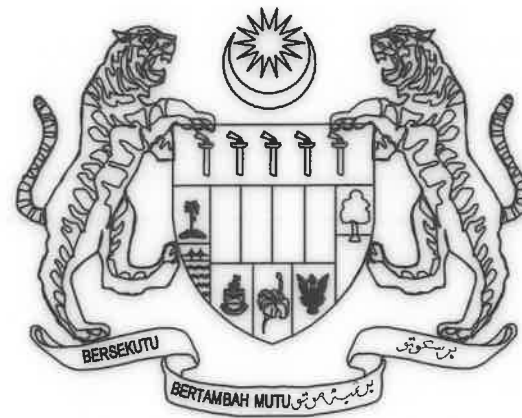
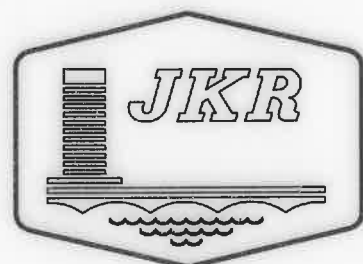




KERAJAAN MALAYSIA

STANDARD DRAWINGS FOR ROAD WORKS

SECTION 7 : ROAD LIGHTING

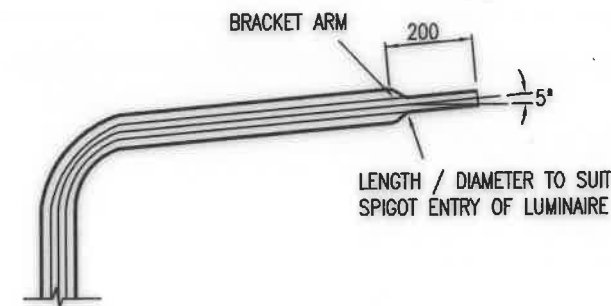
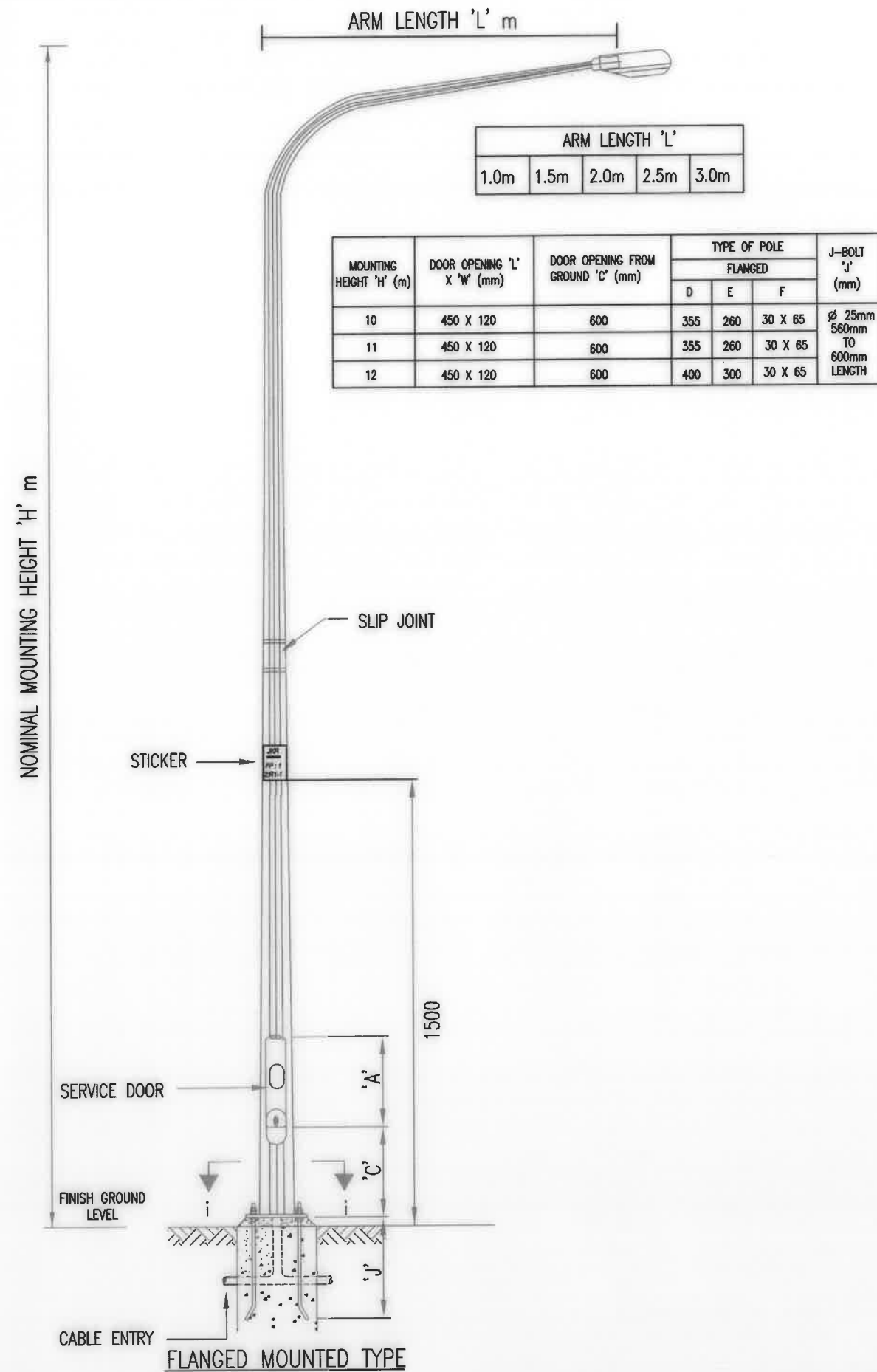


Ketua Pengarah Kerja Raya
Jabatan Kerja Raya Malaysia
Jalan Sultan Salahuddin
50582 Kuala Lumpur

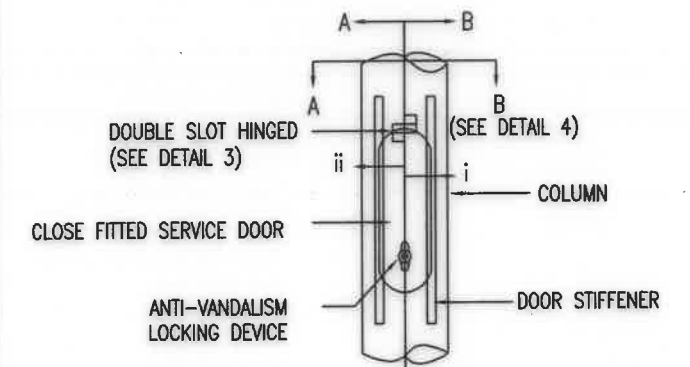
LIST OF DRAWINGS : ROAD LIGHTING

NO.	DRAWING TITLE	DRAWING NO	NO.	DRAWING TITLE	DRAWING NO
1	LIST OF DRAWINGS	KPKR/J/R/STD/S7/01-1	19	TECHNICAL INFORMATION AND STICKER FOR ROAD LIGHTING COLUMN	KPKR/J/R/STD/S7/05-1
2	HPSV SINGLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN	KPKR/J/R/STD/S7/02-1	20	TECHNICAL INFORMATION AND STICKER FOR INTEGRATED SOLAR LED ROAD LIGHTING COLUMN	KPKR/J/R/STD/S7/05-2
3	HPSV DOUBLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN	KPKR/J/R/STD/S7/02-2	21	FEEDER PILLAR HOUSING (WITH TNB METER)	KPKR/J/R/STD/S7/06-1
4	HPSV SINGLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN	KPKR/J/R/STD/S7/02-3	22	DETAILS OF FEEDER PILLAR (WITH TNB METER)	KPKR/J/R/STD/S7/06-2
5	HPSV DOUBLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN	KPKR/J/R/STD/S7/02-4	23	FEEDER PILLAR HOUSING (WITHOUT TNB METER)	KPKR/J/R/STD/S7/06-3
6	HPSV SINGLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR)	KPKR/J/R/STD/S7/02-5	24	DETAILS OF FEEDER PILLAR (WITHOUT TNB METER)	KPKR/J/R/STD/S7/06-4
7	HPSV DOUBLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR)	KPKR/J/R/STD/S7/02-6	25	MODULAR TERMINATION BOX (SERVICE DOOR FOR HPSV LUMINAIRE)	KPKR/J/R/STD/S7/07-1
8	HPSV SINGLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR)	KPKR/J/R/STD/S7/02-7	26	MODULAR TERMINATION BOX (TWO SERVICE DOOR FOR LED LUMINAIRE)	KPKR/J/R/STD/S7/07-2
9	HPSV DOUBLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR)	KPKR/J/R/STD/S7/02-8	27	TERMINATION BOARD (SERVICE DOOR FOR HPSV LUMINAIRE)	KPKR/J/R/STD/S7/07-3
10	LED SINGLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN	KPKR/J/R/STD/S7/03-1	28	TERMINATION BOARD (TWO SERVICE DOOR FOR LED LUMINAIRE)	KPKR/J/R/STD/S7/07-4
11	LED DOUBLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN	KPKR/J/R/STD/S7/03-2			
12	LED SINGLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN	KPKR/J/R/STD/S7/03-3			
13	LED DOUBLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN	KPKR/J/R/STD/S7/03-4			
14	LED SINGLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR)	KPKR/J/R/STD/S7/03-5			
15	LED DOUBLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR)	KPKR/J/R/STD/S7/03-6			
16	LED SINGLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR)	KPKR/J/R/STD/S7/03-7			
17	LED DOUBLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR)	KPKR/J/R/STD/S7/03-8			
18	INTEGRATED SOLAR LED SINGLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN	KPKR/J/R/STD/S7/04-1			

