS REPONSIBLE TO CHECK WITH A STRUCTURAL SUBMISSION FOR THE STEEL DOOR AND BRACKETS. PARTICULARLY TO CATER FOR THE DESIGN WIND PRESSURE TO MATCH THE BUILDING HEIGHT. THE DESIGN WIND LOAD SHALL COMPLY WITH CLAUSE 6 OF CODE OF PRACTICE ON WIND EFFECTS HONG KONG 2004.

		D	GENERALLY REVISED
C	AMENDMENT OF DESCRIPTION TO VIEW 'C'	B	S.S. ANGLE BRACKETS ON DOOR ADDED
		A	PAINTING ON THE DOOR KERB AND DOOR LOCK DETAIL ADDED

REVS.	13.9.04	13.10.09	18.03.14	01.06.17							
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C	K.C.C	H.T.YU	M.S.FONG							

CLP 中電

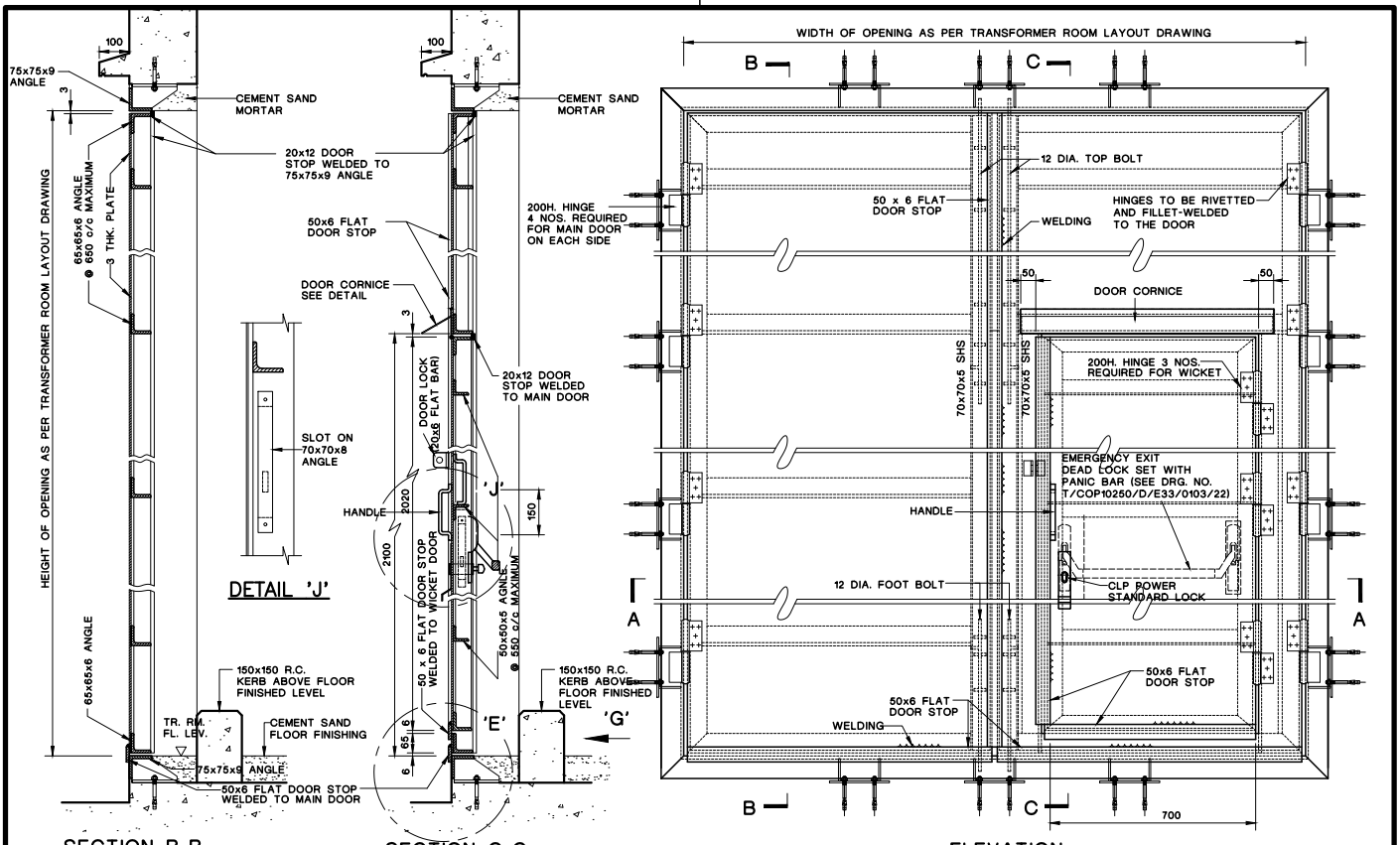
DRAWN:	M. S. FONG	DATE:	01-03-2016
CHECKED:	M. S. FONG	APPROVED:	GARY KWOK
SCALE:	AS SHOWN	SHEET(S) IN SET:	

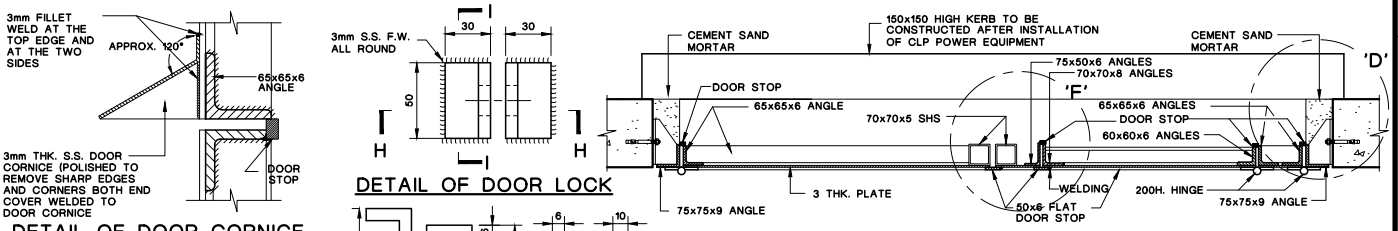
TITLE :

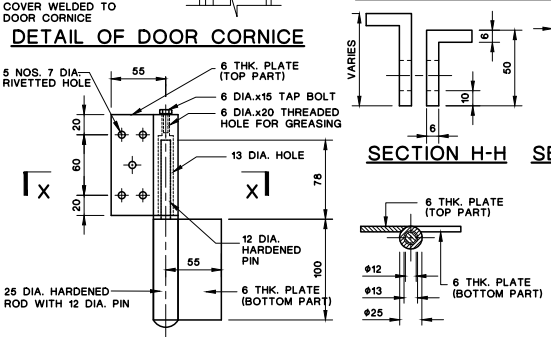
TYPICAL DETAILS OF SINGLE LEAF STAINLESS STEEL DOOR FOR WITHOUT LOCK

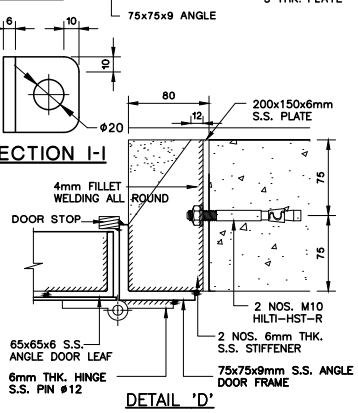
ASSET MANAGEMENT

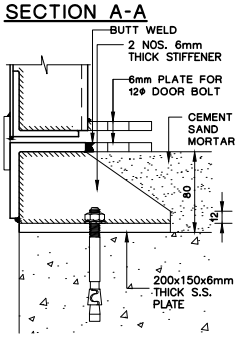
DRG. NO. T/COP/10250/D/E33/0103/15/D/A

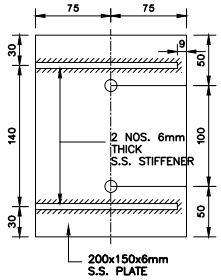






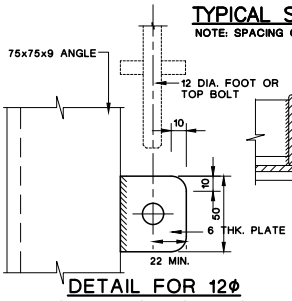






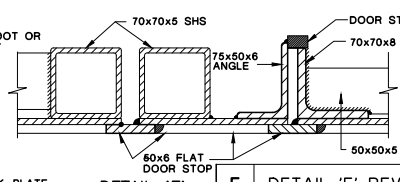
NOTES:

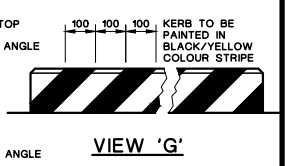
1. ALL CONNECTIONS FOR STAINLESS STEEL WORKS SHALL BE 3mm S.S. FILLET WELD ALL ROUND, EXCEPT 3mm INTERMITTENT FILLET WELD 30@300 C/C FOR FIXING OF 3mm THICK STAINLESS STEEL PLATE.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm².
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.
6. THE DEVELOPER/CONTRACTOR IS REPONSIBLE TO CHECK WITH A STRUCTURAL SUBMISSION FOR THE STEEL DOOR AND BRACKETS. PARTICULARLY TO CATER FOR THE DESIGN WIND PRESSURE TO MATCH THE BUILDING HEIGHT. THE DESIGN WIND LOAD SHALL COMPLY WITH CLAUSE 6 OF CODE OF PRACTICE ON WIND EFFECTS HONG KONG 2004.



TYPICAL STEEL BRACKET FIXING DETAIL

NOTE: SPACING OF STEEL BRACKET TO BE 450 c/c OR IN ACCORDING WITH THE STRUCTURAL DESIGN.





F	DETAIL 'E' REVISED
E	DIMENSION ADDED
D	GENERALLY REVISED

REVS.	13-9-04	10-8-09	18-03-14	01.06.17	25.06.19	08.06.20					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	H.T.YU	M.S.FONG	H.T.YU	H.T.YU					

CLP 中電

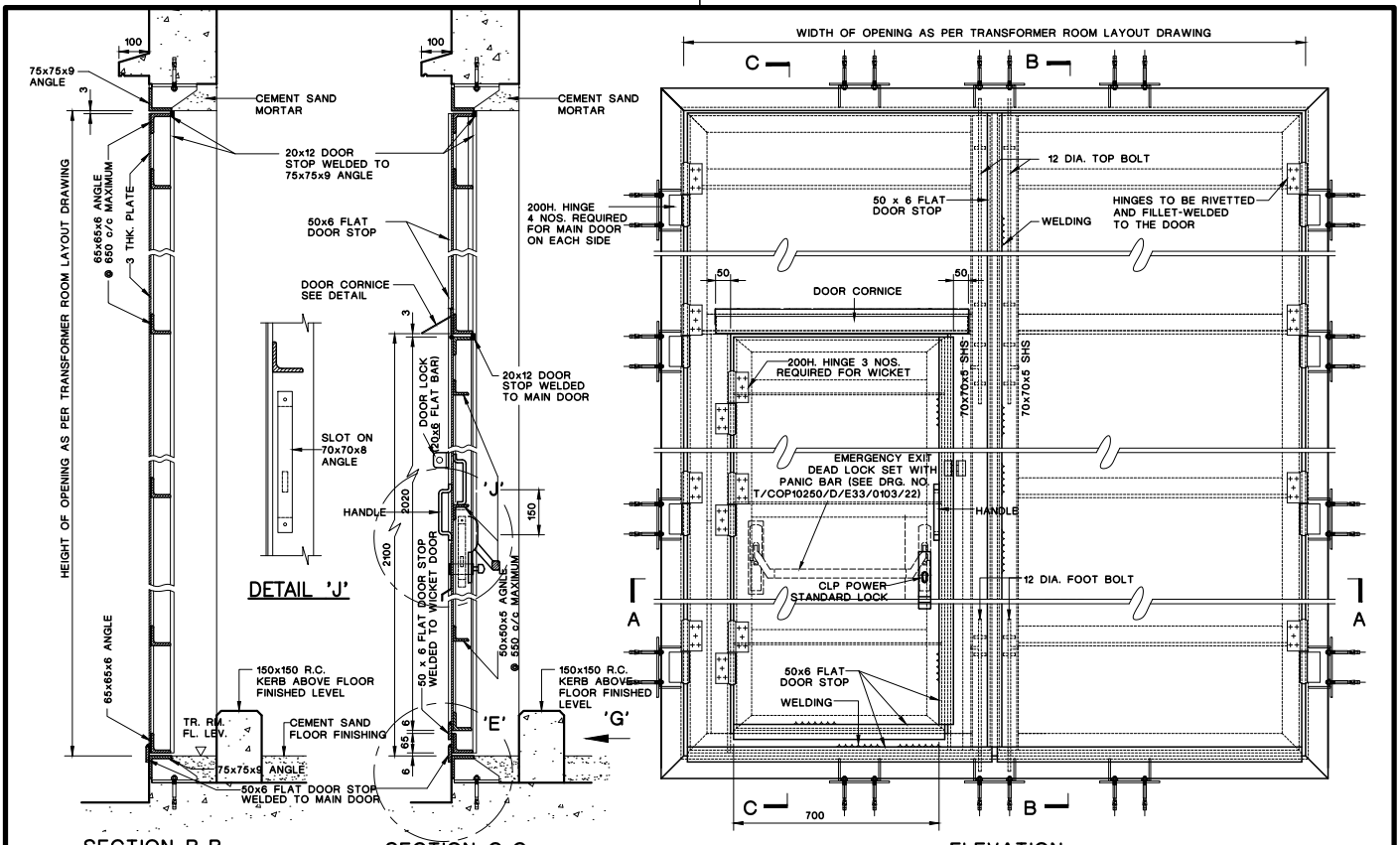
DRAWN:	FONG, MING SUM	DATE:	01-03-2016
CHECKED:	FONG, MING SUM	APPROVED:	GARY KWOK
SCALE:	N. T. S.	SHEET(S) IN SET:	

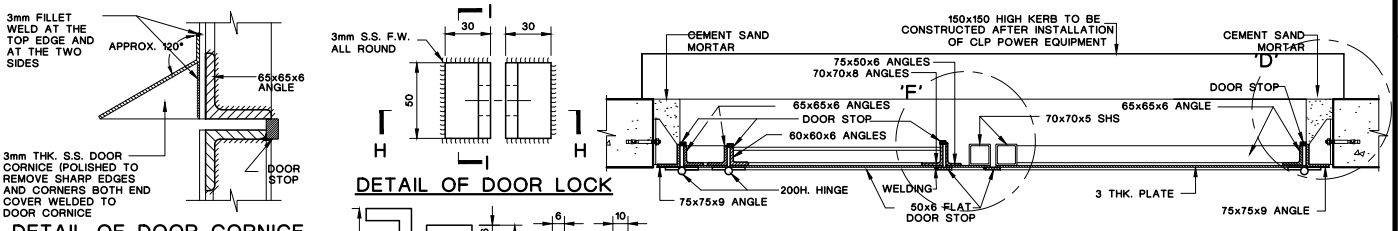
TITLE :

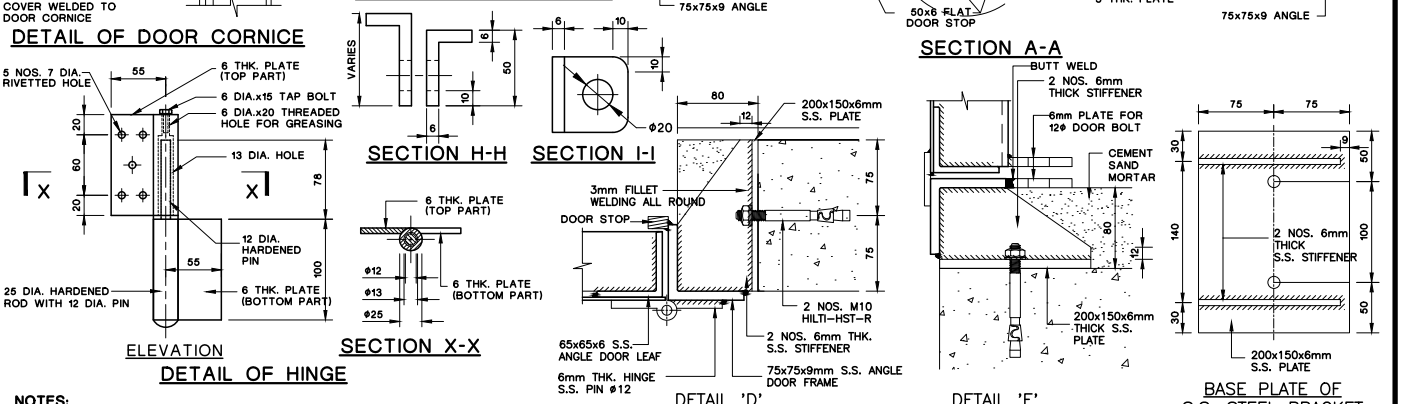
TYPICAL DETAILS OF DOUBLE LEAF STAINLESS STEEL DOOR WITH WICKET ON THE RIGHT

ASSET MANAGEMENT

DRG. NO. T COP 10250 D E33 0103 16 F A

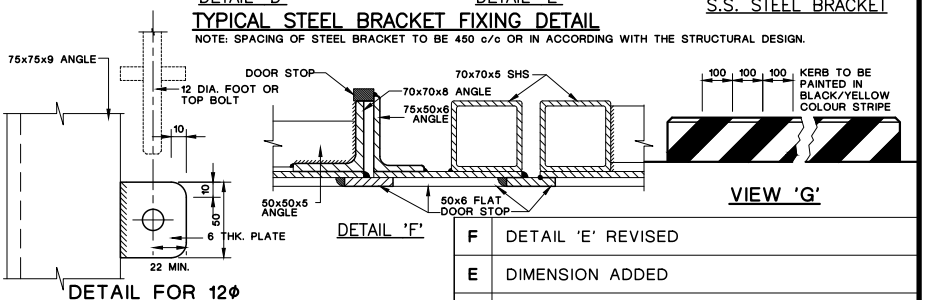






NOTES:

1. ALL CONNECTIONS FOR STAINLESS STEEL WORKS SHALL BE 3mm S.S. FILLET WELD ALL ROUND, EXCEPT 3mm INTERMITTENT FILLET WELD 30@300 C/C FOR FIXING OF 3mm THICK STAINLESS STEEL PLATE.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm².
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.
6. THE DEVELOPER/CONTRACTOR IS REPONSIBLE TO CHECK WITH A STRUCTURAL SUBMISSION FOR THE STEEL DOOR AND BRACKETS. PARTICULARLY TO CATER FOR THE DESIGN WIND PRESSURE TO MATCH THE BUILDING HEIGHT. THE DESIGN WIND LOAD SHALL COMPLY WITH CLAUSE 6 OF CODE OF PRACTICE ON WIND EFFECTS HONG KONG 2004.



F	DETAIL 'E' REVISED
E	DIMENSION ADDED
D	GENERALLY REVISED

REVS.	13-9-04	10-8-09	18-03-14	01-06-17	25-06-19	08.06.20					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	H.T.YU	M.S.FONG	H.T.YU	H.T.YU					

CLP 中電

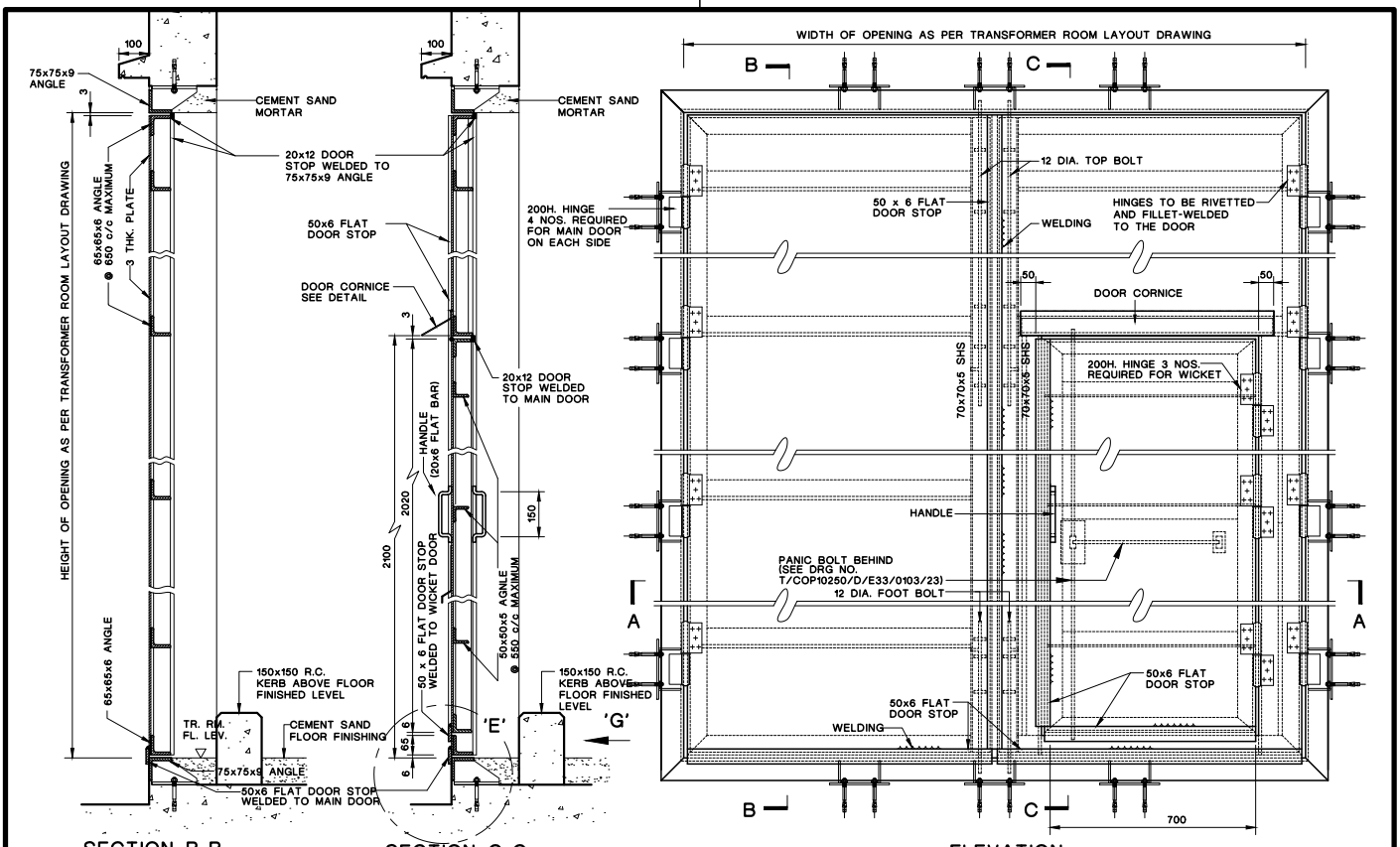
DRAWN:	FONG, MING SUM	DATE:	01-03-2016
CHECKED:	FONG, MING SUM	APPROVED:	GARY KWOK
SCALE:	N. T. S.	SHEET(S) IN SET:	

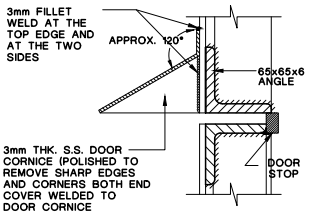
TITLE :

TYPICAL DETAILS OF DOUBLE LEAF STAINLESS STEEL DOOR WITH WICKET ON THE LEFT

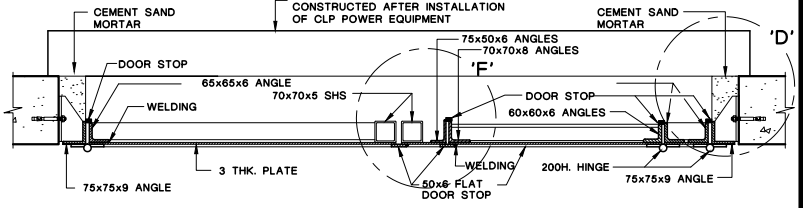
ASSET MANAGEMENT

DRG. NO. TCOP10250DE33010317FA

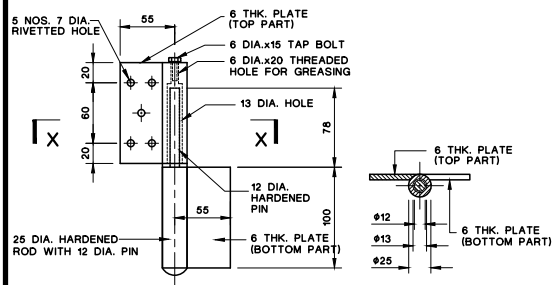




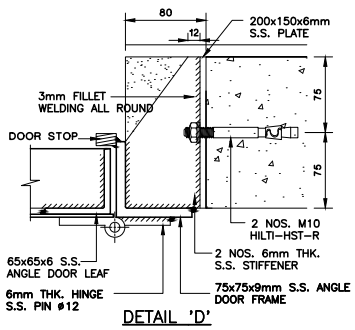
DETAIL OF DOOR CORNICE



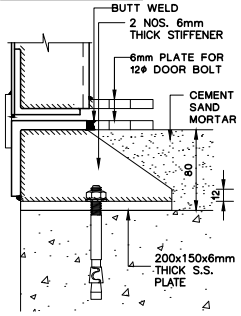
SECTION A-A



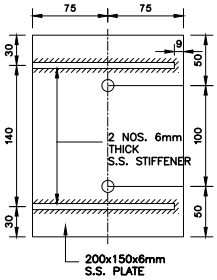
DETAIL OF HINGE



DETAIL 'D'



DETAIL 'E'



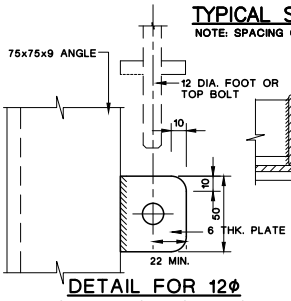
BASE PLATE OF S.S. STEEL BRACKET

NOTES:

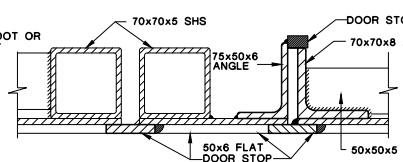
1. ALL CONNECTIONS FOR STAINLESS STEEL WORKS SHALL BE 3mm S.S. FILLET WELD ALL ROUND, EXCEPT 3mm INTERMITTENT FILLET WELD 30@300 C/C FOR FIXING OF 3mm THICK STAINLESS STEEL PLATE.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm².
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.
6. THE DEVELOPER/CONTRACTOR IS REPONSIBLE TO CHECK WITH A STRUCTURAL SUBMISSION FOR THE STEEL DOOR AND BRACKETS. PARTICULARLY TO CATER FOR THE DESIGN WIND PRESSURE TO MATCH THE BUILDING HEIGHT. THE DESIGN WIND LOAD SHALL COMPLY WITH CLAUSE 6 OF CODE OF PRACTICE ON WIND EFFECTS HONG KONG 2004.

TYPICAL STEEL BRACKET FIXING DETAIL

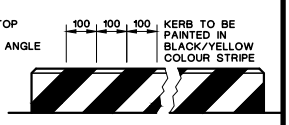
NOTE: SPACING OF STEEL BRACKET TO BE 450 c/c OR IN ACCORDING WITH THE STRUCTURAL DESIGN.



DETAIL FOR 12ø TOP & BOTTOM BOLT



DETAIL 'F'



VIEW 'G'

F	DETAIL 'E' REVISED
E	DIMENSION ADDED
D	GENERALLY REVISED

REVS.	13-9-04	10-8-09	18-03-14	01-06-17	25-06-19	08.06.20					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	H.T.YU	M.S.FONG	H.T.YU	H.T.YU					

CLP 中電

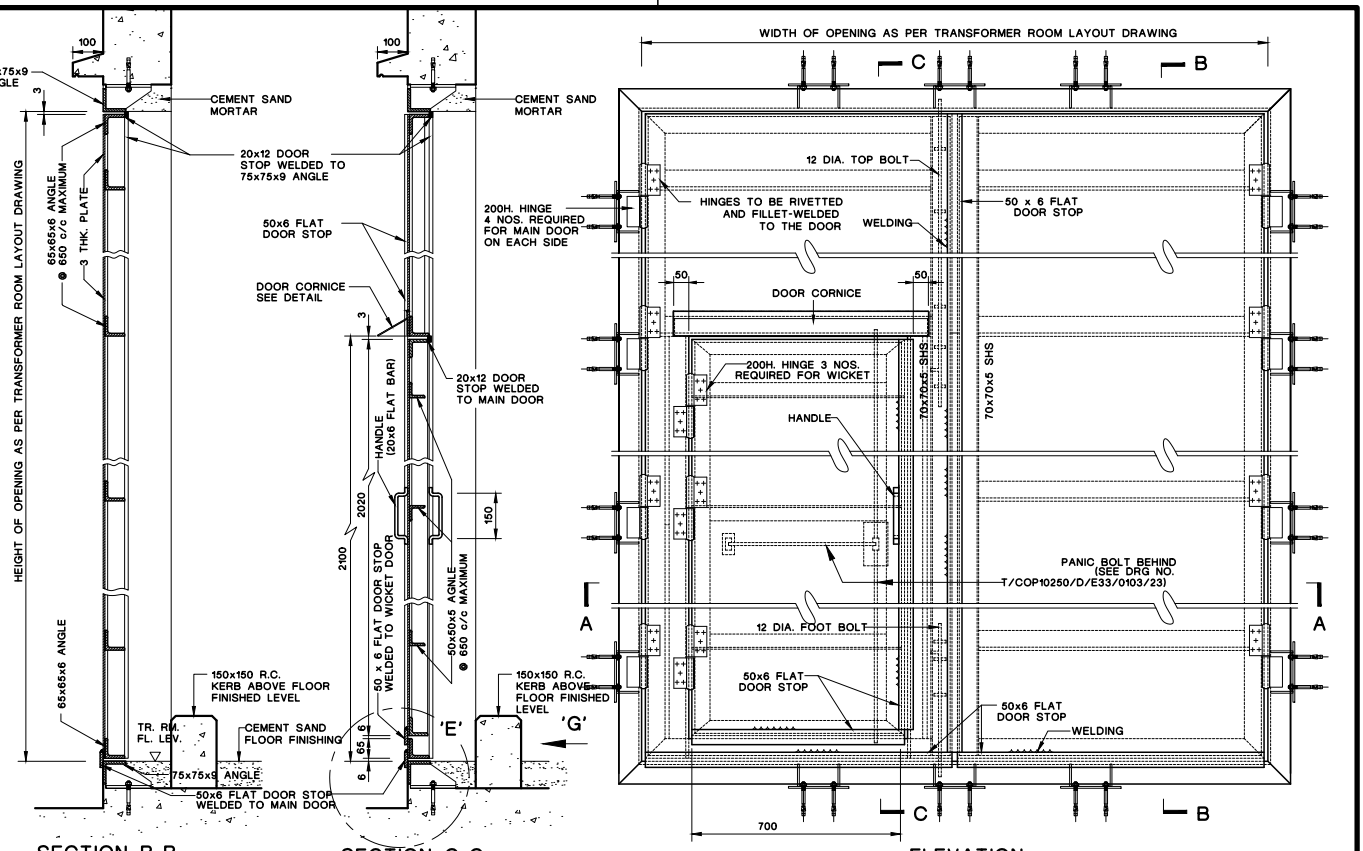
DRAWN:	FONG, MING SUM	DATE:	01-03-2016
CHECKED:	FONG, MING SUM	APPROVED:	GARY KWOK
SCALE:	N. T. S.	SHEET(S) IN SET:	

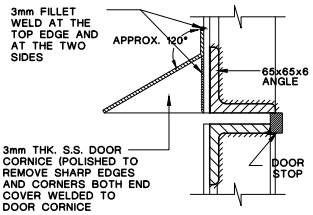
TITLE :

TYPICAL DETAILS OF DOUBLE LEAF STAINLESS STEEL DOOR WITH WICKET ON THE RIGHT AND WITHOUT LOCK

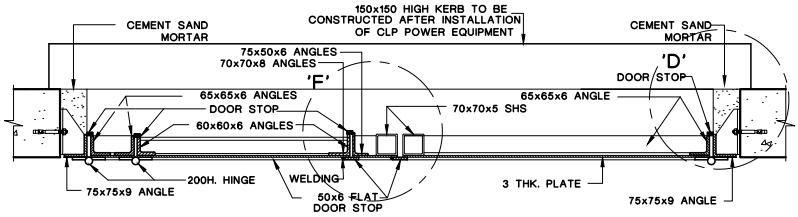
ASSET MANAGEMENT

DRG. NO. T COP 10250 D E33 0103 18 F A

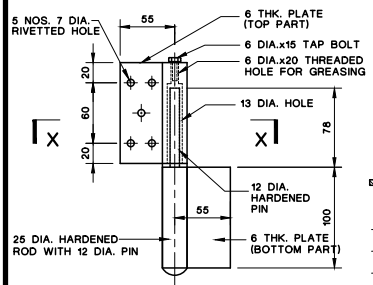




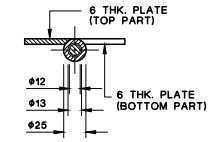
DETAIL OF DOOR CORNICE



SECTION A-A

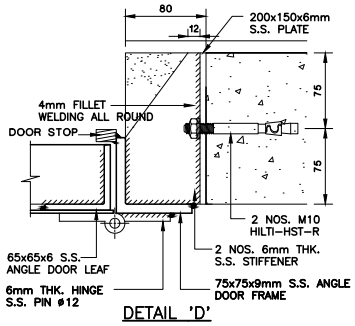


ELEVATION

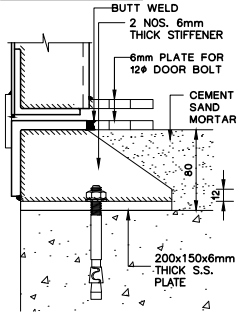


SECTION X-X

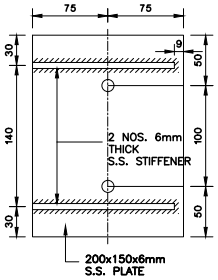
DETAIL OF HINGE



DETAIL 'D'



DETAIL 'E'



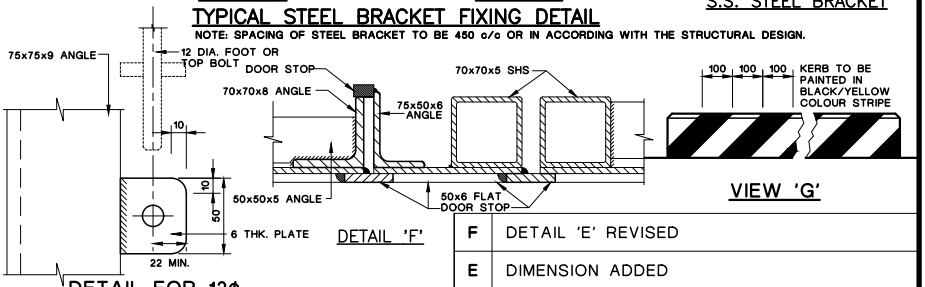
BASE PLATE OF S.S. STEEL BRACKET

NOTES:

1. ALL CONNECTIONS FOR STAINLESS STEEL WORKS SHALL BE 3mm S.S. FILLET WELD ALL ROUND, EXCEPT 3mm INTERMITTENT FILLET WELD 30@300 C/C FOR FIXING OF 3mm THICK STAINLESS STEEL PLATE.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm².
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.
6. THE DEVELOPER/CONTRACTOR IS REPONSIBLE TO CHECK WITH A STRUCTURAL SUBMISSION FOR THE STEEL DOOR AND BRACKETS. PARTICULARLY TO CATER FOR THE DESIGN WIND PRESSURE TO MATCH THE BUILDING HEIGHT. THE DESIGN WIND LOAD SHALL COMPLY WITH CLAUSE 6 OF CODE OF PRACTICE ON WIND EFFECTS HONG KONG 2004.

TYPICAL STEEL BRACKET FIXING DETAIL

NOTE: SPACING OF STEEL BRACKET TO BE 450 c/c OR IN ACCORDING WITH THE STRUCTURAL DESIGN.



DETAIL FOR 12ø TOP & BOTTOM BOLT

DETAIL 'F'

VIEW 'G'

F	DETAIL 'E' REVISED
E	DIMENSION ADDED
D	GENERALLY REVISED

REVS.	13-9-04	10-8-09	18-03-14	01-06-17	25-06-19	08.06.20					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	H.T.YU	M.S.FONG	H.T.YU	H.T.YU					

CLP 中電

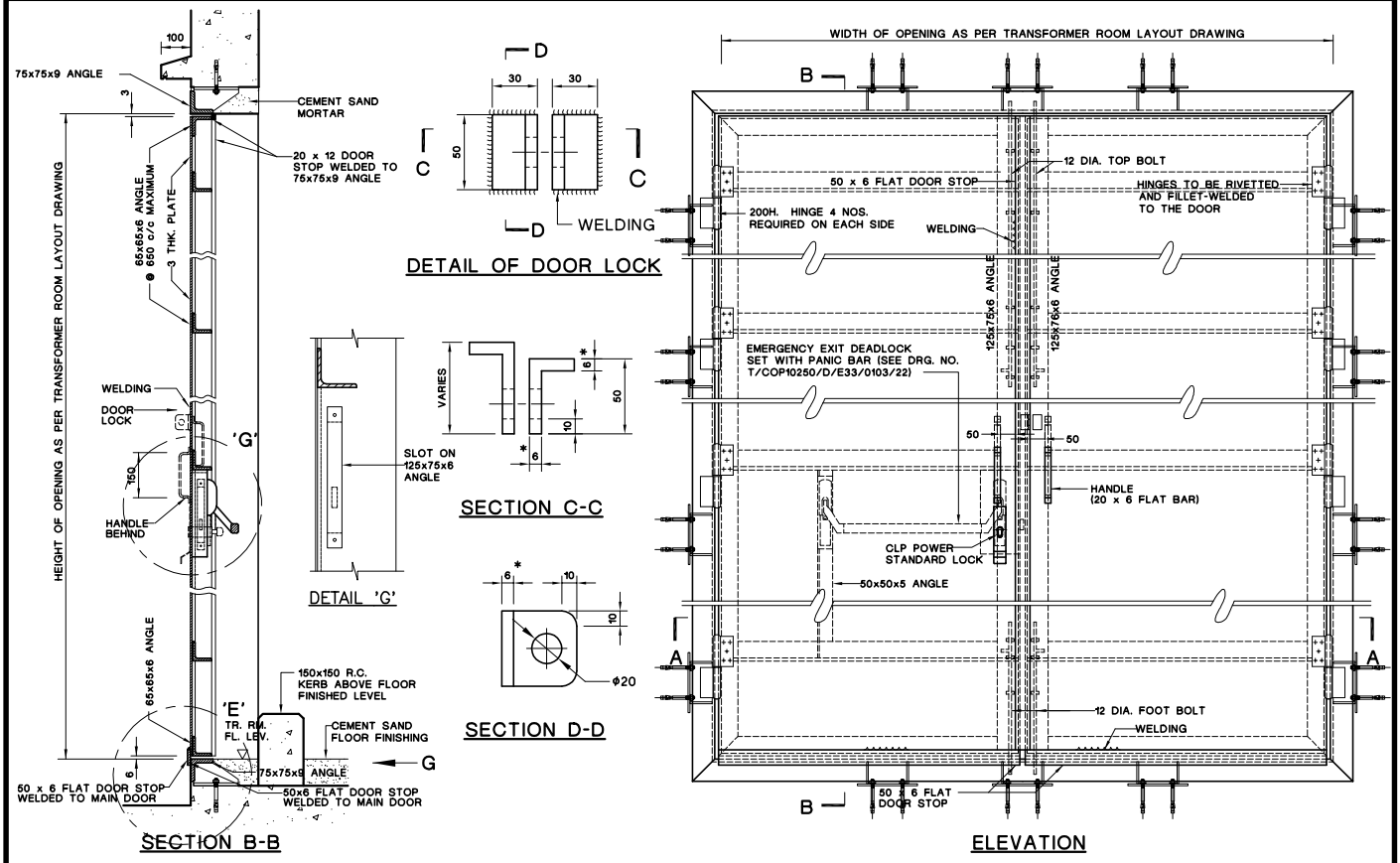
DRAWN:	FONG, MING SUM	DATE:	01-03-2016
CHECKED:	FONG, MING SUM	APPROVED:	GARY KWOK
SCALE:	N. T. S.	SHEET(S) IN SET:	

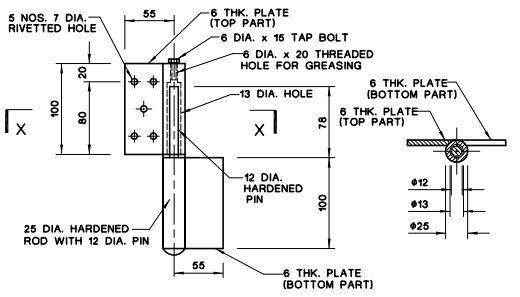
TITLE :

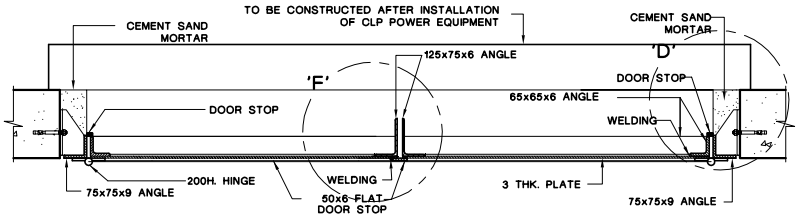
TYPICAL DETAILS OF DOUBLE LEAF STAINLESS STEEL DOOR WITH WICKET ON THE LEFT AND WITHOUT LOCK

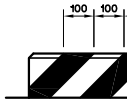
ASSET MANAGEMENT

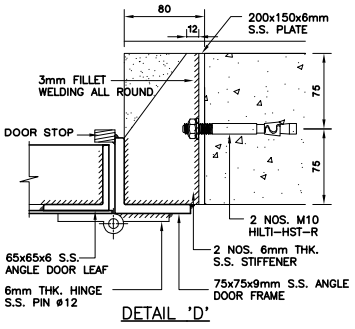
DRG. NO. TCOP10250DE33010319FA

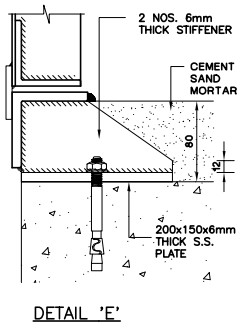


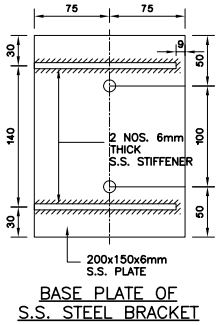












NOTES:

1. ALL CONNECTIONS FOR STAINLESS STEEL WORKS SHALL BE 3mm S.S. FILLET WELD ALL ROUND, EXCEPT 3mm INTERMITTENT FILLET WELD 30@300 C/C FOR FIXING OF 3mm THICK STAINLESS STEEL PLATE.
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4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.
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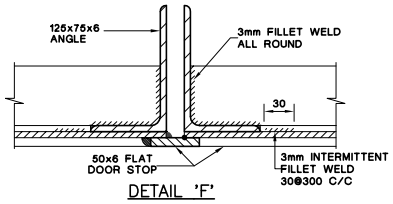
TYPICAL STEEL BRACKET FIXING DETAIL

NOTE: SPACING OF STEEL BRACKET TO BE 450 c/c.



F	DETAIL 'F' REVISED
E	GENERALLY REVISED
D	AMENDMENT OF DESCRIPTION TO VIEW 'C'
C	DISTANCE BETWEEN HANDLES ADJUSTED

REVS.	21.9.04	13.10.09	26.03.12	18.03.14	01.03.16	13.11.18					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	H.T.YU	M.S.FONG	M.S.FONG					

CLP 中電

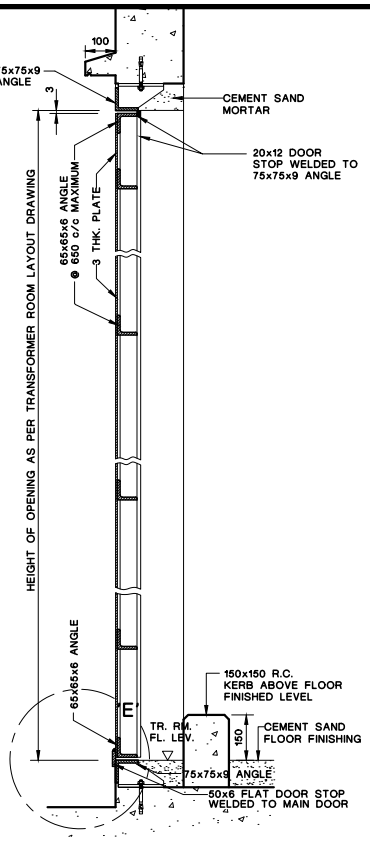
DRAWN:	M. S. FONG	DATE:	13 Nov. 2018
CHECKED:	M. S. FONG	APPROVED:	GARY KWOK
SCALE:	AS SHOWN	SHEET(S) IN SET:	

TITLE :

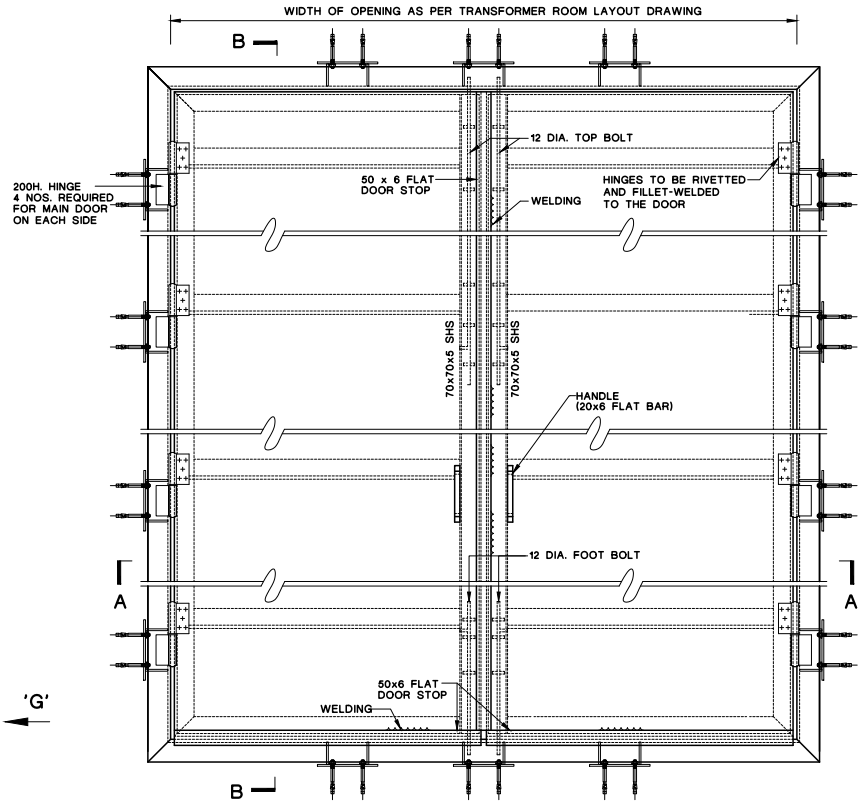
TYPICAL DETAILS OF DOUBLE LEAF STAINLESS STEEL DOOR (1500W x 2500H) FOR H. V. SWITCHGEAR ROOM

ASSET MANAGEMENT

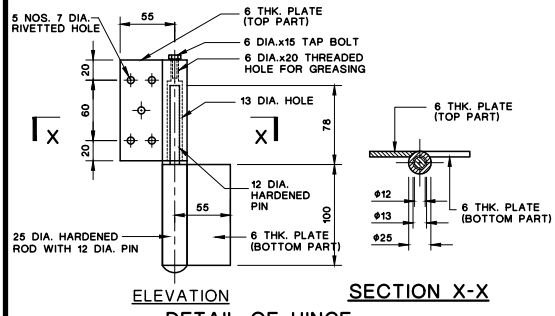
DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 3 2 0 F A



SECTION B-B



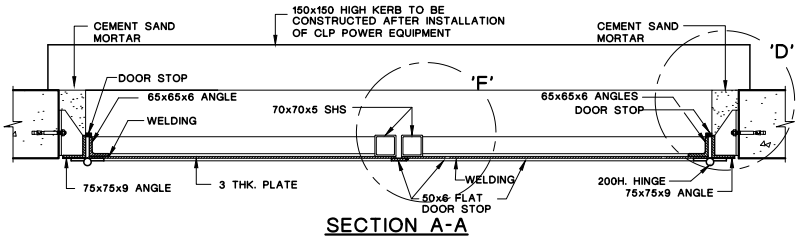
ELEVATION



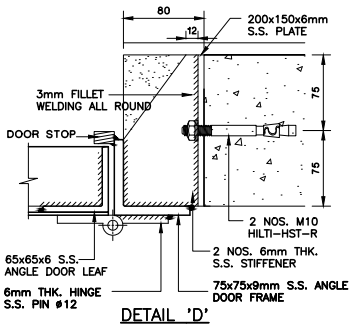
ELEVATION

SECTION X-X

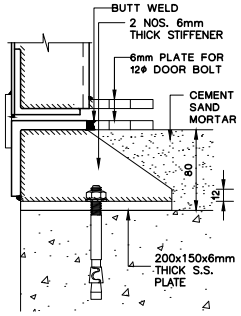
DETAIL OF HINGE



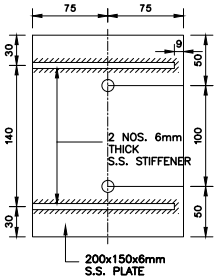
SECTION A-A



DETAIL 'D'



DETAIL 'E'



BASE PLATE OF S.S. STEEL BRACKET

TYPICAL STEEL BRACKET FIXING DETAIL

NOTE: SPACING OF STEEL BRACKET TO BE 450 c/c OR IN ACCORDING WITH THE STRUCTURAL DESIGN.

NOTES:

1. ALL CONNECTIONS FOR STAINLESS STEEL WORKS SHALL BE 3mm S.S. FILLET WELD ALL ROUND, EXCEPT 3mm INTERMITTENT FILLET WELD 30@300 C/C FOR FIXING OF 3mm THICK STAINLESS STEEL PLATE.
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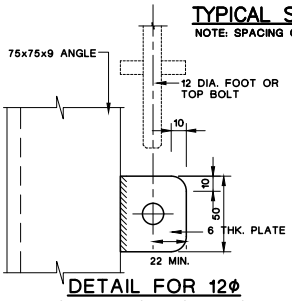
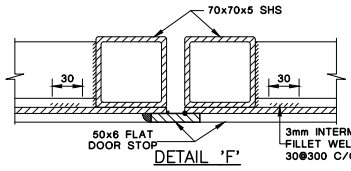
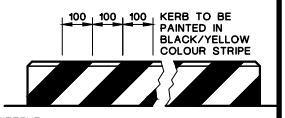


DETAIL FOR 12ø TOP & BOTTOM BOLT



DETAIL 'F'



VIEW 'G'

F	SECTION C DELETED & DETAIL 'E' REVISED
E	GENERALLY REVISED

REVS.	13-9-04	13-10-09	26-03-12	18-03-14	01-06-17	26-05-20					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	H.T.YU	M.S.FONG	M.S.FONG					

CLP 中電

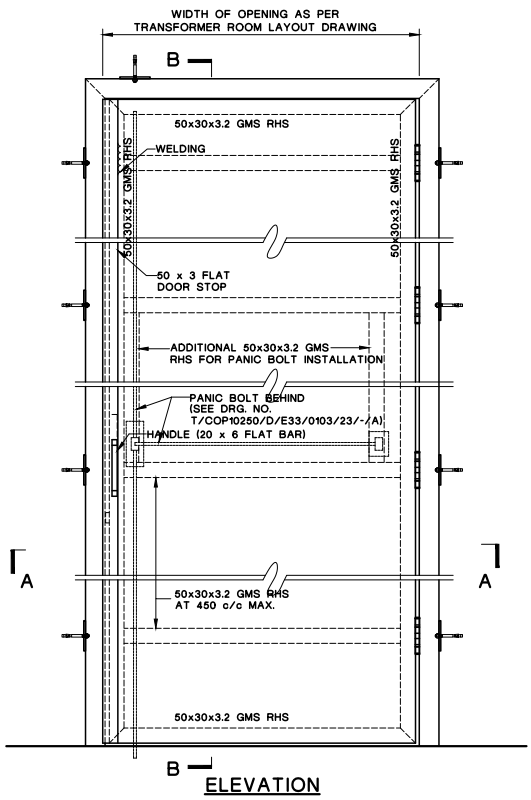
DRAWN:	FONG, MING SUM	DATE:	26-05-2020
CHECKED:	FONG, MING SUM	APPROVED:	GARY KWOK
SCALE:	N. T. S.	SHEET(S) IN SET:	

TITLE :

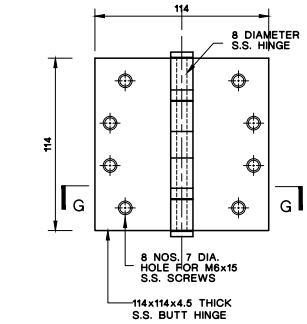
TYPICAL DETAILS OF DOUBLE LEAF STAINLESS STEEL DOOR WITHOUT LOCK

ASSET MANAGEMENT

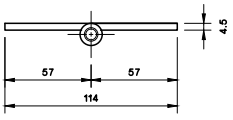
DRG. NO. TCOP10250DE3010321FA



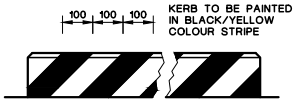
ELEVATION



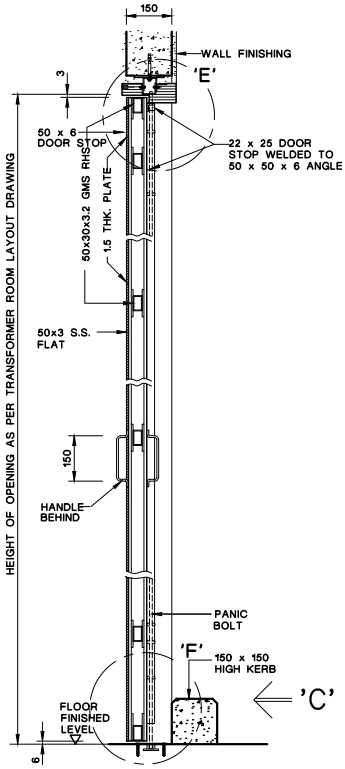
DETAIL OF S.S. BUTT HINGE



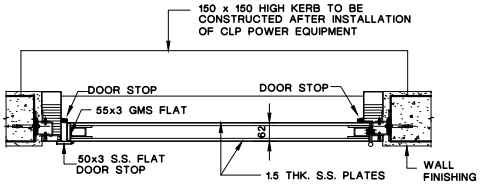
SECTION G-G



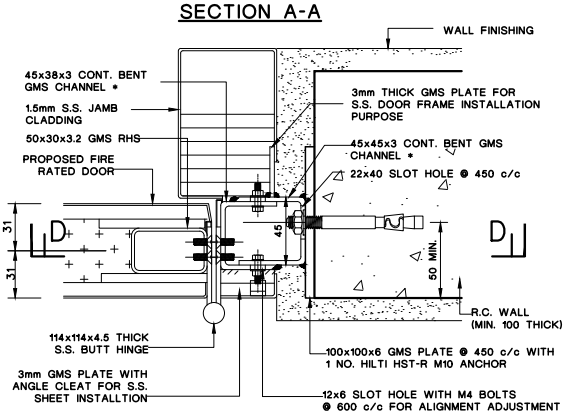
VIEW C



SECTION B-B

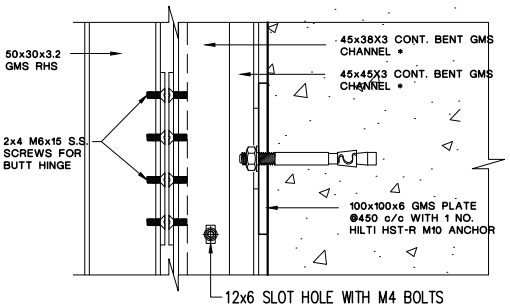


SECTION A-A

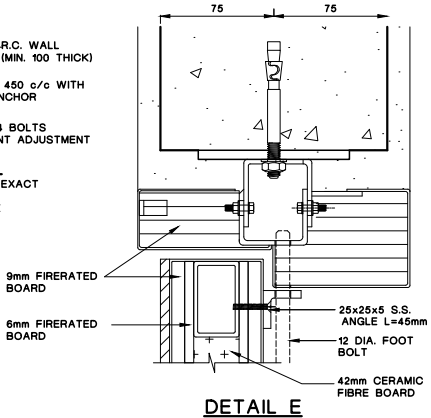


DOOR JAMB/FRAME FIXING DETAIL

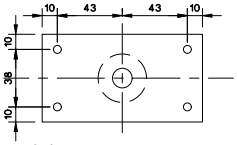
NOTES:
1. * DENOTES SIZE OF STEEL CHANNEL TO SUIT THE EXACT DIMENSION OF S.S. BUTT HINGE SCREW POSITION.
2. S.S. JAMB CLADDING SUPPORTING DETAIL SHALL BE DESIGNED BY THE CONTRACTOR.



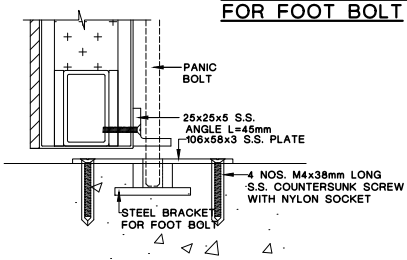
SECTION D-D



DETAIL E



FLOOR PLATE DETAIL FOR FOOT BOLT



DETAIL F

NOTES:

1. ALL CONNECTIONS FOR STAINLESS AND G.M.S. STEEL WORKS SHALL SHALL BE 3mm S.S. FILLET WELD, OR 3mm FILLET WELDED FOR G.M.S. ALL ROUND.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm^2.
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.
6. THE DEVELOPER'S CONSULTANT SHOULD ENSURE THAT THE RELEVANT FIRE CERTIFICATE IS AVAILABLE AT PRELIMINARY DESIGN STAGE FOR THE FRR DOOR (WHERE APPLICABLE) SUCH THAT THE PROPOSED FRR DOOR WOULD COMPLY WITH ALL OTHER RELEVANT REGULATIONS, SUCH AS WIND LOAD REQUIREMENTS WHEN THE DOOR IS FACING EXTERNAL AIR.

A	NOTE 6 ADDED

REVS.	19.06.20										
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	H.T.YU										

CLP 中電

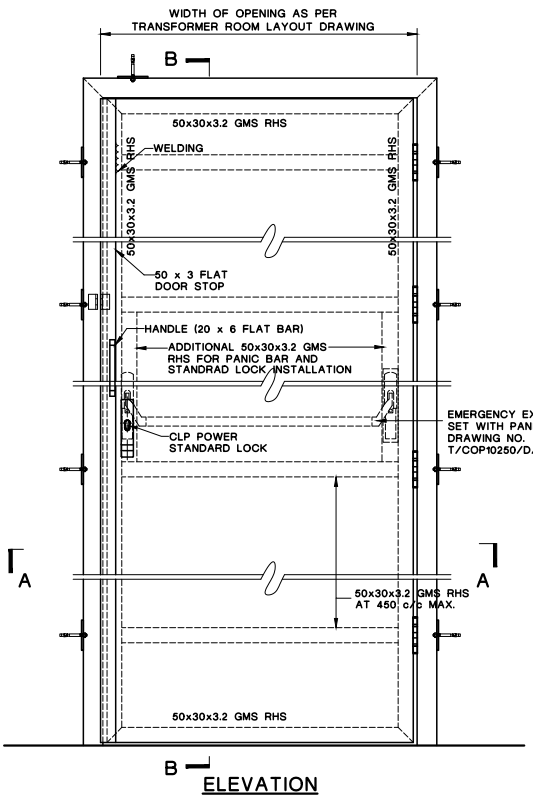
DRAWN:	M. S. FONG	DATE:	01-03-2016
CHECKED:	M. S. FONG	APPROVED:	GARY KWOK
SCALE:	AS SHOWN	SHEET(S) IN SET:	

TITLE :

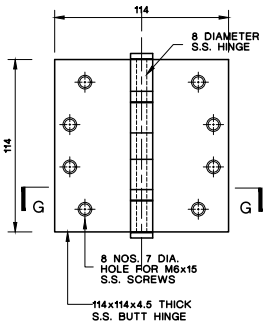
FOR FIRE RATED DOOR WITH INSULATION TYPICAL DETAILS OF SINGLE LEAF LAMINATED STEEL DOOR WITHOUT LOCK

ASSET MANAGEMENT

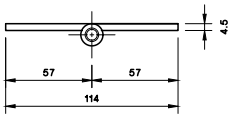
DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 3 3 3 A A



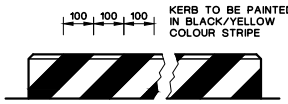
ELEVATION



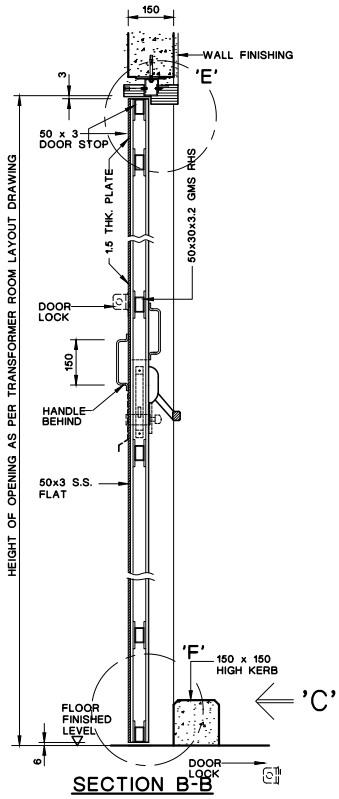
DETAIL OF S.S. BUTT HINGE



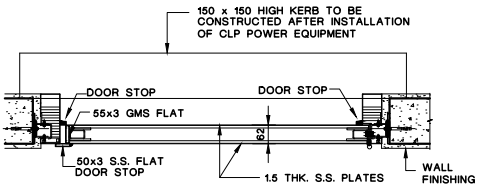
SECTION G-G



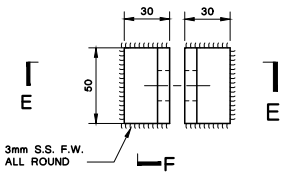
VIEW C



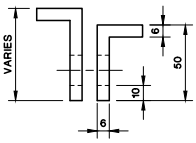
SECTION B-B



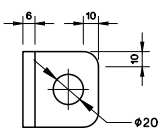
SECTION A-A



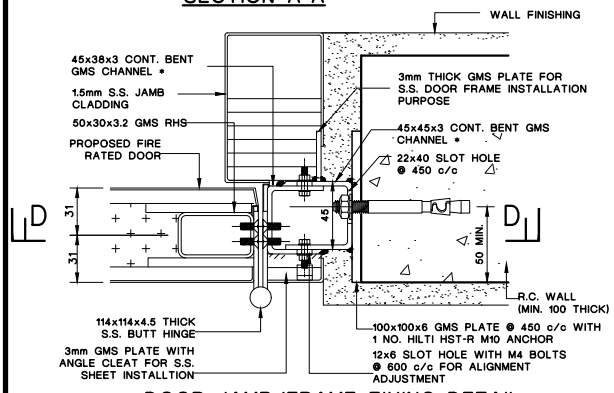
DETAIL OF DOOR LOCK



SECTION E-E

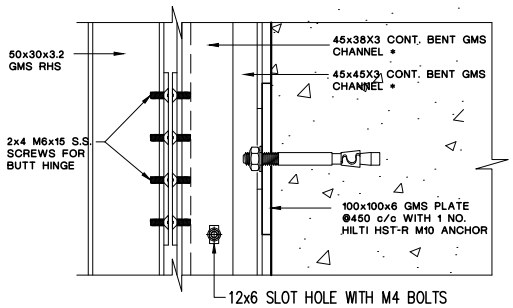


SECTION F-F

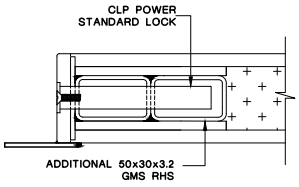


DOOR JAMB/FRAME FIXING DETAIL

NOTES:
1. * DENOTES SIZE OF STEEL CHANNEL TO SUIT THE EXACT DIMENSION OF S.S. BUTT HINGE SCREW POSITION.
2. S.S. JAMB CLADDING SUPPORTING DETAIL SHALL BE DESIGNED BY THE CONTRACTOR.



SECTION D-D



TYPICAL DETAIL FOR STANDARD LOCK

NOTES:

1. ALL CONNECTIONS FOR STAINLESS AND G.M.S. STEEL WORKS SHALL SHALL BE 3mm S.S. FILLET WELD, OR 3mm FILLET WELDED FOR G.M.S. ALL ROUND.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN $6mm^2$.
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.
6. THE DEVELOPER'S CONSULTANT SHOULD ENSURE THAT THE RELEVANT FIRE CERTIFICATE IS AVAILABLE AT PRELIMINARY DESIGN STAGE FOR THE FRR DOOR (WHERE APPLICABLE) SUCH THAT THE PROPOSED FRR DOOR WOULD COMPLY WITH ALL OTHER RELEVANT REGULATIONS, SUCH AS WIND LOAD REQUIREMENTS WHEN THE DOOR IS FACING EXTERNAL AIR.

B	NOTE 6 ADDED
A	STANDARD LOCK ADDED

REVS.	18.10.18	19.06.20									
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	H.T.YU	H.T.YU									

CLP 中電

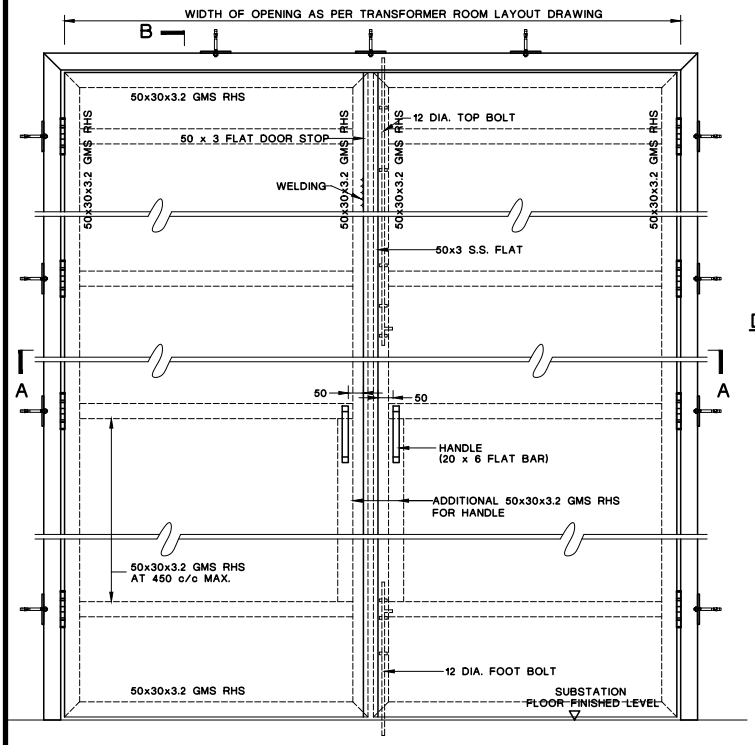
DRAWN:	FONG, MING SUM	DATE:	01-03-2016
CHECKED:	FONG, MING SUM	APPROVED:	GARY KWOK
SCALE:	AS SHOWN	SHEET(S) IN SET:	

TITLE :

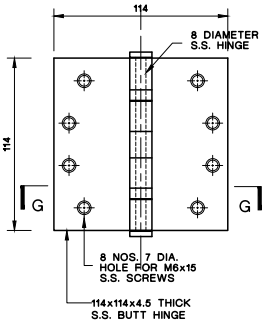
FOR FIRE RATED DOOR WITH INSULATION TYPICAL DETAILS OF SINGLE LEAF LAMINATED STEEL DOOR

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 3 3 4 B A

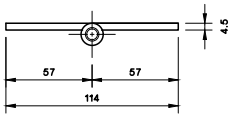


ELEVATION



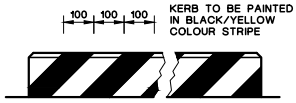
DETAIL OF S.S. BUTT HINGE

SCALE: 1 : 20

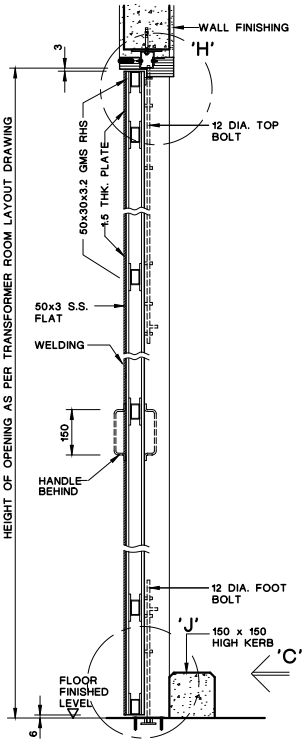


SECTION G-G

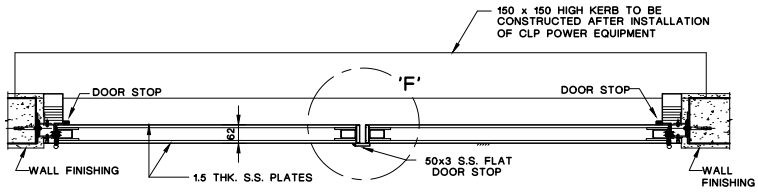
SCALE: 1 : 20



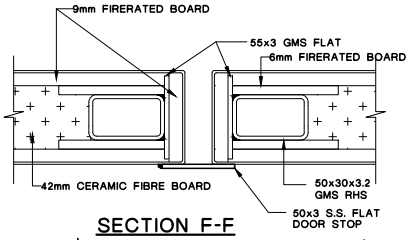
VIEW C



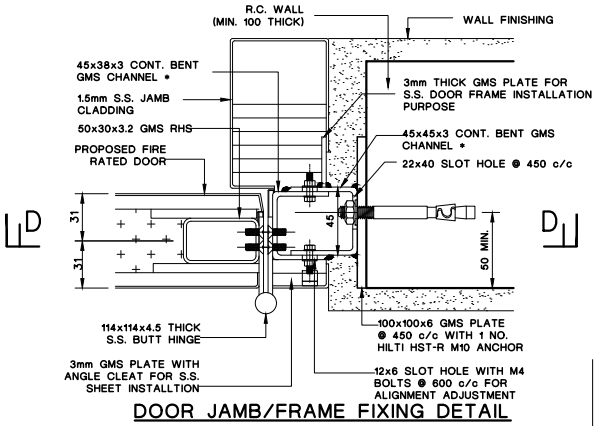
SECTION B-B



SECTION A-A

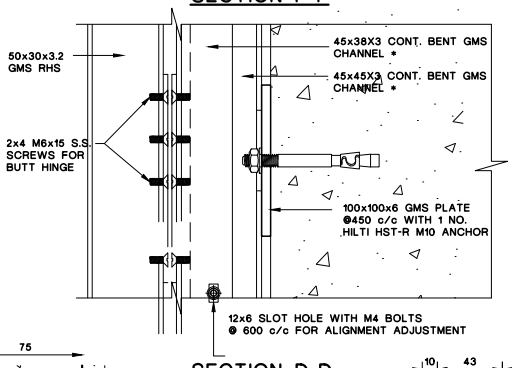


SECTION F-F

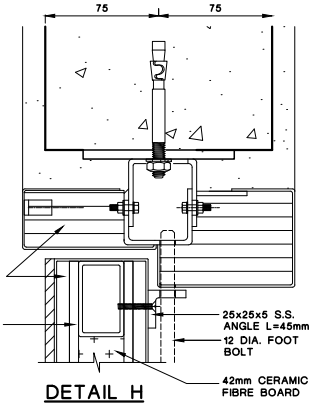


DOOR JAMB/FRAME FIXING DETAIL

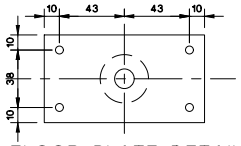
NOTES: 1. * DENOTES SIZE OF STEEL CHANNEL TO SUIT THE EXACT DIMENSION OF S.S. BUTT HINGE SCREW POSITION.
2. S.S. JAMB CLADDING SUPPORTING DETAIL SHALL BE DESIGNED BY THE CONTRACTOR.



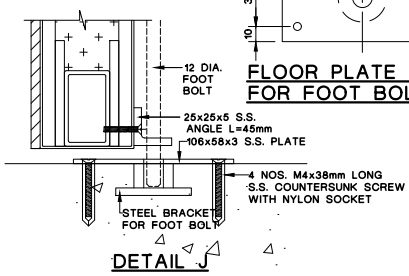
SECTION D-D



DETAIL H



FLOOR PLATE DETAIL FOR FOOT BOLT



DETAIL J

NOTES:

1. ALL CONNECTIONS FOR STAINLESS AND G.M.S. STEEL WORKS SHALL SHALL BE 3mm S.S. FILLET WELD, OR 3mm FILLET WELDED FOR G.M.S. ALL ROUND.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm^2.
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.
6. THE DEVELOPER'S CONSULTANT SHOULD ENSURE THAT THE RELEVANT FIRE CERTIFICATE IS AVAILABLE AT PRELIMINARY DESIGN STAGE FOR THE FRR DOOR (WHERE APPLICABLE) SUCH THAT THE PROPOSED FRR DOOR WOULD COMPLY WITH ALL OTHER RELEVANT REGULATIONS, SUCH AS WIND LOAD REQUIREMENTS WHEN THE DOOR IS FACING EXTERNAL AIR.

A	NOTE 6 ADDED.

REVS.	19.06.20										
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	H.T.YU										

CLP 中電

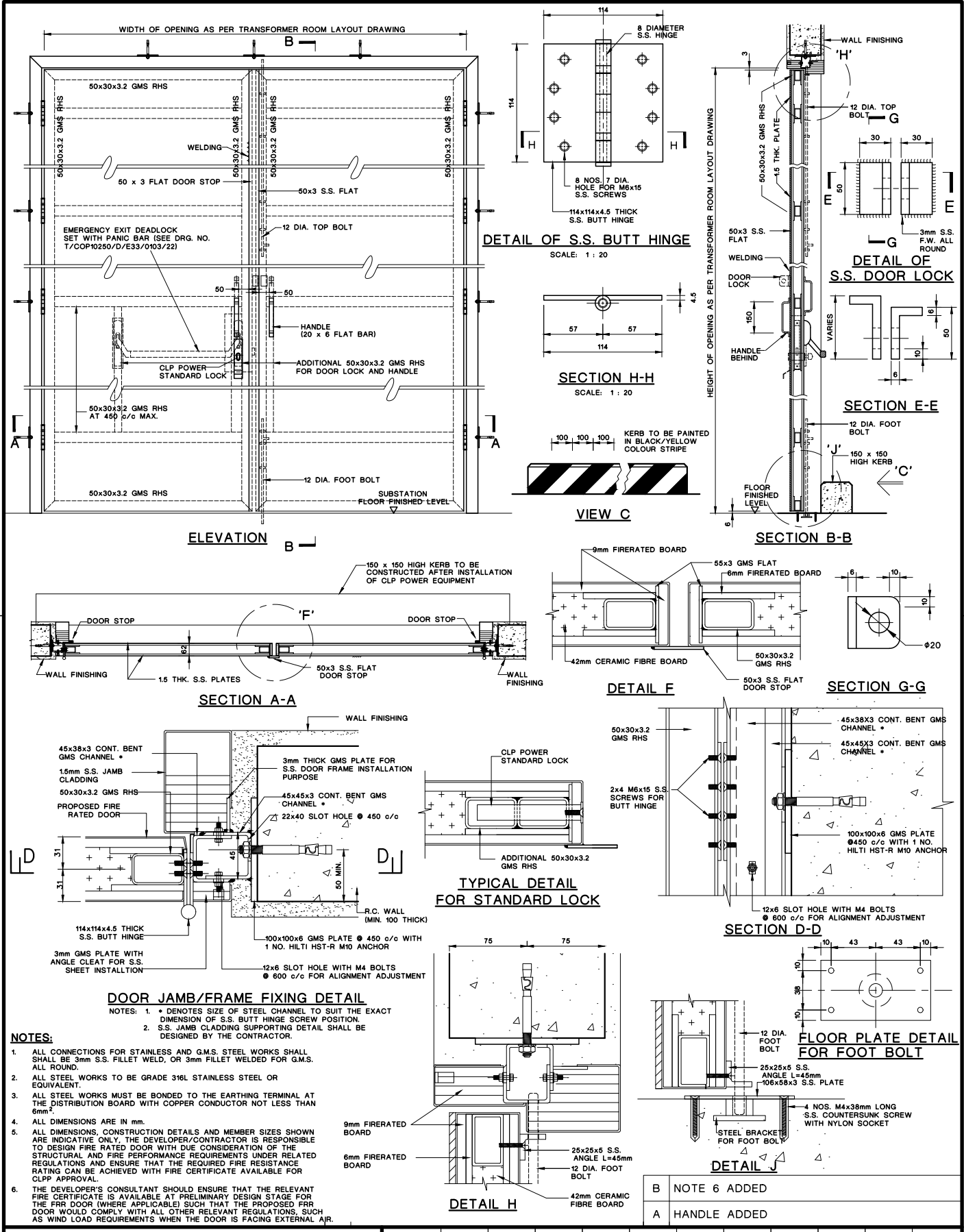
DRAWN:	M. S. FONG	DATE:	01-03-2016
CHECKED:	M. S. FONG	APPROVED:	GARY KWOK
SCALE:	N.T.S.	SHEET(S) IN SET:	

TITLE :

FOR FIRE RATED DOOR WITH INSULATION TYPICAL DETAILS OF DOUBLE LEAF LAMINATED STEEL DOOR AND WITHOUT LOCK

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 3 3 5 A A



NOTES: 1. * DENOTES SIZE OF STEEL CHANNEL TO SUIT THE EXACT DIMENSION OF S.S. BUTT HINGE SCREW POSITION.
2. S.S. JAMB CLADDING SUPPORTING DETAIL SHALL BE DESIGNED BY THE CONTRACTOR.

NOTES:

1. ALL CONNECTIONS FOR STAINLESS AND G.M.S. STEEL WORKS SHALL SHALL BE 3mm S.S. FILLET WELD, OR 3mm FILLET WELDED FOR G.M.S. ALL ROUND.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm².
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.
6. THE DEVELOPER'S CONSULTANT SHOULD ENSURE THAT THE RELEVANT FIRE CERTIFICATE IS AVAILABLE AT PRELIMINARY DESIGN STAGE FOR THE FRR DOOR (WHERE APPLICABLE) SUCH THAT THE PROPOSED FRR DOOR WOULD COMPLY WITH ALL OTHER RELEVANT REGULATIONS, SUCH AS WIND LOAD REQUIREMENTS WHEN THE DOOR IS FACING EXTERNAL AIR.

REVS.	DESCRIPTION
B	NOTE 6 ADDED
A	HANDLE ADDED

REVS.	18.10.18	19.06.20	C	D	E	F	G	H	J	K	L
	A	B									
INITIAL	H.T.YU	H.T.YU									

CLP 中電

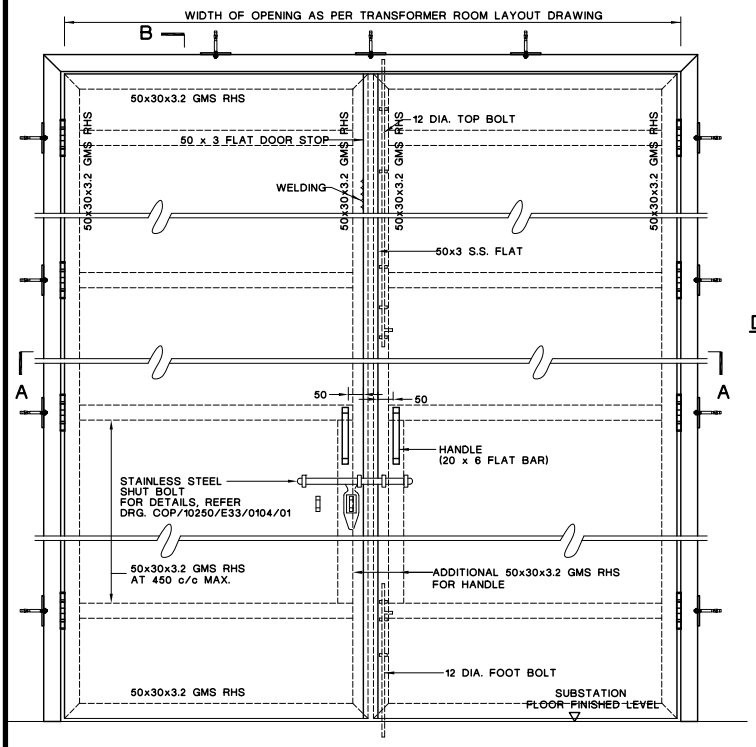
DRAWN:	M. S. FONG	DATE:	01-03-2016
CHECKED:	M. S. FONG	APPROVED:	GARY KWOK
SCALE:	AS SHOWN	SHEET(S) IN SET:	

TITLE :

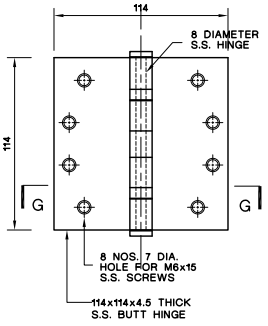
FOR FIRE RATED DOOR WITH INSULATION TYPICAL DETAILS OF DOUBLE LEAF LAMINATED STEEL DOOR

ASSET MANAGEMENT

DRG. NO. T COP 10250 D E33 0103 36 B A

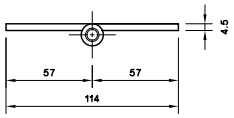


ELEVATION



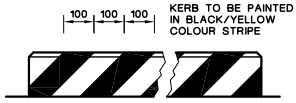
DETAIL OF S.S. BUTT HINGE

SCALE: 1 : 20

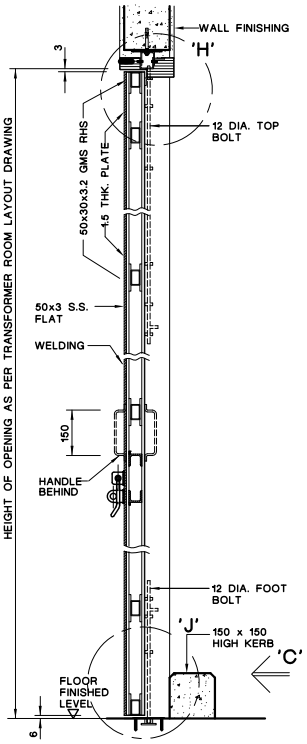


SECTION G-G

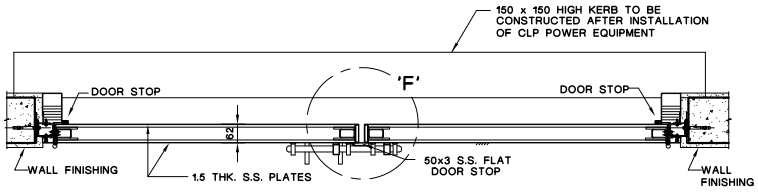
SCALE: 1 : 20



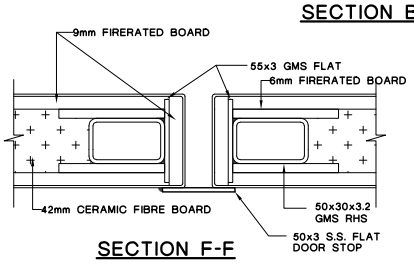
VIEW C



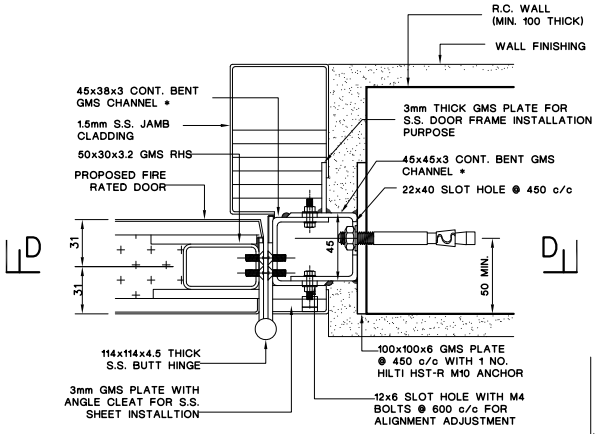
SECTION B-B



SECTION A-A

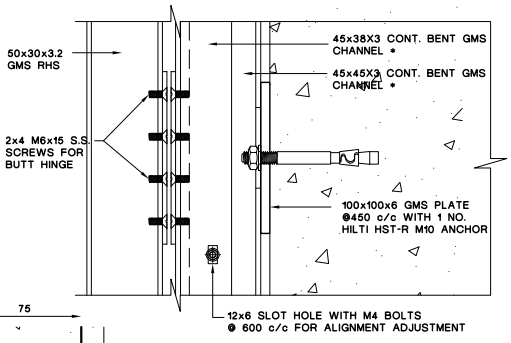


SECTION F-F

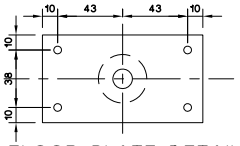


DOOR JAMB/FRAME FIXING DETAIL

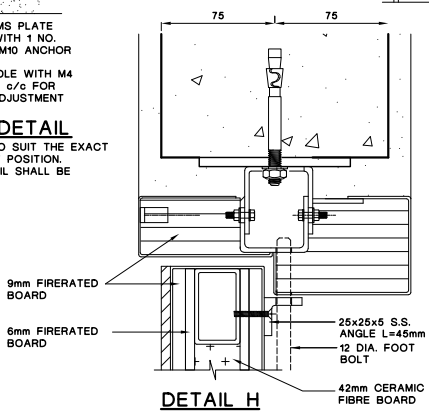
NOTES: 1. * DENOTES SIZE OF STEEL CHANNEL TO SUIT THE EXACT DIMENSION OF S.S. BUTT HINGE SCREW POSITION.
2. S.S. JAMB CLADDING SUPPORTING DETAIL SHALL BE DESIGNED BY THE CONTRACTOR.



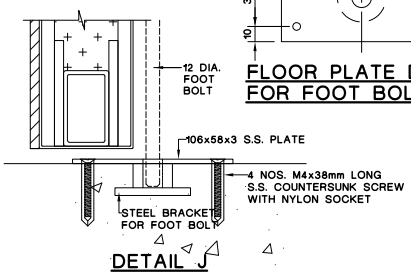
SECTION D-D



FLOOR PLATE DETAIL
FOR FOOT BOLT



DETAIL H



DETAIL J

NOTES:

1. ALL CONNECTIONS FOR STAINLESS AND G.M.S. STEEL WORKS SHALL BE 3mm S.S. FILLET WELD, OR 3mm FILLET WELDED FOR G.M.S. ALL ROUND.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm^2.
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

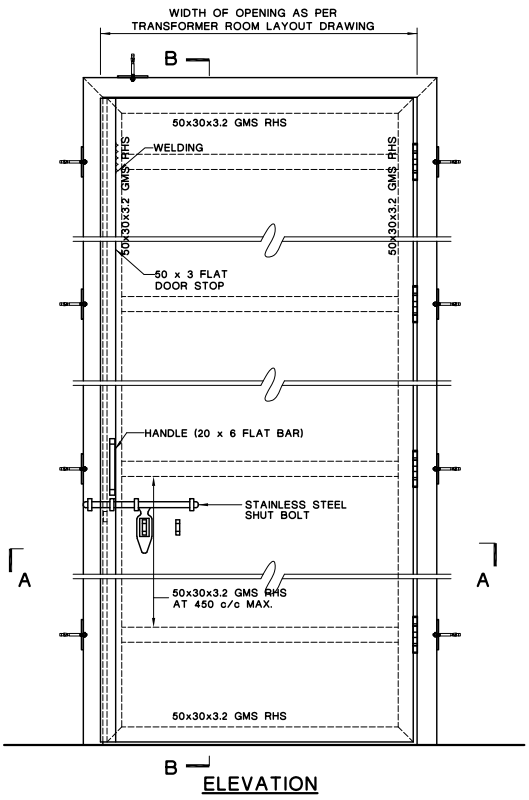
TITLE :

FOR FIRE RATED DOOR WITH INSULATION TYPICAL DETAILS OF DOUBLE LEAF LAMINATED STEEL DOOR WITH SHUT BOLT

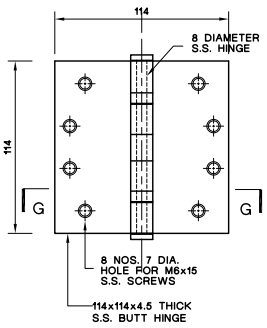
DRAWN:	M. S. FONG	DATE:	01-03-2016
CHECKED:	M. S. FONG	APPROVED:	GARY KWOK
SCALE:	N.T.S.	SHEET(S) IN SET:	

ASSET MANAGEMENT

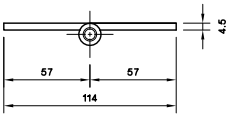
DRG. NO. TCOP/10250/DE33/0103/41/-/A



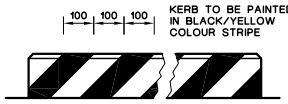
ELEVATION



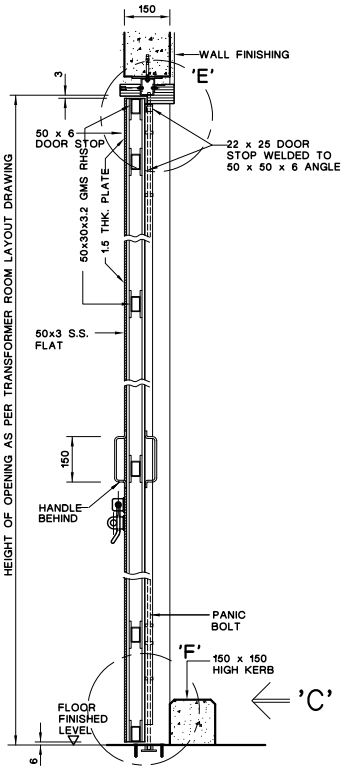
DETAIL OF S.S. BUTT HINGE



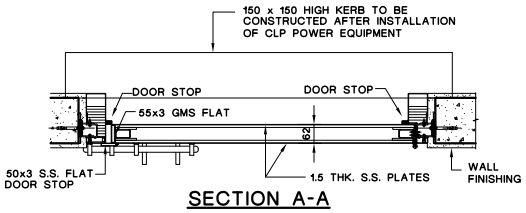
SECTION G-G



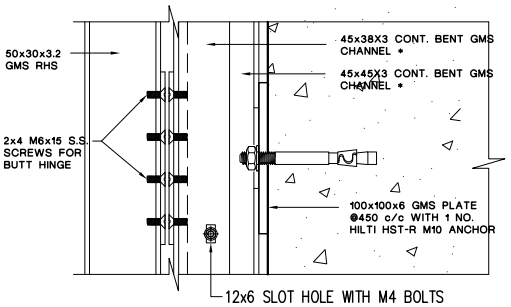
VIEW C



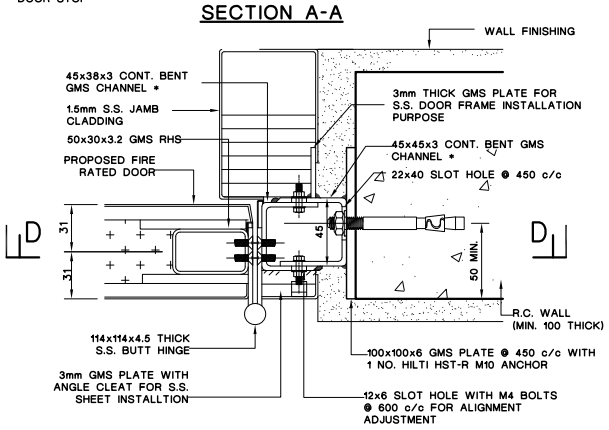
SECTION B-B



SECTION A-A

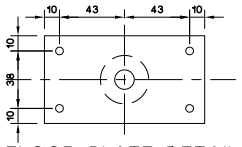


SECTION D-D



DOOR JAMB/FRAME FIXING DETAIL

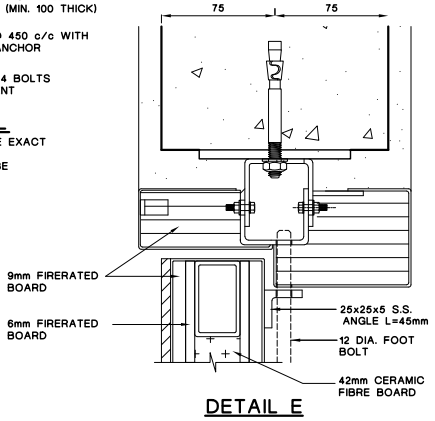
NOTES: 1. * DENOTES SIZE OF STEEL CHANNEL TO SUIT THE EXACT DIMENSION OF S.S. BUTT HINGE SCREW POSITION.
2. S.S. JAMB CLADDING SUPPORTING DETAIL SHALL BE DESIGNED BY THE CONTRACTOR.