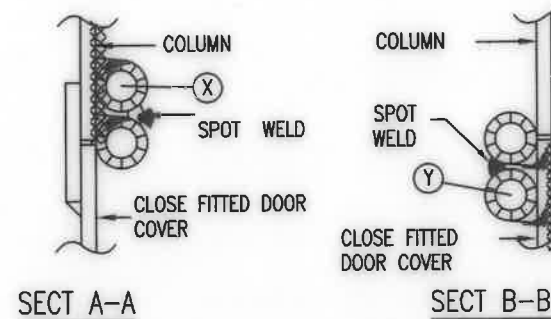
TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK		 Ir. HANIZAN BT. SHAFFI PENGARAH KANAN		SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIJAWI INI BOLEH DIGUNAPAKA KE ATAS PROJEK BERKENAAN TANDATANGAN : NAMA : JAWATAN :		 JABATAN KERJA RAYA MALAYSIA LIST OF DRAWINGS				
			DIREKABENTUK : DZAKIRA BT. ZAKARIA DILUKIS : MARNIZA BT. ZAINOL ABIDIN DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI		 Ir. HUSIN B. MUSTAFA PENGARAH PERUNDING REKABENTUK				TARIKH: DISEMBER 2020		NO LUKISAN PIJAWI : KPKR/J/R/STD/S7/01-1	BIL HELAAN PIJAWI: 1/28	BIL HELAAN :
PINDAAN			N.T.S										



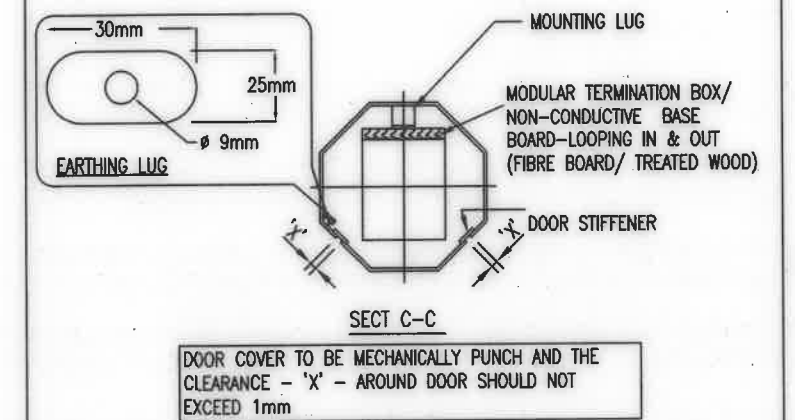
DETAIL 1: SPIGOT END OF BRACKET ARM



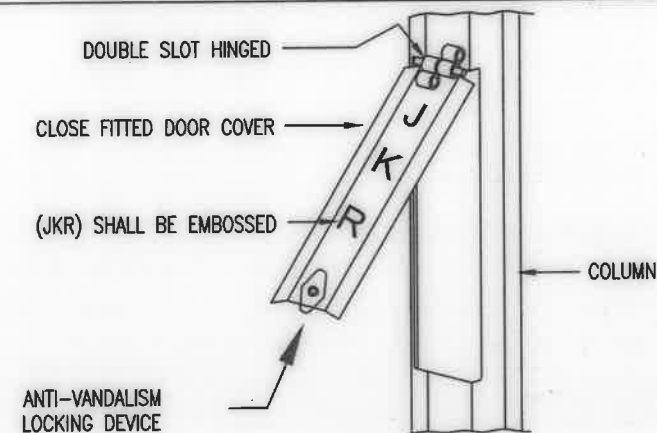
DETAIL 2: DOUBLE SLOT HINGED SERVICE DOOR



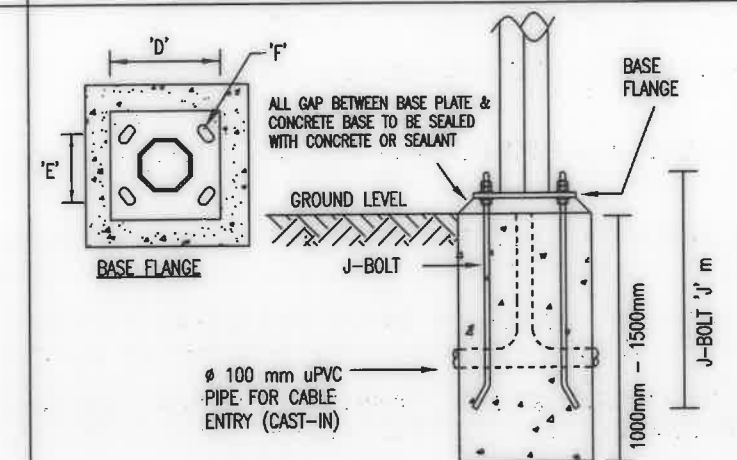
DETAIL 3: DOUBLE SLOT HINGED RIVETED TO COLUMN



DETAIL 4: BASE BOARD FOR TERMINATION BOX

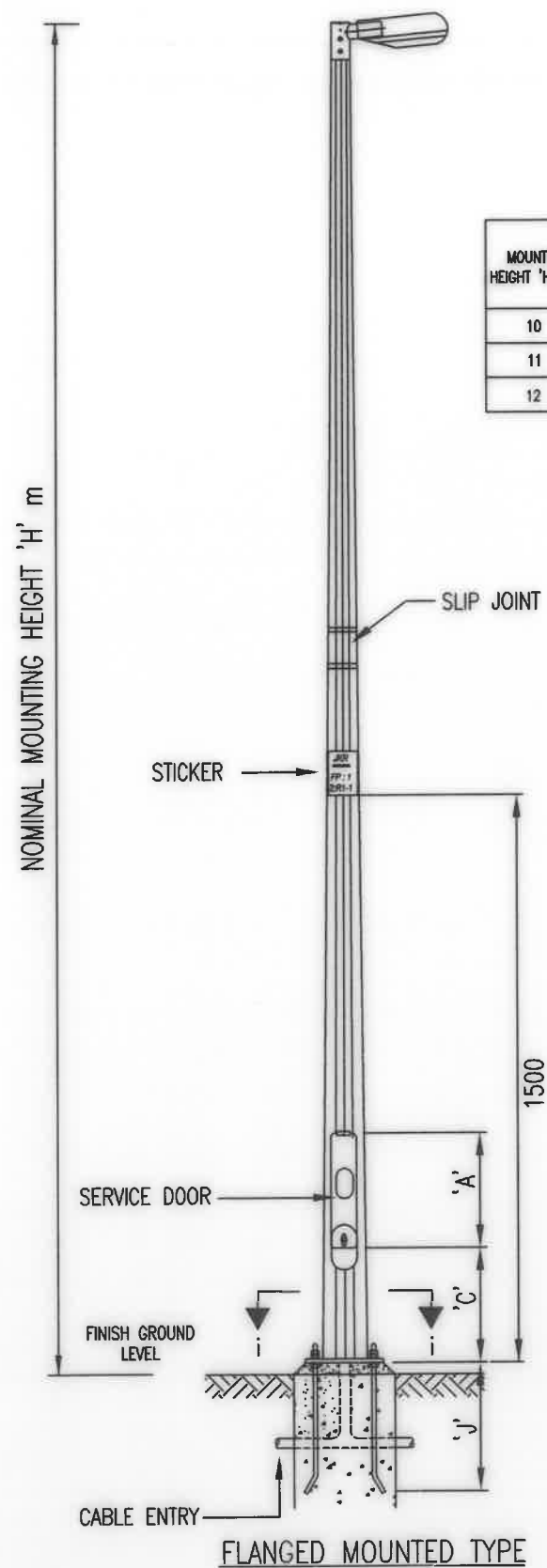


DETAIL 5: HINGED DOOR ISOMETRIC VIEW

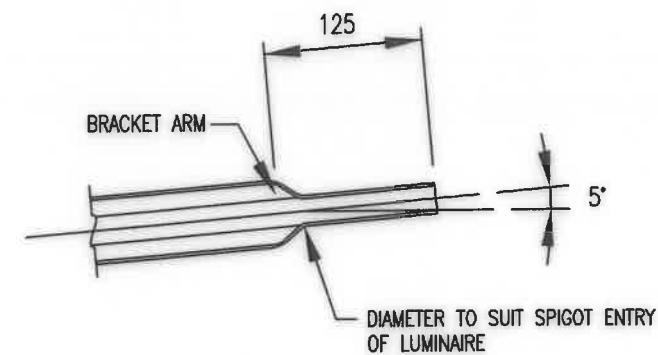


DETAIL 6: BASE FLANGED & CONCRETE FOUNDATION

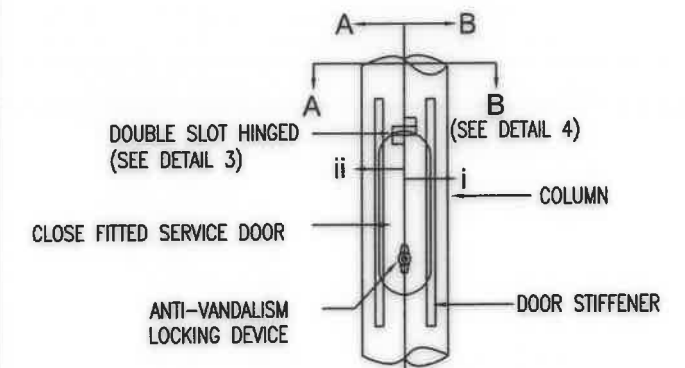
TARIKH	BUTIRAN	RUKUN	CAWANGAN KEJURUTERAAN ELEKTRIK		SAYA DENGAN INI TELAH MENYEMAK DAN MENGENSAHKAN BAHAWA LUKISAN PIAWAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN		JABATAN KERJA RAYA MALAYSIA	
			DIREKABENTUK : DZAKIRA BT. ZAKARIA		Ir. HANIZAN BT. SHAFFI PENGARAH KANAN		HPSV SINGLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN	
			DILUKIS : MARNIZA BT. ZANOL ABIDIN		DISEMAK : Ir. HANIFF BIN AB HAMID		TARIKH: DESEMBER 2020	
			DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI		Ir. HUSIN B. MUSTAFA PENGARAH PERUNDING REKABENTUK		NO LUKISAN PIAWAI : KPKR/J/R/STD/S7/02-1	
	PINDAAN		N.T.S UKURAN				BIL HELAIAAN PAWA: 2/28	
							BIL HELAIAAN	