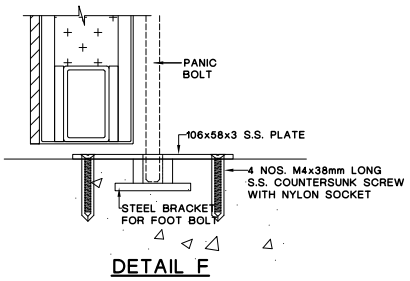
FLOOR PLATE DETAIL FOR FOOT BOLT

NOTES:

1. ALL CONNECTIONS FOR STAINLESS AND G.M.S. STEEL WORKS SHALL BE 3mm S.S. FILLET WELD, OR 3mm FILLET WELDED FOR G.M.S. ALL ROUND.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm^2.
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.



DETAIL E



DETAIL F

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

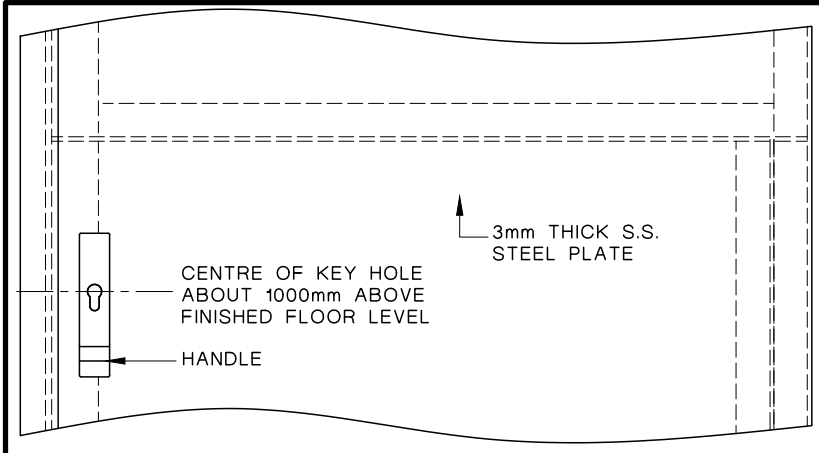
TITLE :

FOR FIRE RATED DOOR WITH INSULATION TYPICAL DETAILS OF SINGLE LEAF LAMINATED STEEL DOOR WITH SHUT BOLT

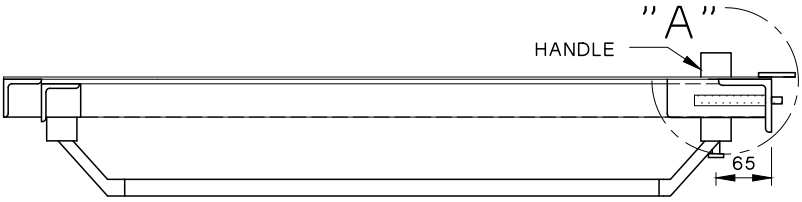
DRAWN:	LAU, TZE WAH	DATE:	11-09-2019
CHECKED:	EDMOND YU	APPROVED:	W.C.HO
SCALE:	AS SHOWN	SHEET(S) IN SET:	

ASSET MANAGEMENT

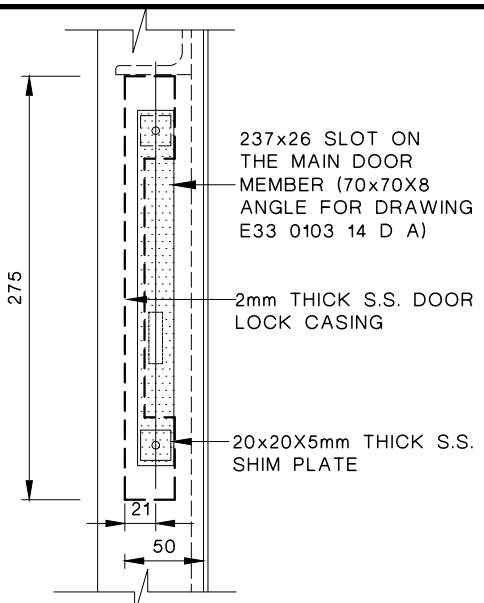
DRG. NO. T C O P 1 0 2 5 0 D E 3 0 1 0 3 4 2 - A



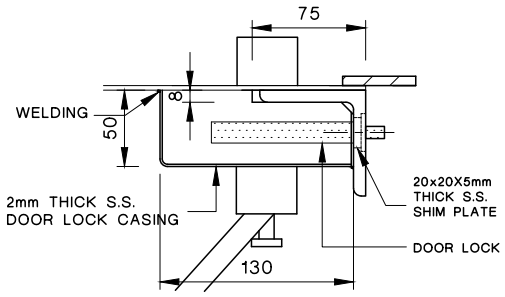
EXTERNAL FACE OF STEEL DOOR



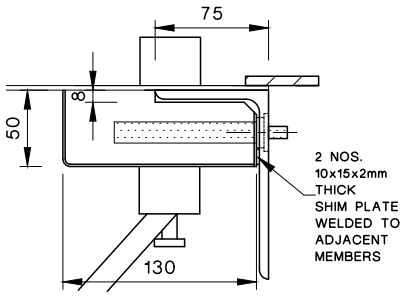
SECTION



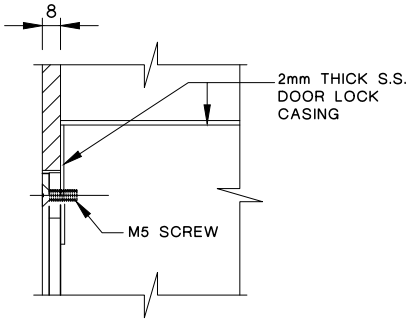
INSTALLATION DETAIL
FOR DOOR LOCK



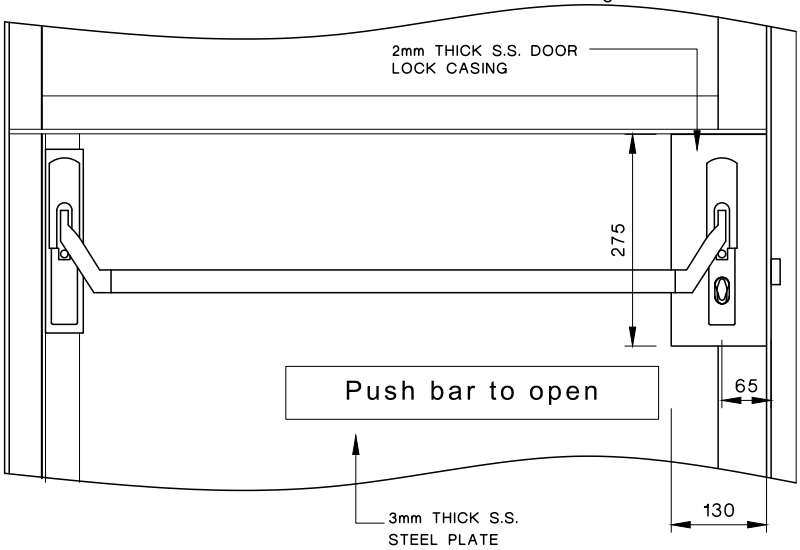
DETAIL "A"
(NOTE: Detail for 70x70x8 Angle)



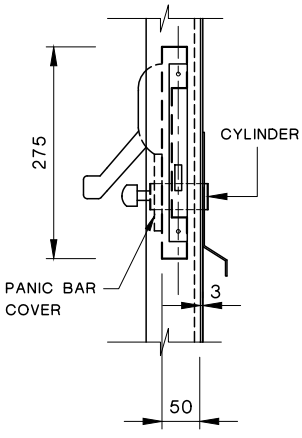
DETAIL "A"
(NOTE: Detail for 125x75x6 Angle
Drawing E33 0103 20 F A)



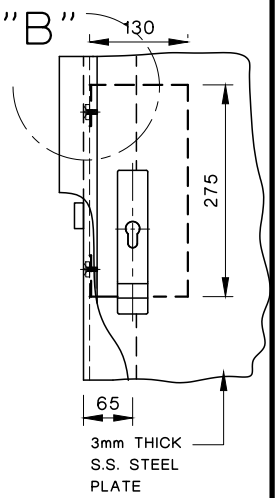
DETAIL "B"



INSIDE FACE OF STEEL DOOR



SIDE VIEW
OF DOOR LOCK



FRONT VIEW
OF DOOR LOCK

A	GENERALLY REVISED

REVS.	13.11.18										
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	M.S.FONG										

CLP 中電

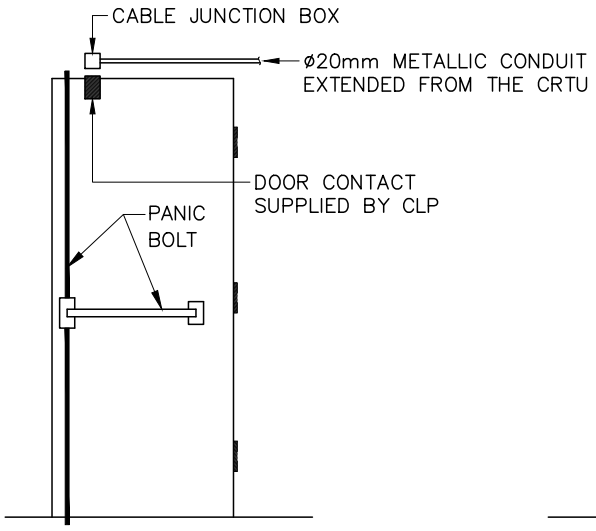
DRAWN:	M. S. FONG	DATE:	13 Nov. 2018
CHECKED:	M. S. FONG	APPROVED:	GARY KWOK
SCALE:	N. T. S.	SHEET(S) IN SET:	1

TITLE :

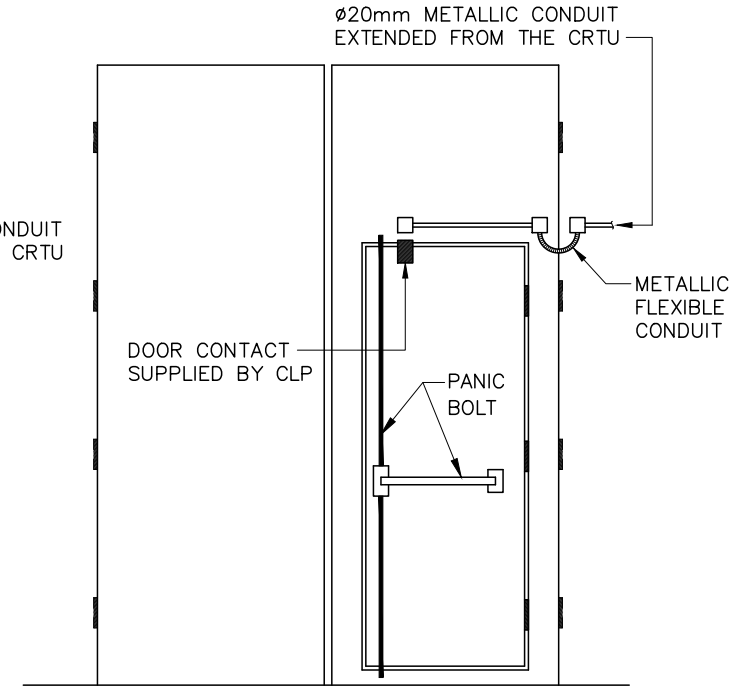
DETAILS OF EMERGENCY EXIT DEADLOCK SET WITH PANIC BAR

ASSET MANAGEMENT

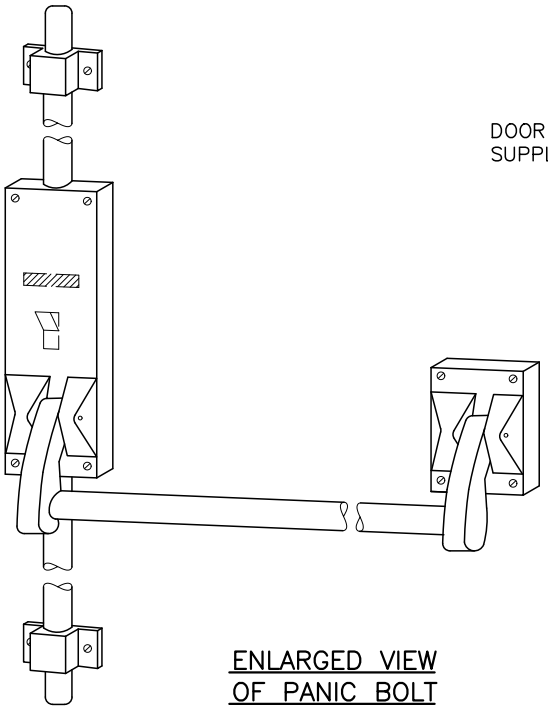
DRG. NO. TCOP10250DE3301032 2 A A



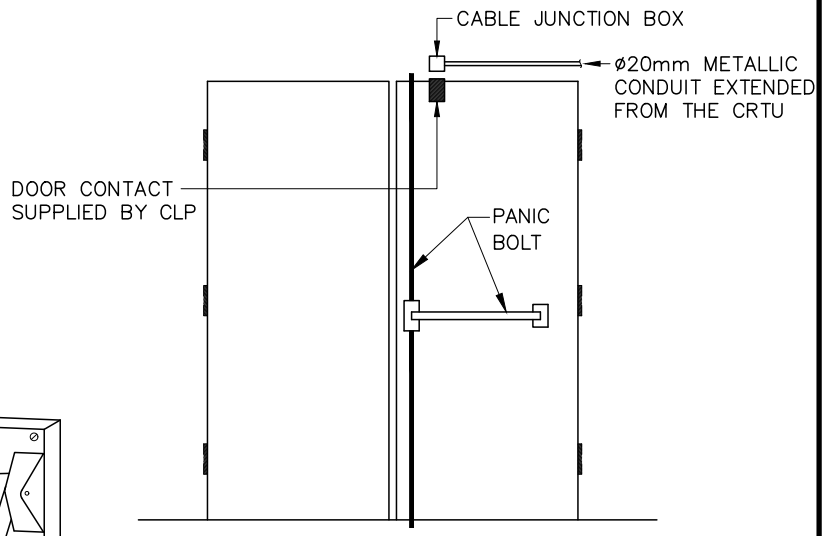
PANIC BOLT FOR SINGLE STEEL DOOR
(LOOKING FROM INSIDE OF TRANSFORMER RM.)



PANIC BOLT FOR WICKET OF DOUBLE LEAF DOOR
(LOOKING FROM INSIDE OF TRANSFORMER RM.)



ENLARGED VIEW OF PANIC BOLT



PANIC BOLT FOR DOUBLE LEAF STAINLESS STEEL DOOR
(LOOKING FROM INSIDE OF TRANSFORMER RM.)

B	UPDATE THE TERMINATION OF CONDUIT TO CRTU	A	GENERAL REVISION

REVS.	08.05.12	18.06.20									
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	E. YU	H.T.YU									

CLP 中電

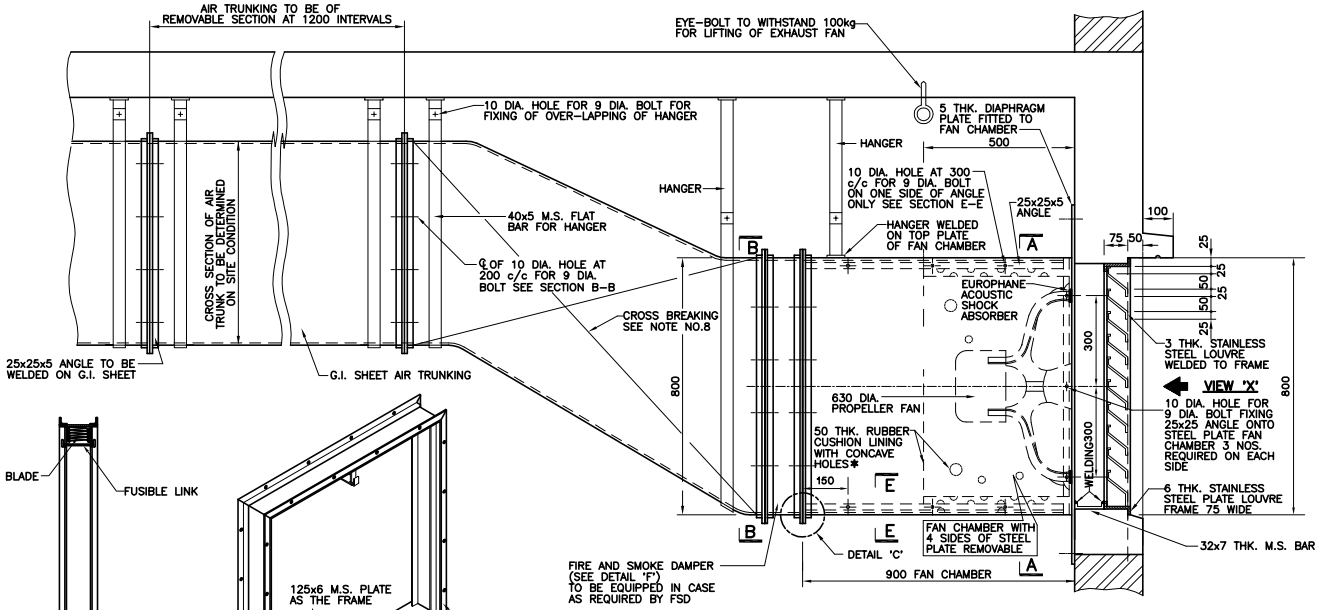
DRAWN: S. C. TO	DATE: 26-07-2002
CHECKED: K. C. CHENG	APPROVED: K. W. WONG
SCALE: N. T. S.	SHEET(S) IN SET: 1

TITLE :

TYPICAL ARRANGEMENT OF PANIC BOLT AND DOOR CONTACT INSTALLATION FOR TRANSFORMER ROOM DOORS

ASSET MANAGEMENT

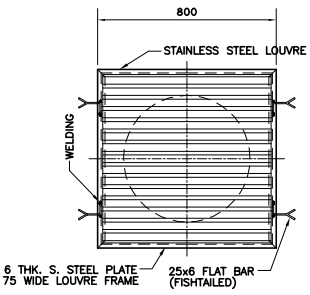
DRG. NO. TCOP10250DE33010323BA



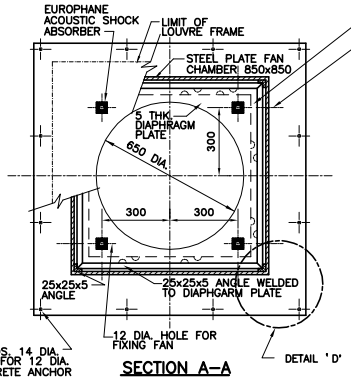
CROSS SECTION OF FIRE AND SMOKE DAMPER

DETAIL 'F'

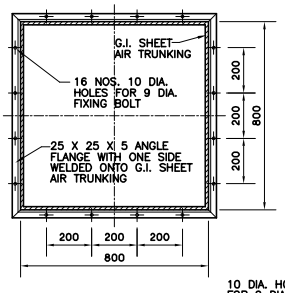
DETAIL OF FIRE AND SMOKE DAMPER IN CASE AS REQUIRED BY FSD



VIEW 'X'

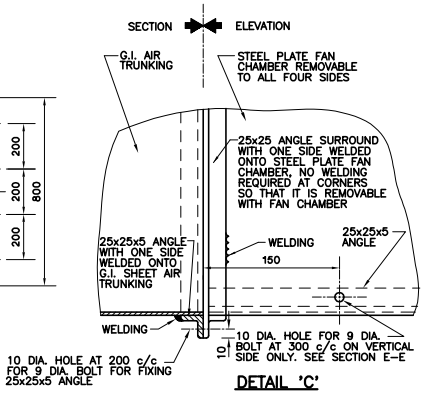


SECTION A-A

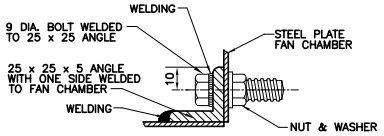


SECTION B-B

(SEE NOTE 10)

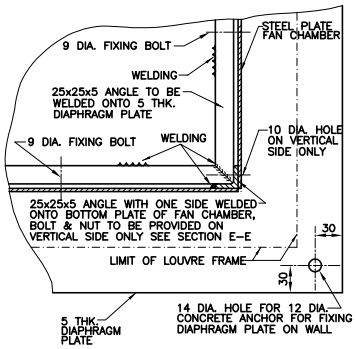


DETAIL 'C'



SECTION E-E

SCALE : HALF FULL SIZE (SIMILAR DETAIL FOR TOP PIECE)



DETAIL 'D'

NOTES:

1. G.I. SHEET FOR ALL TRUNKING TO BE 1mm THICK AND TO BE CONSTRUCTED BY PITTSBURGH LOCK FOR LONGITUDINAL SEAM. DURASTEEL WITH APPROPRIATED FIRE RESISTANCE RATING SHALL BE PROVIDED FOR THE FAN CHAMFER IF FIRE & SMOKE DAMPER IS INSTALLED.
2. ALL WELDING TO BE SPOT WELDED.
3. ALL BOLTS AND NUTS ARE NOT SHOWN.
4. INTERNAL STEEL WORKS SHALL BE HOT DIP GALVANISED TO BS EN ISO 1461 AND FINISHED WITH ONE COAT OF CALCIUM PLUMBATE OR ZINC PHOSPHATE PRIMER AND TWO FINISHING COATS OF SYNTHETIC PAINT.
5. ALL STEEL WORKS FOR LOUVRE TO BE GRADE 316L STAINLESS STEEL.
6. CROSS BREAKING REQUIRED FOR EACH FACE OF AIR TRUNKING.
7. DETACHABLE WIRE MESH OF 50 SQ. GALVANISED BRC WELDMESH NO. 28 TO BE PROVIDED AT INLET OF AIR TRUNKING.
8. ALL METAL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN $6mm^2$.
9. ALTERNATIVE AIR DUCT CONNECTION METHOD - USING FASTENING CLAMPS INSTEAD OF FIXING BOLTS AT 200mm INTERVAL. THE FLANGE CONSTRUCTION OF THE AIR DUCT JOINT SHALL COMPLY TO HVCA DW/144, 1998 SPECIFICATION FOR STEEL METAL STEEL METAL DUCTWORK.
10. FIRE AND SMOKE DAMPER SHALL BE INSTALLED AND TESTED IN STRICTLY ACCORDANCE WITH CODE OF PRACTICE FOR FIRE SAFETY IN BUILDINGS 2011. MICRO SWITCH SHALL BE INSTALLED TO PROVIDE SIGNAL WHICH INDICATES THE ACTIVATION OF FIRE & SMOKE DAMPER AND PROVIDE TRIPPING FUNCTION TO THE EXHAUST FAN.
11. ALL DIMENSIONS ARE IN mm.

* FIRE RETARDANT PRODUCT SHALL BE USED ACCORDING TO THE REQUIREMENT OF FSD.

C	FIRE AND SMOKE DAMPER ADDED	B	ZINC PRIMER AND NOTE 10 ADDED.	A	LOUVRE BLADES REVISED

REVS.	21.12.05	15.11.07	07.04.17								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	E. YU								

CLP 中電

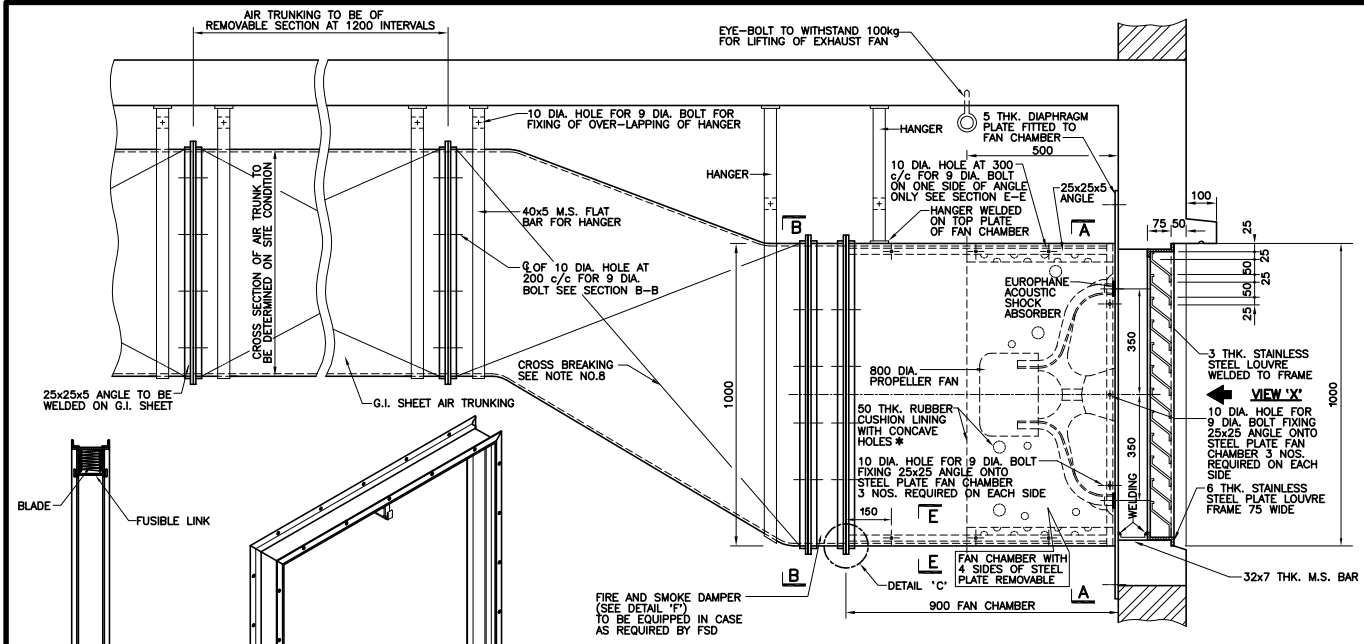
TITLE :

TYPICAL DETAILS OF METAL TRUNKING & STAINLESS STEEL LOUVRE FOR 630mm DIA. WALL MOUNTED EXHAUST FAN

DRAWN:	S. C. TO	DATE:	21 Dec., 2005
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	AS SHOWN	SHEET(S) IN SET:	

ASSET MANAGEMENT

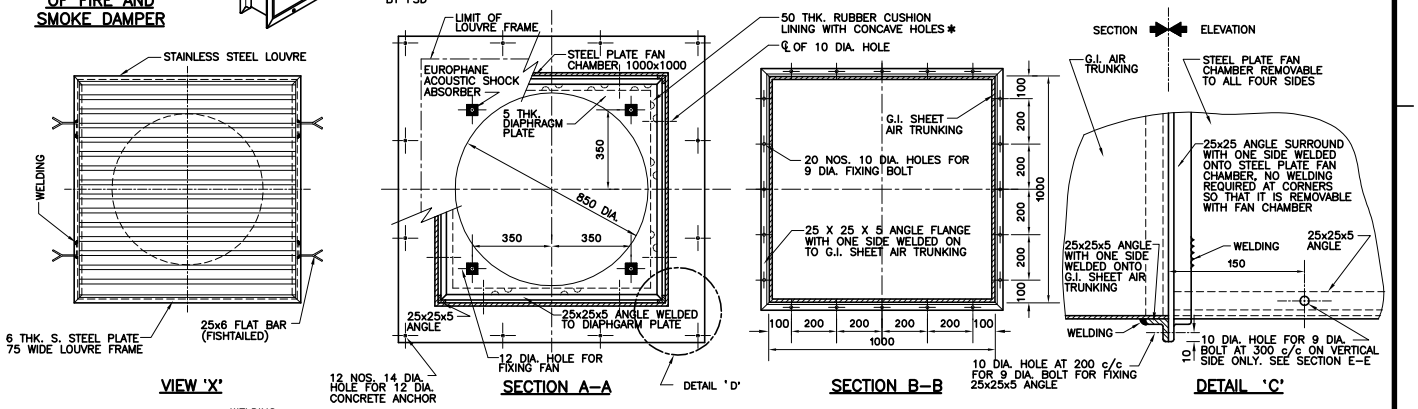
DRG. NO. TCOP/10250/DE3/0103/24/C/A



SIDE ELEVATION WITH SECTION AT LOUVRE

CROSS SECTION OF FIRE AND SMOKE DAMPER

DETAIL 'F'
DETAIL OF FIRE AND SMOKE DAMPER IN CASE AS REQUIRED BY FSD



VIEW 'X'

12 NOS. 14 DIA. HOLE FOR 12 DIA. CONCRETE ANCHOR

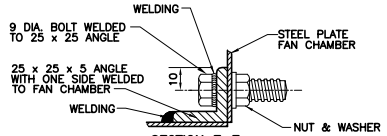
SECTION A-A

DETAIL 'D'

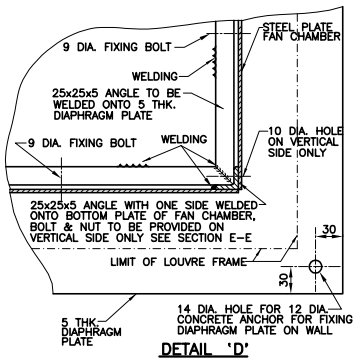
SECTION B-B

10 DIA. HOLE AT 200 c/c FOR 9 DIA. BOLT FOR FIXING 25x25x5 ANGLE

DETAIL 'C'



SECTION E-E
SCALE : HALF FULL SIZE
(SIMILAR DETAIL FOR TOP PIECE)



DETAIL 'D'

NOTES:

1. G.I. SHEET FOR ALL TRUNKING TO BE 1mm THICK AND TO BE CONSTRUCTED BY PITTSBURGH LOCK FOR LONGITUDINAL SEAM. DURASTEEL WITH APPROPRIATED FIRE RESISTANCE RATING SHALL BE PROVIDED FOR THE FAN CHAMFER IF FIRE & SMOKE DAMPER IS INSTALLED.
2. ALL WELDING TO BE SPOT WELDED.
3. ALL BOLTS AND NUTS ARE NOT SHOWN.
4. INTERNAL STEEL WORKS SHALL BE HOT DIP GALVANISED TO BS EN ISO 1461 AND FINISHED WITH ONE COAT OF CALCIUM PLUMBATE OR ZINC PHOSPHATE PRIMER AND TWO FINISHING COATS OF SYNTHETIC PAINT.
5. ALL STEEL WORKS FOR LOUVRE TO BE GRADE 316L STAINLESS STEEL.
6. CROSS BREAKING REQUIRED FOR EACH FACE OF AIR TRUNKING.
7. DETACHABLE WIRE MESH OF 50 SQ. GALVANISED BRC WELDMESH NO. 28 TO BE PROVIDED AT INLET OF AIR TRUNKING.
8. ALL METAL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN $6mm^2$.
9. ALTERNATIVE AIR DUCT CONNECTION METHOD - USING FASTENING CLAMPS INSTEAD OF FIXING BOLTS AT 200mm INTERVAL. THE FLANGE CONSTRUCTION OF THE AIR DUCT JOINT SHALL COMPLY TO HVCA DW/144, 1998 SPECIFICATION FOR STEEL METAL STEEL METAL DUCTWORK.
10. FIRE AND SMOKE DAMPER SHALL BE INSTALLED AND TESTED IN STRICTLY ACCORDANCE WITH CODE OF PRACTICE FOR FIRE SAFETY IN BUILDINGS 2011. MICRO SWITCH SHALL BE INSTALLED TO PROVIDE SIGNAL WHICH INDICATES THE ACTIVATION OF FIRE & SMOKE DAMPER AND PROVIDE TRIPPING FUNCTION TO THE EXHAUST FAN.
11. ALL DIMENSIONS ARE IN mm.

* FIRE RETARDANT PRODUCT SHALL BE USED ACCORDING TO THE REQUIREMENT OF FSD.

C	FIRE AND SMOKE DAMPER ADDED	B	ZINC PRIMER AND NOTE 10 ADDED	A	LOUVRE BLADES REVISED

REVS.	21.12.05	15.11.07	09.09.16								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	E. YU								

CLP 中電

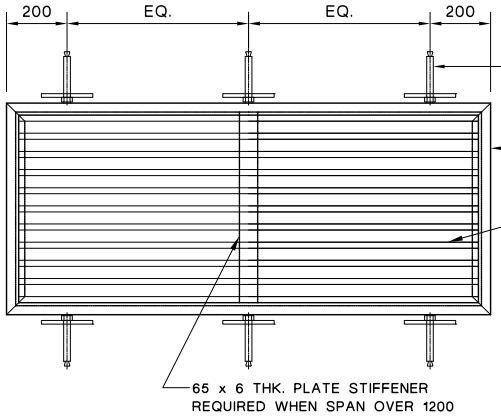
TITLE :

TYPICAL DETAILS OF METAL TRUNKING & STAINLESS STEEL LOUVRE FOR 800mm DIA. WALL MOUNTED EXHAUST FAN

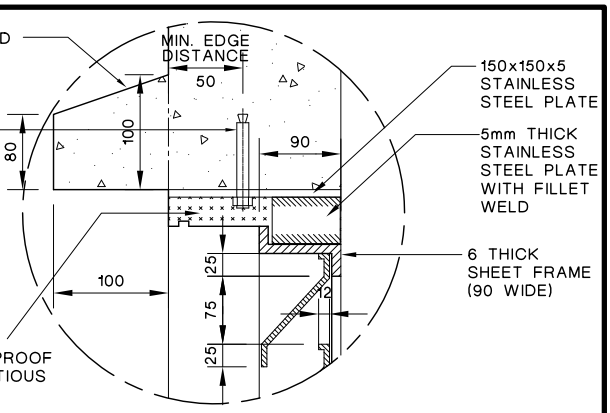
DRAWN:	S. C. TO	DATE:	21 Dec., 2005
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	AS SHOWN	SHEET(S) IN SET:	

ASSET MANAGEMENT

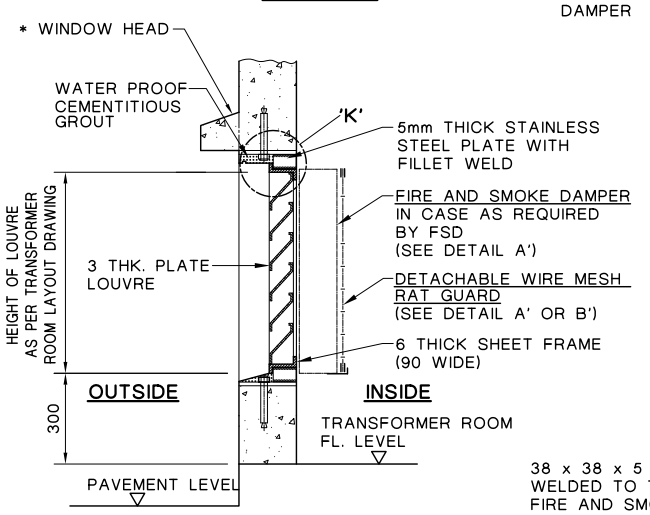
DRG. NO. TCOP10250DE30103 25 C A



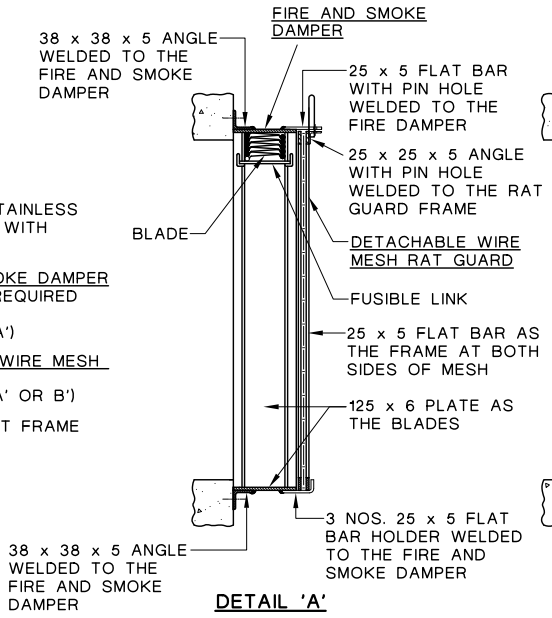
ELEVATION



DETAIL 'K'

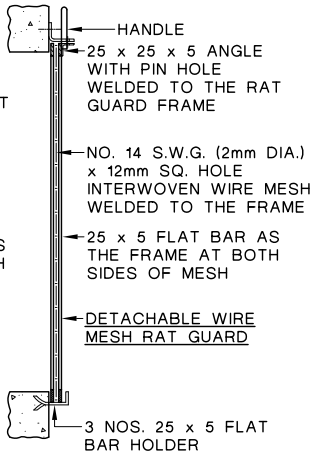


CROSS SECTION OF WALL SHOWING STAINLESS STEEL LOUVRE



DETAIL 'A'

SECTION FOR FIXING FIRE AND SMOKE DAMPER & WIRE MESH RAT GUARD (SCALE 1 : 15) IN CASE AS REQUIRED BY FSD



DETAIL 'B'

SECTION FOR FIXING WIRE MESH RAT GUARD ONLY (SCALE 1 : 15)

NOTES:

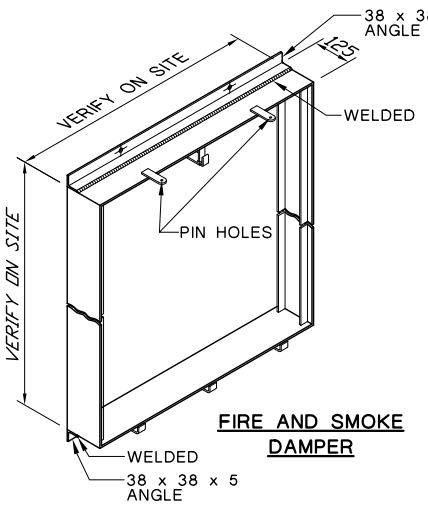
1, * IF THE WINDOW HEAD IS PROJECTED BEYOND THE SITE BOUNDARY AND THE HEIGHT IS LESS THAN 2.5 METRES, THIS PORTION OF WINDOW HEAD MAY BE OMITTED.

2, ALL CONNECTIONS OF STAINLESS STEEL WORKS TO BE 3mm S.S. FILLET WELDED ALL ROUND.

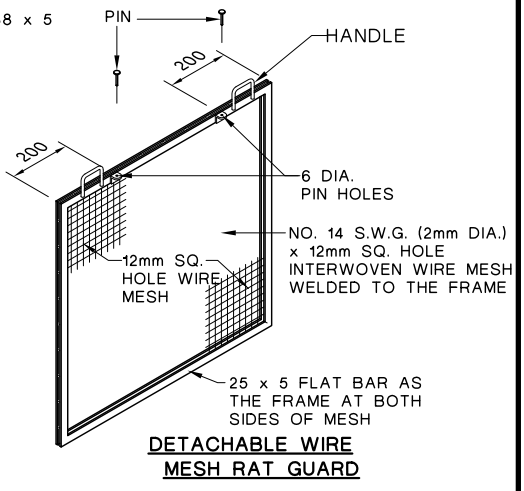
3, ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL.

4, ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6 mm^2.

5, FIRE AND SMOKE DAMPER SHALL BE INSTALLED AND TESTED IN STRICTLY ACCORDANCE WITH CODE OF PRACTICE FOR FIRE SAFETY IN BUILDINGS 2011.