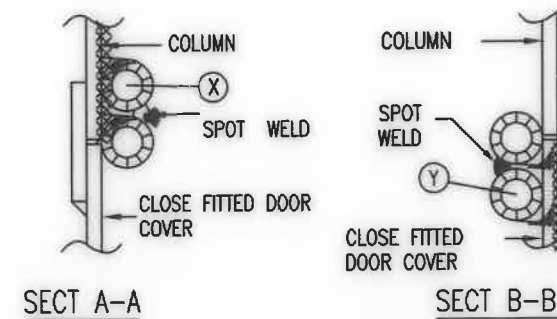
MOUNTING HEIGHT 'H' (m)	DOOR OPENING 'L' X 'W' (mm)	DOOR OPENING FROM GROUND 'C' (mm)	TYPE OF POLE			J-BOLT 'J' (mm)
			FLANGED			
			D	E	F	
10	450 X 120	600	355	260	30 X 65	Ø 25mm 560mm TO 600mm LENGTH
11	450 X 120	600	355	260	30 X 65	
12	450 X 120	600	400	300	30 X 65	



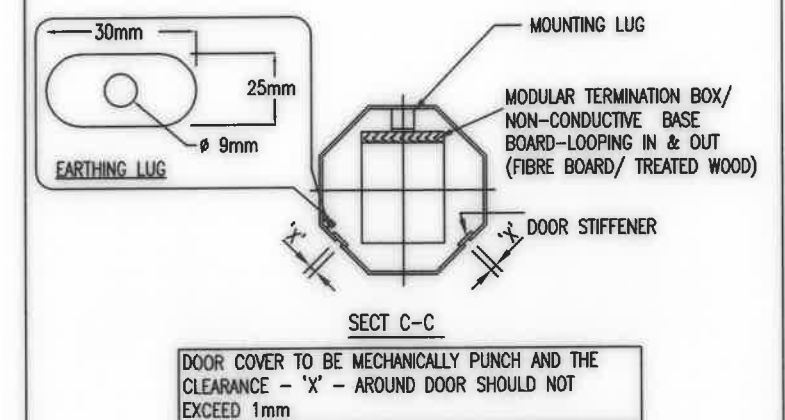
DETAIL 1: SPIGOT END OF BRACKET ARM



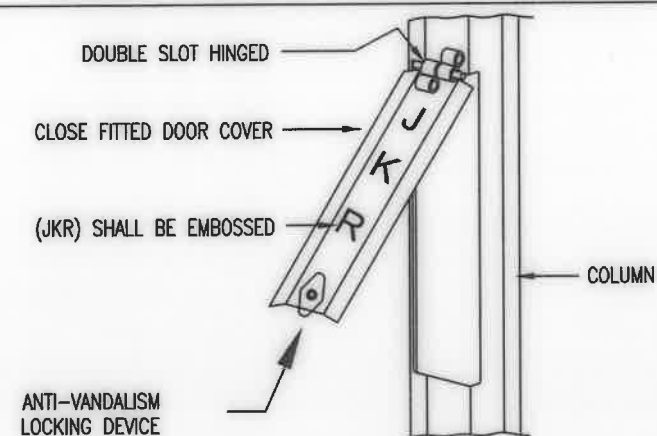
DETAIL 2: DOUBLE SLOT HINGED SERVICE DOOR



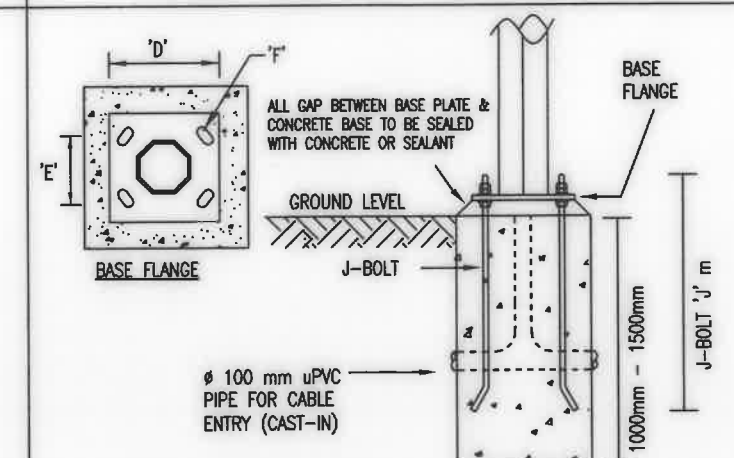
DETAIL 3: DOUBLE SLOT HINGED RIVETED TO COLUMN



DETAIL 4: BASE BOARD FOR TERMINATION BOX



DETAIL 5: HINGED DOOR ISOMETRIC VIEW



DETAIL 6: BASE FLANGED & CONCRETE FOUNDATION

TARIKH

BUTIRAN

RUJUKAN

CAWANGAN KEJURUTERAAN ELEKTRIK

DIREKABENTUK :
DZAKIRA BT. ZAKARIA

DILUKIS :
MARNIZA BT. ZAINOL ABIDIN

DILULUSKAN :
Ir. NOOR ASHIKIN BT. MD TAMIMI

DISEMAK :
Ir. HANIFF BIN AB HAMID

DILULUSKAN :
Ir. NOOR ASHIKIN BT. MD TAMIMI

N.T.S
UKURAN

PINDAAN

Ir. HANIZAN BT. SHAFFI
PENGARAH KANAN

Ir. HUSIN B. MUSTAFA
PENGARAH PERUNDING REKABENTUK

SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIAWAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN

TANDATANGAN :

NAMA :

JAWATAN :



JABATAN KERJA RAYA MALAYSIA

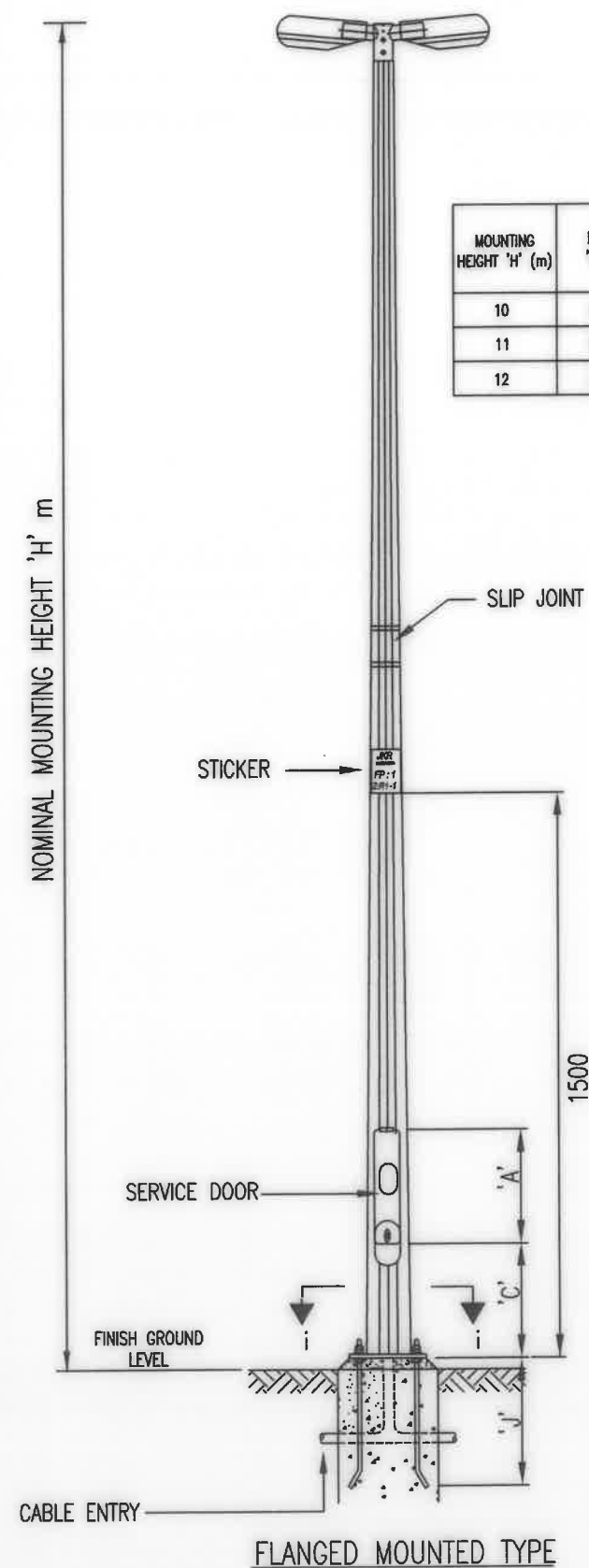
HPSV SINGLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN

TARIKH:
DISEMBER 2020

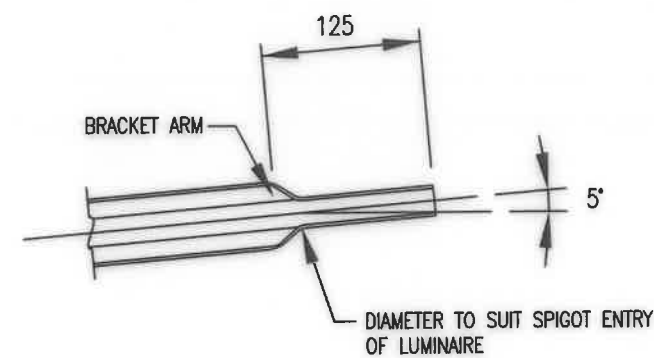
NO LUKISAN PIAWAI :
KPKR/J/R/STD/S7/02-3

BIL HELAAN
PIAWAI: 4/28

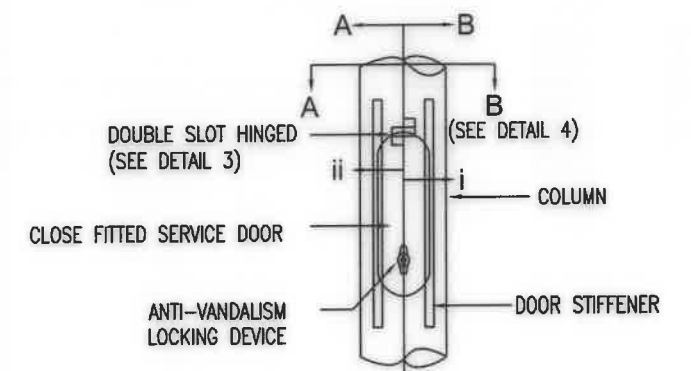
BIL HELAAN :



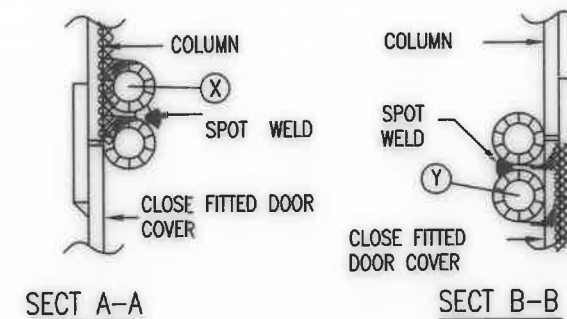
MOUNTING HEIGHT 'H' (m)	DOOR OPENING 'L' X 'W' (mm)	DOOR OPENING FROM GROUND 'C' (mm)	TYPE OF POLE			J-BOLT 'J' (mm)
			FLANGED			
			D	E	F	
10	450 X 120	600	355	260	30 X 65	Ø 25mm 560mm TO 600mm LENGTH
11	450 X 120	600	355	260	30 X 65	
12	450 X 120	600	400	300	30 X 65	



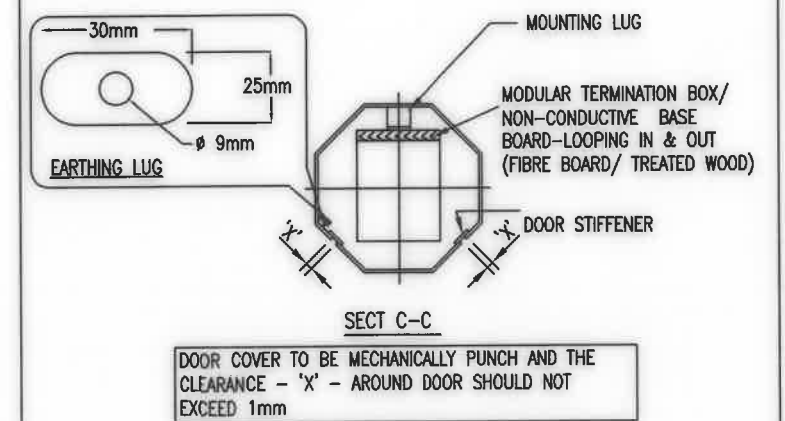
DETAIL 1: SPIGOT END OF BRACKET ARM



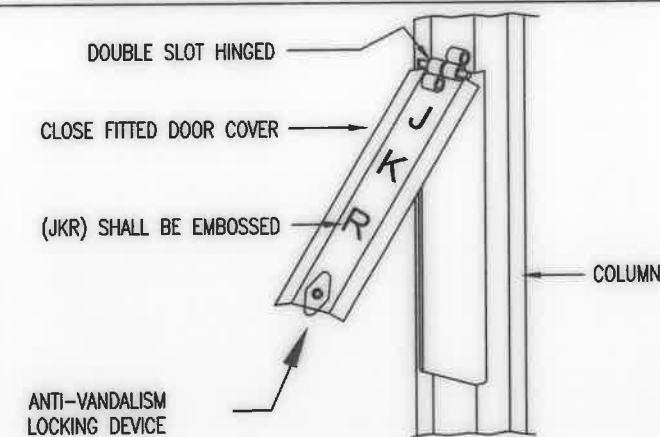
DETAIL 2: DOUBLE SLOT HINGED SERVICE DOOR



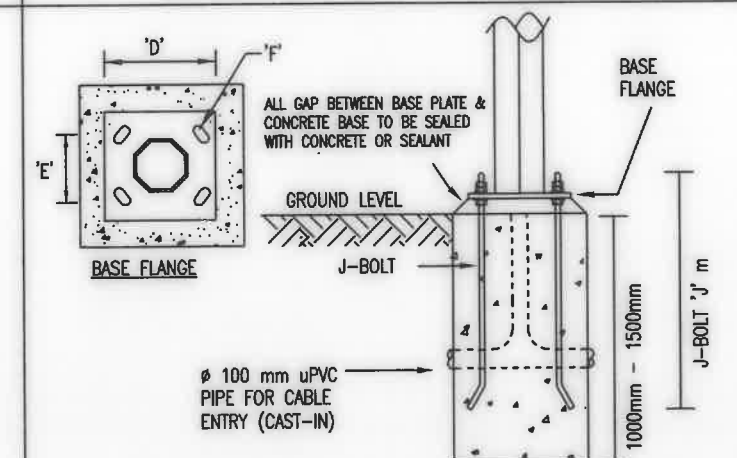
DETAIL 3: DOUBLE SLOT HINGED RIVETED TO COLUMN



DETAIL 4: BASE BOARD FOR TERMINATION BOX

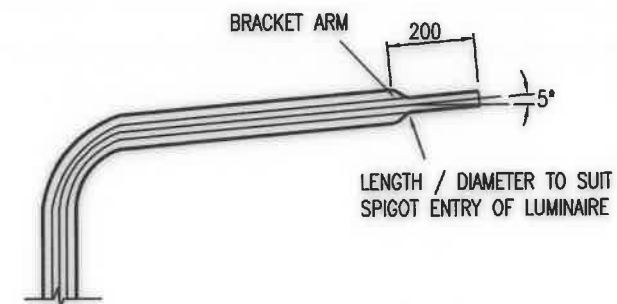
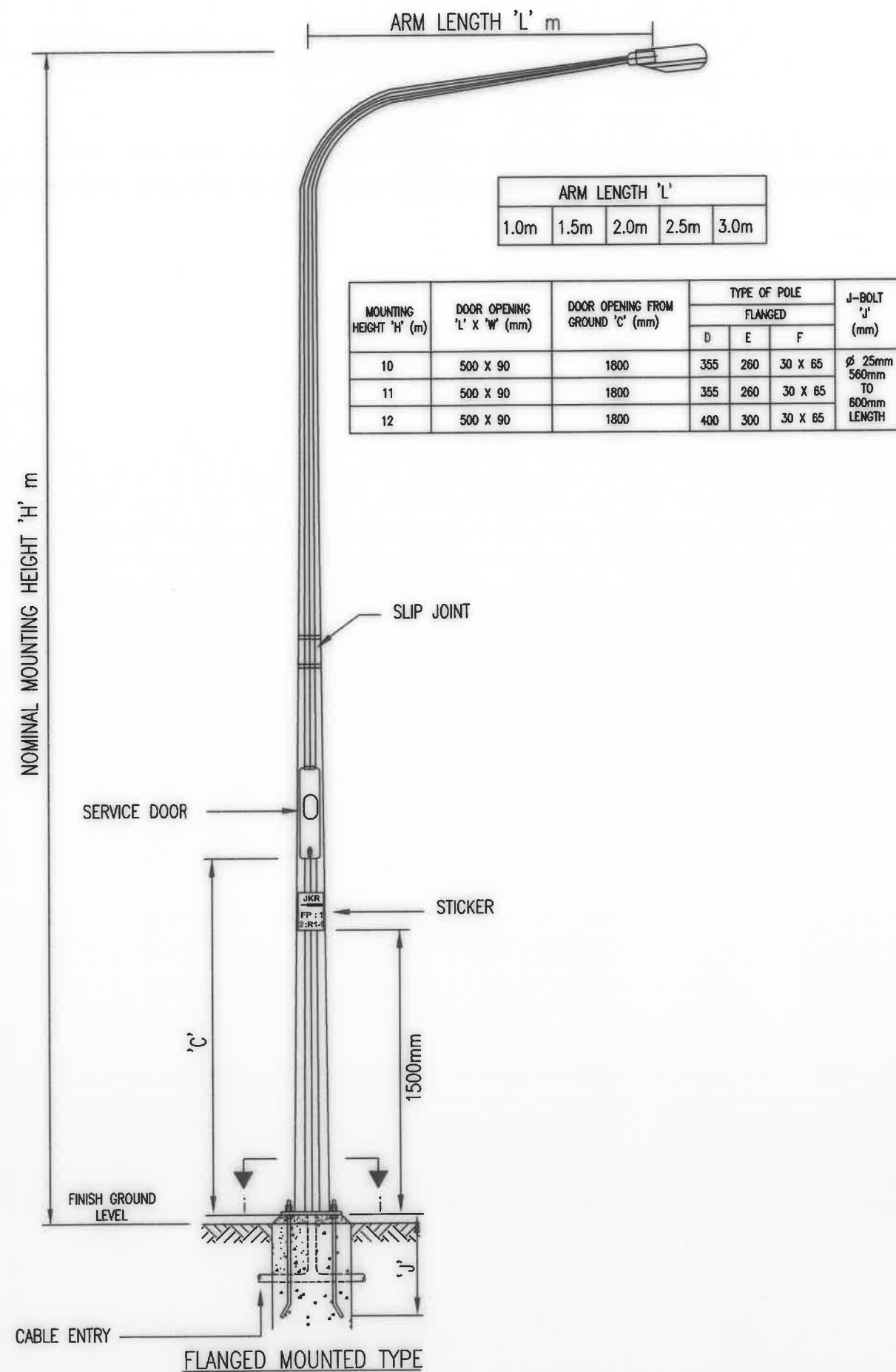