FIRE AND SMOKE DAMPER



DETACHABLE WIRE MESH RAT GUARD

ISOMETRIC VIEW AND ASSEMBLY OF FIRE AND SMOKE DAMPER & WIRE MESH RAT GUARD

(NOT TO SCALE)

B	FIRE AND SMOKE DAMPER, WINDOW HEAD ADDED	A	LOUVRE BLADES REVISED

REVS.	21.12.05	17.03.17									
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	H.T.YU									

CLP 中電

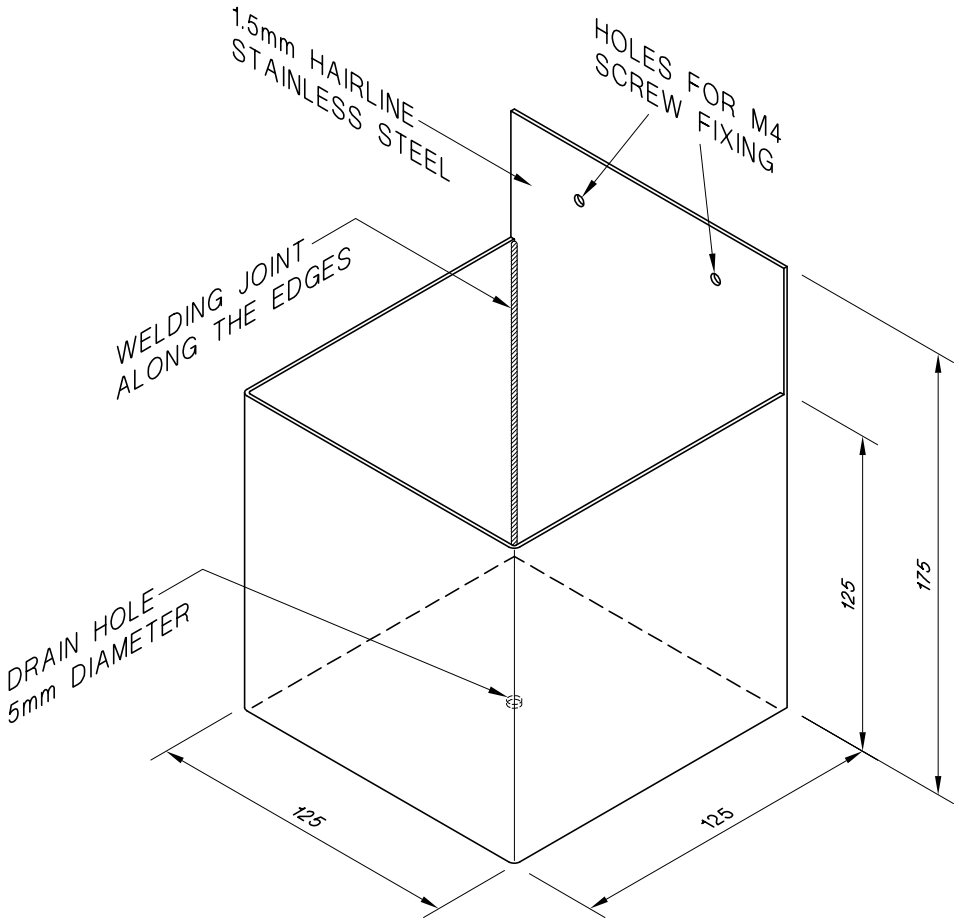
TITLE :

TYPICAL DETAILS OF STAINLESS STEEL LOUVRE

DRAWN:	S. C. TO	DATE:	21 Dec., 2005
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 25 (mm)	SHEET(S) IN SET:	1

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010326BA



CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

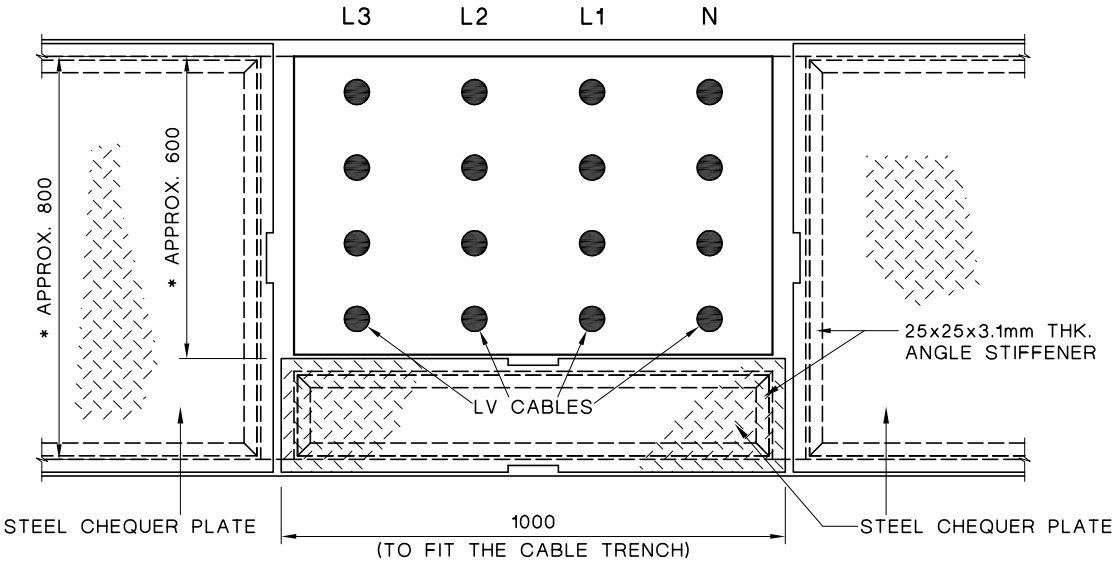
TITLE :

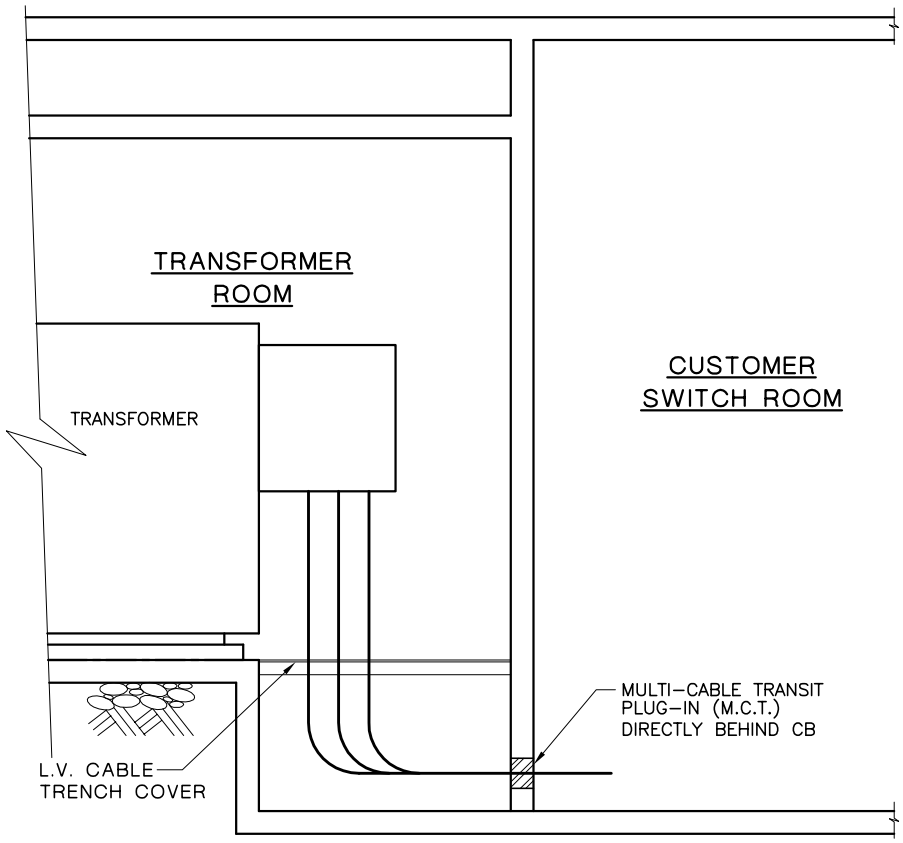
PLASTIC CHAIN STORAGE BOX

DRAWN: C W WONG	DATE: 9 Jul., 2007
CHECKED: K C CHENG	APPROVED: W C HO
SCALE: 1 : 3	SHEET(S) IN SET: 1

ASSET MANAGEMENT

DRG. NO. TCOP1025ODE3301032 7 - A





NOTES:

1. * EXACT DIMENSION TO BE DETERMINED ACCORDING TO SITE CONDITIONS.
2. ALL DIMENSIONS ARE IN mm

B	CONFIGURATION OF CHEQUER PLATE UPDATED

CLP 中電

REVS.	26.03.12	18.03.14									
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	H.T.YU									

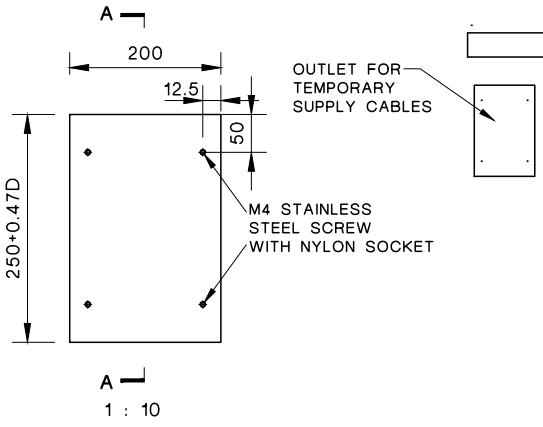
DRAWN: C W WONG	DATE: 21 Aug., 2007
CHECKED: K C CHENG	APPROVED: W C HO
SCALE: N. T. S.	SHEET(S) IN SET:

TITLE :

CABLE TRENCH COVER FOR L.V. CABLES DROPPING FROM TRANSFORMER L.V. TERMINALS INTO THE CABLE TRENCH

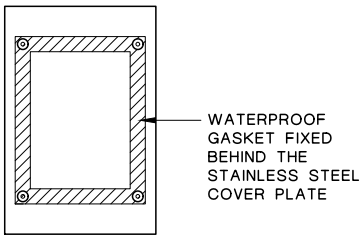
ASSET MANAGEMENT

DRG. NO. TCOP10250DE33010328BA



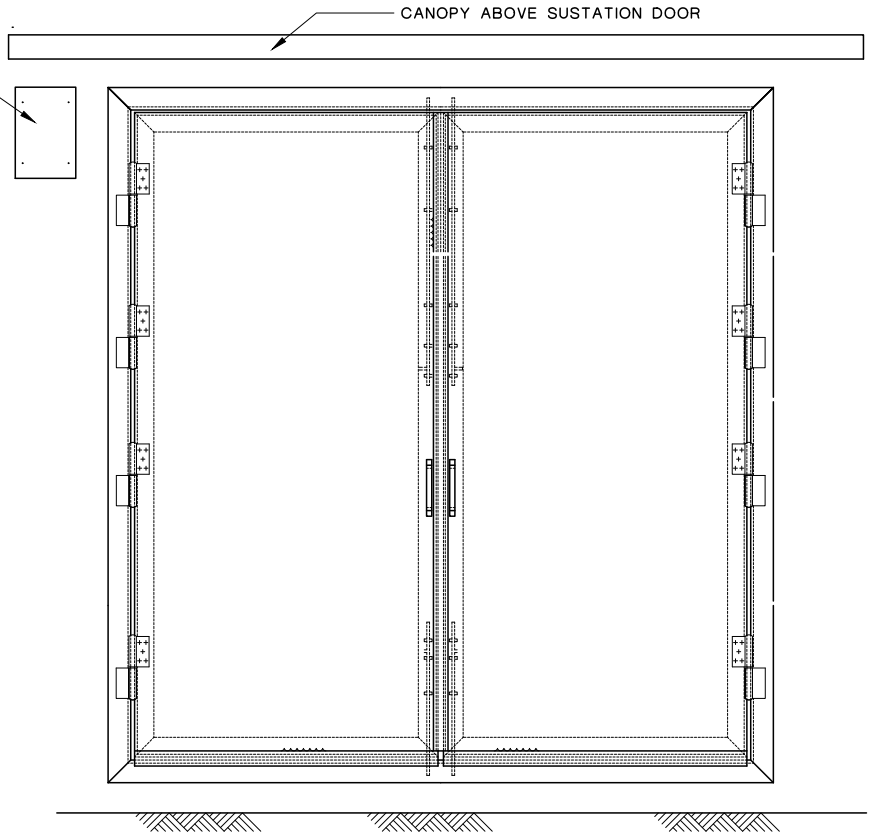
1 : 10

FRONT VIEW OF STAINLESS STEEL COVER

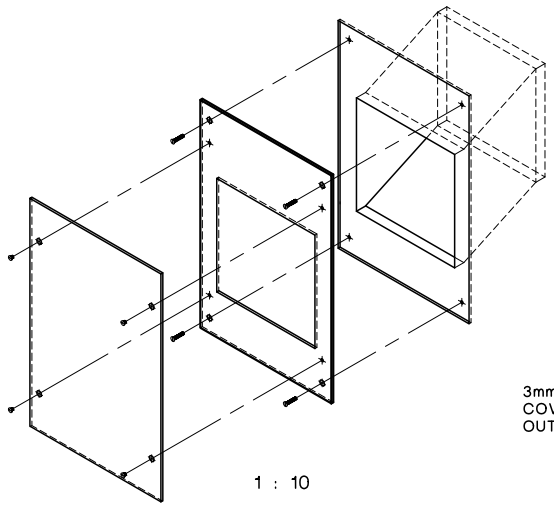


1 : 10

BACK VIEW OF STAINLESS STEEL COVER

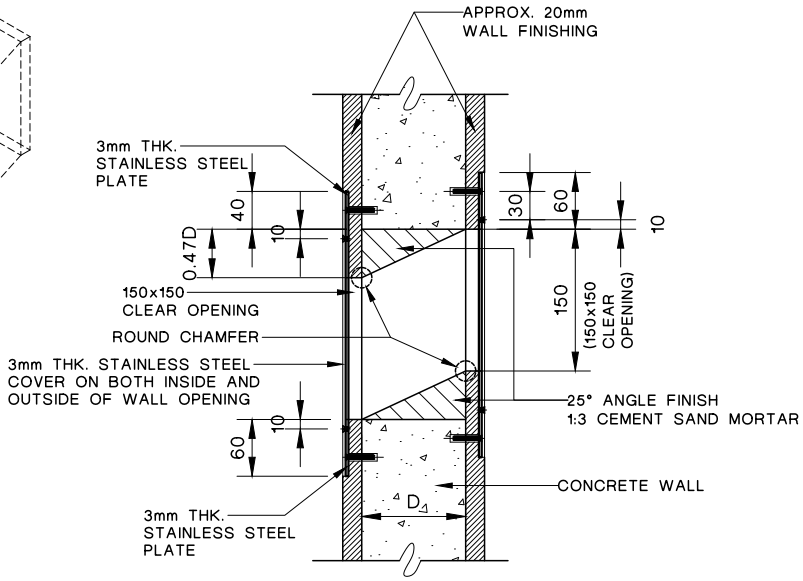


ELEVATION



1 : 10

ISOMATIC VIEW FOR OUTLET FIXING



1 : 8

SECTION A - A

NOTES:

1. HAIRLINE STAINLESS STEEL SHALL BE USED FOR THE COVER AND FRAME, IN CASE THE OUTLET IS LOCATED INSIDE THE INDEPENDENT STAIRCASE, FIRE RATED PROMAT BOARD SHALL BE USED FOR THE COVER.
2. STAINLESS STEEL FIXING SCREW SHALL BE USED
3. ALL DIMENSIONS ARE IN mm

C	ANGLE FINISH UPDATED	B	OUTLET OF TEMPORARY SUPPLY CABLES UPDATED

REVS.	17.03.17	22.08.19	23.03.20								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	H.T.YU	H.T.YU	H.T.YU								

CLP 中電

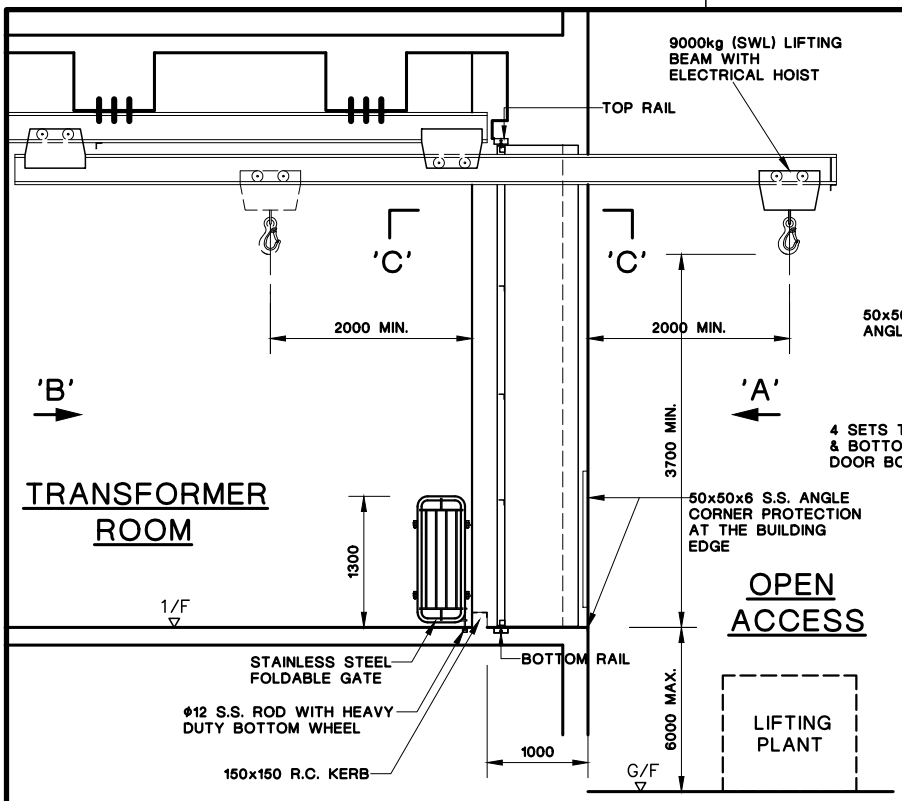
DRAWN:	T. W. LAU	DATE:	14-09-2007
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	N.T.S.	SHEET(S) IN SET:	

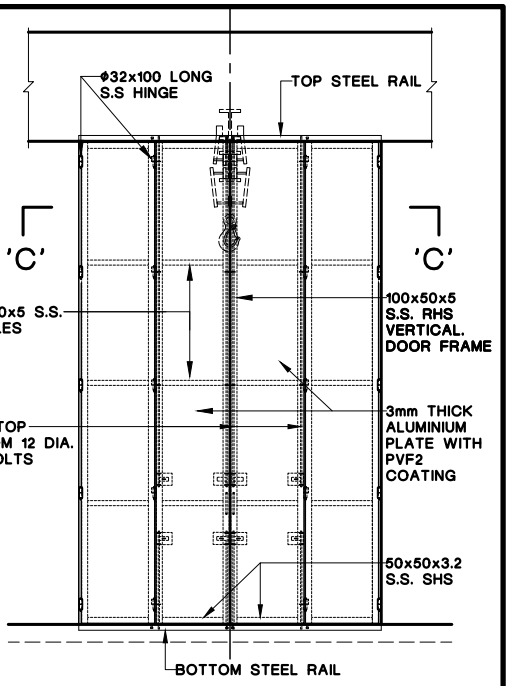
TITLE :

DETAILS OF OUTLET FOR TEMPORARY SUPPLY CABLES

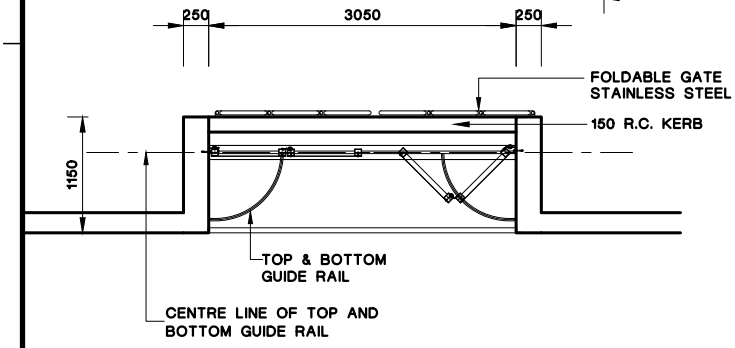
ASSET MANAGEMENT

DRG. NO. TCOP10250DE3301032 9 C A



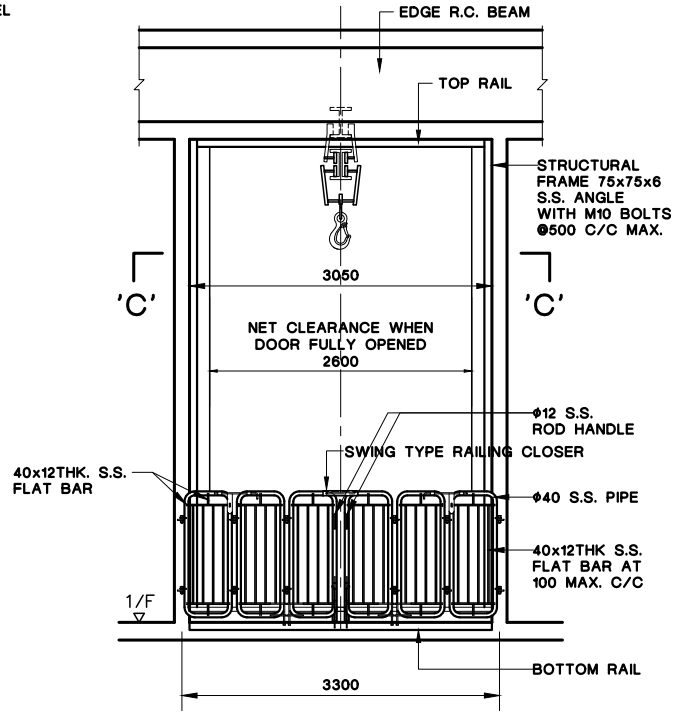


VIEW 'A' FROM THE OUTSIDE
(S.S. FOLDABLE DOOR IN CLOSED POSITION)



SECTION 'C - C'

NOTE: STEEL FOLDABLE DOOR IN CLOSED AND SEMI-OPEN POSITION.



VIEW 'B' FROM THE INSIDE
(S.S. FOLDABLE DOOR IN FULLY OPEN POSITION)

NOTES:

1. ALL CONNECTIONS FOR STAINLESS AND G.M.S. STEEL WORKS SHALL BE 3mm S.S. FILLET WELD, OR 3mm FILLET WELDED FOR G.M.S., ALL ROUND.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm .
4. ALL DIMENSIONS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE CONTRACTOR IS RESPONSIBLE TO CHECK AND AND SUBMIT THE DESIGN ACCORDING TO MATCH THEIR GENERAL BUILDING PLAN AND THEIR PROPOSED FIRE RATED DOOR.
5. RUBBER WEATHER PROOF STRIPES SHALL BE PROVIDED TO PREVENT INGRESS OF RAIN WATER DURING THE SEVERE RAINING CONDITION.
6. DESIGN OF FALL RESTRAINT SYSTEM SHALL FOLLOW THE TYPICAL DRAWING T-COP-10250-D-E33-0103-38.
7. IF THE PROVISION OF FALL RESTRAINT SYSTEM IS NOT REASONABLY PRACTICABLE, FALL ARREST SYSTEM SHALL BE PROVIDED AS THE LAST RESORT.
8. ALL DIMENSIONS ARE IN mm.

B	MAXIMUM HEIGHT OF UPPER FLOOR SUBSTATION UPDATED.	A	ANCHOR POINTS DELETED, NOTE ADDED.

REVS.	17.12.18 A	20.03.20 B	C	D	E	F	G	H	J	K	L
INITIAL	H.T.YU	H.T.YU									

CLP 中電

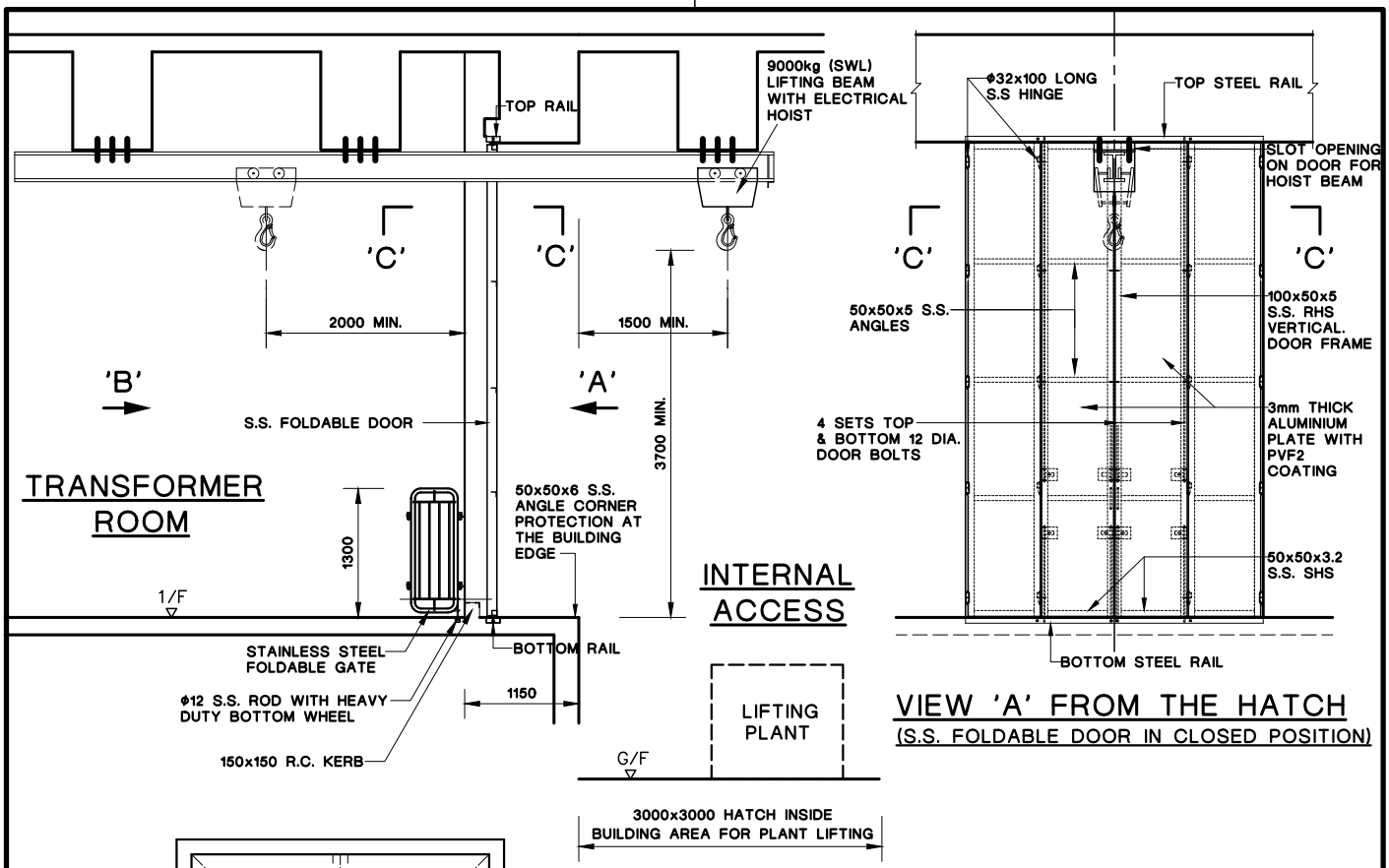
DRAWN:	M. S. FONG	DATE:	27 APR., 2017
CHECKED:	M. S. FONG	APPROVED:	GARY KWOK
SCALE:	1 : 75	SHEET(S) IN SET:	1

TITLE :

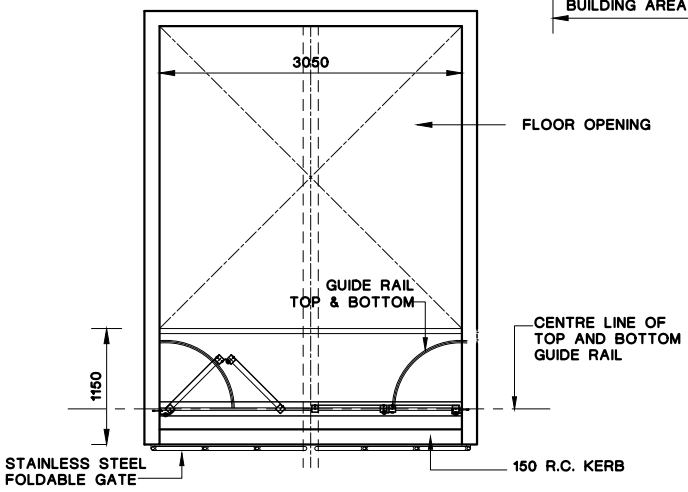
TYPICAL DETAILS FOR UPPER FLOOR SUBSTATION WITH RETRACTABLE HOIST BEAM AND TROLLEY

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 3 3 2 B A

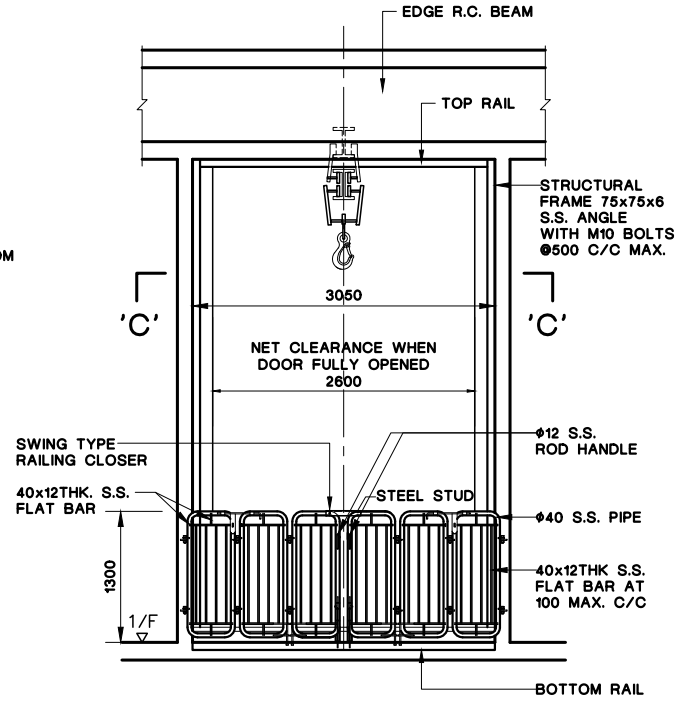


VIEW 'A' FROM THE HATCH
(S.S. FOLDABLE DOOR IN CLOSED POSITION)



SECTION 'C - C'

NOTE: STEEL FOLDABLE DOOR IN CLOSED AND SEMI-OPEN POSITION.



VIEW 'B' FROM THE INSIDE
(S.S. FOLDABLE DOOR IN FULLY OPEN POSITION)

NOTES:

1. ALL CONNECTIONS FOR STAINLESS AND G.M.S. STEEL WORKS SHALL BE 3mm S.S. FILLET WELD, OR 3mm FILLET WELDED FOR G.M.S., ALL ROUND.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm².
4. ALL DIMENSIONS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE CONTRACTOR IS RESPONSIBLE TO CHECK AND AND SUBMIT THE DESIGN ACCORDING TO MATCH THEIR GENERAL BUILDING PLAN AND THEIR PROPOSED FIRE RATED DOOR.
5. RUBBER WEATHER PROOF STRIPES SHALL BE PROVIDED TO PREVENT INGRESS OF RAIN WATER DURING THE SEVERE RAINING CONDITION.
6. DESIGN OF FALL RESTRAINT SYSTEM SHALL FOLLOW THE TYPICAL DRAWING T-COP-10250-D-E33-0103-38.
7. IF THE PROVISION OF FALL RESTRAINT SYSTEM IS NOT REASONABLY PRACTICABLE, FALL ARREST SYSTEM SHALL BE PROVIDED AS THE LAST RESORT.
8. ALL DIMENSIONS ARE IN mm.

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

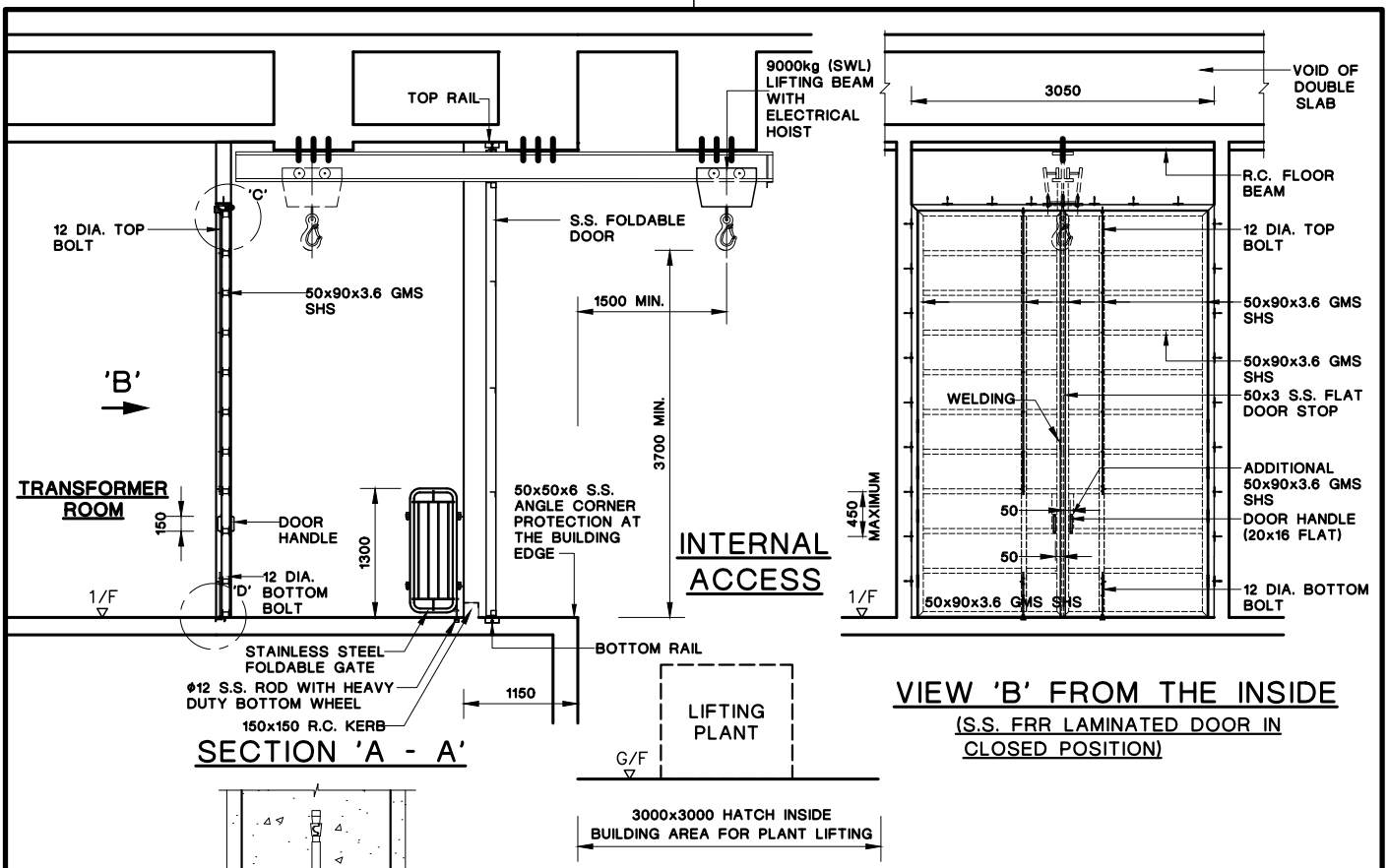
DRAWN:	C. W. WONG	DATE:	20 MAR., 2020
CHECKED:	EDMOND YU	APPROVED:	Y. S. YEUNG
SCALE:	1 : 75	SHEET(S) IN SET:	1

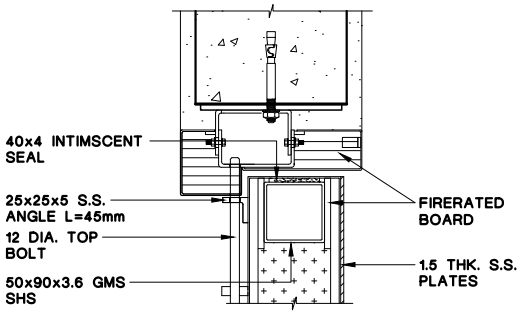
TITLE :

TYPICAL DETAILS FOR UPPER FLOOR SUBSTATION WITH HOIST BEAM AND TROLLEY

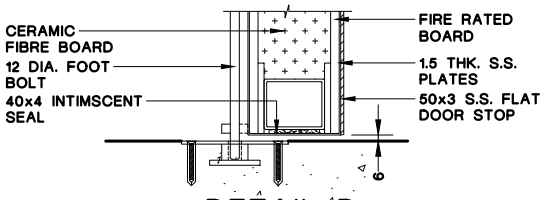
ASSET MANAGEMENT

DRG. NO. T COP 10250 D E33 0103 43 - A

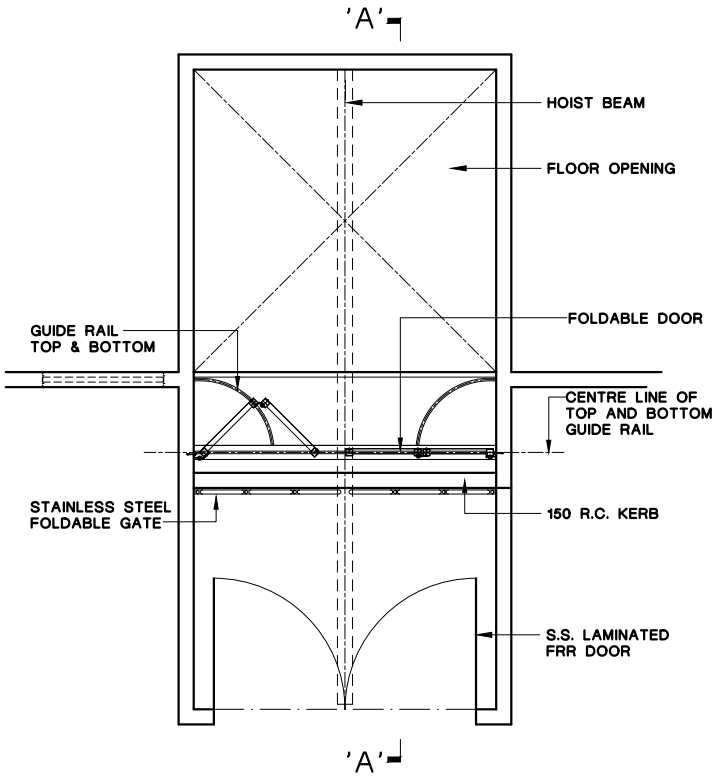




DETAIL C



DETAIL D



PLAN VIEW OF EQUIPMENT TRANSPORTION OPENING

NOTES:

1. ALL CONNECTIONS FOR STAINLESS AND G.M.S. STEEL WORKS SHALL SHALL BE 3mm S.S. FILLET WELD, OR 3mm FILLET WELDED FOR G.M.S. ALL ROUND.
2. ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
3. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm^2.
4. ALL DIMENSIONS ARE IN mm.
5. ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.
6. FOR RELEVANT SCHEMATIC FRR DOOR SECTIONS AND DETAILS, REFER DRAWING E33-0103-36.
7. THE DEVELOPER'S CONSULTANT SHOULD ENSURE THAT THE RELEVANT FIRE CERTIFICATE IS AVAILABLE AT PRELIMINARY DESIGN STAGE FOR THE FRR DOOR (WHERE APPLICABLE) SUCH THAT THE PROPOSED FRR DOOR WOULD COMPLY WITH ALL OTHER RELEVANT REGULATIONS, SUCH AS WIND LOAD REQUIREMENTS WHEN THE DOOR IS FACING EXTERNAL AIR.

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

CLP 中電

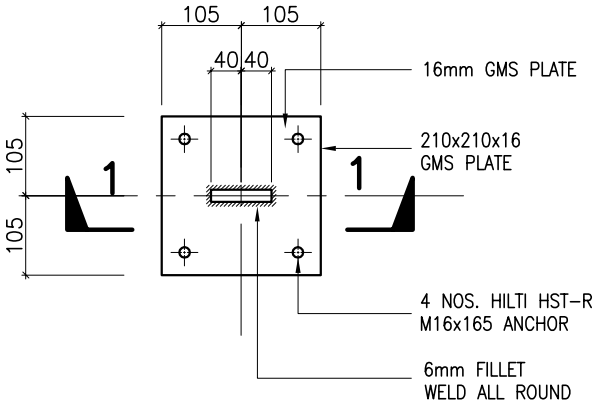
TITLE :

TYPICAL DETAILS FOR UPPER FLOOR SUBSTATION WITH HOIST BEAM AND TROLLEY AND PROTECTED LOBBY

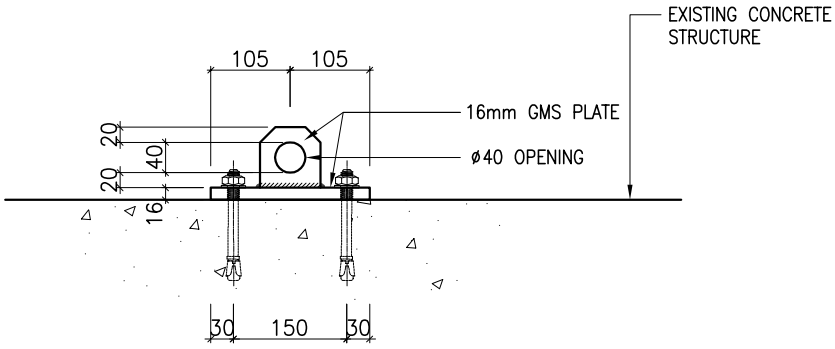
DRAWN:	C. W. WONG	DATE:	20 MAR., 2020
CHECKED:	EDMOND YU	APPROVED:	Y. S. YEUNG
SCALE:	1 : 75	SHEET(S) IN SET:	1

ASSET MANAGEMENT

DRG. NO. TCOP10250DE33010345-A



2 TONNES STEEL BRACKET



SECTION 1 – 1

NOTES FOR STRUCTURAL STEEL WORKS :-

1. ALL STRUCTURAL STEEL SHALL BE WELDABLE STRUCTURAL STEEL OF GRADE S275 CLASS 1 IN ACCORDANCE WITH BS EN 10025:2004.
2. ALL STRUCTURAL STEEL WORK INCLUDING STEEL SHALL BE HOT DIP GALVANIZED TO 85μm IN ACCORDANCE WITH BS EN ISO 1461:2009.
3 ALL WELDINGS SHALL BE 6mm FILLET WELD CONTINUOUSLY, UNLESS OTHERWISE STATED.

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

CLP 中電

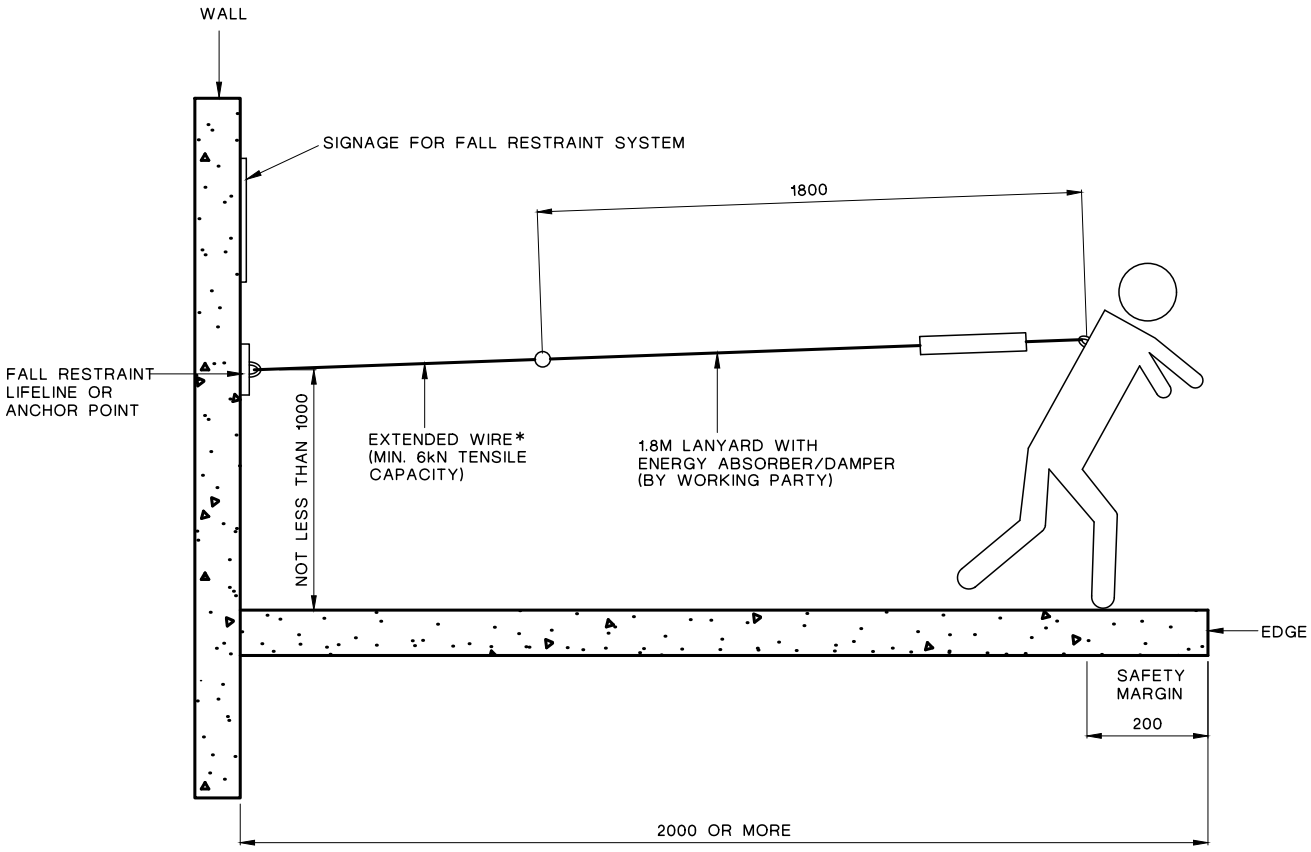
TITLE :

TYPICAL DETAILS OF HOOK FOR INDEPENDENT LIFELINE

DRAWN: M S FONG	DATE: 30 JUN 2017	PROJECT NO.	CONTRACT NO.
CHECKED: M S FONG	APPROVED: GARY KWOK		
SCALE: N. T. S.	SHEET(S) IN SET: 1		

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3301037-A



NOTES:

1. FOR FALL RESTRAINT LIFELINE, WALL MOUNTED TYPE DESIGN SHOULD BE ADOPTED WITH MAXIMUM SPAN LENGTH OF 10M. 3 NUMBER OF EXTENDED WIRE SHOULD BE PROVIDED.
2. THE FALL RESTRAINT LIFELINE SHALL BE CAPABLE OF SUPPORTING A MINIMUM SAFETY LOAD OF 18kN.
3. LENGTH OF EXTENDED WIRE IS SUBJECTED TO THE ACTUAL SITE CONDITION AND LAYOUT ORIENTATION.
4. IF ANCHOR POINT IS PROVIDED, IT SHALL BE CAPABLE OF SUPPORTING A MINIMUM SAFETY LOAD OF 6kN IN TENSION.
5. FALL PROTECTION SYSTEM SHALL COMPLY WITH EN795 STANDARD.
* 6. IF THE DISTANCE BETWEEN FALL RESTRAINT LIFELINE OR ANCHOR POINT AND THE EDGE IS MORE THAN 2M, EXTENED WIRE WILL BE REQUIRED.
7. ALL DIMENSIONS ARE IN mm.

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

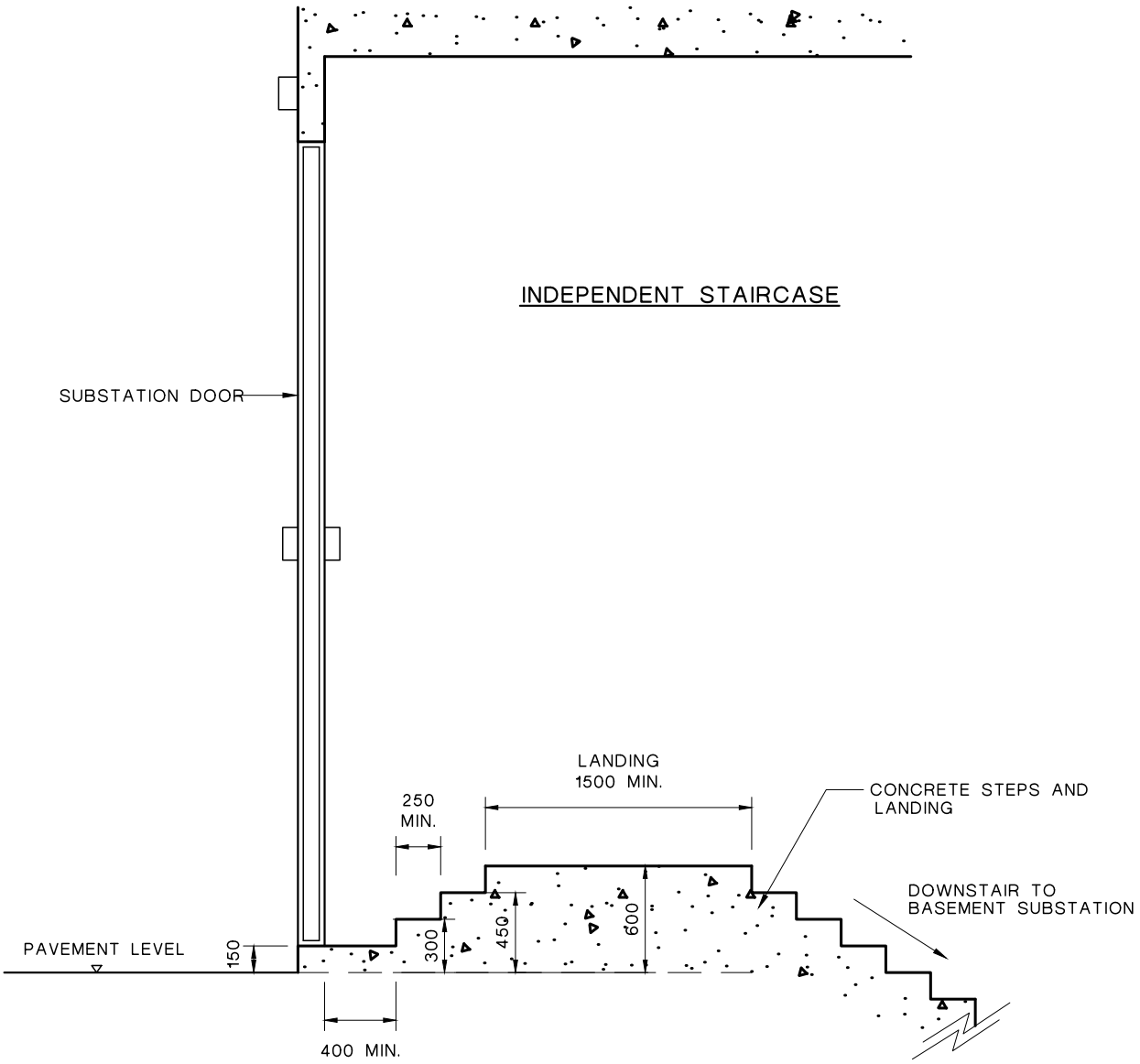
TITLE :

TYPICAL DESIGN OF FALL RESTRAINT SYSTEM

DRAWN:	T. W. LAU	DATE:	17 -12-2018
CHECKED:	H. T. YU	APPROVED:	W. C. HO
SCALE:	1 : 5 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. TCOP1025ODE3301033 8 - A



NOTES:

1. THE MINIMUM VERTICAL HEADROOM ABOVE ANY STEP SHOULD BE 2M.
2. IF AIR INTKE LOUVRE FOR NATURAL VENTILATION IS REQUIRED, THE LOWEST SIDE OF LOUVRE SHOULD BE INSTALLED AT MINIMUM 600mm ABOVE THE PAVEMENT LEVEL.
3. INSTALLATION OF FLOOD GATE AT LANDING AREA MAY BE REQUIRED SUBJECT TO THE DATUM LEVEL AT PAVEMENT
4. ALL DIMENSIONS ARE IN mm.

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

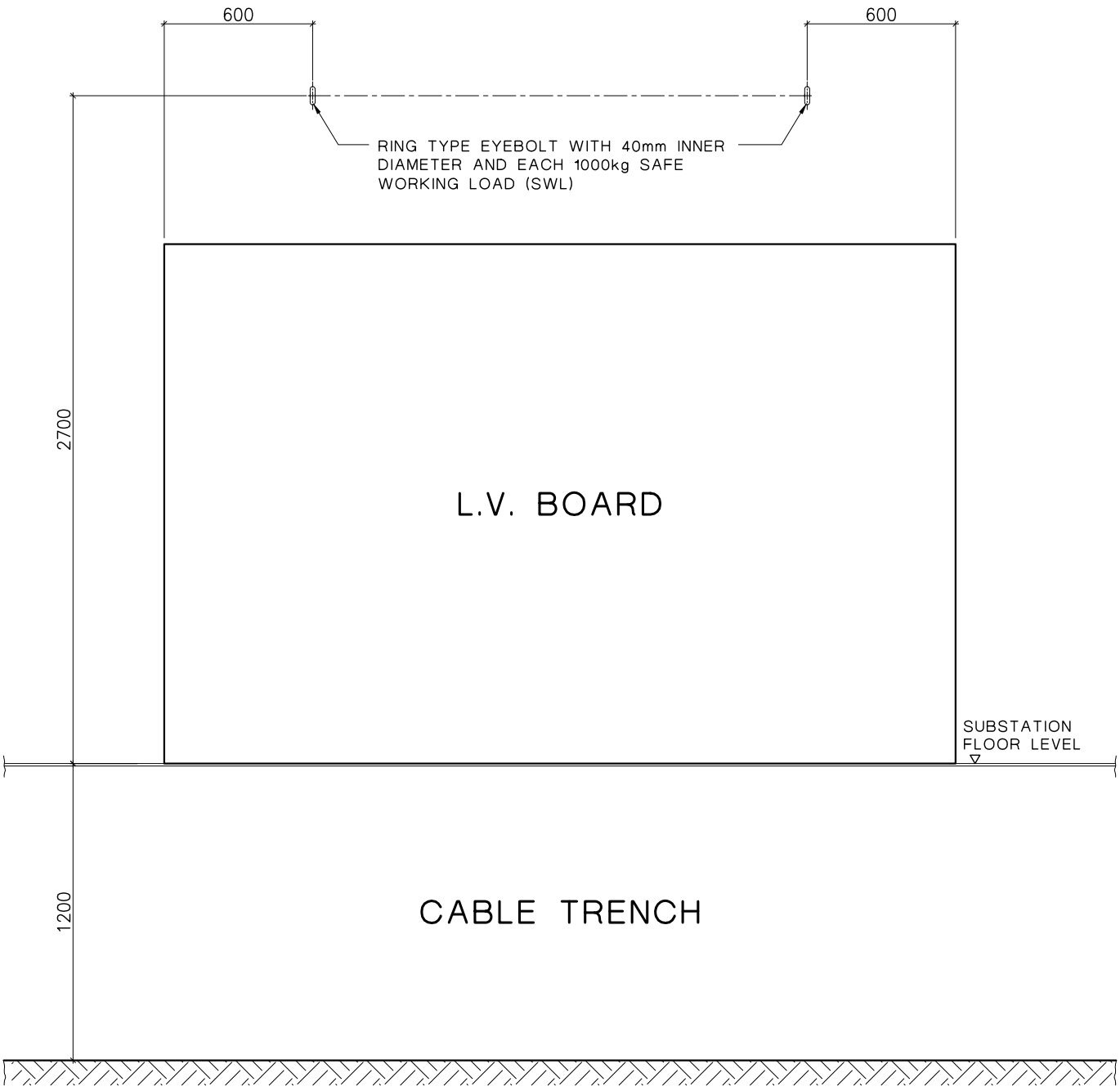
TITLE :

TYPICAL DESIGN OF GROUND FLOOR ENTRANCE FOR BASEMENT SUBSTATION

DRAWN:	T.W.LAU	DATE:	24-1-2019
CHECKED:	EDMOND YU	APPROVED:	W.C. HO
SCALE:	N.T.S.	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. TCOP10250DE330103 39 - A



NOTES FOR EYEBOLT :-

1. ALL STRUCTURAL STEEL SHALL BE WELDABLE STRUCTURAL STEEL OF GRADE S275 CLASS 1 IN ACCORDANCE WITH BS EN 10025:2004.
2. ALL STRUCTURAL STEEL WORK INCLUDING STEEL SHALL BE HOT DIP GALVANIZED TO 85μm IN ACCORDANCE WITH BS EN ISO 1461:2009.
3 ALL WELDINGS SHALL BE 6mm FILLET WELD CONTINUOUSLY, UNLESS OTHERWISE STATED.
4. ALL DIMENSIONS ARE IN mm.

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

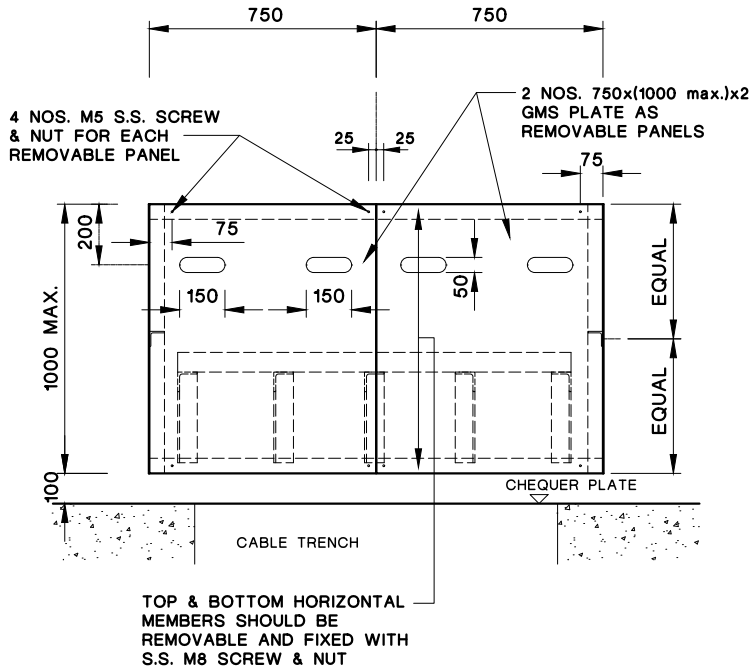
TITLE :

TYPICAL DETAILS OF EYEBOLT INSTALLATION FOR L.V. BOARD

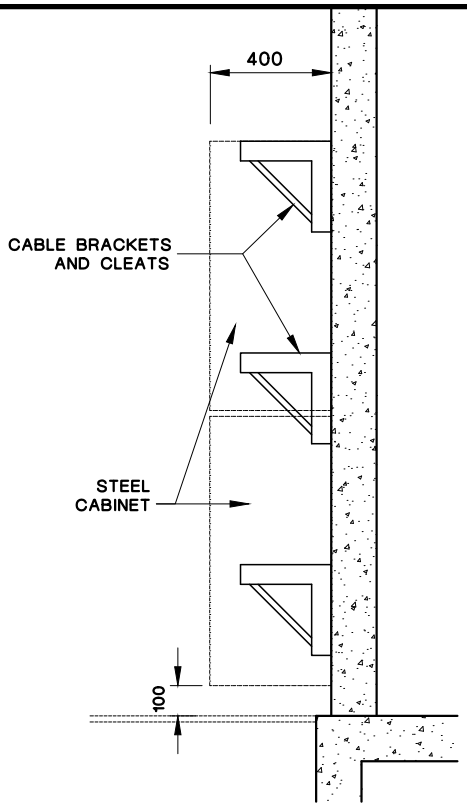
DRAWN:	C. W. WONG	DATE:	20 AUG., 2019
CHECKED:	EDMOND YU	APPROVED:	W. C. HO
SCALE:	N. T. S.	SHEET(S) IN SET:	1

ASSET MANAGEMENT

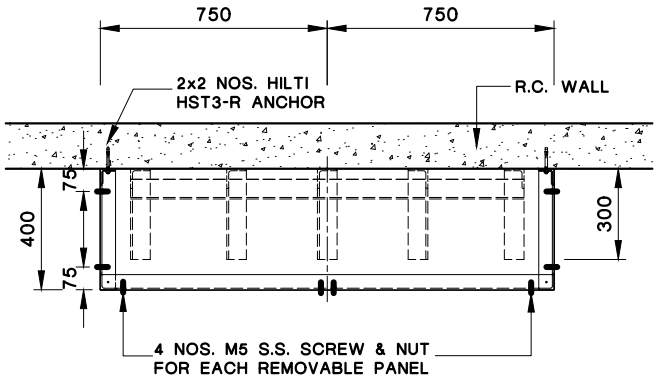
DRG. NO. TCOP1025ODE330103401-A



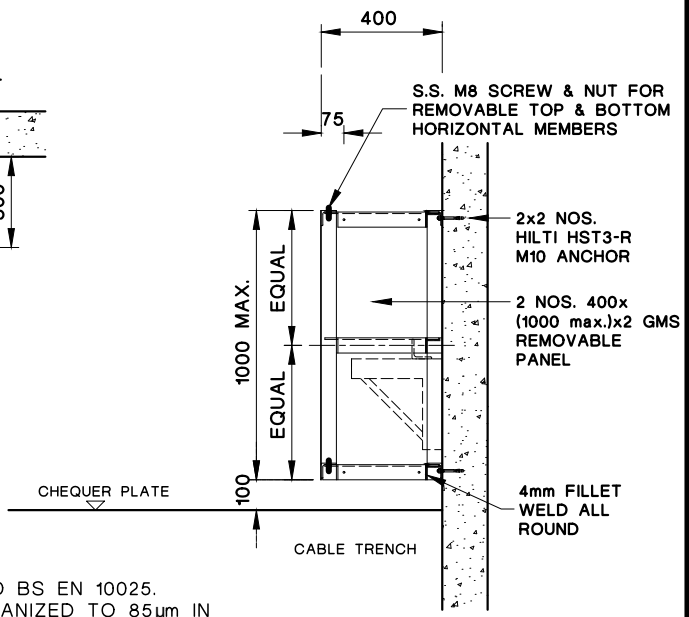
FRONT VIEW



TYPICAL ARRANGEMENT



PLAN VIEW



END VIEW

NOTES:

1. ALL STRUCTURAL STEEL WORKS SHALL BE GRADE 275 TO BS EN 10025.
2. ALL STRUCTURAL STEEL WORKS SHALL BE HOT DIP GALVANIZED TO 85µm IN ACCORDANCE WITH BS EN ISO 1461:2009.
3. ALL STAINLESS STEEL FASTENERS SHALL BE GRADE A2-70 TO BS 6105.
4. ALL DIMENSIONS ARE IN mm.
5. ALL STEEL FRAME MEMBERS TO BE 50x50x5 GMS ANGLE.
6. ALL METAL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm^2.
7. REMOVABLE PANELS AND REMOVABLE HORIZONTAL MEMBERS ARE FIXED WITH S.S. SCREW & NUT. ALL STEEL NUTS SHALL BE SPOT WELDED TO THEIR SUPPORT STEEL MEMBERS.
8. PROVIDE 4mm FILLET WELD ALL ROUND FOR ALL STEEL FRAME MEMBERS, UNLESS OTHER SHOWN.

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

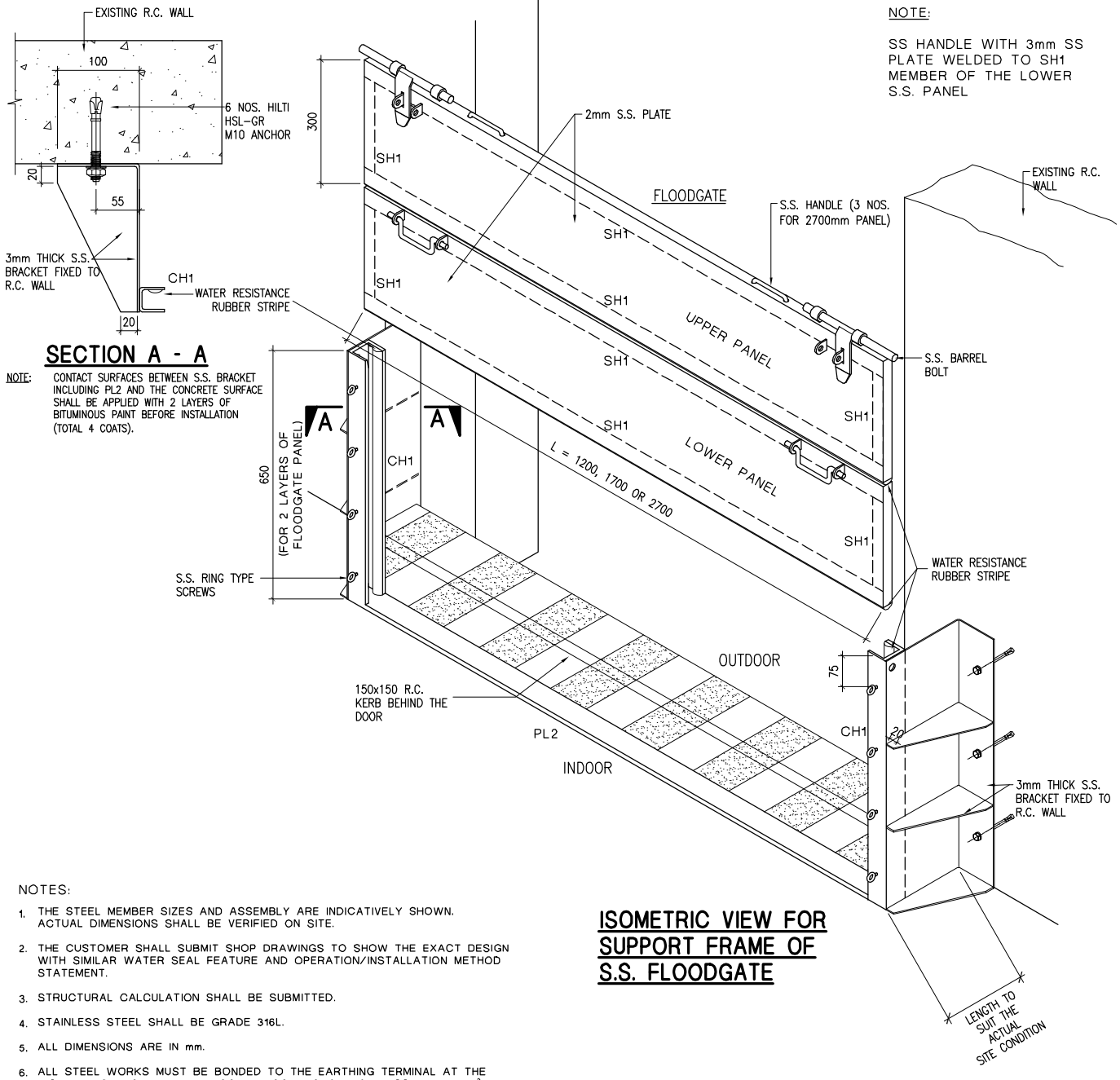
TITLE :

STEEL CABINET FOR SINGLE CORE CABLE BRACKETS AND CLEATS IN CUSTOMER MAIN SWITCH ROOM

DRAWN:	M.S. FONG	DATE:	10-03-2020
CHECKED:	M.S. FONG	APPROVED:	GARY KWOK
SCALE:	N.T.S.	SHEET(S) IN SET:	1

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010344-A



SECTION A - A

NOTE: CONTACT SURFACES BETWEEN S.S. BRACKET INCLUDING PL2 AND THE CONCRETE SURFACE SHALL BE APPLIED WITH 2 LAYERS OF BITUMINOUS PAINT BEFORE INSTALLATION (TOTAL 4 COATS).

ISOMETRIC VIEW FOR SUPPORT FRAME OF S.S. FLOODGATE

NOTES:

1. THE STEEL MEMBER SIZES AND ASSEMBLY ARE INDICATIVELY SHOWN. ACTUAL DIMENSIONS SHALL BE VERIFIED ON SITE.
2. THE CUSTOMER SHALL SUBMIT SHOP DRAWINGS TO SHOW THE EXACT DESIGN WITH SIMILAR WATER SEAL FEATURE AND OPERATION/INSTALLATION METHOD STATEMENT.
3. STRUCTURAL CALCULATION SHALL BE SUBMITTED.
4. STAINLESS STEEL SHALL BE GRADE 316L.
5. ALL DIMENSIONS ARE IN mm.
6. ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH A COPPER CONDUCTOR NOT LESS THAN 6mm².
7. MINIMUM 2mm FILLET WELD ALL ROUND FOR ALL STEEL MEMBER CONNECTIONS. EXCEPT OTHERWISE SHOWN.

STAINLESS STEEL MEMBER SIZE SCHEDULE FOR FLOODGATE

MEMBER MARK \ LENGTH (L)	1200	1700	2700
PL2	38x3 PLATE	38x3 PLATE	73x3 PLATE
*CH1	30x38x3 BENT CHANNEL	30x48x3 BENT CHANNEL	30x73x3 BENT CHANNEL
SH1	25x25x2	35x35x3	60x60x3

NOTE: * DENOTES THE S.S. BENT CHANNEL HEIGHT SHALL BE CO-ORDINATED WITH THE ACTUAL THICKNESS OF THE RUBBER STRIPE.

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

TITLE :

DETAILS OF STAINLESS STEEL FLOODGATE FOR SINGLE/DOUBLE LEAF DOOR

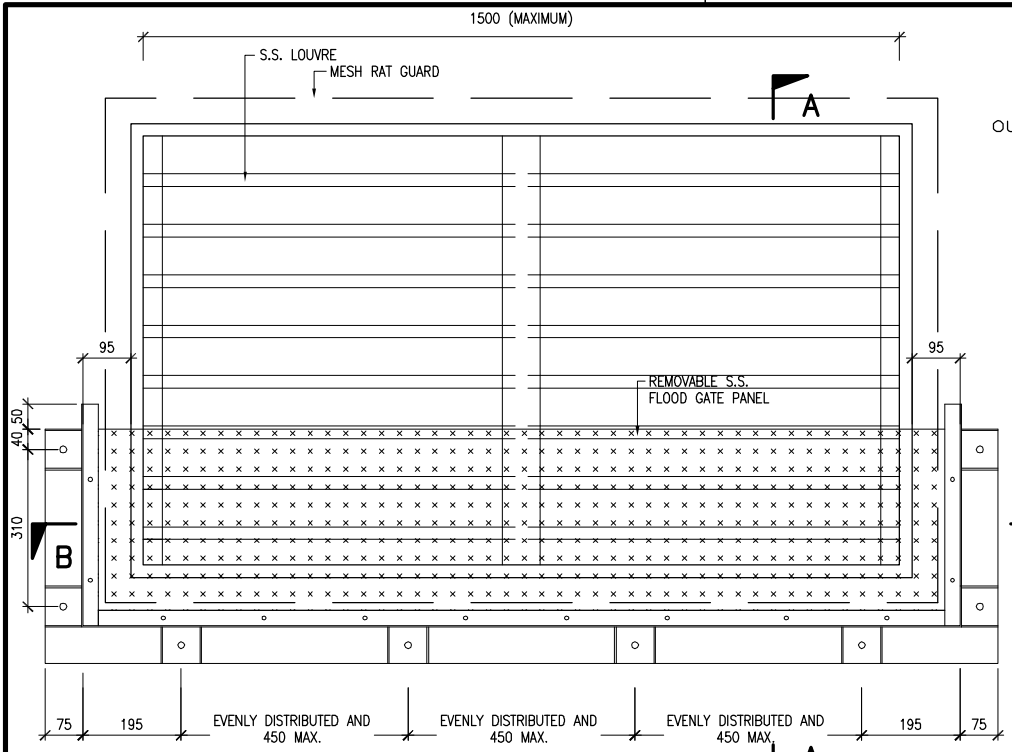
DRAWN:	M S FONG	DATE:	4 SEP, 2015
CHECKED:	M S FONG	APPROVED:	GARY KWOK
SCALE:	N. T. S.	SHEET(S) IN SET:	3

PROJECT NO.

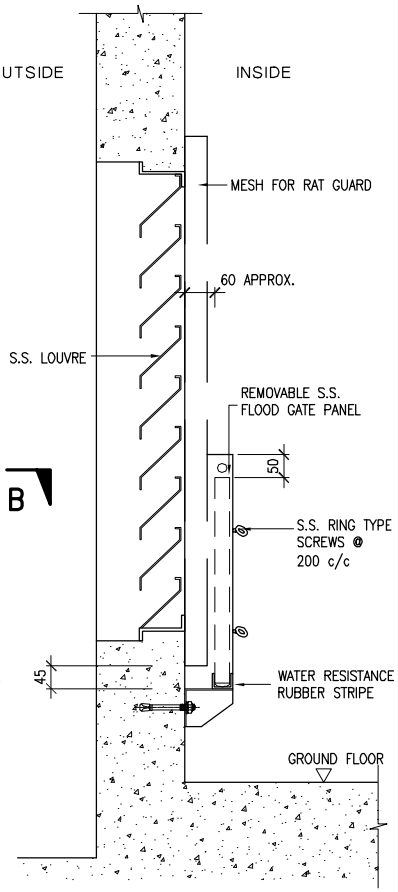
CONTRACT NO.

ASSET MANAGEMENT

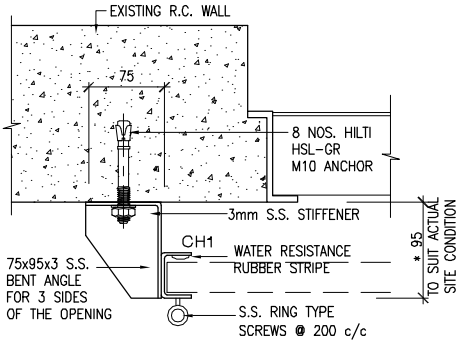
DRG. NO. TCOP10250DE3012012-A



LOUVRE ELEVATION FROM THE INSIDE WITH S.S. FLOODGATE

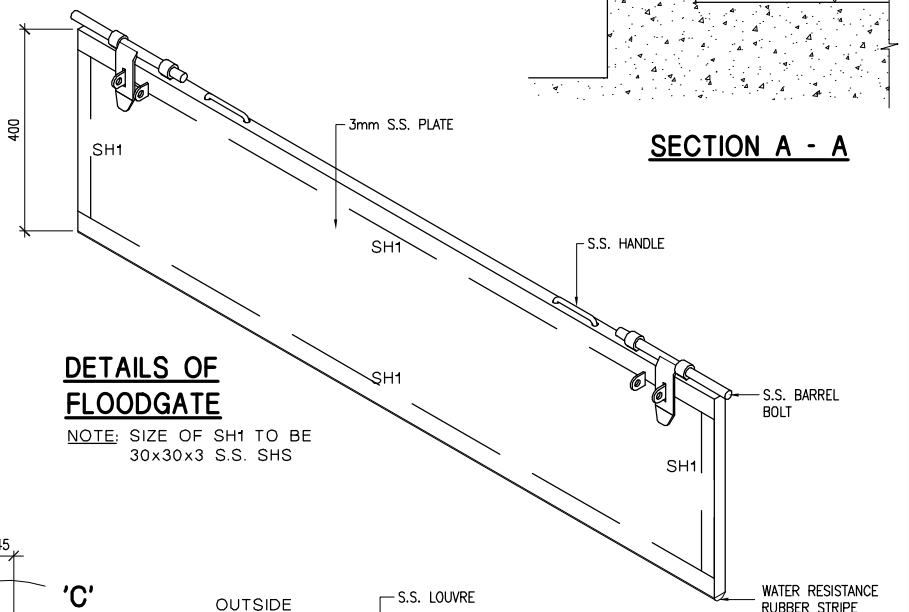


SECTION A - A



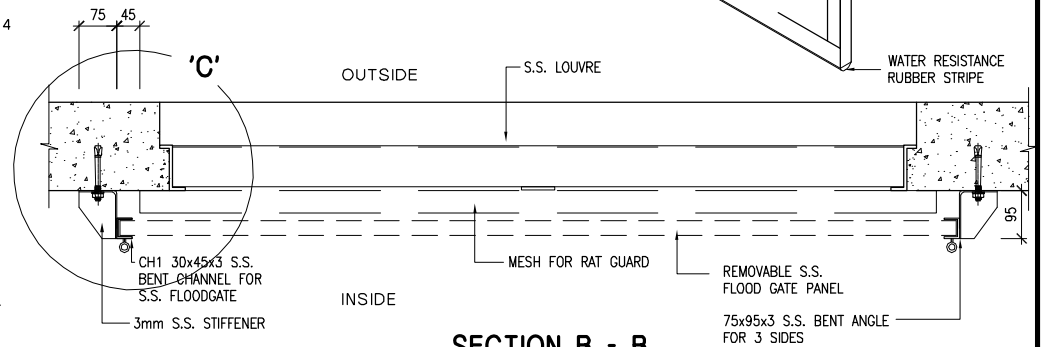
DETAIL 'C'

NOTE: CONTACT SURFACES BETWEEN S.S. BRACKET AND THE CONCRETE SURFACE SHALL BE APPLIED WITH 2 LAYERS OF BITUMINOUS PAINT BEFORE INSTALLATION (TOTAL 4 COATS).



DETAILS OF FLOODGATE

NOTE: SIZE OF SH1 TO BE 30x30x3 S.S. SHS



SECTION B - B

NOTE:

1. FOR GENERAL NOTES AND DETAIL OF S.S. FLOOD GATE, SEE DRAWING T-COP-10250-D-E33-0112-01.

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

CLP 中電

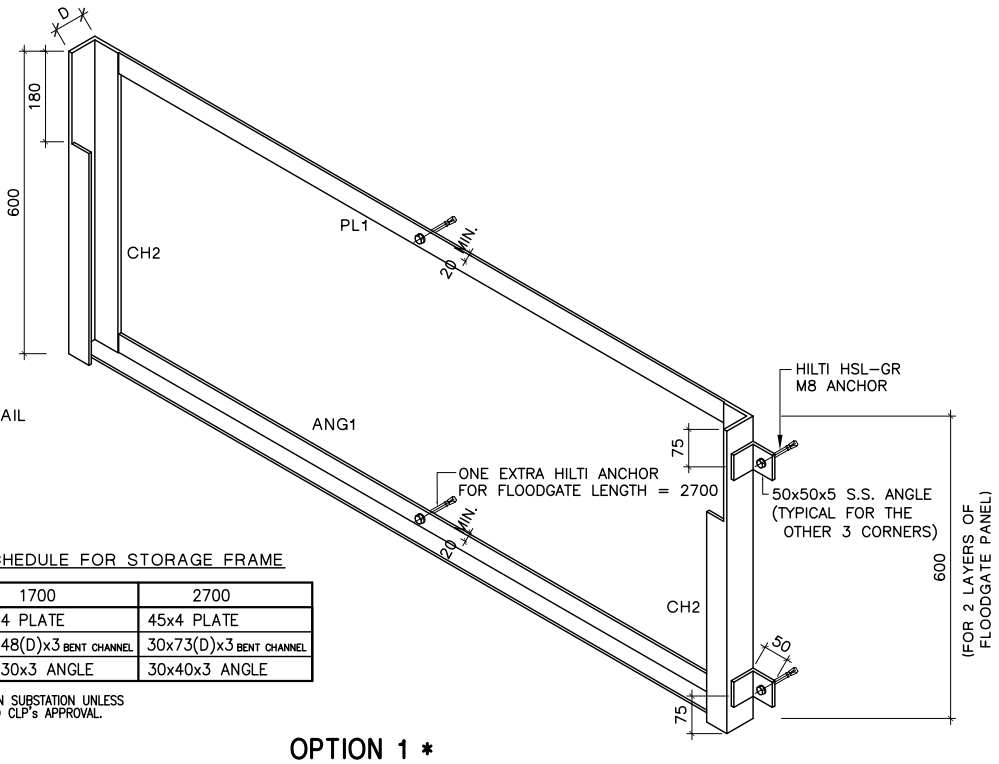
TITLE : DETAILS OF STAINLESS STEEL FLOODGATE FOR GROUND FLOOR LOUVRE

DRAWN:	M S FONG	DATE:	4 SEP., 2015
CHECKED:	M S FONG	APPROVED:	GARY KWOK
SCALE:	N.T.S	SHEET(S) IN SET:	3

PROJECT NO. | CONTRACT NO.

ASSET MANAGEMENT

DRG. NO. T-COP-10250-D-E33-0112-02-A



NOTE:

1. FOR GENERAL NOTES AND DETAIL OF S.S. FLOOD GATE, SEE DRAWING T-COP-10250-D-E33-0112-01.
2. D REFERS TO D OF CH2

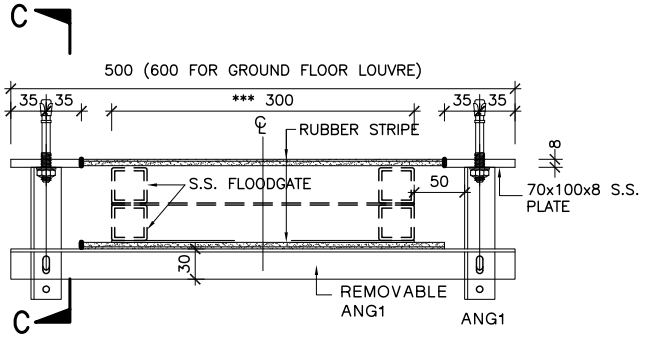
STAINLESS STEEL MEMBER SIZE SCHEDULE FOR STORAGE FRAME

MEMBER MARK \ LENGTH (L)	1200	1700	2700
PL1	25x4 PLATE	30x4 PLATE	45x4 PLATE
CH2	30x38(D)x3 BENT CHANNEL	30x48(D)x3 BENT CHANNEL	30x73(D)x3 BENT CHANNEL
ANG1	30x30x3 ANGLE	30x30x3 ANGLE	30x40x3 ANGLE

NOTE: * OPTION 1 IS PREFERRED TO BE INSTALLED IN SUBSTATION UNLESS THERE IS SPACE LIMITATION AND SUBJECT TO CLP's APPROVAL.

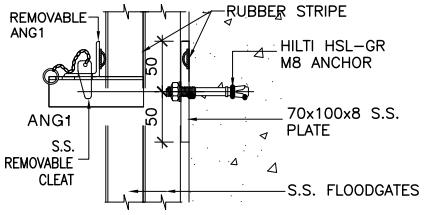
OPTION 1 *

ISOMETRIC VIEW OF STORAGE FRAME FOR S.S. FLOODGATE IN HORIZONTAL ARRANGEMENT

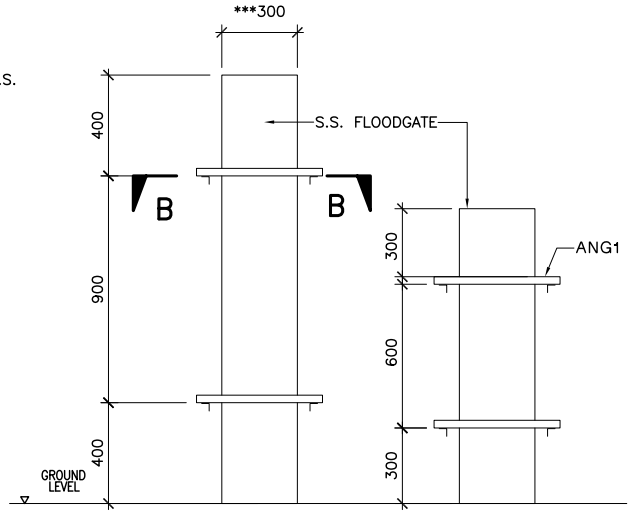


SECTION B - B (FOR OPTION 2)

NOTE: *** DENOTES 400 FOR S.S. FLOODGATE FOR GROUND FLOOR LOUVRE.



SECTION C - C (FOR OPTION 2)



OPTION 2 **FRONT VIEW FOR STORAGE FRAME FOR S.S. FLOODGATE IN VERTICAL ARRANGEMENT (FOR 1200 AND 1700 FLOODGATE ONLY)

NOTE: *** DENOTES 400 FOR S.S. FLOODGATE FOR GROUND FLOOR LOUVRE.

A	VERTICAL STORAGE FRAME ARRANGEMENT FOR 2700 LENGTH FLOODGATE IS DELETED.

REVS.	25.06.19										
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	H.T.YU										

CLP 中電

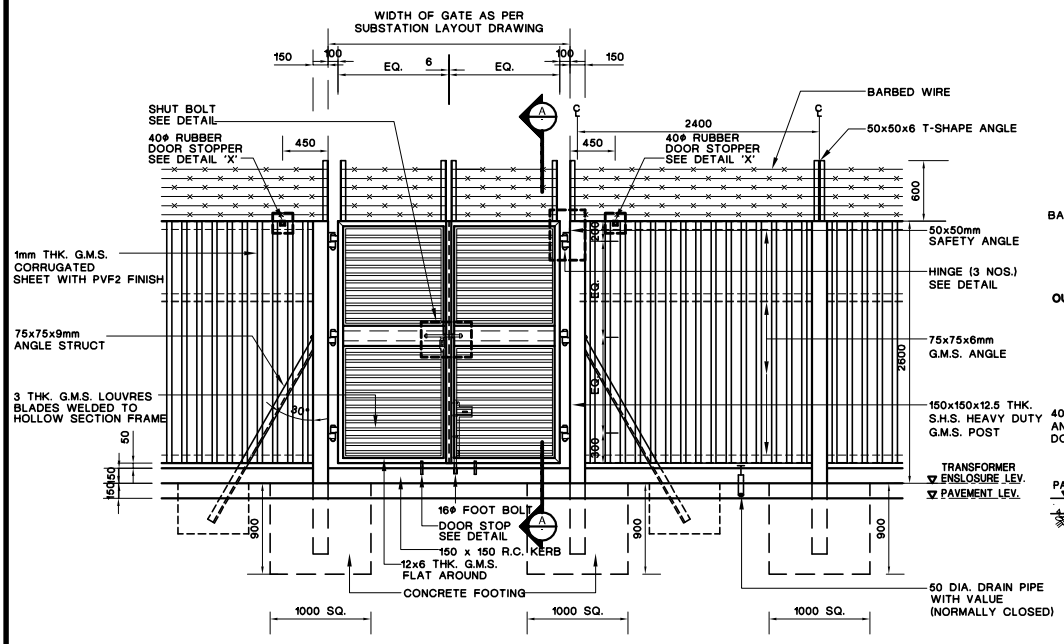
DRAWN:	M S FONG	DATE:	4 SEP., 2015
CHECKED:	M S FONG	APPROVED:	GARY KWOK
SCALE:	N. T. S.	SHEET(S) IN SET:	3

TITLE :

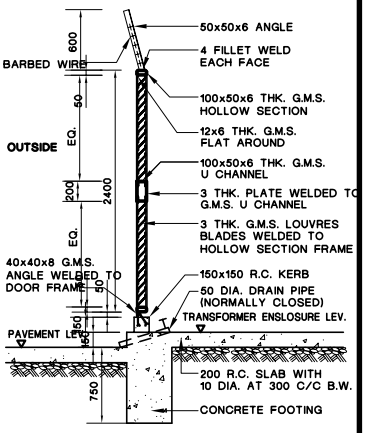
STAINLESS STEEL FLOODGATE STORAGE FRAME INSTALLATION DETAILS

ASSET MANAGEMENT

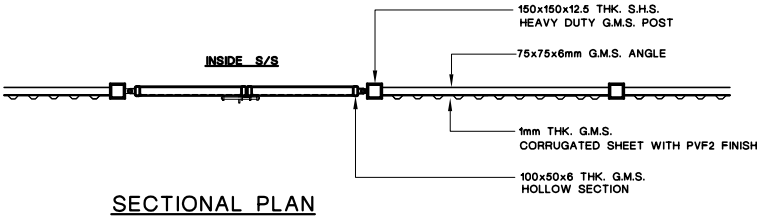
DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 1 2 0 3 A A



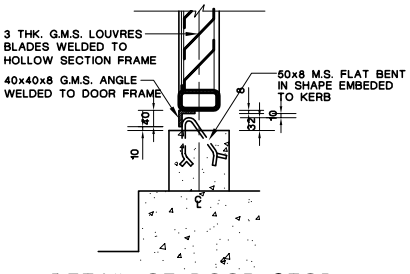
ELEVATION



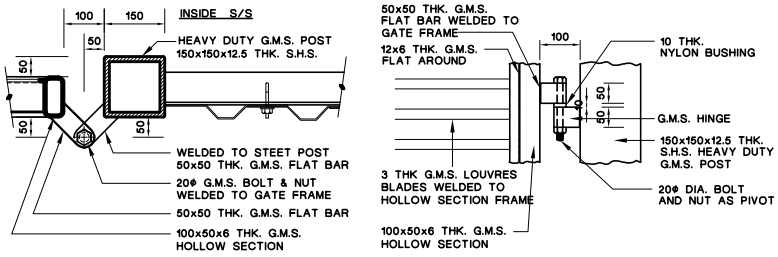
SECTION A-A



SECTIONAL PLAN

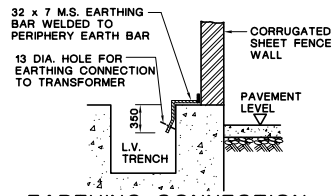


DETAIL OF DOOR STOP

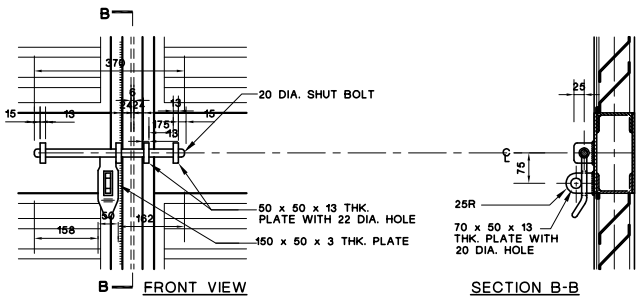


SECTIONAL PLAN ELEVATION

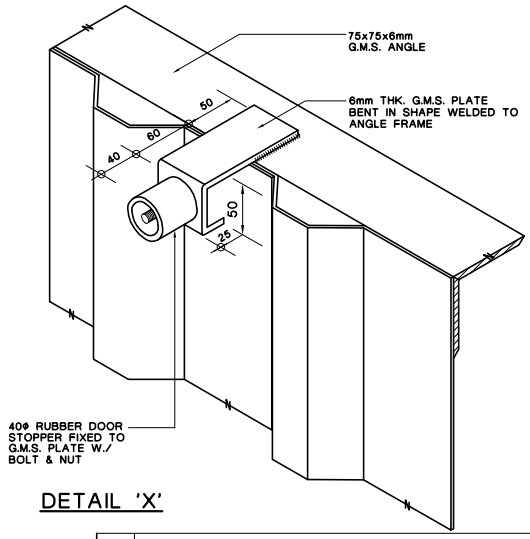
DETAIL OF HINGE



EARTHING CONNECTION



DETAIL OF SHUT BOLT



DETAIL 'X'

NOTES:

1. ALL STEELWORKS SHALL BE HOT DIP GALVANISED TO B.S. EN ISO 1461 AND FINISHED WITH ONE COAT OF CALCIUM PLUMBATE OR ZINC PHOSPHATE PRIMER AND TWO FINISHING COATS OF SYNTHETIC PAINT.
2. ALL DIMENSIONS ARE IN mm.

C	ZINC PRIMER ADDED

REVS.	21.12.05	9.11.06	20.08.07								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	C.H.F.	K.C.C.								