DETAIL 5: HINGED DOOR ISOMETRIC VIEW

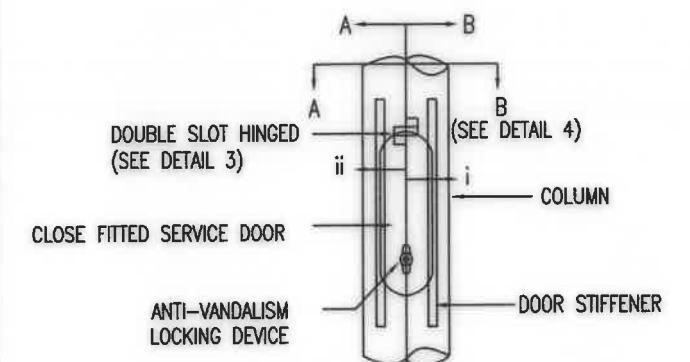


DETAIL 6: BASE FLANGED & CONCRETE FOUNDATION

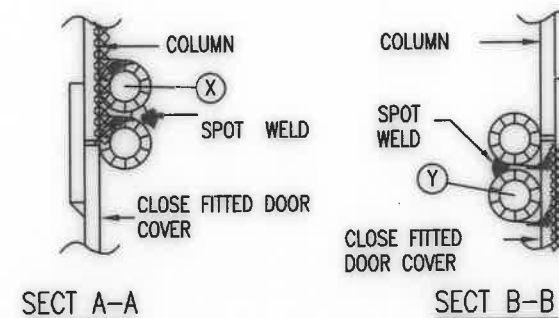
TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK		SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIAMAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN		JABATAN KERJA RAYA MALAYSIA	
			DIREKABENTUK : DZAKIRA BT. ZAKARIA		Ir. HANIZAN BT. SHAFFII PENGARAH KANAN		HPSV DOUBLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN	
			DILUKIS : MARNIZA BT. ZAINOL ABIDIN		DISEMAK : Ir. HANIFF BIN AB-HAMID		TANDATANGAN :	
			DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI		Ir. HUSIN B. MUSTAFA PENGARAH PERUNDING REKABENTUK		NAMA :	
	PINDAAN		N.T.S				JAWATAN :	
			UKURAN				TARIKH: DESEMBER 2020	
							NO LUKISAN PIAMAI : KPR/J/R/STD/S7/02-4	
							BIL HELAIAN PIAMAI: 5/28	
							BIL HELAIAN :	



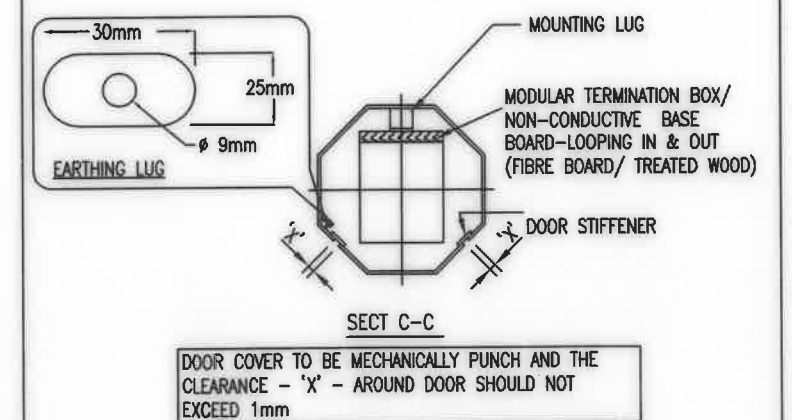
DETAIL 1: SPIGOT END OF BRACKET ARM



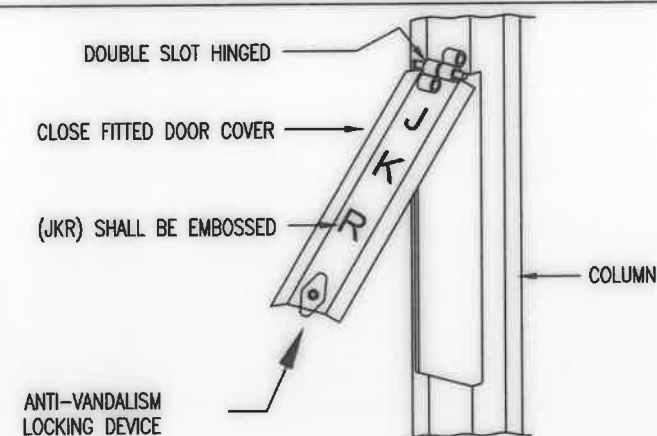
DETAIL 2: DOUBLE SLOT HINGED SERVICE DOOR



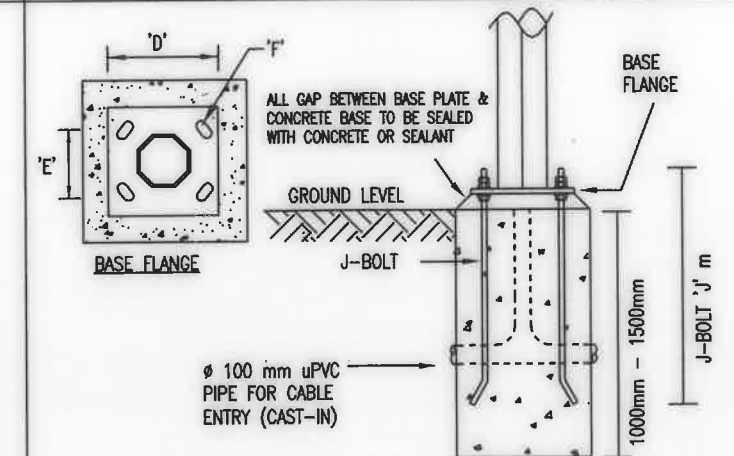
DETAIL 3: DOUBLE SLOT HINGED RIVETED TO COLUMN



DETAIL 4: BASE BOARD FOR TERMINATION BOX



DETAIL 5: HINGED DOOR ISOMETRIC VIEW



DETAIL 6: BASE FLANGED & CONCRETE FOUNDATION

TARIKH

BUTIRAN

RUJUKAN

N.T.S
UKURAN

CAWANGAN KEJURUTERAAN ELEKTRIK

DIREKABENTUK :
DZAKIRA BT. ZAKARIA
DILUKIS :
MARNIZA BT. ZANOL ABIDIN
DISEMAK :
Ir. HANIFF BIN AB HAMID
DILULUSKAN :
Ir. NOOR ASHIKIN BT. MD TAMIMI

Ir. HANIZAN BT. SHAFFI
PENGARAH KANAN
Ir. HUSIN B. MUSTAFA
PENGARAH PERUNDING REKABENTUK

SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIJAWAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN

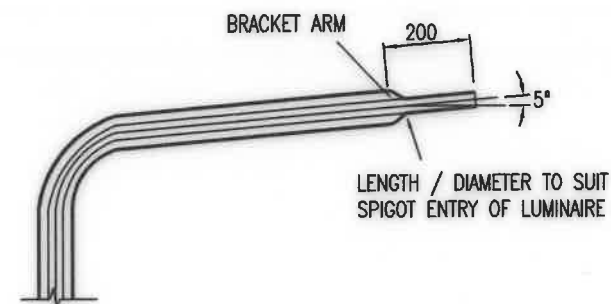
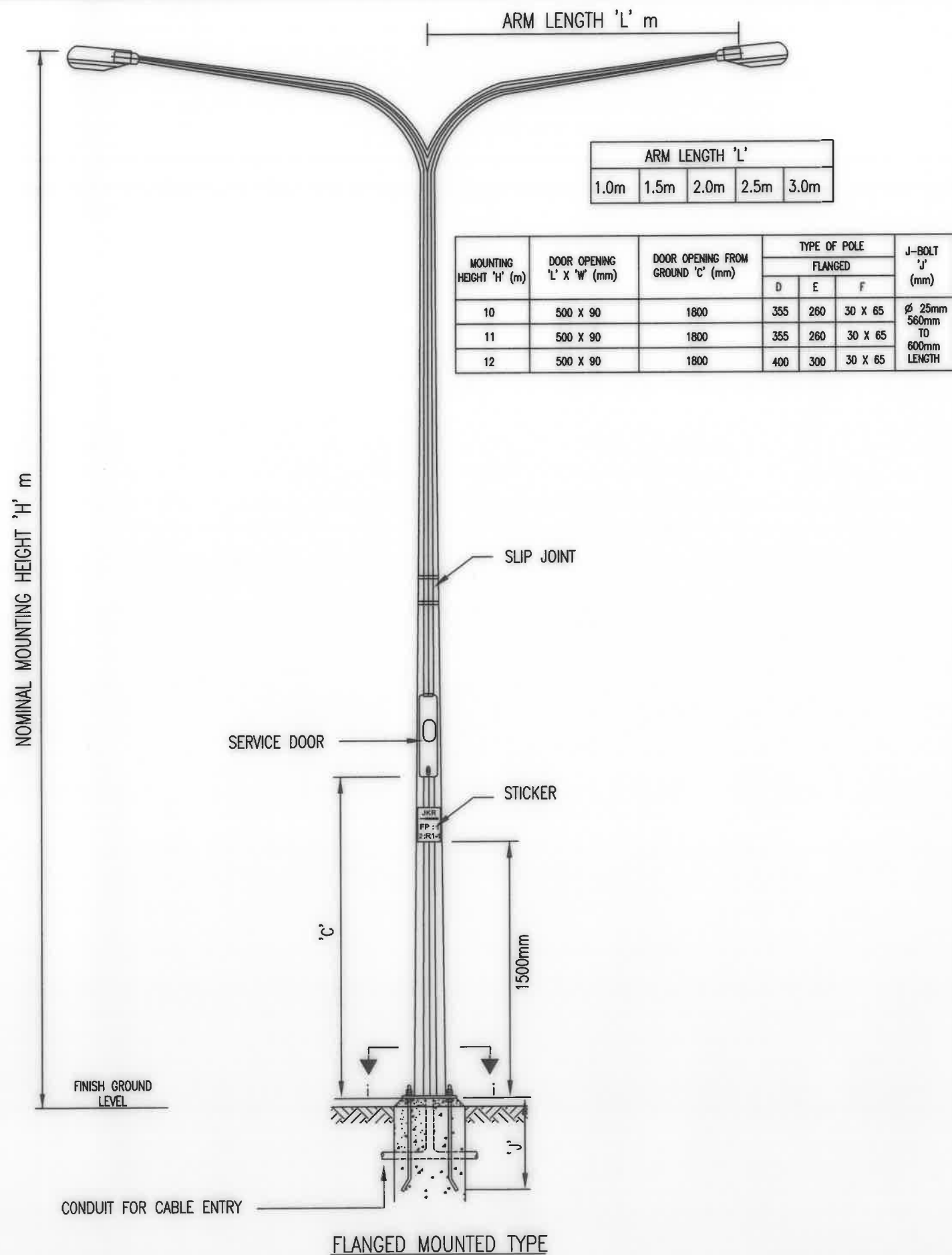
TANDATANGAN :
NAMA :
JAWATAN :



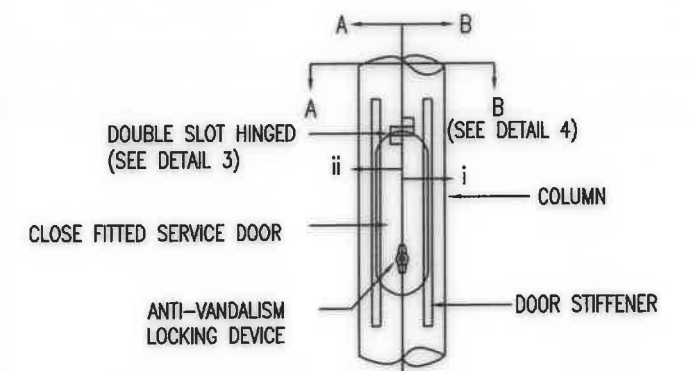
JABATAN KERJA RAYA MALAYSIA

HPSV SINGLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR)

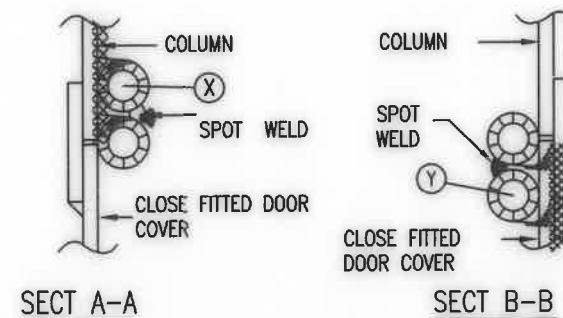
TARIKH: DESEMBER 2020
NO LUKISAN PIJAWAI : KPKR/J/R/STD/S7/02-5
BIL HELAJAN : 6/28
BIL HELAJAN :