CLP 中電

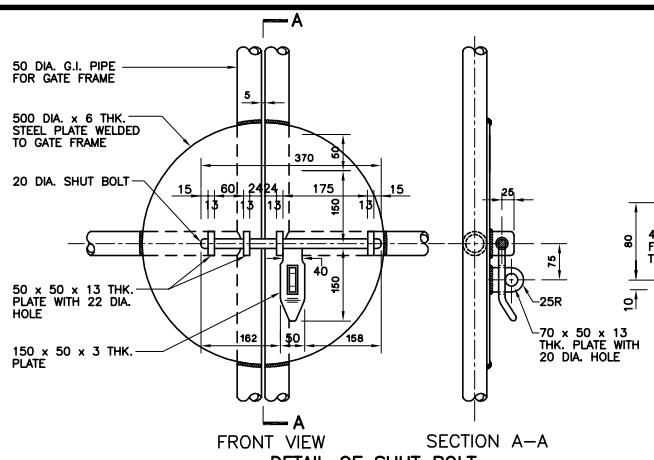
TITLE :

DETAILS OF METAL GATE AND FENCE WITH STEEL POST FOR OUTDOOR SUBSTATION

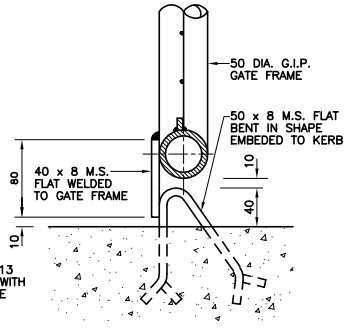
DRAWN:	O. S. YIP	DATE:	21 Dec., 2005
CHECKED:	C. H. FUNG	APPROVED:	W. C. HO
SCALE:	N. T. S.	SHEET(S) IN SET:	1

ASSET MANAGEMENT

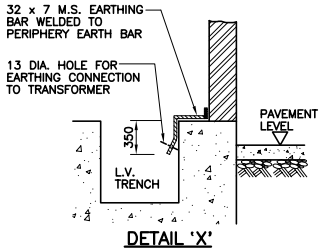
DRG. NO. TCOP10250DE3010401CA



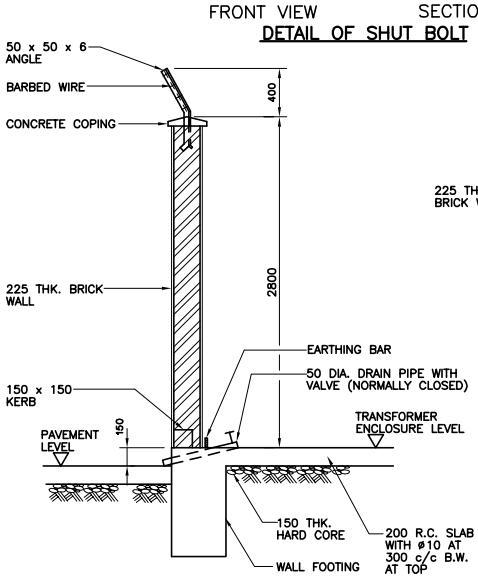
DETAIL OF SHUT BOLT



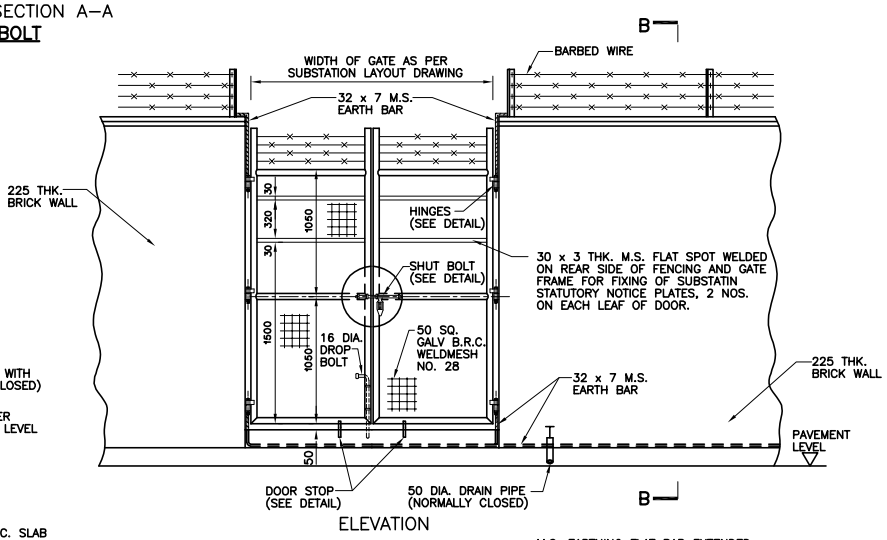
DETAIL OF DOOR STOP



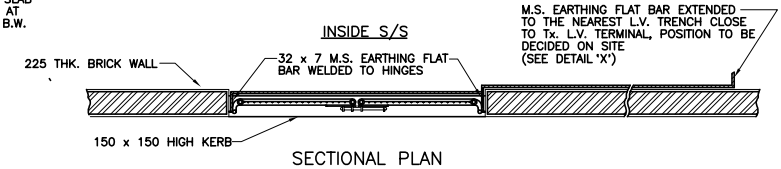
DETAIL 'X'



SECTION B–B

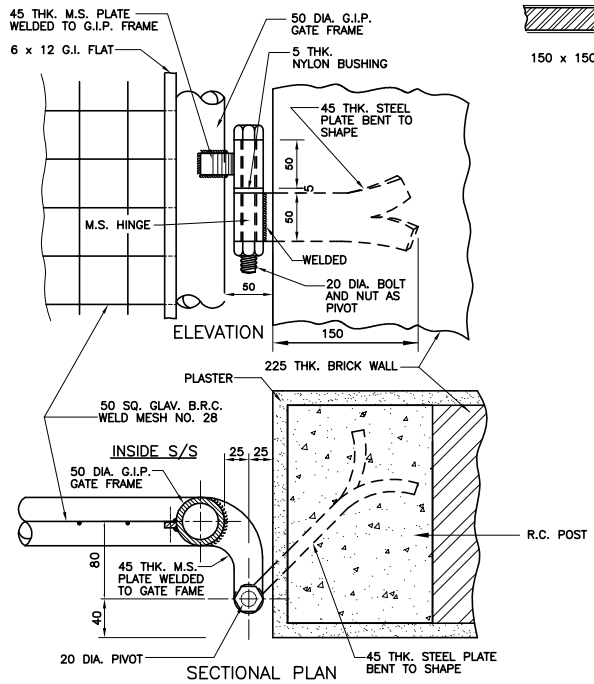


ELEVATION



SECTIONAL PLAN

DETAIL OF WIRE MESH METAL GATE



DETAIL OF HINGE

NOTES:

1. ALL STEELWORKS SHALL BE HOT DIP GALVANISED TO B.S. 729 EN ISO 1461 AND FINISHED WITH ONE COAT OF CALCIUM PLUMBATE PRIMER AND TWO FINISHING COATS OF SYNTHETIC PAINT.
2. ALL BRICK WALL TO BE BUILT IN 1 : 3 CEMENT MORTAR AND 20 THICK LIME PLASTER BOTH SIDES.
3. # – MILD STEEL
4. * – STAINLESS STEEL
5. ALL DIMENSIONS ARE IN mm.

B	GENERAL REVISION
A	ZINC PRIMER ADDED

CLP 中電

REVS.	15.11.07	15.12.09									
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.									

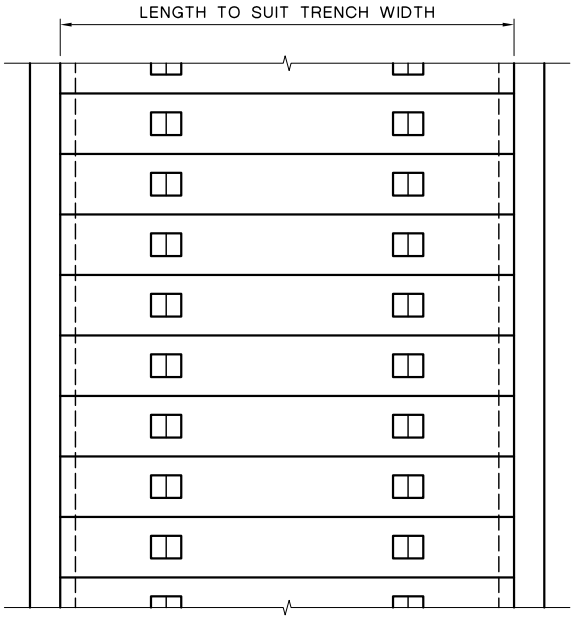
DRAWN:	K. F. CHEUNG	DATE:	26-07-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	N. T. S.	SHEET(S) IN SET:	

TITLE :

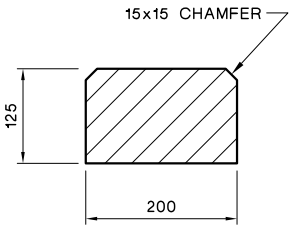
DETAILS OF METAL GATE AND BRICK WALL SURROUND FOR OUTDOOR SUBSTATION

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010403BA

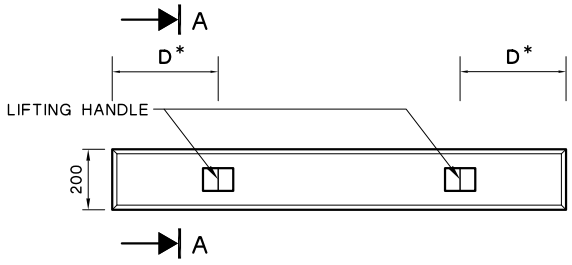


TYPICAL ARRANGEMENT OF
REINFORCED CONCRETE COVER

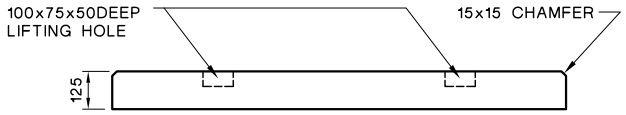


SECTION A-A

SCALE 1:10



PLAN VIEW



ELEVATION

TYPICAL DETAILS OF
REINFORCED CONCRETE COVER

NOTES:

1. THE MAX. WEIGHT OF THE CONCRETE COVER SHALL NOT EXCEED 75kg FOR EASY HANDLING.
2. THE COVERS SHALL BE DESIGNED BY THE BUILDING OWNER TO WITHSTAND THE REQUIRED LOADING OF THE SITE. (MIN. LOADING SHALL BE NOT LESS THAN 7.5kPa).
3. ALL DIMENSIONS ARE IN mm.

* THE CLEARANCE OF DISTANCE 'D' SHOULD NOT BE MORE THAN 250.

C	NOTE ADDED	B	GENERAL AMENDMENT	A	NOTES ADDED

REVS.	20.08.07	23.02.17	25.06.19	D	E	F	G	H	J	K	L
	A	B	C								
INITIAL	K.C.C.	H.T.YU	H.T.YU								

CLP 中電

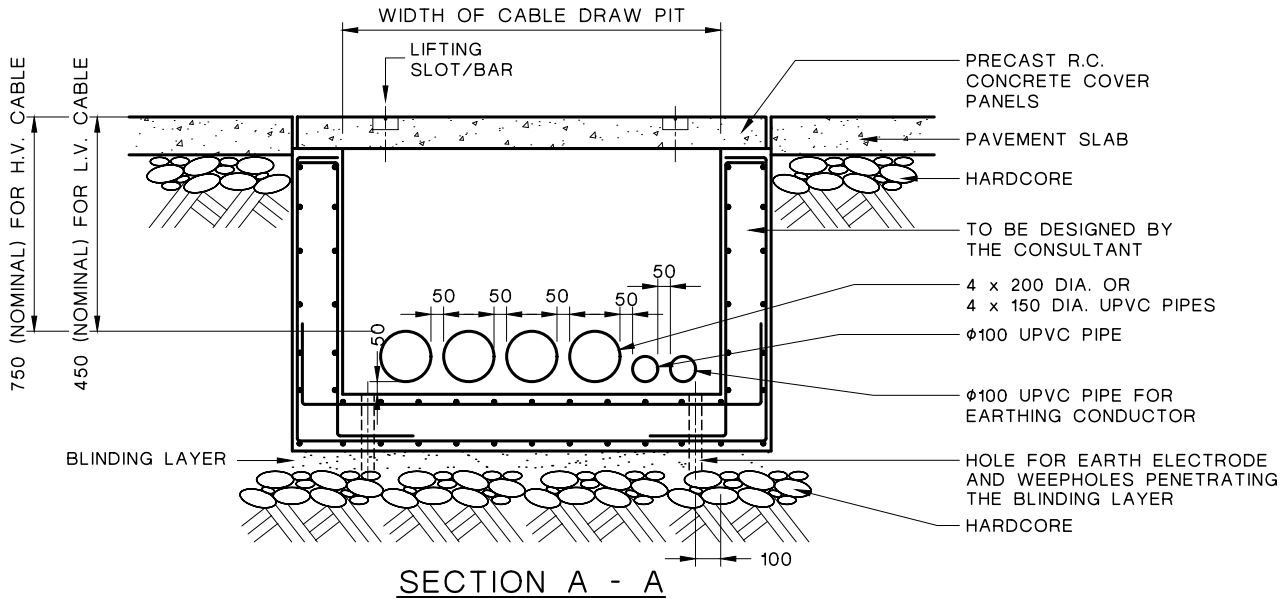
DRAWN: T. Y. IP	DATE: 8-8-2002
CHECKED: K. C. CHENG	APPROVED: K. W. WONG
SCALE: 1 : 25 (mm)	SHEET(S) IN SET:

TITLE :

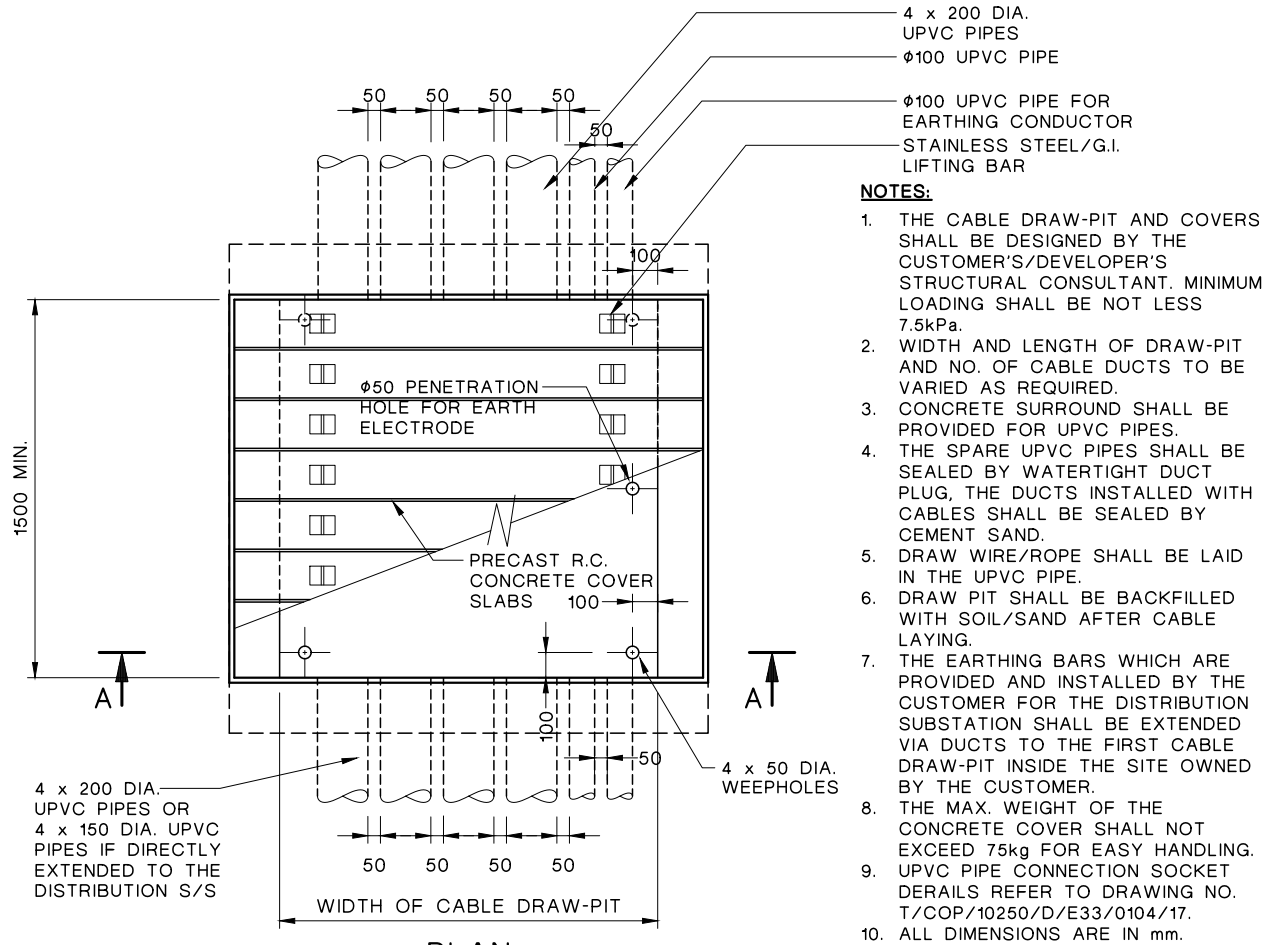
TYPICAL DETAILS OF R. C. COVER

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3301040 4CA



SECTION A - A



PLAN

NOTES:

1. THE CABLE DRAW-PIT AND COVERS SHALL BE DESIGNED BY THE CUSTOMER'S/DEVELOPER'S STRUCTURAL CONSULTANT. MINIMUM LOADING SHALL BE NOT LESS 7.5kPa.
2. WIDTH AND LENGTH OF DRAW-PIT AND NO. OF CABLE DUCTS TO BE VARIED AS REQUIRED.
3. CONCRETE SURROUND SHALL BE PROVIDED FOR UPVC PIPES.
4. THE SPARE UPVC PIPES SHALL BE SEALED BY WATERTIGHT DUCT PLUG, THE DUCTS INSTALLED WITH CABLES SHALL BE SEALED BY CEMENT SAND.
5. DRAW WIRE/ROPE SHALL BE LAID IN THE UPVC PIPE.
6. DRAW PIT SHALL BE BACKFILLED WITH SOIL/SAND AFTER CABLE LAYING.
7. THE EARTHING BARS WHICH ARE PROVIDED AND INSTALLED BY THE CUSTOMER FOR THE DISTRIBUTION SUBSTATION SHALL BE EXTENDED VIA DUCTS TO THE FIRST CABLE DRAW-PIT INSIDE THE SITE OWNED BY THE CUSTOMER.
8. THE MAX. WEIGHT OF THE CONCRETE COVER SHALL NOT EXCEED 75kg FOR EASY HANDLING.
9. UPVC PIPE CONNECTION SOCKET DERAILS REFER TO DRAWING NO. T/COP/10250/D/E33/0104/17.
10. ALL DIMENSIONS ARE IN mm.

F	CABLE DRAW-PIT DETAILS UPDATED AND NOTES ADDED
E	NOTES ADDED

CLP 中電

REVS.	20.08.07	21.10.08	26.03.12	18.03.14	20.09.19	12.05.20					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU					

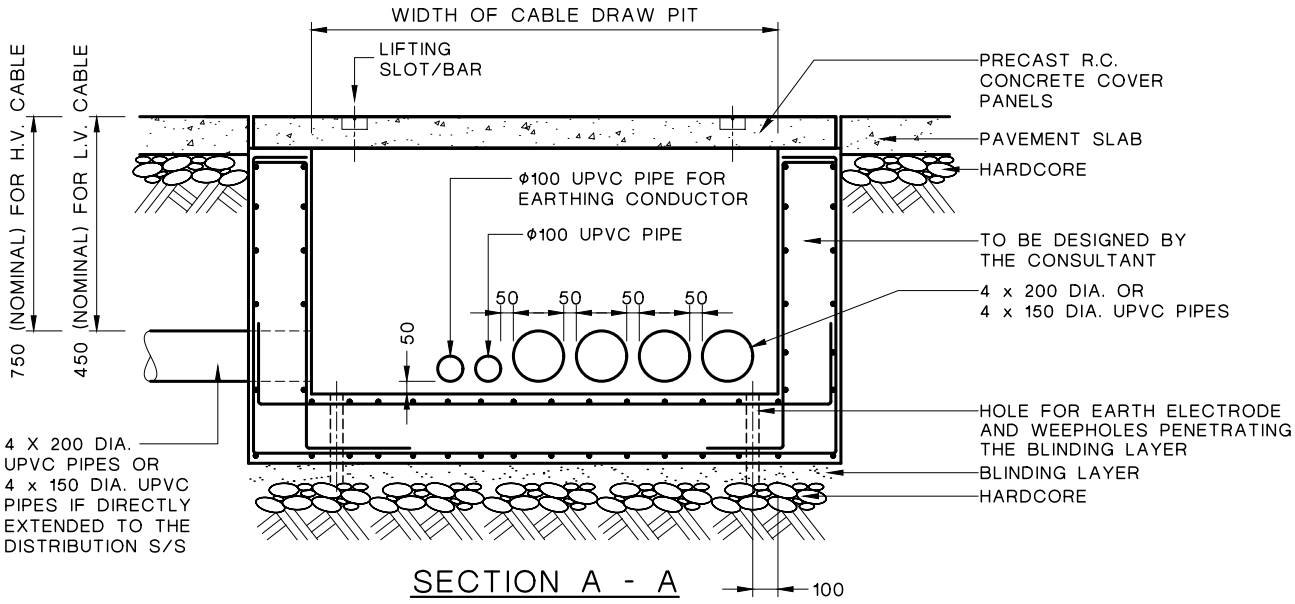
DRAWN:	C. W. WONG	DATE:	17 Sep., 2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	N. T. S.	SHEET(S) IN SET:	1

TITLE :

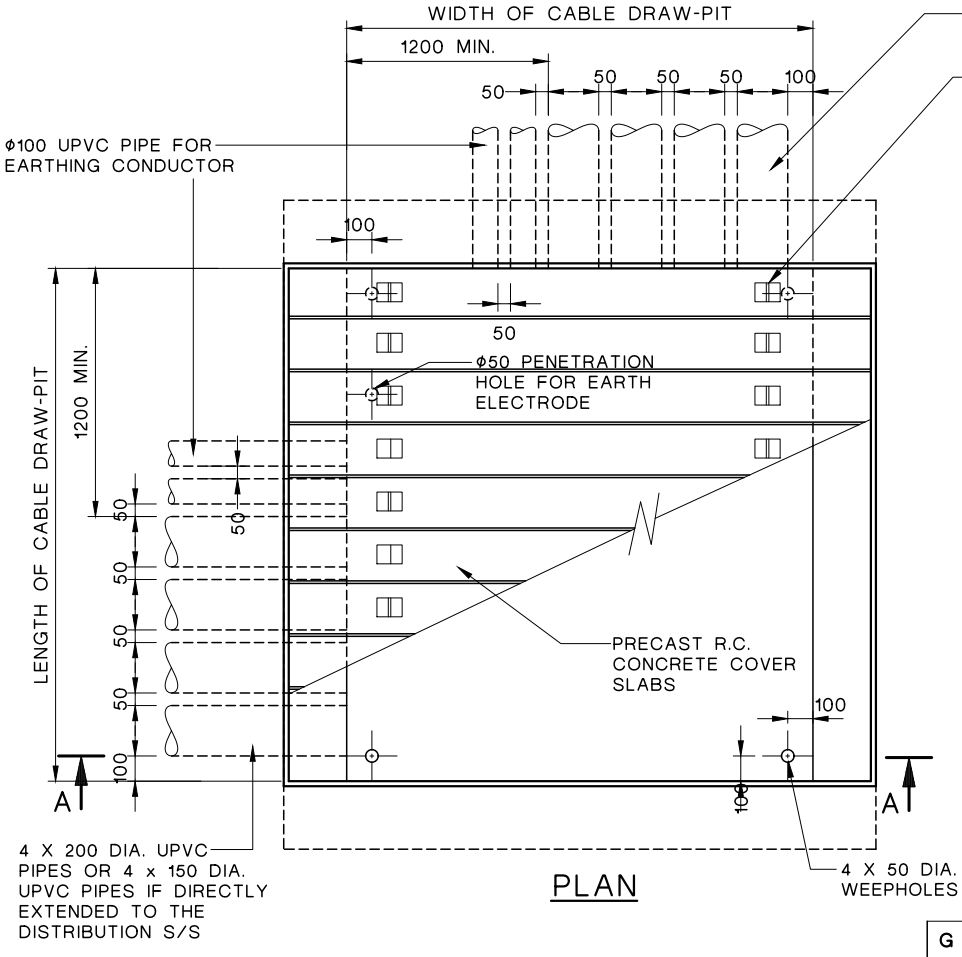
TYPICAL DETAILS OF CABLE DRAW-PIT (STRAIGHT APPLICATION)

ASSET MANAGEMENT

DRG. NO. T/COP/10250/DE33/0104/05/F/A



SECTION A - A



PLAN

NOTES:

1. THE CABLE DRAW-PIT AND COVERS SHALL BE DESIGNED BY THE CUSTOMER'S/DEVELOPER'S STRUCTURAL CONSULTANT. MINIMUM LOADING SHALL BE NOT LESS 7.5kPa.
2. WIDTH AND LENGTH OF DRAW-PIT AND NO. OF CABLE DUCTS TO BE VARIED AS REQUIRED.
3. CONCRETE SURROUND SHALL BE PROVIDED FOR UPVC PIPES.
4. THE SPARE UPVC PIPES SHALL BE SEALED BY WATERTIGHT DUCT PLUG, THE DUCTS INSTALLED WITH CABLES SHALL BE SEALED BY CEMENT SAND.
5. DRAW WIRE/ROPE SHALL BE LAID IN THE UPVC PIPE.
6. DRAW PIT SHALL BE BACKFILLED WITH SOIL/SAND AFTER CABLE LAYING.
7. THE EARTHING BARS WHICH ARE PROVIDED AND INSTALLED BY THE CUSTOMER FOR THE DISTRIBUTION SUBSTATION SHALL BE EXTENDED VIA DUCTS TO THE FIRST CABLE DRAW-PIT INSIDE THE SITE OWNED BY THE CUSTOMER.
8. THE MAX. WEIGHT OF THE CONCRETE COVER SHALL NOT EXCEED 75kg FOR EASY HANDLING.
9. UPVC PIPE CONNECTION SOCKET DERAILS REFER TO DRAWING NO. T/COP/10250/D/E33/0104/17.
10. ALL DIMENSIONS ARE IN mm.

G	CABLE DRAW-PIT DETAILS UPDATED AND NOTES ADDED
F	NOTES ADDED

REVS.	20.08.07	21.10.08	26.03.12	18.03.14	27.06.17	20.09.19	20.05.20				
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU	H.T.YU				

CLP 中電

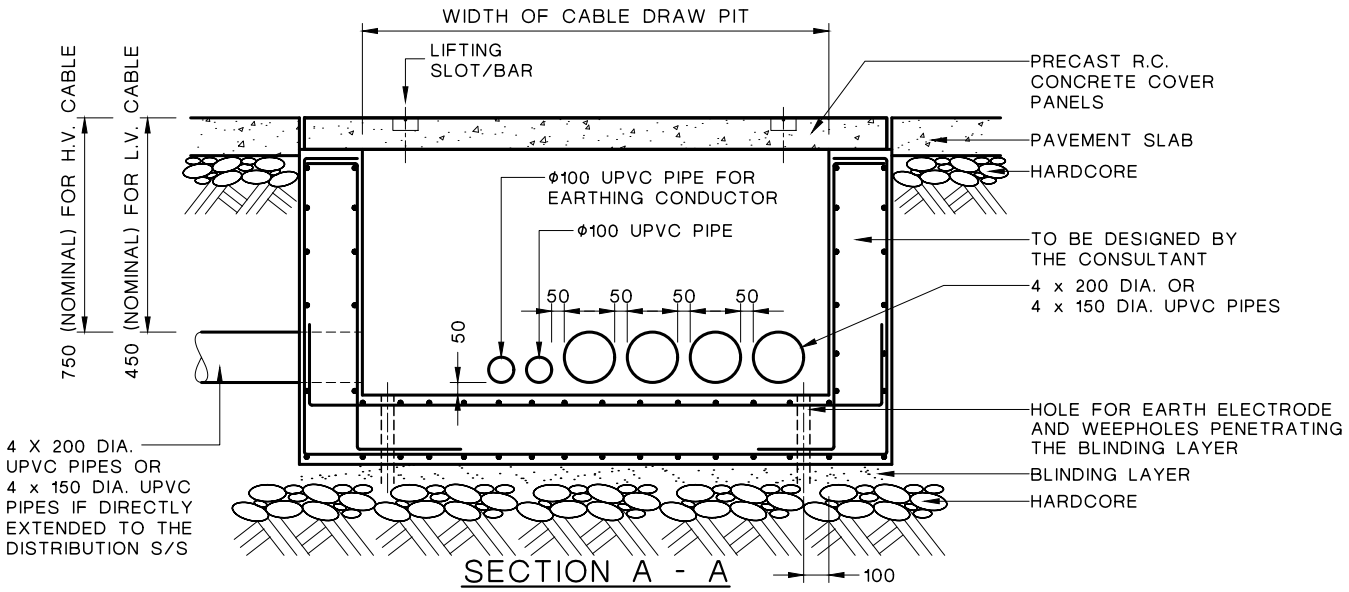
DRAWN:	C. W. WONG	DATE:	16 Sep., 2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	N. T. S.	SHEET(S) IN SET:	

TITLE :

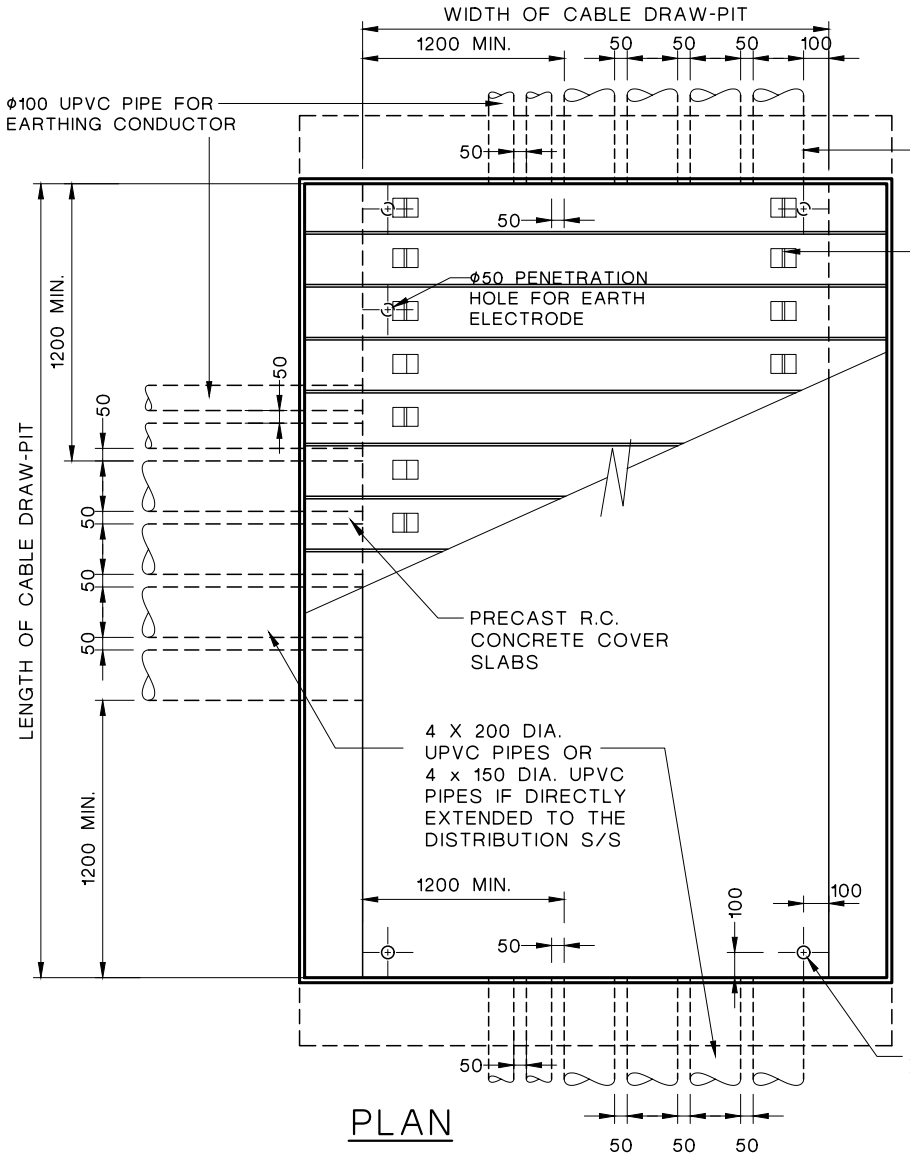
TYPICAL DETAILS OF CABLE DRAW-PIT (ANGLE APPLICATION)

ASSET MANAGEMENT

DRG. NO. T/COP/10250/D/E33/0104/06/G/A



SECTION A - A



PLAN

NOTES:

1. THE CABLE DRAW-PIT AND COVERS SHALL BE DESIGNED BY THE CUSTOMER'S/DEVELOPER'S STRUCTURAL CONSULTANT. MINIMUM LOADING SHALL BE NOT LESS 7.5kPa.
2. WIDTH AND LENGTH OF DRAW-PIT AND NO. OF CABLE DUCTS TO BE VARIED AS REQUIRED.
3. CONCRETE SURROUND SHALL BE PROVIDED FOR UPVC PIPES.
4. THE SPARE UPVC PIPES SHALL BE SEALED BY WATERTIGHT DUCT PLUG, THE DUCTS INSTALLED WITH CABLES SHALL BE SEALED BY CEMENT SAND.
5. DRAW WIRE/ROPE SHALL BE LAID IN THE UPVC PIPE.
6. DRAW PIT SHALL BE BACKFILLED WITH SOIL/SAND AFTER CABLE LAYING.
7. THE EARTHING BARS WHICH ARE PROVIDED AND INSTALLED BY THE CUSTOMER FOR THE DISTRIBUTION SUBSTATION SHALL BE EXTENDED VIA DUCTS TO THE FIRST CABLE DRAW-PIT INSIDE THE SITE OWNED BY THE CUSTOMER.
8. THE MAX. WEIGHT OF THE CONCRETE COVER SHALL NOT EXCEED 75kg FOR EASY HANDLING.
9. UPVC PIPE CONNECTION SOCKET DERAILS REFER TO DRAWING NO. T/COP/10250/D/E33/0104/17.
10. ALL DIMENSIONS ARE IN mm.

H	CABLE DRAW-PIT DETAILS UPDATED AND NOTES ADDED
G	NOTES ADDED

REVS.	10.3.03	20.08.07	21.10.08	26.03.12	18.03.14	27.06.17	20.09.19	12.05.20			
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU	H.T.YU	H.T.YU			

CLP 中電

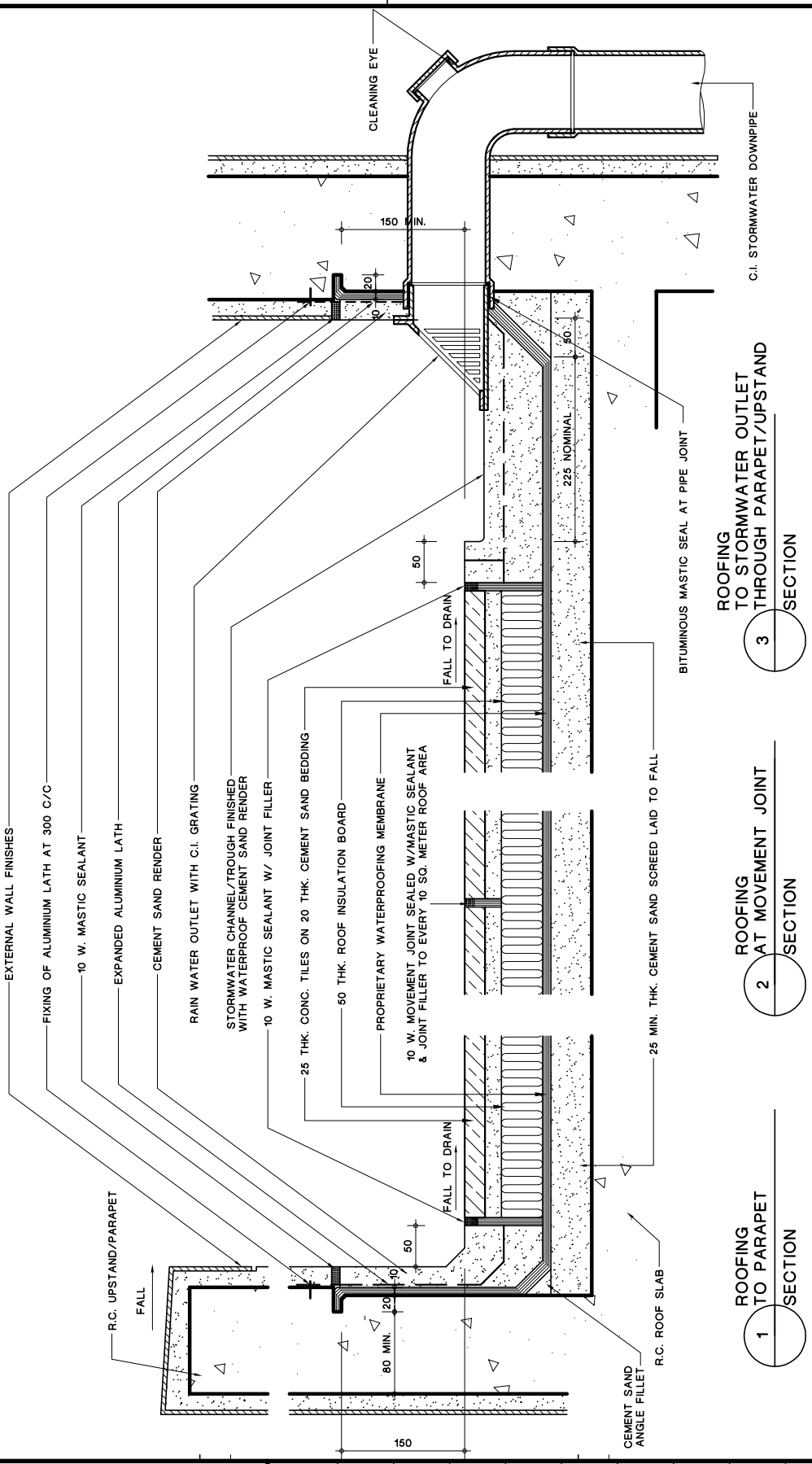
DRAWN:	C. W. WONG	DATE:	17 Sep., 2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	N. T. S.	SHEET(S) IN SET:	

TITLE :

TYPICAL DETAILS OF CABLE DRAW-PIT (TEE APPLICATION)

ASSET MANAGEMENT

DRG. NO. TCOP/10250/DE33/0104/07/H/A



CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

TITLE :

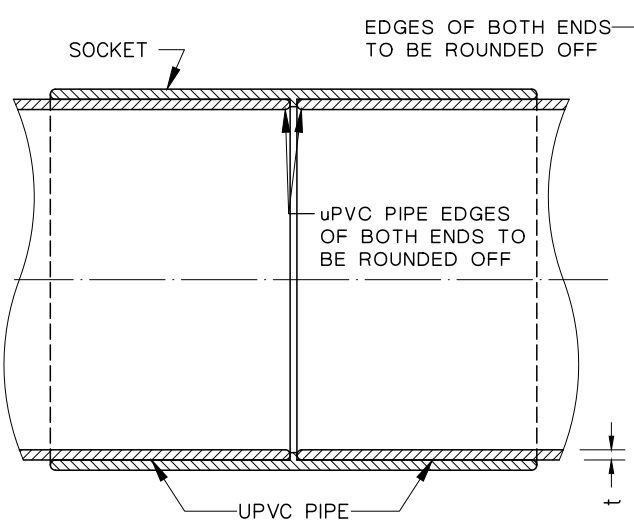
ROOFING WITH INSULATION PARAPET & WALL DETAILS

DRAWN:	C W WONG	DATE:	22 Aug., 2007
CHECKED:	K C CHENG	APPROVED:	W C HO
SCALE:	N. T. S.	SHEET(S) IN SET:	1

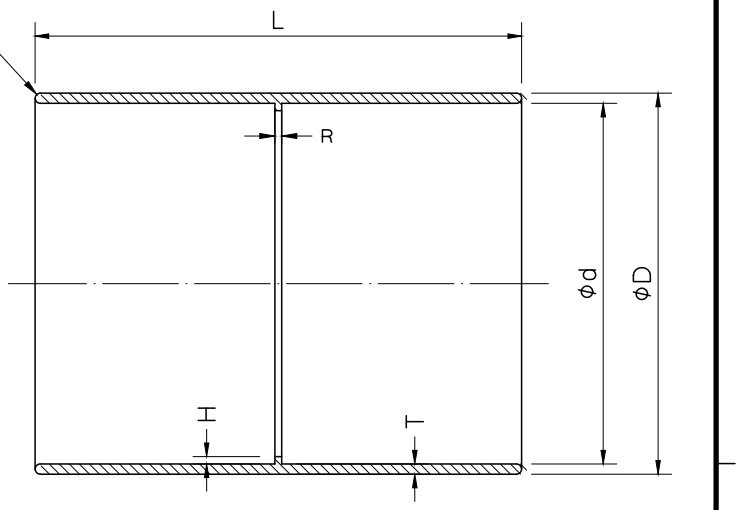
ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010408-A

REMARK :
t = THICKNESS OF uPVC PIPE
R = THICKNESS OF THE STOPPER EDGE OF SOCKET
H = HEIGHT OF THE STOPPER EDGE OF SOCKET
T = THICKNESS OF uPVC PIPE CONNECTING SOCKET



COUPLING ARRANGEMENT
(NOT TO SCALE)



SECTIONAL ELEVATION OF SOCKET
(NOT TO SCALE)

ITEM	PIPE SIZE I.D. (mm)	DIMENSION (mm)					
		D	d	T	L	R	H
TYPE A	100	116	108	4.0	187	3	3
TYPE B	150	168	159	4.5	210	4	3
TYPE C	200	226	216	5.0	260	5	5

NOTES :

1. MATERIAL : UNPLASTICIZED PVC TO BS 3506 CLASS B
2. TOLERANCE : INNER & OUTER DIAMETER OF SOCKET ± 0.5%
   ALL OTHER DIMENSION ± 2%
3. ALL DIMENSIONS ARE IN mm.

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

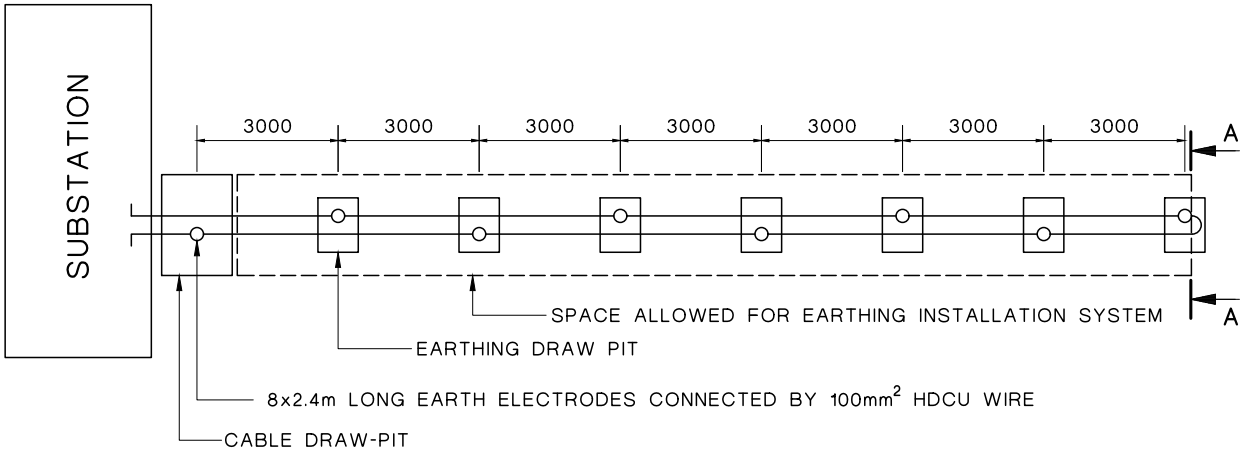
TITLE :

TYPICAL DETAILS OF uPVC PIPE CONNECTING SOCKET

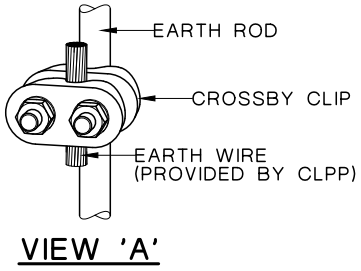
DRAWN: C. W. WONG	DATE: 9 APR., 2020
CHECKED: EDMOND YU	APPROVED: Y. S. YEUNG
SCALE: N. T. S.	SHEET(S) IN SET: 1

ASSET MANAGEMENT

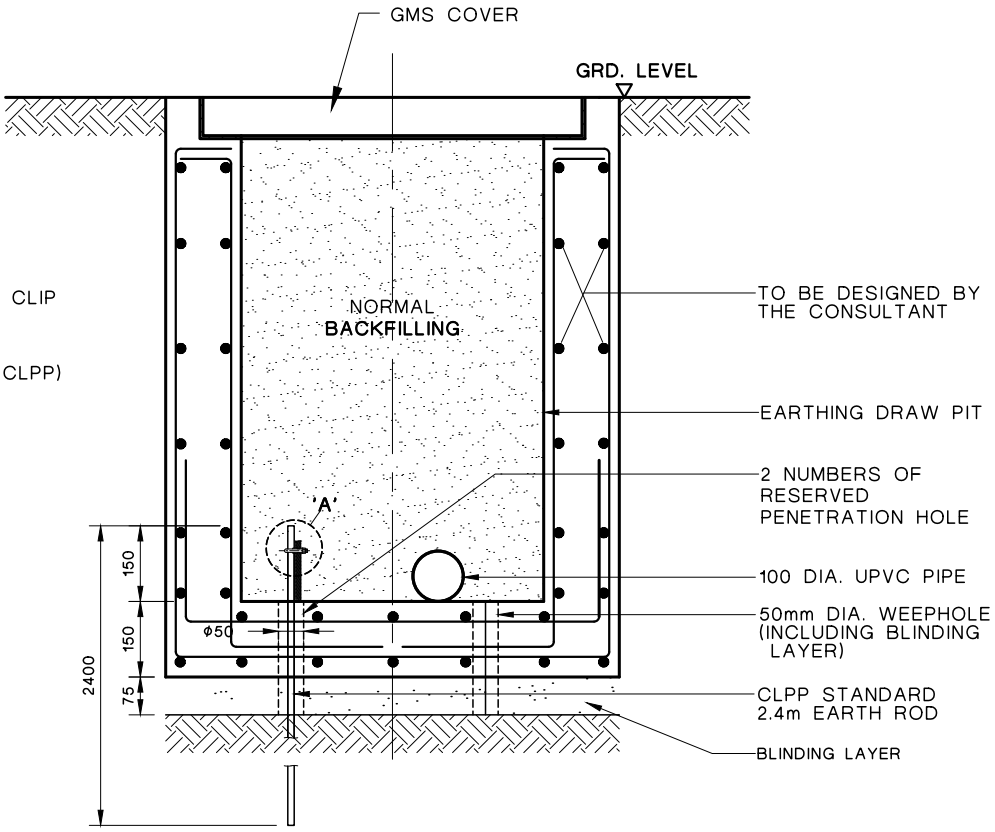
DRG. NO. TCOP1025ODE330104170-A



TYPICAL EARTH ELECTRODES ARRANGEMENT



VIEW 'A'



SECTION A-A EARTHING DRAW PIT INSTALLATION

NOTES:

1. SPACE IN FRONT OF SUBSTATION SHALL BE ALLOWED FOR INSTALLATION OF EARTHING SYSTEM, UNDERGROUND FACILITIES FROM OTHER UTILITIES SHOULD BE AVOIDED WITHIN THE SPACE. ALL HARD ROCK OR RELATED SUBSTANCES WITHIN 3M BELOW GROUND SHALL BE REMOVED.
2. EARTHING WIRES SHALL BE PROVIDED AND EXTENDED TO THE GROUND FLOOR BY THE BUILDING OWNER, IF IT IS NOT GROUND FLOOR SUBSTATION.
3. FINAL NUMBERS OF EARTHING PIT AND ARRANGEMENT SUBJECT TO CLPP's APPROVAL.
4. ALL DIMENSIONS ARE IN mm.

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

CLP 中電

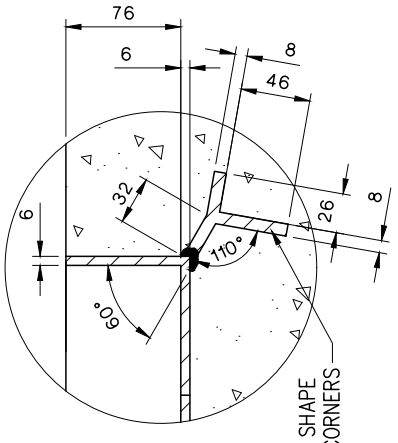
DRAWN:	C. W. WONG	DATE:	9 APR., 2020
CHECKED:	EDMOND YU	APPROVED:	Y. S. YEUNG
SCALE:	N. T. S.	SHEET(S) IN SET:	1

TITLE :

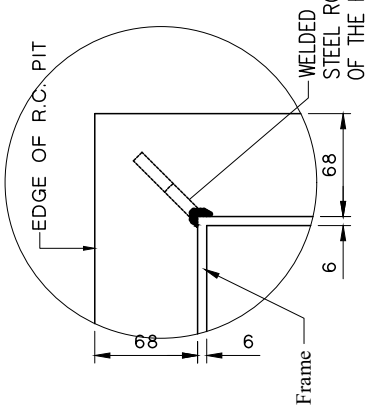
EARTHING DRAW PIT ARRANGEMENT FOR SUBSTATION

ASSET MANAGEMENT

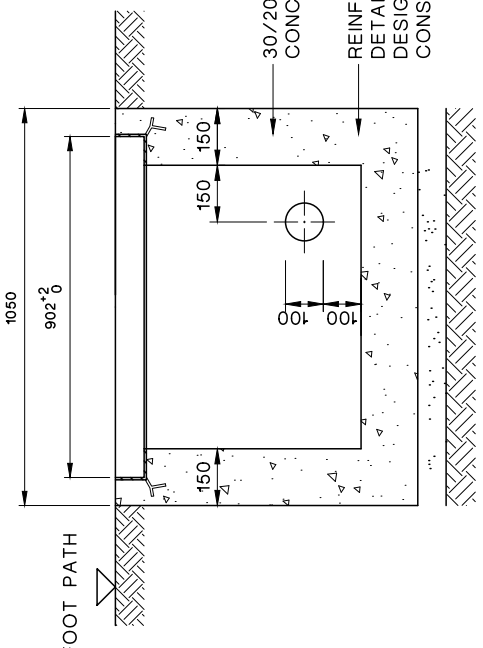
DRG. NO. TCOP10250DE3010418-A



SECTION C-C
(SCALE : 1 : 5)

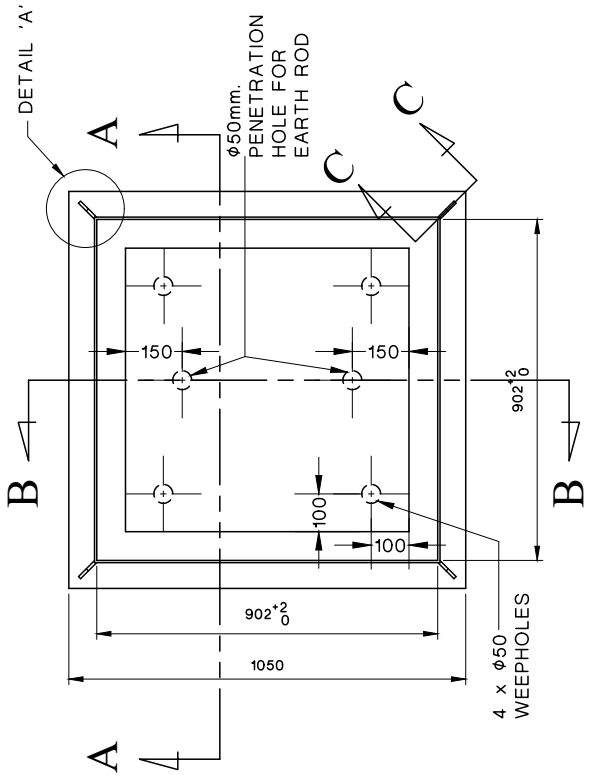


DETAIL 'A'
(SCALE : 1 : 5)

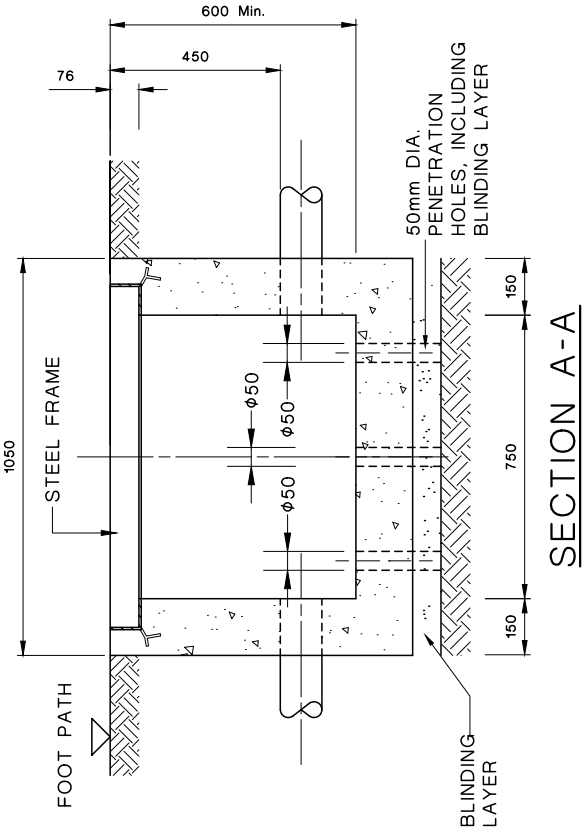


SECTION B-B

NOTES:
1. ALL DIMENSIONS ARE IN mm.
2. COVERS AND FRAMES JIG WELDED TO ENSURE A CLOSE MATCHING FIT.
3. FRAME FABRICATED FROM STEEL TO BS EN 10025 S275.
4. AFTER MANUFACTURING, UNITS TO BE HOT DIP GALVANIZED TO BS EN ISO 1461.
5. EXACT NO. OF PIPE TO BE DETERMINED ON SITE.
6. MANHOLE COVER REFER TO DRAWING NO. T/COP/10250/D/E33/0104/20.
7. DRAW PIT FRAME REFER TO DRAWING NO. T/COP/10250/D/E33/0104/21.
8. THE DESIGN SUPERIMPOSED LIVE LOAD OF DRAW PIT IS FOR PEDESTRIAN ACCESS ONLY.
9. THE MANHOLE SHOULD BE BACKFILLED AS FAR AS PRACTICABLE.



TOP VIEW



SECTION A-A

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

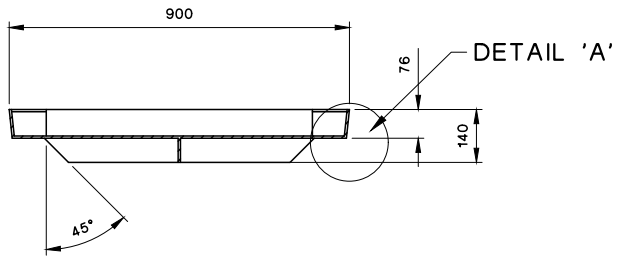
TITLE :

TYPICAL DETAILS OF EARTHING DRAW PIT

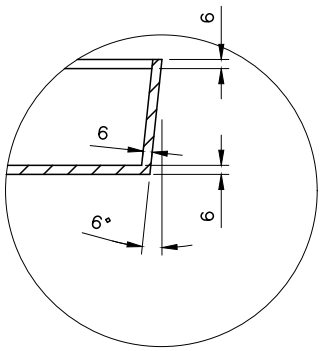
DRAWN:	C. W. WONG	DATE:	20 APR., 2020
CHECKED:	EDMOND YU	APPROVED:	Y. S. YEUNG
SCALE:	N. T. S.	SHEET(S) IN SET:	1

ASSET MANAGEMENT

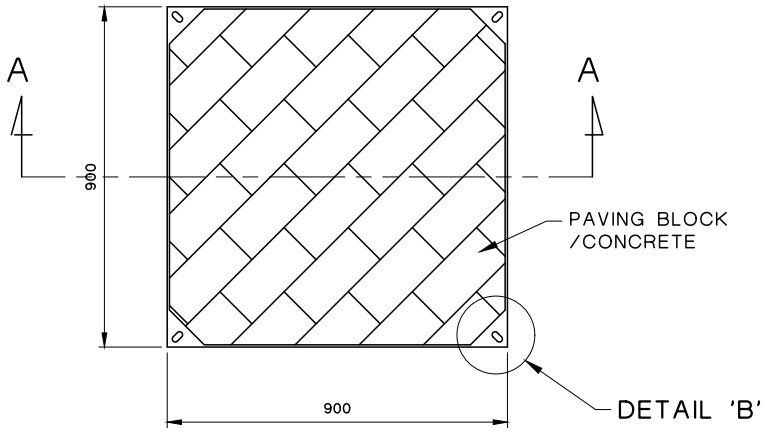
DRG. NO. T/COP/10250/D/E33/0104/19-A



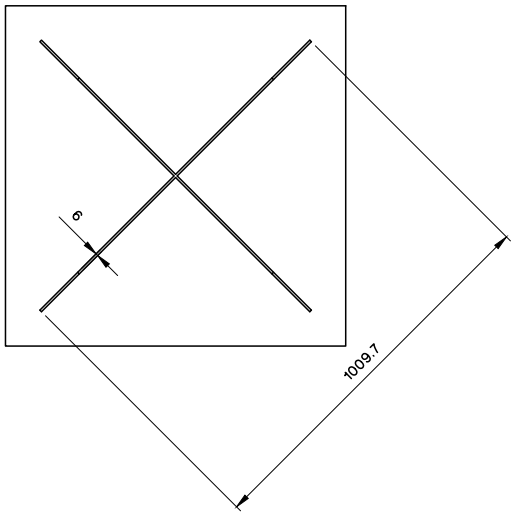
SECTION A-A



DETAIL 'A'
(SCALE: 1 : 5)

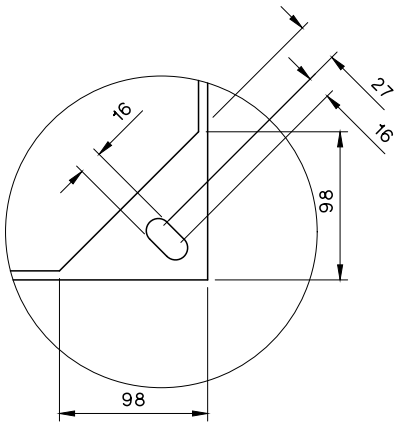


TOP VIEW



BOTTOM VIEW

NOTES:
1. ALL DIMENSIONS ARE IN mm
2. WEIGHT OF THE PIT COVER TO BE 150 kg APPROXIMATELY.
3. COVER FABRICATED FROM STEEL TO BS EN 10025 S275.
4. COVER BASE PLATES ARE STIFFENED WITH STEEL RIBS TO SUIT THE SPECIFIED LOADINGS.
5. AFTER MANUFACTURING, UNITS TO BE HOT DIP GALVANISED TO BS EN ISO 1461.
6. ALL WELDING TO BE 6mm FILLET WELD ALL ROUND, EXCEPT OTHERWISE STATED.
7. TO SUIT THE DRAW PIT SIZE OF 1050 x 1050 OR 1950 x 1050 (DOUBLE).
8. DRAW PIT FRAME REFER TO DRAWING NO. T/COP/10250/D/E33/0104/21.
9. THE DESIGN IMPOSED LIVE LOAD OF DRAW PIT COVER IS FOR PEDESTRIAN ACCESS ONLY.



DETAIL 'B'
(SCALE: 1 : 5)

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

CLP 中電

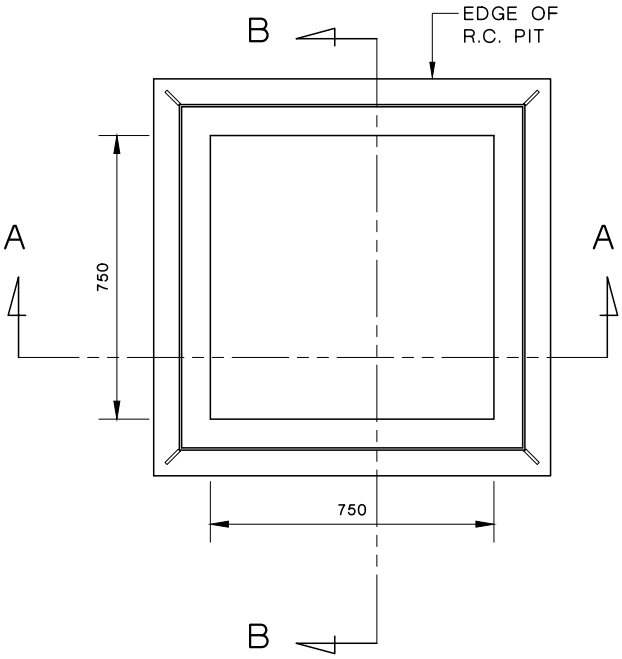
TITLE :

TYPICAL DETAIL OF COVER FOR EARTHING DRAW PIT

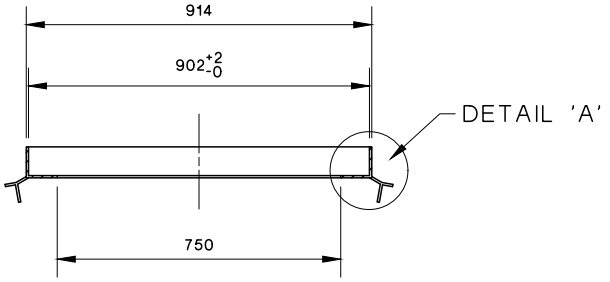
DRAWN:	C. W. WONG	DATE:	20 APR., 2020
CHECKED:	EDMOND YU	APPROVED:	Y. S. YEUNG
SCALE:	N. T. S.	SHEET(S) IN SET:	1

ASSET MANAGEMENT

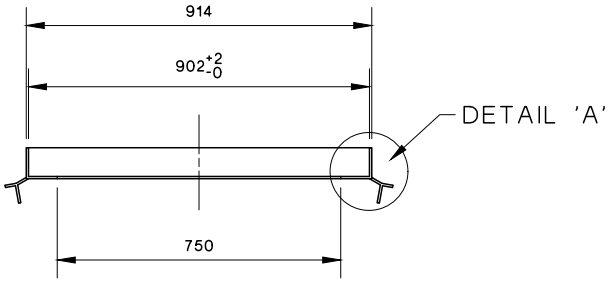
DRG. NO. T/COP/10250/D/E33/0104/20 - A



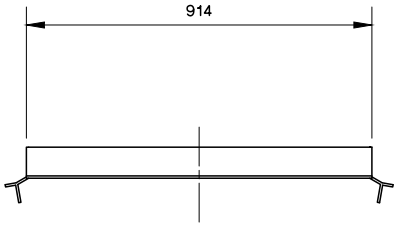
TOP VIEW



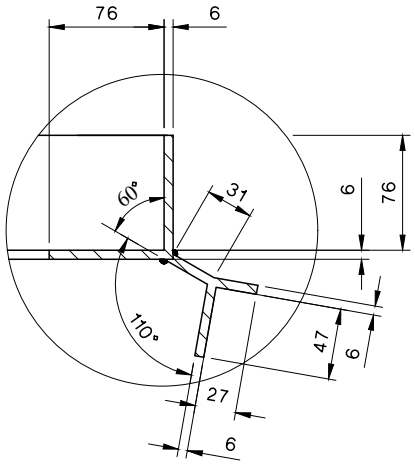
SECTION A-A



SECTION B-B



SIDE VIEW



DETAIL 'A'

(SCALE: 1 : 5)

NOTES:
1. ALL DIMENSIONS ARE IN mm.
2. COVERS AND FRAMES JIG WELDED TO ENSURE A CLOSE MATCHING FIT.
3. FRAME FABRICATED FROM STEEL TO BE GRADE S275 TO BS EN 10025. AFTER MANUFACTURING, UNITS TO BE HOT DIP GALVANISED TO BS EN ISO 1461.
4. ALL WELEING TO BE 6mm FILLET WELD ALL ROUND, EXCEPT OTHERWISE STATED.
5. EXACT NO. OF PIPE TO BE DETERMINED ON SITE.
6. TO SUIT THE DRAW PIT SIZE OF 1050 x 1050.
7. MANHOLE COVER REFER TO DRAWING NO. T/COP/10250/D/E33/0104/20.
8. THE DESIGN SUPERIMPOSED LIVE LOAD OF DRAW PIT IS FOR PEDESTRIAN ACCESS ONLY.

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

CLP 中電

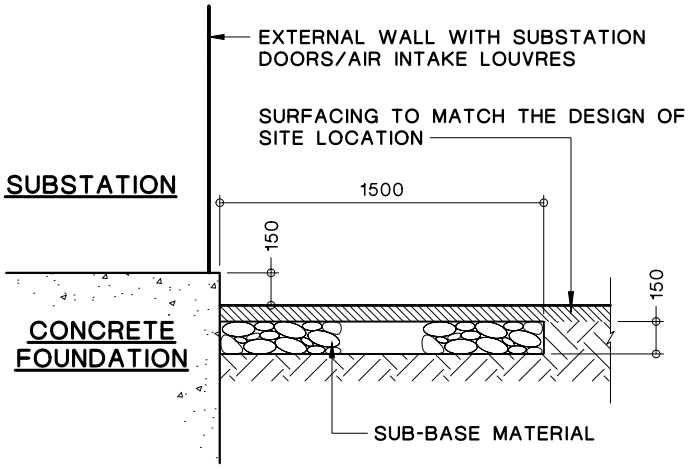
DRAWN:	C. W. WONG	DATE:	21 APR., 2020
CHECKED:	EDMOND YU	APPROVED:	Y. S. YEUNG
SCALE:	N. T. S.	SHEET(S) IN SET:	1

TITLE :

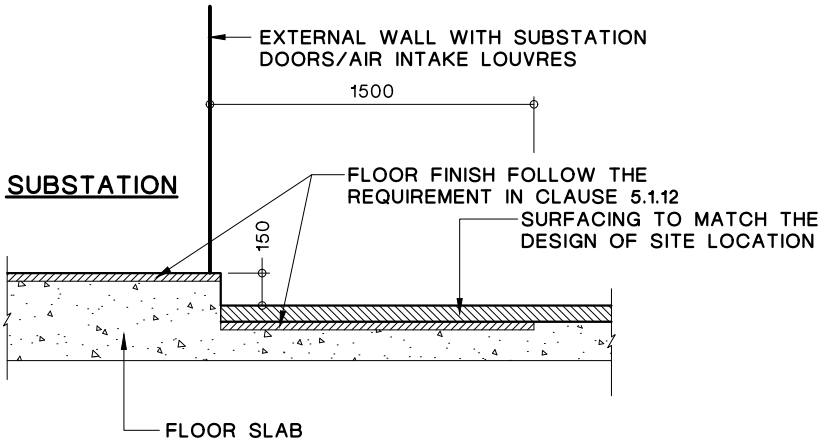
TYPICAL DETAIL OF FRAME FOR EARTHING DRAW PIT

ASSET MANAGEMENT

DRG. NO. T/COP/10250/D/E33/0104/21 - A



TYPICAL DETAIL ON SOLID GROUND



TYPICAL DETAIL ON FLOOR SLAB

NOTES:

1. SUB-BASE MATERIAL SHALL BE CRUSHED ROCK AND SHALL HAVE THE PROPERTIES AS SPECIFIED IN GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS 2006 CLAUSE 9.02.
2. SUB-BASE MATERIAL SHALL BE COMPACTED TO OBTAIN A RELATIVE COMPACTION OF AT LEAST 95% MAXIMUM DRY DENSITY THROUGHOUT.
3. ALL DIMENSIONS ARE IN mm.

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

CLP 中電

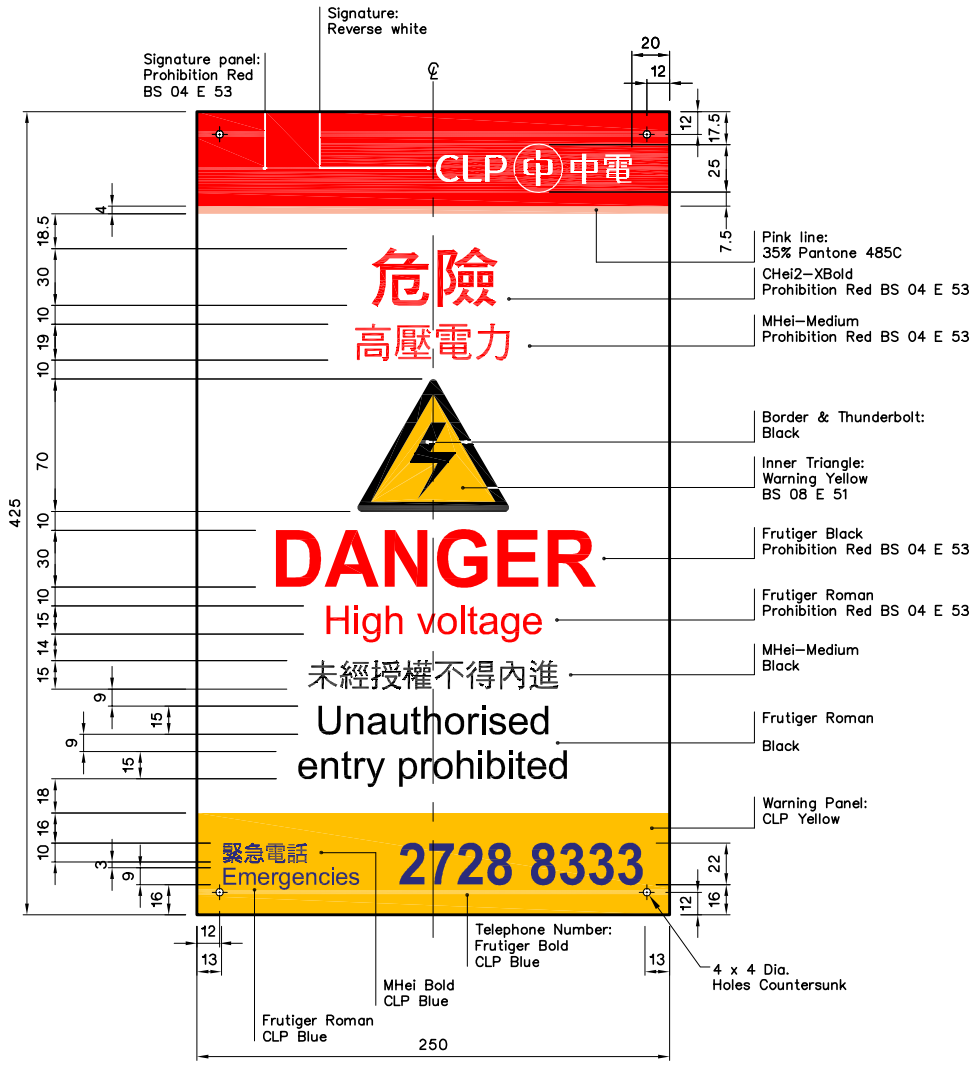
TITLE :

TYPICAL ON GRADE SLAB DETAIL OUTSIDE SUBSTATION

DRAWN:	C. W. WONG	DATE:	29 MAY, 2020
CHECKED:	EDMOND YU	APPROVED:	Y. S. YEUNG
SCALE:	N. T. S.	SHEET(S) IN SET:	1

ASSET MANAGEMENT

DRG. NO. TCOP10250DE330104221-A



C	TEXT SIZE UPDATED	B	GENERAL LAYOUT REVISION	A	GENERAL LAYOUT REVISION							

REVS.	01-12-04	20-12-06	26-03-12								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.								

CLP 中電

DRAWN: S. C. TO	DATE: 13-8-2002
CHECKED: K. C. CHENG	APPROVED: W. C. HO
SCALE: 1 : 4 (mm)	SHEET(S) IN SET:

TITLE :

DETAILS OF SUBSTATION STATUTORY NOTICE PLATE - DANGER WARNING

ASSET MANAGEMENT

DRG. NO. TCOP1025ODE330105015CA

C	TEXT SIZE UPDATED	B	GENERAL LAYOUT REVISION	A	GENERAL LAYOUT REVISION							

CLP 中電

REVS.	01.12.04	20.12.06	26.03.12								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.								

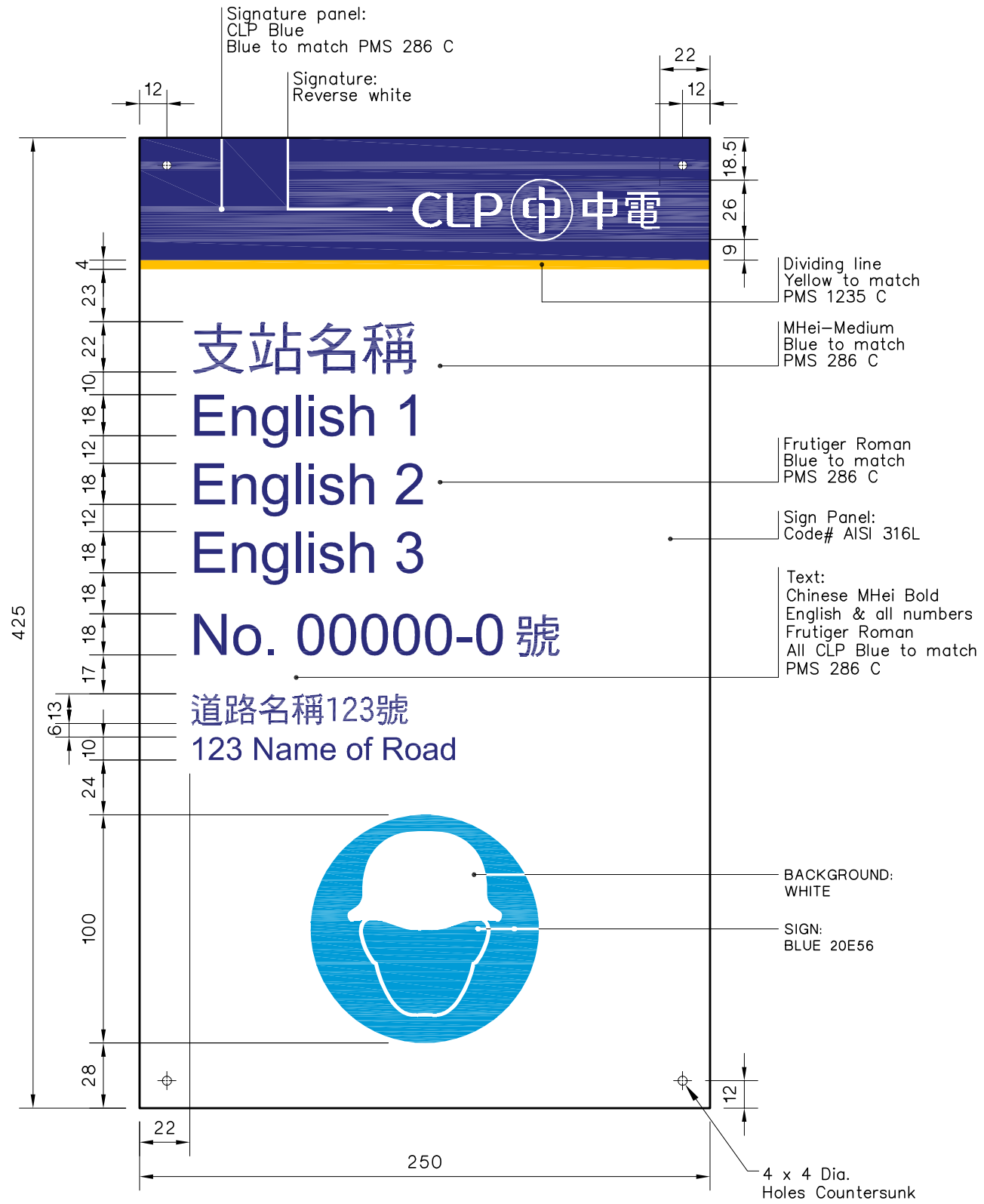
DRAWN:	T. Y. IP	DATE:	15-8-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 4 (mm)	SHEET(S) IN SET:	

TITLE :

DETAILS OF SUBSTATION STATUTORY NOTICE PLATE - DANGER & SF6 GAS-FILLED EQUIPMENT WARNING

ASSET MANAGEMENT

DRG. NO. TCOP1025ODE330105 02 C A



B	GENERAL LAYOUT REVISION	A	GENERAL LAYOUT REVISION

CLP 中電

REVS.	01-12-04	27-12-06									
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.									

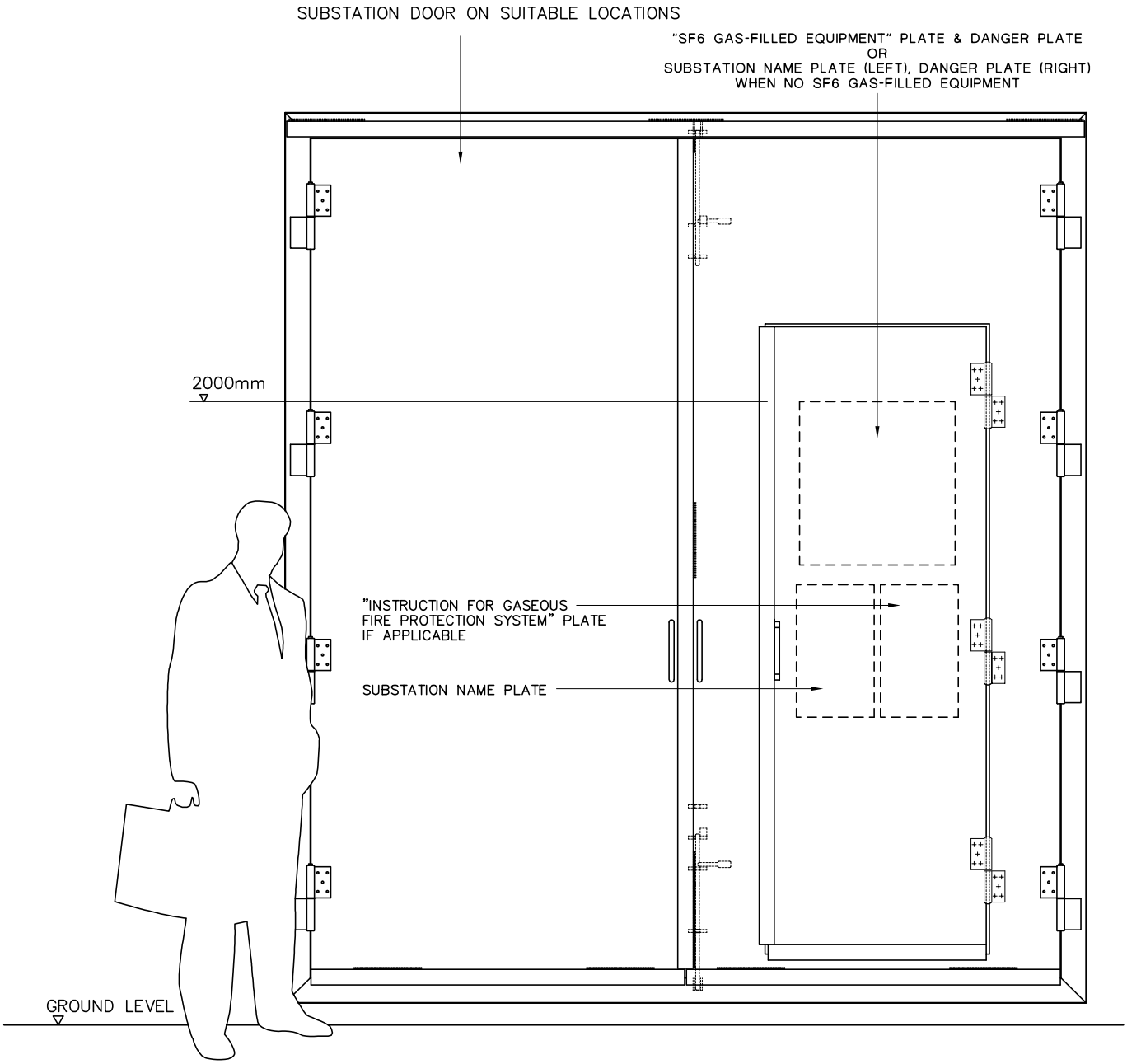
TITLE :

DETAILS OF SUBSTATION STATUTORY NOTICE PLATE - SUBSTATION NAME

DRAWN:	T. Y. IP	DATE:	04-09-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 2.5 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. TCOP1025ODE330105038A



NOTES

1. NOTICE PLALTES SHALL BE ON THE WICKET DOOR WHEN IT IS USED AS THE NORMAL ENTRANCE.

2. THE DANGER PLATE AND SUBSTATION NAME PLATE SHALL BE ARRANGED AND DISPLAYED CONSISTENTLY AT ALL SUBSTATIONS.

A	NOTICE PLATE REVISION

CLP 中電

REVS.	13.09.04										
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.										

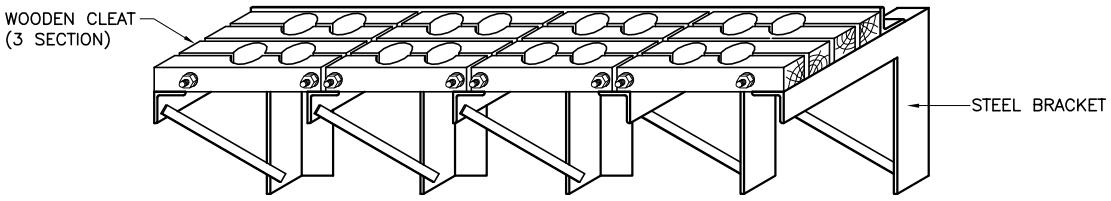
DRAWN: S. C. TO	DATE: 13-8-2002
CHECKED: K. C. CHENG	APPROVED: W. C. HO
SCALE: N.T.S.	SHEET(S) IN SET:

TITLE :

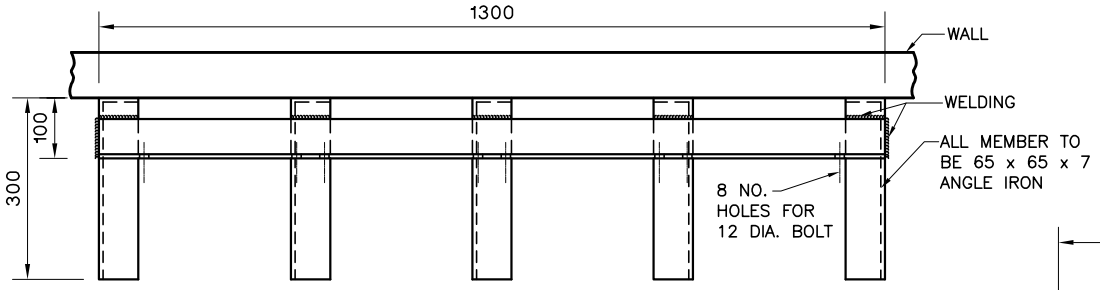
DISPOSITION OF THE DANGER PLATE AND SUBSTATION NAME PLATE

ASSET MANAGEMENT

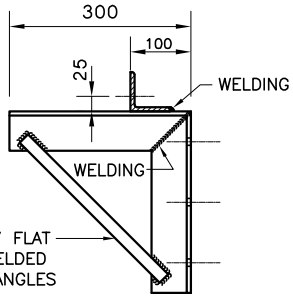
DRG. NO. TCOP10250DE33010504AA



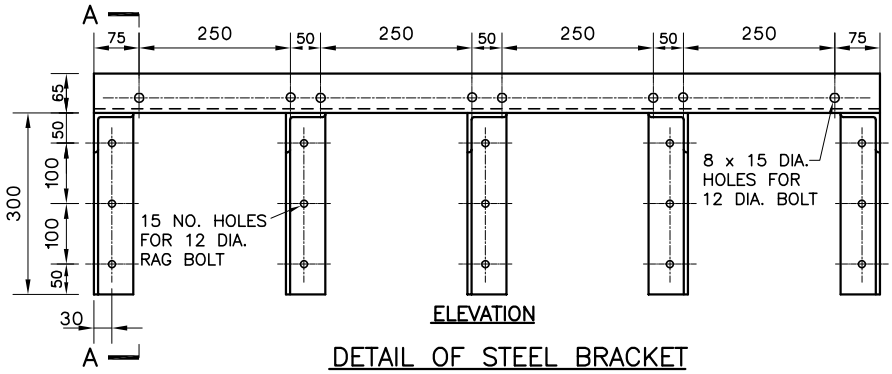
ISOMETRIC VIEW



PLAN

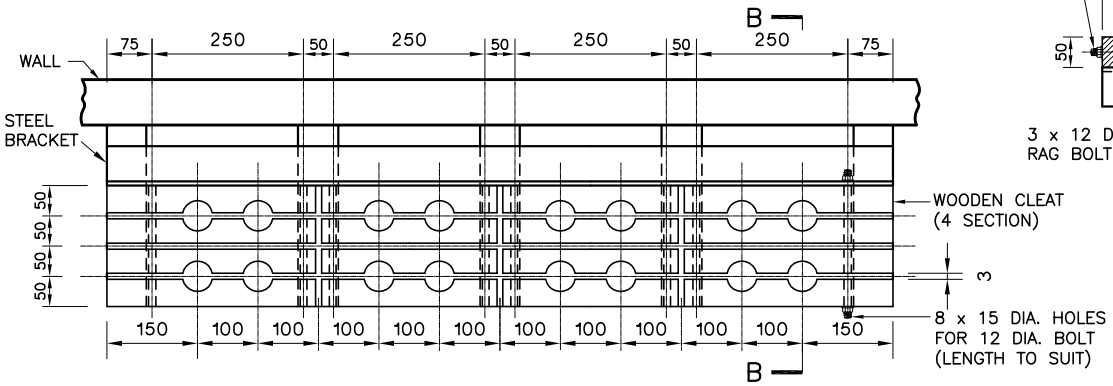


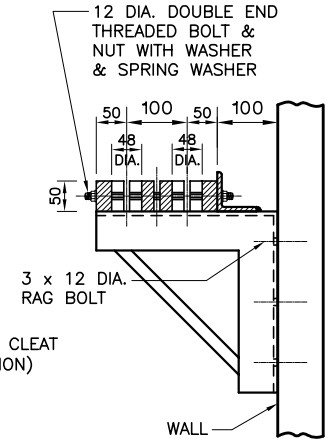
SECTION A–A



ELEVATION

DETAIL OF STEEL BRACKET
(ALL MEMBER TO BE WELDED)





SECTION B–B

DETAIL OF WOODEN CLEAT (USE HARDWOOD)

NOTES:

1. ALL STEELWORKS SHALL BE HOT DIP GALVANISED TO BS EN ISO 1461 AND FINISHED WITH ONE COAT OF CALCIUM PLUMBATE OR ZINC PHOSPHATE PRIMER AND TWO FINISHING COATS OF SYNTHETIC PAINT.
2. ALL MATERIALS TO BE PROVIDED AND INSTALLED BY DEVELOPER/CUSTOMER.
3. ALL METAL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm^2.
4. THE NO. OF CABLE CLEATS SHALL BE ADEQUATE FOR THE ACTUAL NO. OF CABLES USED AND SPARES.

C	SIZE OF HOLES FOR CABLE UPDATED.	B	ZINC PRIMER ADDED	A	NOTE 4, 5 ADDED

REVS.	15.09.04	15.11.07	18.03.14								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	H.T.YU								

CLP 中電

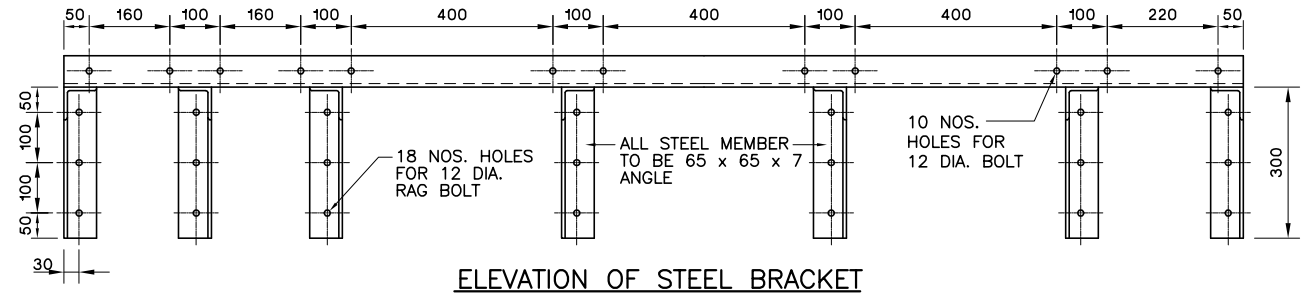
DRAWN:	S. C. TO	DATE:	26-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 12.5 (mm)	SHEET(S) IN SET:	1

TITLE :

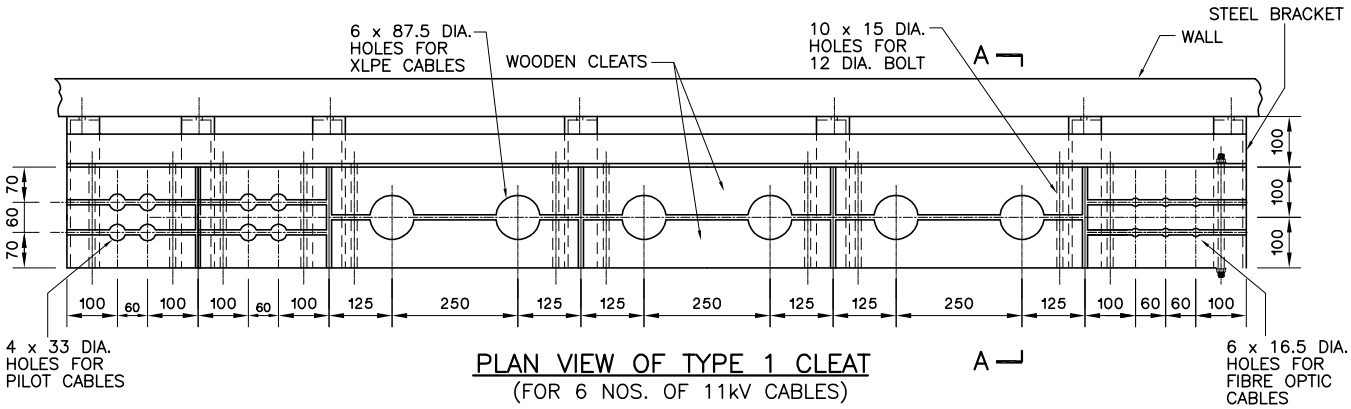
DETAILS OF STEEL WALL BRACKET AND WOODEN CLEAT FOR HOLDING SINGLE CORE CABLES

ASSET MANAGEMENT

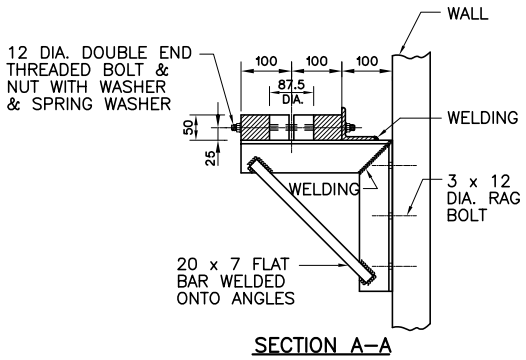
DRG. NO. TCOP10250DE3010505CA



ELEVATION OF STEEL BRACKET
(ALL MEMBER TO BE WELDED)



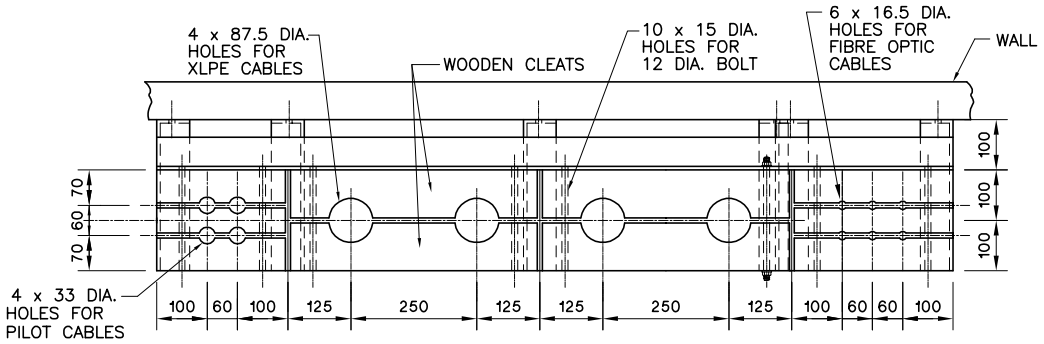
PLAN VIEW OF TYPE 1 CLEAT
(FOR 6 NOS. OF 11kV CABLES)



SECTION A–A

NOTES:

1. ALL STEELWORKS SHALL BE HOT DIP GALVANISED TO BS EN ISO 1461 AND FINISHED WITH ONE COAT OF CALCIUM PLUMBATE OR ZINC PHOSPHATE PRIMER AND TWO FINISHING COATS OF SYNTHETIC PAINT.
2. ALL MATERIALS TO BE PROVIDED AND INSTALLED BY DEVELOPER/CUSTOMER.
3. ALL METAL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm^2.
4. THE NO. OF CABLE CLEATS SHALL BE ADEQUATE FOR THE ACTUAL NO. OF CABLES USED AND SPARES.



PLAN VIEW OF TYPE 2 CLEAT
(FOR 4 NOS. OF 11kV CABLES)

B	ZINC PRIMER ADDED.	A	NOTE 4, 5 ADDED

CLP 中電

REVS.	15.09.04	15.11.07									
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.									