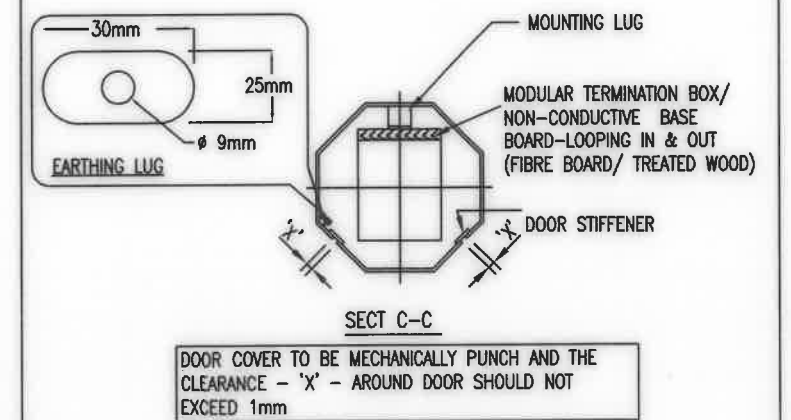
DETAIL 1: SPIGOT END OF BRACKET ARM



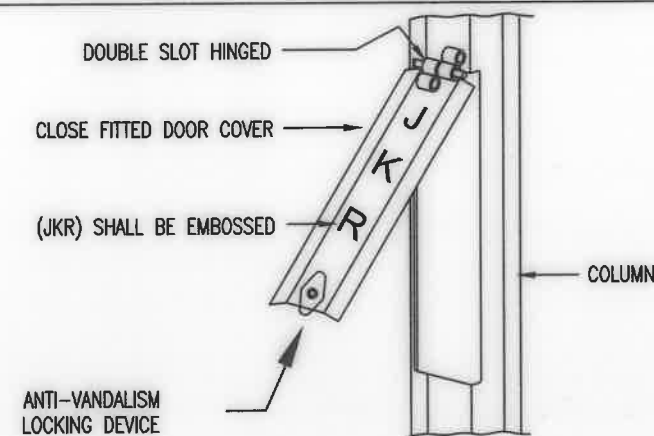
DETAIL 2: DOUBLE SLOT HINGED SERVICE DOOR



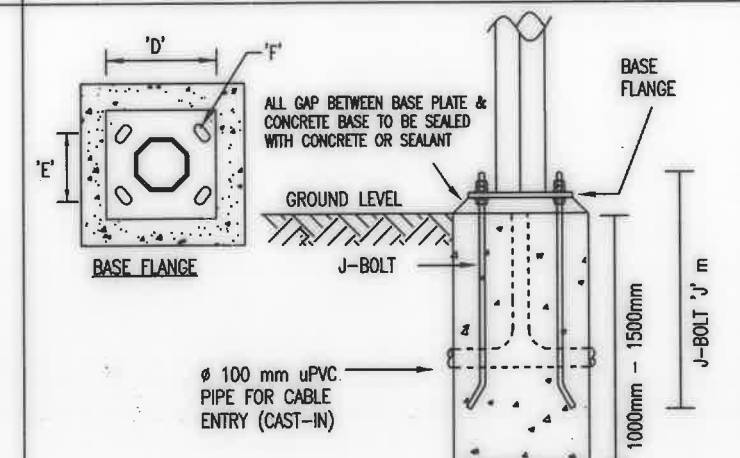
DETAIL 3: DOUBLE SLOT HINGED RIVETED TO COLUMN



DETAIL 4: BASE BOARD FOR TERMINATION BOX

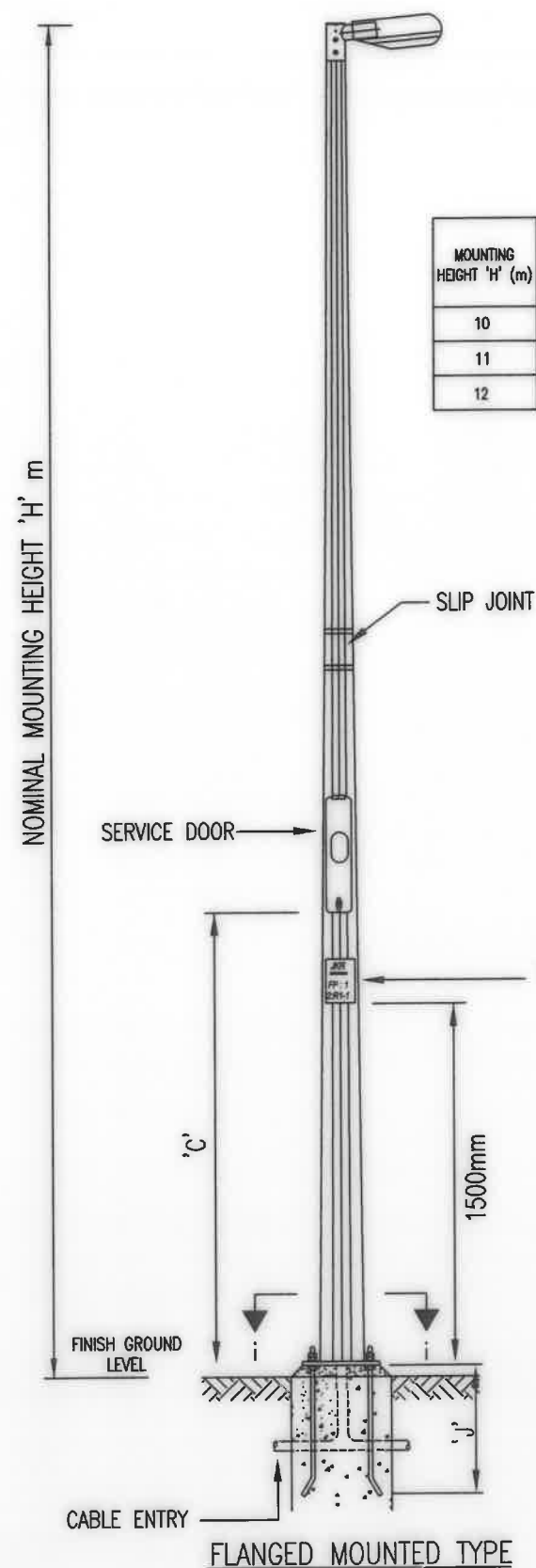


DETAIL 5: HINGED DOOR ISOMETRIC VIEW

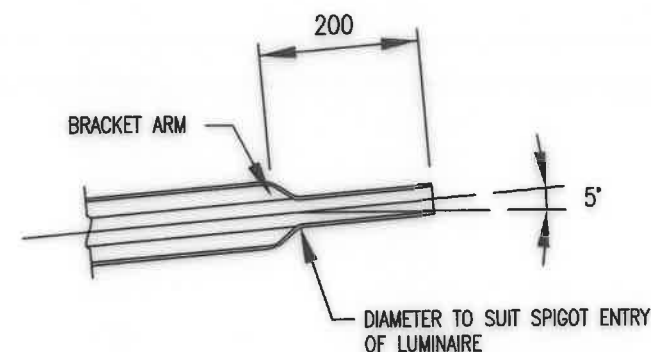


DETAIL 6: BASE FLANGED & CONCRETE FOUNDATION

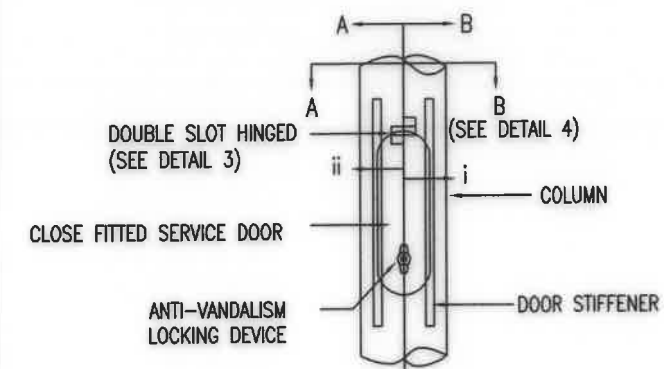
TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK		SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIJAWI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN		JABATAN KERJA RAYA MALAYSIA	
			DIREKABENTUK : DZAKIRA BT. ZAKARIA		Ir. HANIZAN BT. SHAFFI PENGARAH KAWAN		HPSV DOUBLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR)	
			DILUKIS : MARNIZA BT. ZAHID ABIDIN		Ir. HANIFF BIN AB HAMID		TARIKH: DESEMBER 2020	
			DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI		Ir. HUSIN B. MUSTAFA PENGARAH PERUNDING REKABENTUK		NO LUKISAN PIJAWI : KPR/J/R/STD/S7/02-6	
	PINDAAN		N.T.S				BIL HELAAN : 7/28	
			UKURAN				BIL HELAAN :	



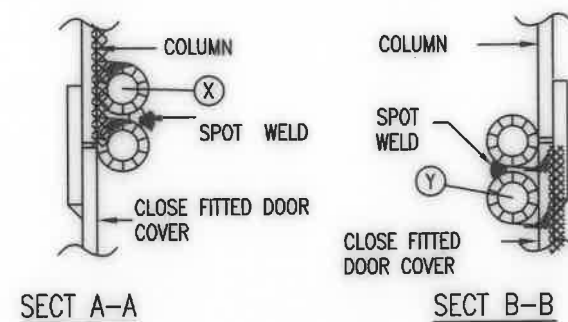
MOUNTING HEIGHT 'H' (m)	DOOR OPENING 'L' X 'W' (mm)	DOOR OPENING FROM GROUND 'C' (mm)	TYPE OF POLE			J-BOLT 'J' (mm)
			FLANGED			
			D	E	F	
10	500 X 90	1800	355	260	30 X 65	Ø 25mm 560mm TO 600mm LENGTH
11	500 X 90	1800	355	260	30 X 65	
12	500 X 90	1800	400	300	30 X 65	