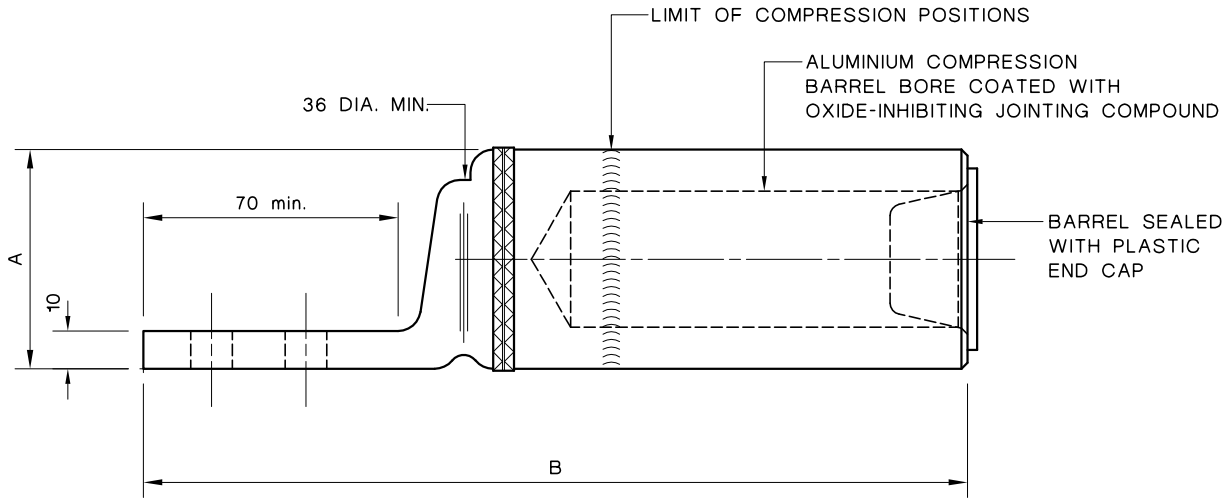
TITLE :

DETAILS OF STEEL WALL BRACKET AND WOODEN CLEAT FOR HOLDING 11kV CABLES (240 mm^2 XLPE CABLE, PILOT CABLE AND FIBRE OPTIC CABLE)

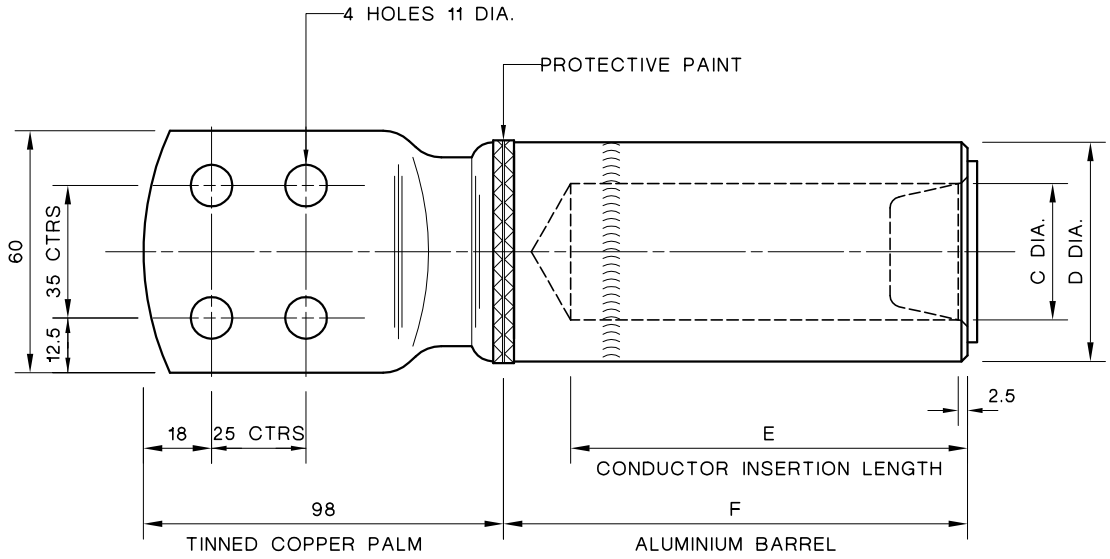
DRAWN:	S. C. TO	DATE:	29-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 15 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010506BA



ELEVATION



PLAN

NOTES:

TOLERANCES:	INSIDE AND OUTSIDE DIAMETERS OF BARREL ± 0.15mm ALL OTHER DIMENSION ± 2%
MATERIAL:	ALUMINIUM AND TINNED COPPER
MARKING:	'960mm^2 BICC DIE ED819' AT ALUMINIUM BARREL

NO. OF SINGLE CORE CABLE:

500kVA	- 1 CABLE PER PHASE.
1000kVA	- 2 CABLE PER PHASE.
1500kVA	- 3 CABLE PER PHASE.
2000kVA	- 4 CABLE PER PHASE.

DIMENSION TABLE		
ITEM	STRANDED CABLE	SOLID CABLE
A	58	58
B	218	218
C	39	36
D	54	54
E	105	105
F	120	120

B	GENERAL NOTES REVISED
A	GENERAL REVISED

REVS.	15.01.07	16.04.14									
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	H.T.YU									

CLP 中電

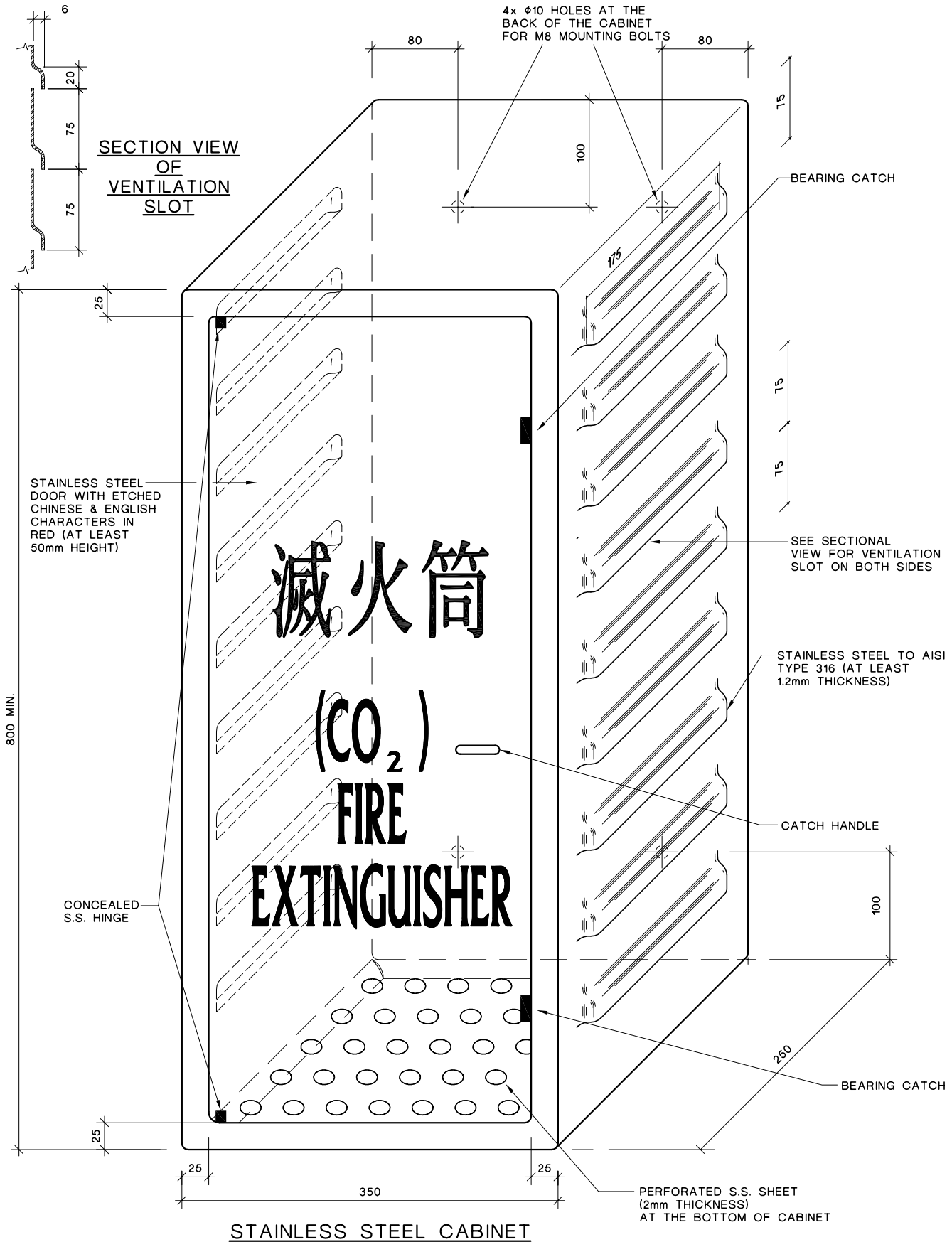
TITLE :

CABLE LUG FOR 960mm^2 SINGLE CORE STRANDED ALUMINIUM CONDUCTOR L.V. CABLE

DRAWN:	S. C. TO	DATE:	12-8-2002
CHECKED:	K. C. CHENG	APPROVED:	K. W. WONG
SCALE:	1 : 2 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3301058BA



STAINLESS STEEL CABINET

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

CLP 中電

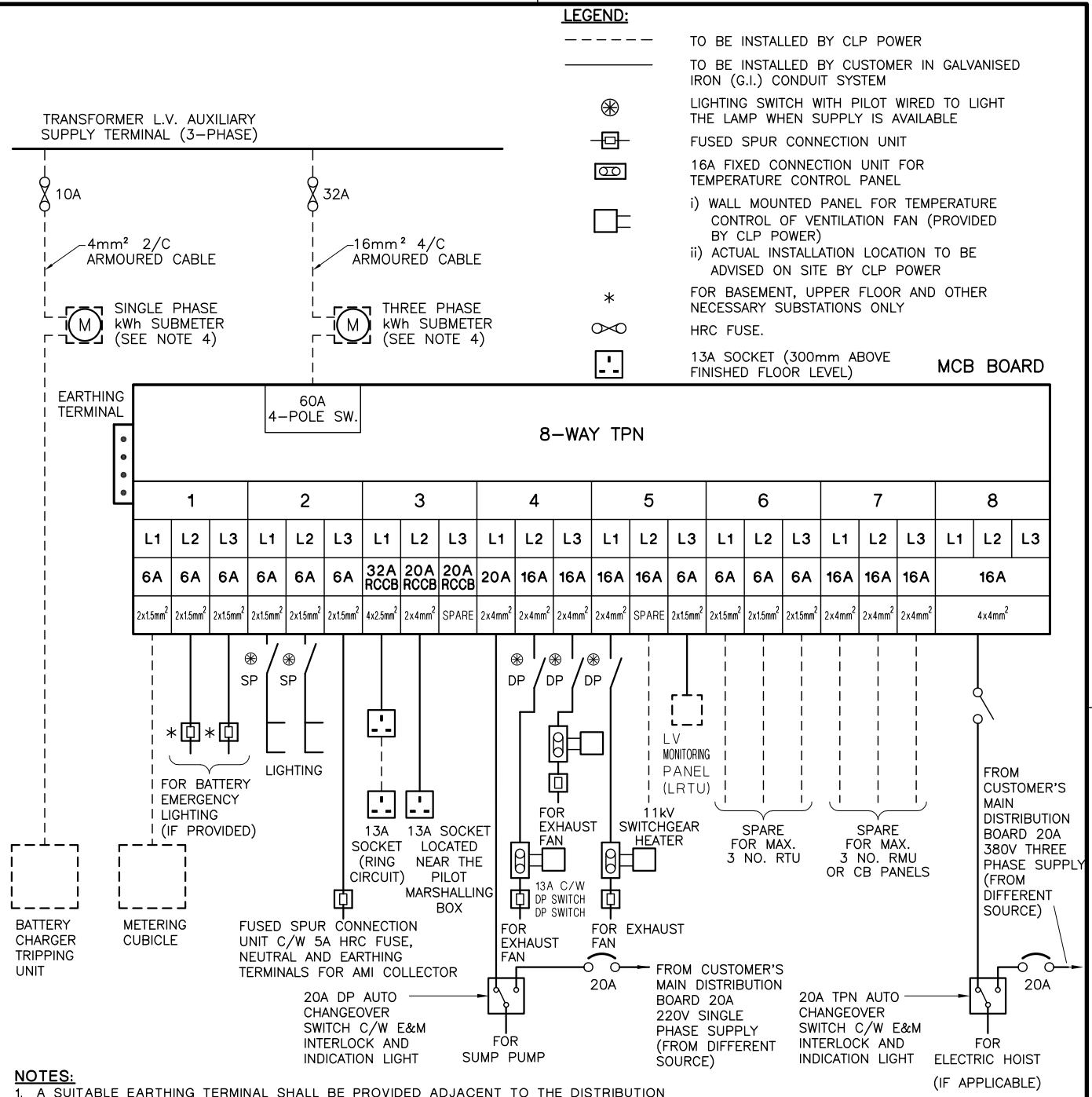
TITLE :

STAINLESS STEEL CABINET FOR OUTDOOR 4.5kg CO_2 FIRE EXTINGUISHER

DRAWN:	C. W. WONG	DATE:	29 Sep., 2004
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	1 : 5 (mm)	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010509-A



NOTES:

1. A SUITABLE EARTHING TERMINAL SHALL BE PROVIDED ADJACENT TO THE DISTRIBUTION BOARD FOR CONNECTING ALL EXPOSED CONDUCTIVE PARTS VIA APPROPRIATE PROTECTIVE CONDUCTORS.
2. ALL EXTRANEOUS CONDUCTIVE PARTS SUCH AS STEEL DOOR FRAME, EXHAUST DUCT, LOUVRE AND PIPEWORK OF FIRE SERVICES INSTALLATION ETC., SHALL ALSO BE CONNECTED TO THE EARTHING TERMINAL WITH A COPPER CONDUCTOR NOT LESS THAN $6mm^2$.
3. FOR MULTI TRANSFORMER SUBSTATIONS, ADDITIONAL 13A FUSED SPUR FOR EXHAUST FAN(S) SHALL BE CONNECTED ON SEPARATE FINAL CIRCUIT.
4. kWh SUBMETERS WILL BE INSTALLED ADJACENT TO MCB BOARD IF THE SUBSTATION SUPPLY IS METERED AT 11kV.
5. LIGHTING SWITCH AND 13A SOCKET TO BE POSITIONED AT 1350mm AND 300mm FROM FLOOR LEVEL RESPECTIVELY.
6. MCB UNIT SHALL COMPLY TO BS EN60898 TYPE C AND BREAKING CAPACITY NOT LESS THAN 10kA.
7. MCB BOARD WITH DUSTPROOF DOOR AND COMPLIES TO IEC60439/BS5486
8. RCCB SENSITIVITY 30mA
9. PHASE IDENTIFICATION & COLOUR CODE OF WIRING CABLES SHALL COMPLY TO THE COLOUR CODE REQUIREMENTS OF EMSD WITH EFFECTIVE FROM 1 JULY 2007.
10. FUSED SPUR UNIT FOR AMI COLLECTOR TO BE POSITION AT 1350mm FROM FLOOR LEVEL AND NEXT TO THE MCB DISTROBUTION BOARD.

F	POWER SUPPLY TO AMI COLLECTOR UPDATED
E	POWER SUPPLY TO ELECTRIC HOIST, EXHAUST FAN UPDATED.
D	MAIN SW. RATING & 13A SOCKET RING CIRCUIT REVISED
C	PHASE IDENTIFICATION UPDATED
B	LRTU ADDED
A	CIRCUIT REVISIONS

REVS.	13.09.04	21.12.05	09.08.07	12.10.09	18.03.14	18.10.18					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU					

CLP 中電

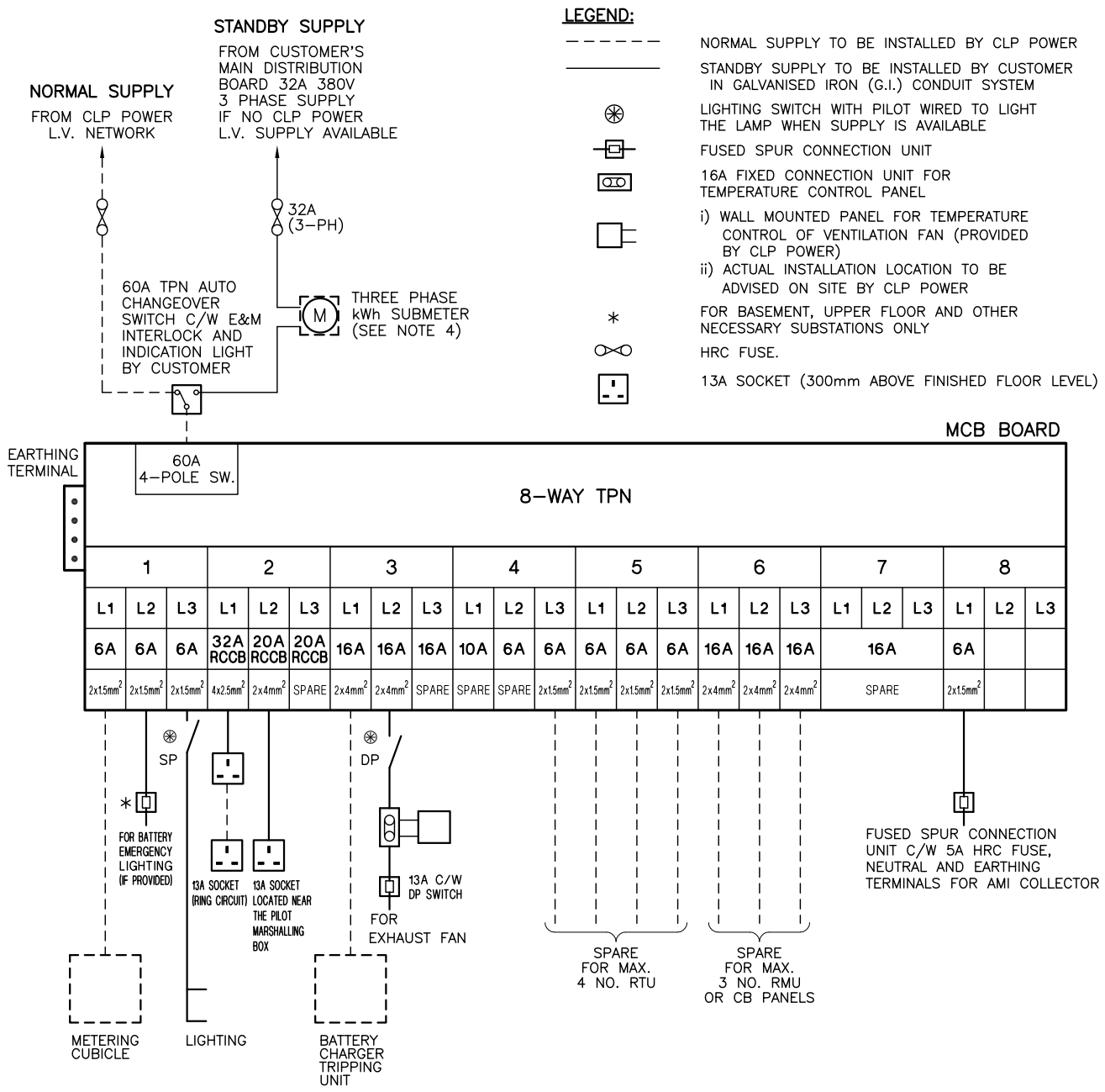
DRAWN: S. C. TO	DATE: 23-07-2002
CHECKED: K. C. CHENG	APPROVED: W. C. HO
SCALE: N. T. S.	SHEET(S) IN SET:

TITLE :

LV SCHEMATIC DIAGRAM FOR DISTRIBUTION SUBSTATION (WITH TRANSFORMER AND 11kV SWITCHGEAR)

ASSET MANAGEMENT

DRG. NO. TCOP1025ODE301061FA



NOTES:

1. A SUITABLE EARTHING TERMINAL SHALL BE PROVIDED ADJACENT TO THE DISTRIBUTION BOARD FOR CONNECTING ALL EXPOSED CONDUCTIVE PARTS VIA APPROPRIATE PROTECTIVE CONDUCTORS.
2. ALL EXTRANEOUS CONDUCTIVE PARTS SUCH AS STEEL DOOR FRAME, EXHAUST DUCT, LOUVRE AND PIPEWORK OF FIRE SERVICES INSTALLATION ETC., SHALL ALSO BE CONNECTED TO THE EARTHING TERMINAL WITH A COPPER CONDUCTOR NOT LESS THAN 6mm².
3. LIGHTING SWITCH AND 13A SOCKET TO BE POSITIONED AT 1350mm AND 300mm FROM FLOOR LEVEL RESPECTIVELY.
4. kWh SUBMETERS WILL BE INSTALLED ADJACENT TO MCB BOARD.
5. MCB UNIT SHALL COMPLY TO BS EN60898 TYPE C AND BREAKING CAPACITY NOT LESS THAN 10kA.
6. MCB BOARD WITH DUSTPROOF DOOR COMPLIES TO IEC60439/BS5486.
7. RCCB SENSITIVITY 30mA
8. PHASE IDENTIFICATION & COLOUR CODE OF WIRING CABLES SHALL COMPLY TO THE COLOUR CODE REQUIREMENTS OF EMSD WITH EFFECTIVE FROM 1 JULY 2007.
9. FUSED SPUR UNIT FOR AMI COLLECTOR TO BE POSITION AT 1350mm FROM FLOOR LEVEL AND NEXT TO THE MCB DISTROBUTION BOARD.

F	POWER SUPPLY TO AMI COLLECTOR UPDATED
E	DETAIL OF CHANGEOVER FACILITY UPDATED.
D	CHANGEOVER FACILITY ADDED
C	MAIN SW. RATING & 13A SOCKET RING CIRCUIT REVISED
B	PHASE IDENTIFICATION UPDATED
A	LEGEND DESCRIPTION CHANGE

REVS.	13.09.04	09.08.07	12.10.09	26.03.12	18.03.14	18.10.18					
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU					

CLP 中電

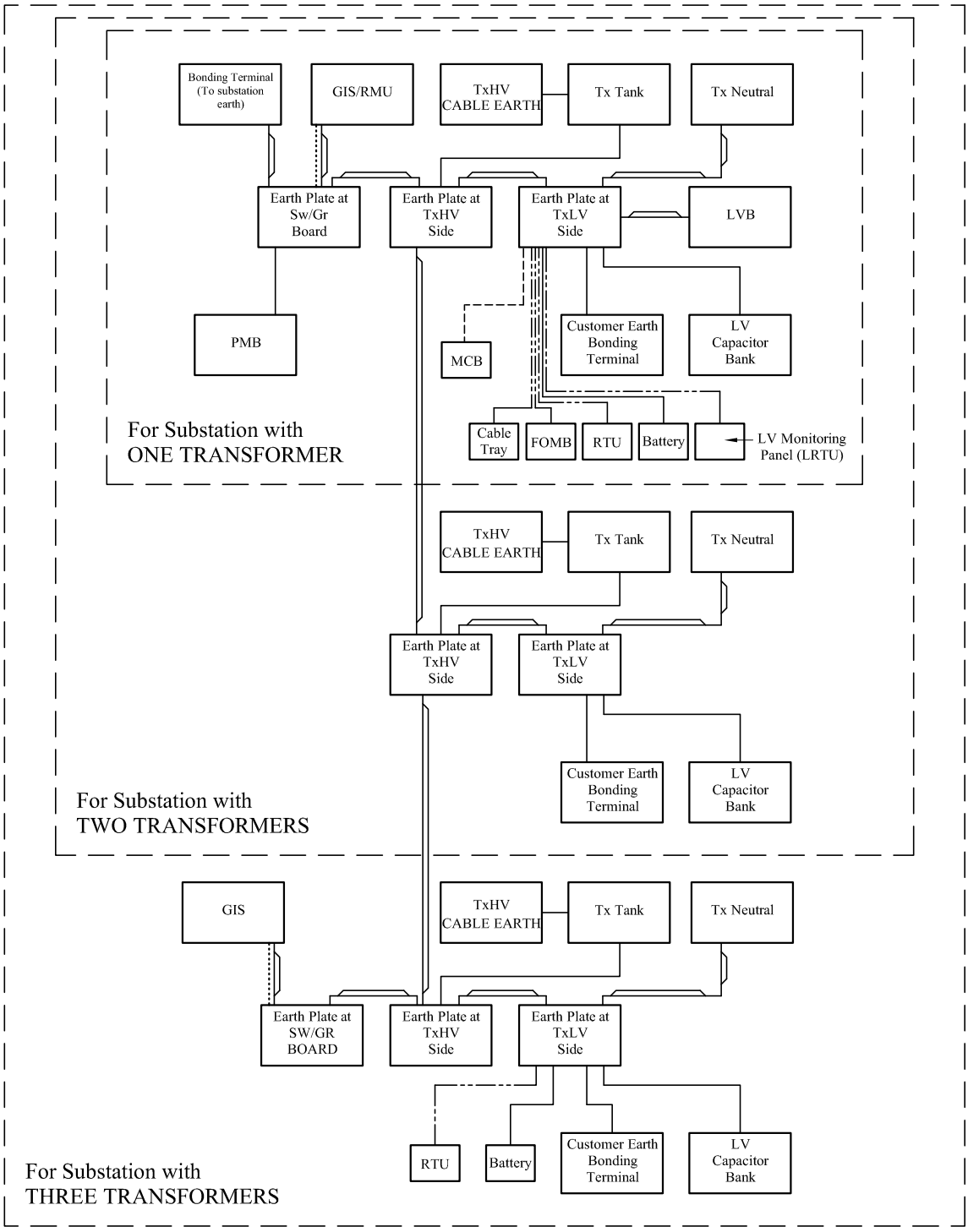
DRAWN:	S. C. TO	DATE:	23-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	N. T. S.	SHEET(S) IN SET:	

TITLE :

LV SCHEMATIC DIAGRAM FOR 11kV SWITCHROOM

ASSET MANAGEMENT

DRG. NO. TCOP1025ODE3301060 2FA



NOTES :

LEGEND :

- ..... Additional 2 x 100 mm^2 BARE COPPER is required for CB numbers at 5, 9, 13 . . . . . .
- ——— 100 mm^2 BARE COPPER
- ——— 2 x 100 mm^2 BARE COPPER
- —·—·—·— 6 mm^2 COPPER PVC COVERED
- – – – – – 16 mm^2 COPPER PVC COVERED

C	LRTU ADDED
B	GIS BOARD ADDED FOR 3 Tx. S/S

REVS.	16.05.03	15.09.04	21.12.05	D	E	F	G	H	J	K	L
	A	B	C								
INITIAL	D. HUNG	K. C. C.	K. C. C.								

CLP 中電

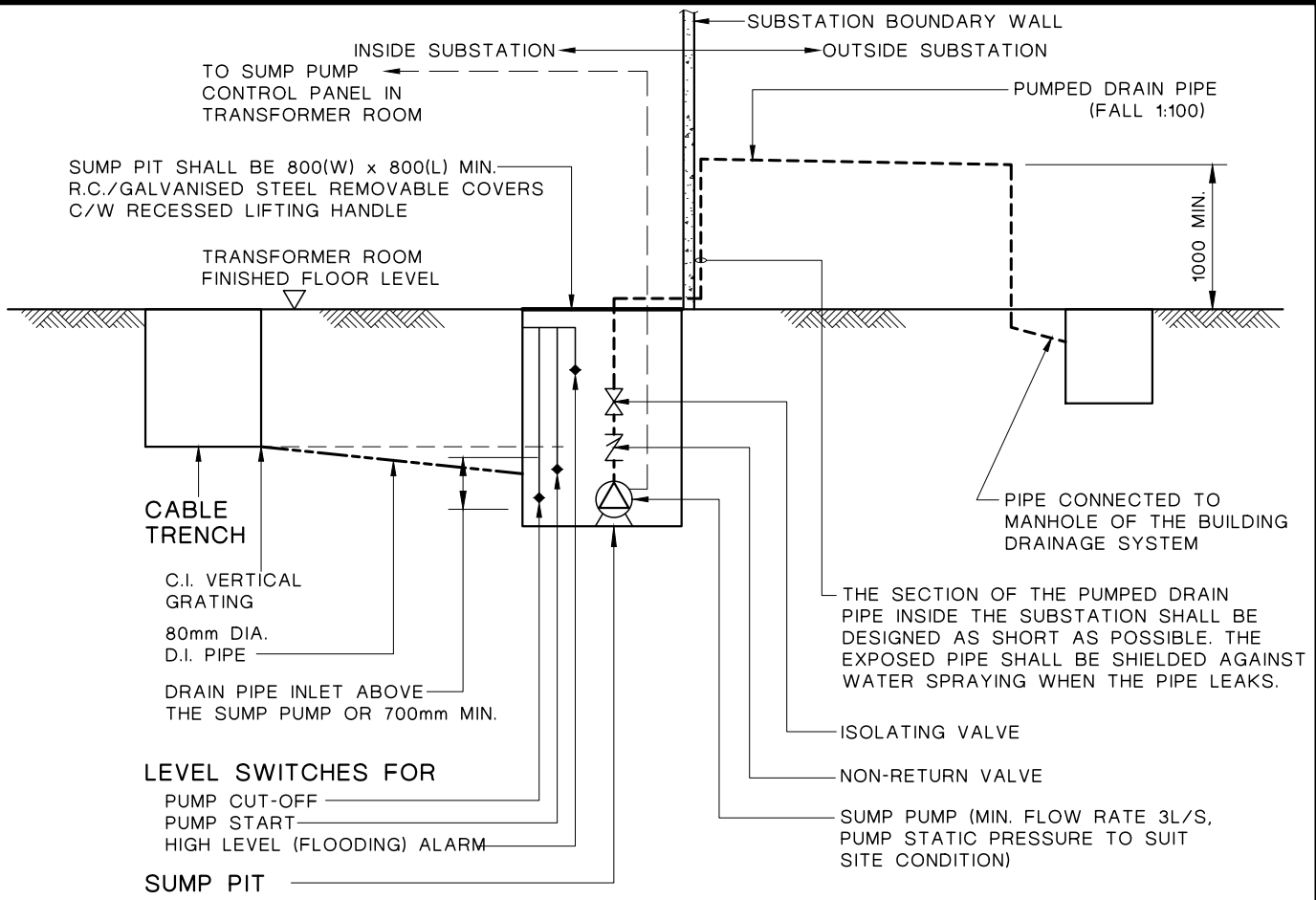
DRAWN:	T. Y. IP	DATE:	15-09-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	N.T.S.	SHEET(S) IN SET:	

TITLE :

EARTHING SCHEMATIC DIAGRAM

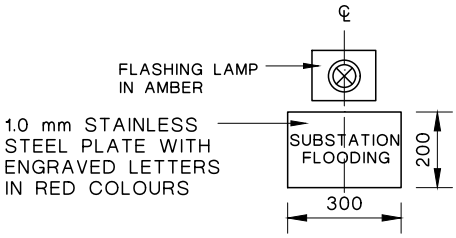
ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010603CA

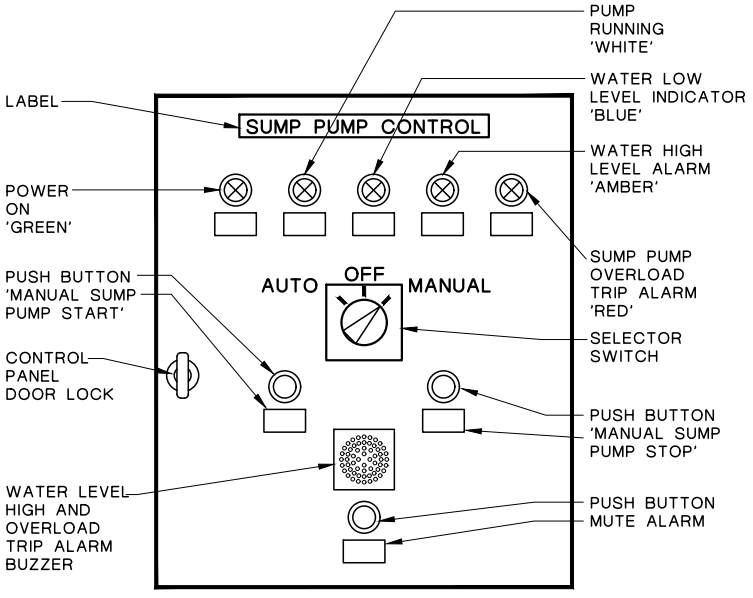


NOTES:

1. THE SUMP PUMP SHALL BE AUTOMATIC START AND STOP WHEN WATER LEVEL REACHES THE PUMP START LEVEL AND THE PUMP CUT-OFF LEVEL
2. START/STOP CONTROL OF THE SUMP PUMP SHALL BE PROVIDED ON THE CONTROL PANEL.
3. CHANGEOVER SWITCH FOR SWITCHING THE POWER SUPPLY TO THE SUMP PUMP SHALL BE PROVIDED. CHANGEOVER SCHEMATIC IS SHOWN IN CLP DRG. NO. T-COP-10250-D-E33-0106-01
4. SUMP PUMP CONTROL CIRCUIT DIAGRAM SHALL BE FRAMED AND DISPLAYED NEXT TO THE SUMP PUMP CONTROL PANEL.
5. SUMP PIT SIZE MIN. 600mm x 600mm.



FLOODING ALARM LIGHT AT EACH ENTRANCE



PROPOSED SUMP PUMP CONTROL PANEL

B	GENERAL AMENDMENT	C	DRAWING TITLE UPDATED

REVS.	20.08.07	23.02.17	15.06.20								
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	H.T.YU	H.T.YU								

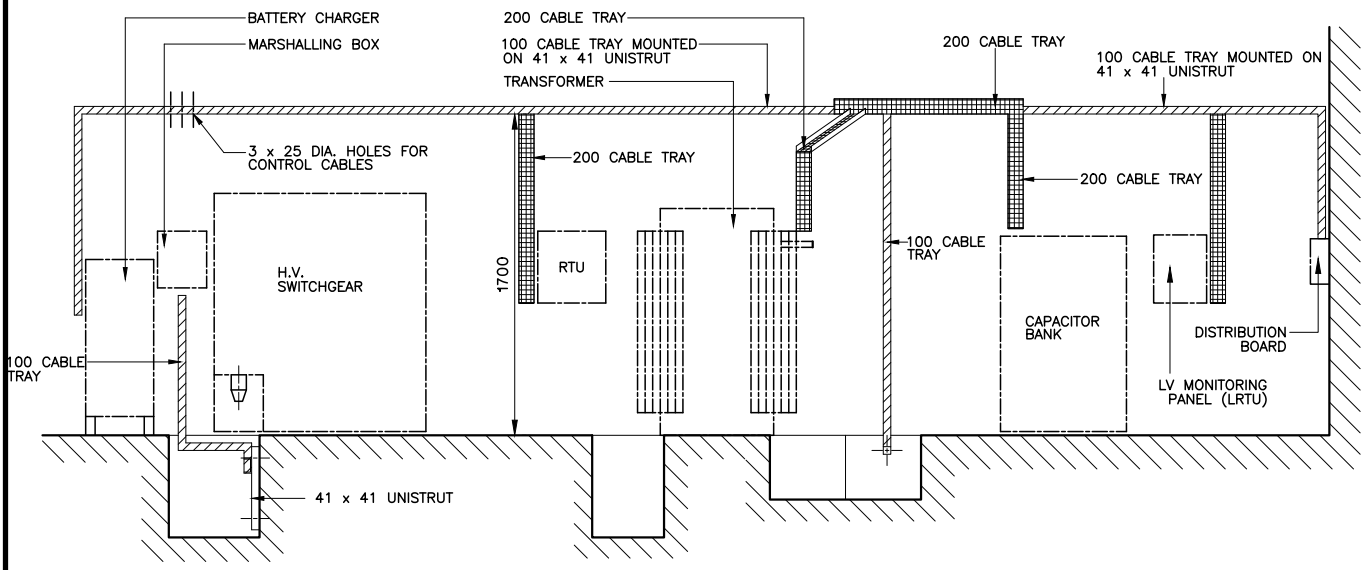
CLP 中電

DRAWN: S. C. TO	DATE: 22-07-2002
CHECKED: K. C. CHENG	APPROVED: K. W. WONG
SCALE: N. T. S.	SHEET(S) IN SET:

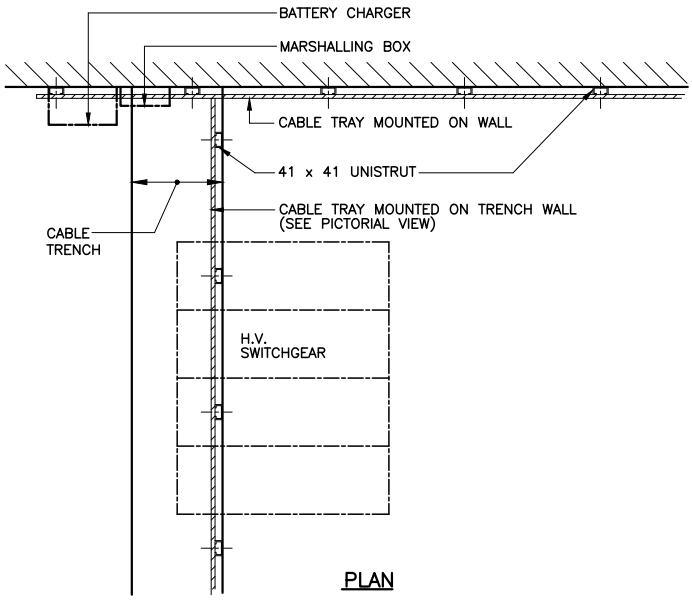
TITLE : GENERAL SCHEMATIC DIAGRAM OF SUMP PUMP AND PIPE CONNECTIONS FOR BASEMENT SUBSTATION / SUBSTATION WITH RISK OF FLOODING

ASSET MANAGEMENT

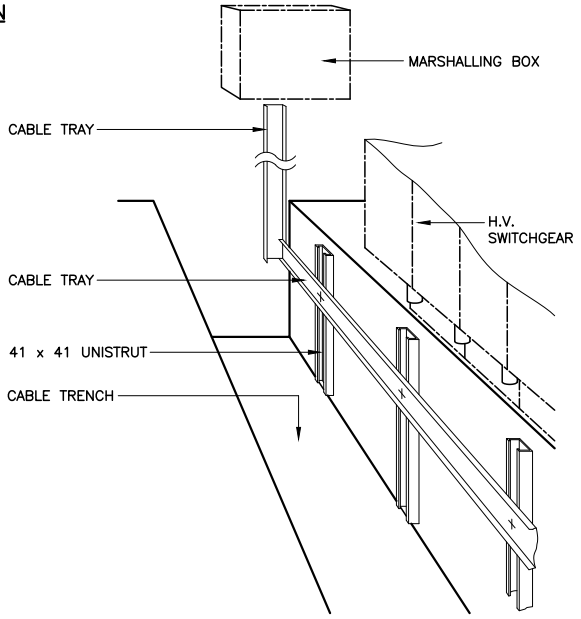
DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 6 0 4 C A



ELEVATION



PLAN



PICTORIAL VIEW

NOTES:

1. ALL METAL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE EARTHING PLATE WITH 2 COPPER CONNECTOR NOT LESS THAN $6mm^2$.
2. ALL METAL WORKS TO BE HOT DIP GALVANISED.
3. ACTUAL INSTALLATION LOCATION TO BE ADVISED ON SITE BY CLP POWER.
4. ALL DIMENSIONS ARE IN MILLIMETRE.

D	SIZE OF UNISTRUT UPDATED
C	BATTERY CHARGER UPDATED
B	LV MONITORING PANEL ADDED
A	RTU ADDED

REVS.	13.09.04	21.12.05	17.03.17	23.03.20							
	A	B	C	D	E	F	G	H	J	K	L
INITIAL	K.C.C.	K.C.C.	H.T.YU	H.T.YU							

CLP 中電

TITLE :

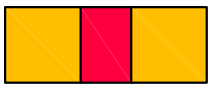
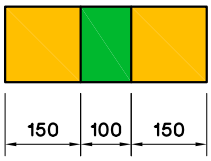
TYPICAL ARRANGEMENT OF CABLE TRAY

DRAWN:	S. C. TO	DATE:	12-8-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	N.T.S.	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3301060 5DA

COLOUR CODE SYSTEM

	COLOUR CODE	PIPE/CONDUIT
	RED	FIRE FIGHTING PIPE (WATER)
	YELLOW/BLACK	FIRE FIGHTING PIPE (CO_2 GAS)
	ORANGE	ELECTRICAL CONDUIT
	ORANGE/RED	FIRE PROTECTION SYSTEM CONTROL WIRING
	ORANGE/GREEN	COMPUTER DATA SIGNALING

REFERENCE: BS1710 SPECIFICATION FOR IDENTIFICATION OF PIPELINES AND SERVICES.
BS4800 SCHEDULE OF PAINT COLOURS FOR BUILDING PURPOSE.

A	COLOUR CODE FOR COMPUTER DATA SIGNALING ADDED

CLP 中電

REVS.	16.5.12 A	B	C	D	E	F	G	H	J	K	L
INITIAL	E. YU										

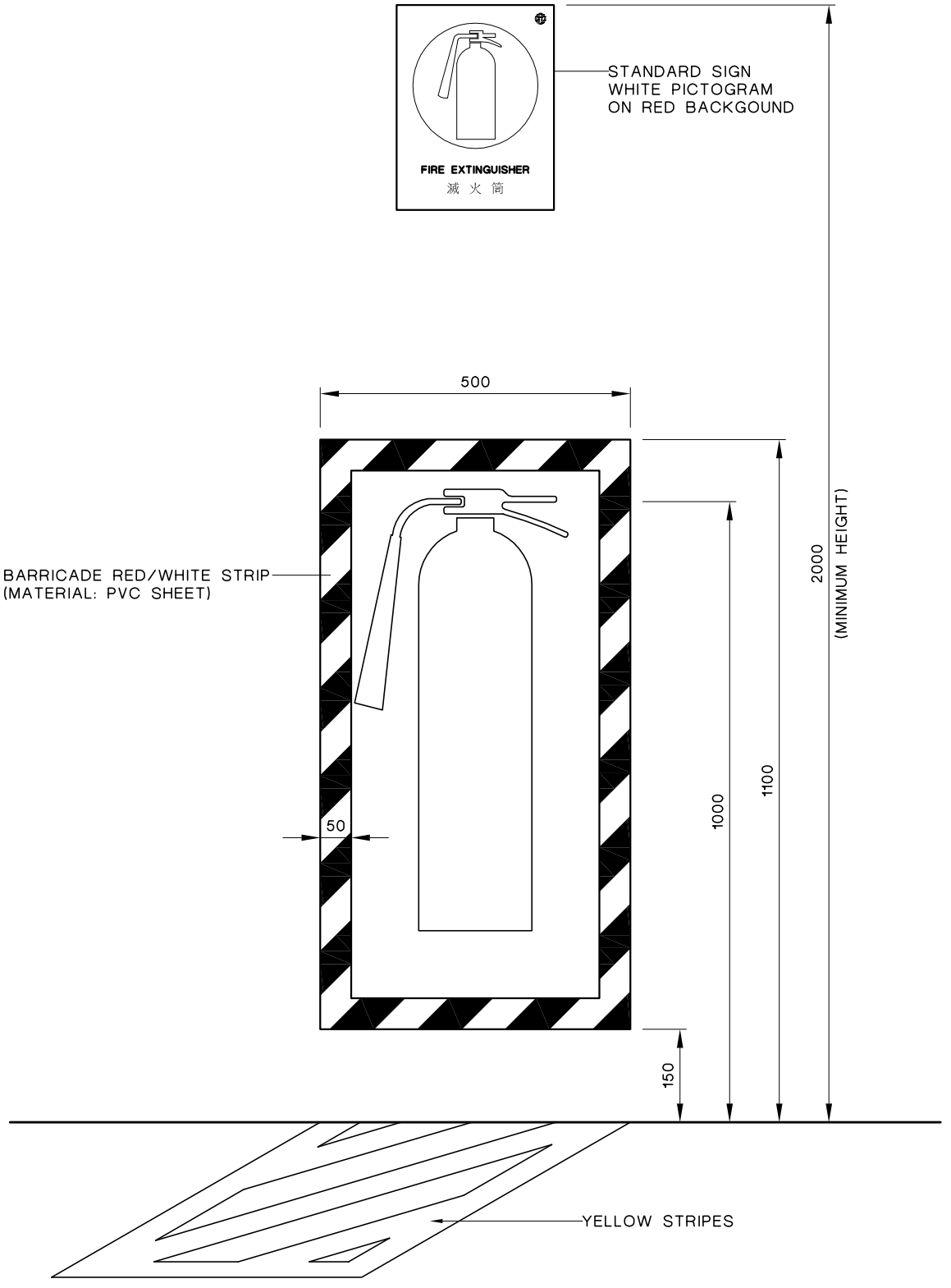
DRAWN: C. W. WONG	DATE: 15 Sep., 2004
CHECKED: K. C. CHENG	APPROVED: W. C. HO
SCALE: 1 : 15	SHEET(S) IN SET:

TITLE :

COLOUR CODES FOR PIPES AND CONDUITS IN DISTRIBUTION SUBSTATION

ASSET MANAGEMENT

DRG. NO. TCOP10250DE33010606AA



ALL DIMENSIONS ARE IN mm

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

TITLE :

FIRE EXTINGUISHER DEMARCATION

DRAWN: C W WONG	DATE: 9 Aug., 2007
CHECKED: K C CHENG	APPROVED: W C HO
SCALE: N. T. S.	SHEET(S) IN SET:

ASSET MANAGEMENT

DRG. NO. TCOP10250DE3010608-A