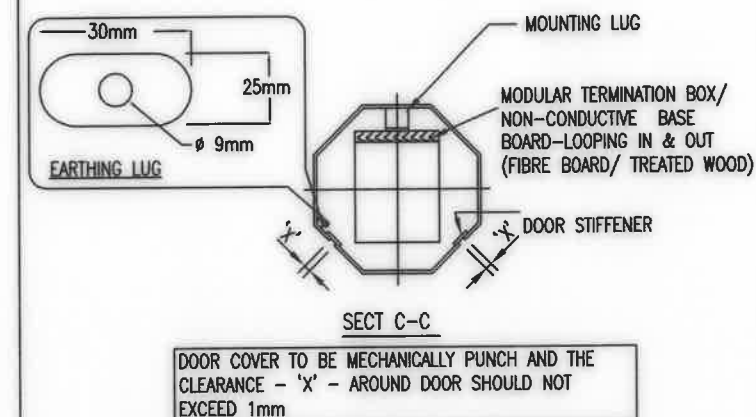
DETAIL 1: SPIGOT END OF BRACKET ARM



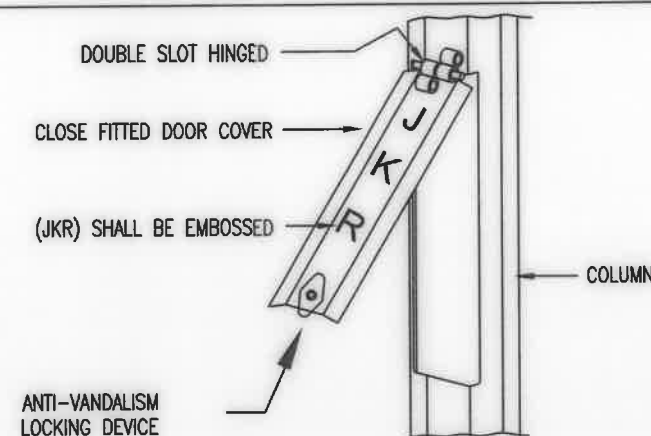
DETAIL 2: DOUBLE SLOT HINGED SERVICE DOOR



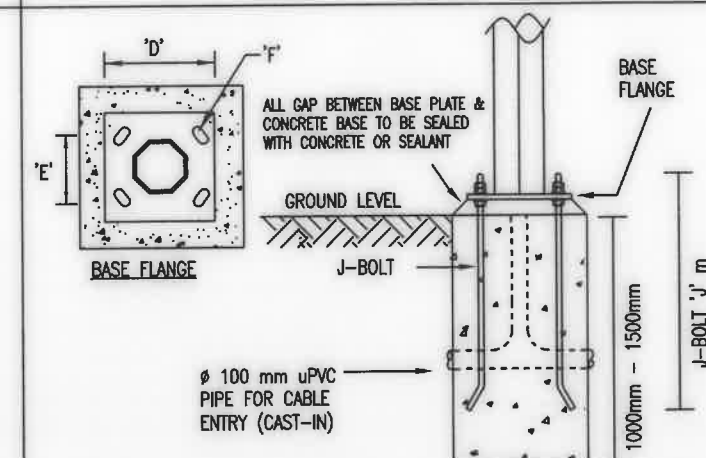
DETAIL 3: DOUBLE SLOT HINGED RIVETED TO COLUMN



DETAIL 4: BASE BOARD FOR TERMINATION BOX

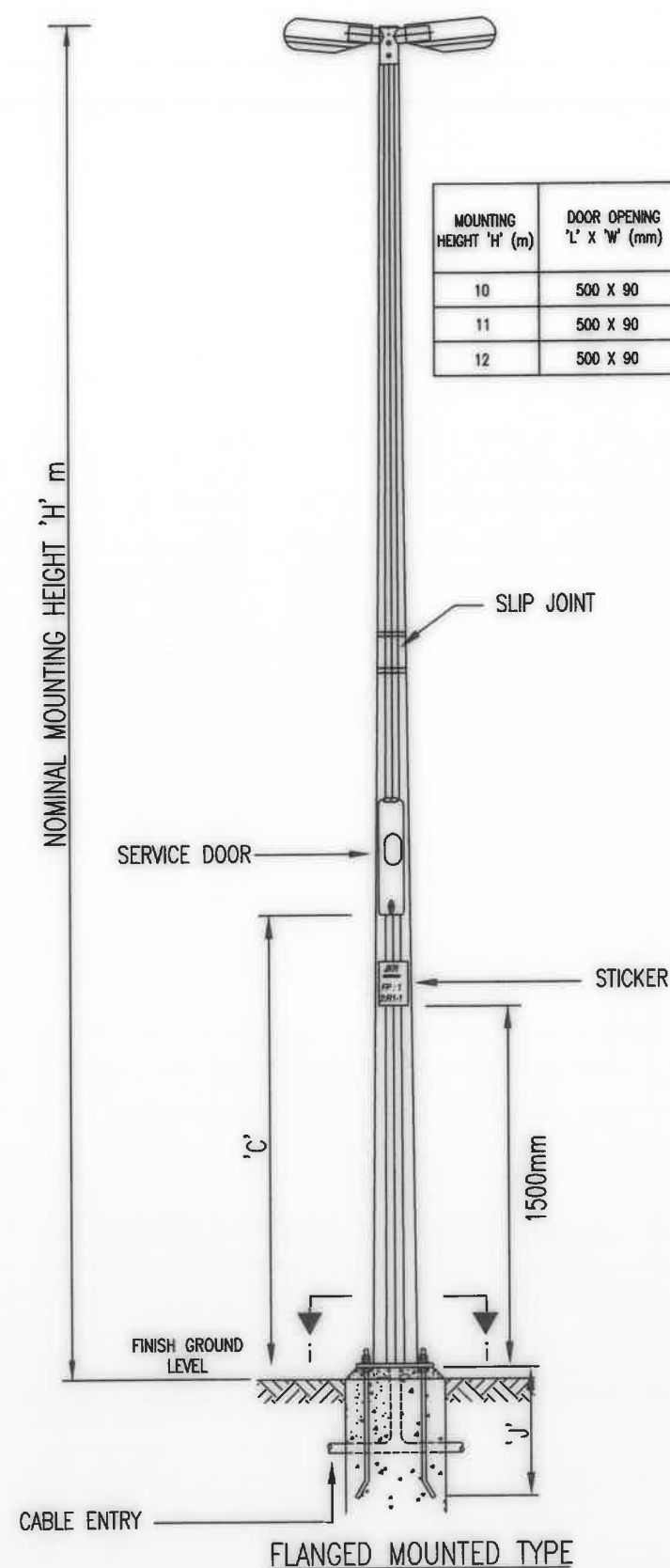


DETAIL 5: HINGED DOOR ISOMETRIC VIEW

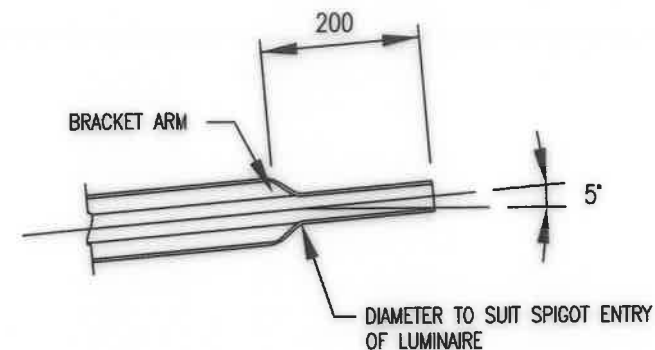


DETAIL 6: BASE FLANGED & CONCRETE FOUNDATION

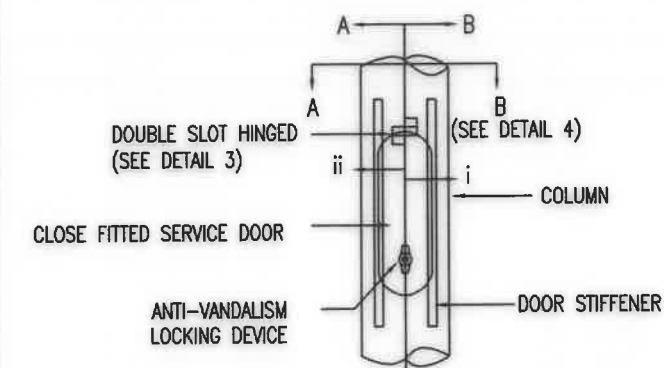
TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK		SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIJAWAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN		JABATAN KERJA RAYA MALAYSIA	
			DIREKABENTUK : DZAKIRA BT. ZAKARIA		Ir. HANIZAN BT. SHAFFI PENGARAH KANAN		HPSV SINGLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR)	
			DILUKIS : MARNIZA BT. ZATINOL ABIDIN		DISEMAK : Ir. HANIFF BIN AB HAMID		TARIKH: DISEMBER 2020	
			DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI		Ir. HUSIN B. MUSTAFA PENGARAH PERUNDING REKABENTUK		NO LUKISAN PIJAWAI : KPKR/J/R/STD/S7/02-7	
	PINDAAN		N.T.S UKURAN		JAWATAN :		BIL HELAIAN : PAJAWAI : 8/28	
							BIL HELAIAN :	



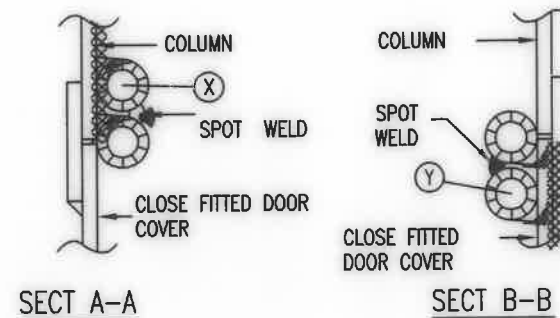
MOUNTING HEIGHT 'H' (m)	DOOR OPENING 'L' X 'W' (mm)	DOOR OPENING FROM GROUND 'C' (mm)	TYPE OF POLE			J-BOLT 'J' (mm)
			FLANGED			
			D	E	F	
10	500 X 90	1800	355	260	30 X 65	Ø 25mm 560mm TO 600mm LENGTH
11	500 X 90	1800	355	260	30 X 65	
12	500 X 90	1800	400	300	30 X 65	



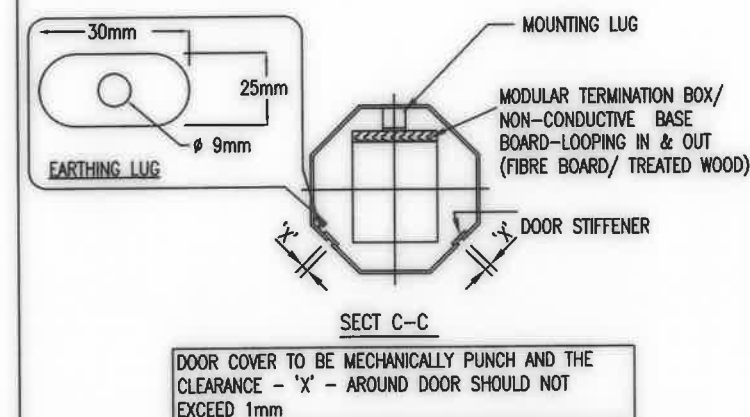
DETAIL 1: SPIGOT END OF BRACKET ARM



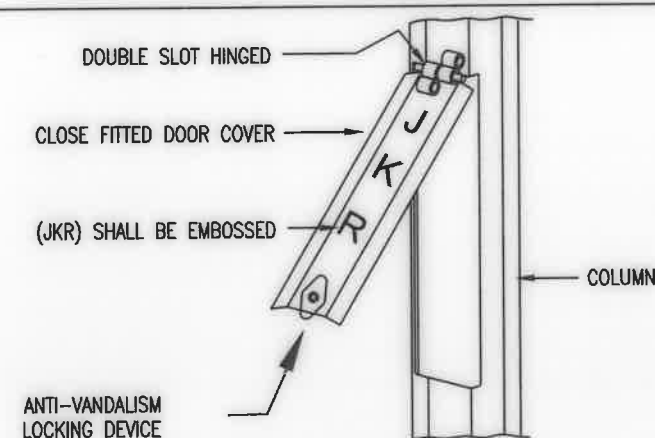
DETAIL 2: DOUBLE SLOT HINGED SERVICE DOOR



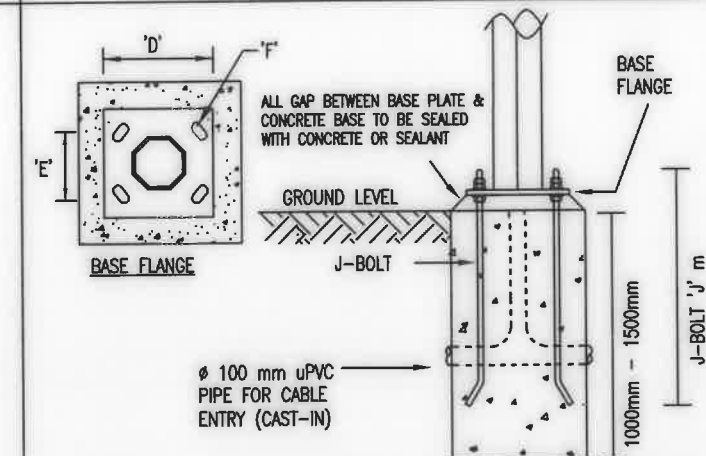
DETAIL 3: DOUBLE SLOT HINGED RIVETED TO COLUMN



DETAIL 4: BASE BOARD FOR TERMINATION BOX



DETAIL 5: HINGED DOOR ISOMETRIC VIEW



DETAIL 6: BASE FLANGED & CONCRETE FOUNDATION

TARIKH

BUTIRAN

RUJUKAN

CAWANGAN KEJURUTERAAN ELEKTRIK

DIREKABENTUK :

DZAKIRA BT. ZAKARIA

DILUKIS :

MARNIZA BT. ZAKOL ABIDIN

DILULUSKAN :

Ir. NOOR ASHIKIN BT. MD TAMIMI

DISEMAK :

Ir. HANIFF BIN AB HAMID

DISEMAK :

Ir. HANIFF BIN AB HAMID

Ir. HANIZAN BT. SHAFFII

PENGARAH KANAN

Ir. HUSIN B. MUSTAFA

PENGARAH PERUNDING REKABENTUK

SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIJAWI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN

TANDATANGAN :

NAMA :

JAWATAN :



JABATAN KERJA RAYA MALAYSIA

HPSV DOUBLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR)

TARIKH:

DESEMBER 2020

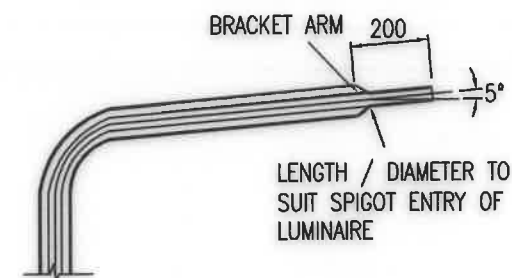
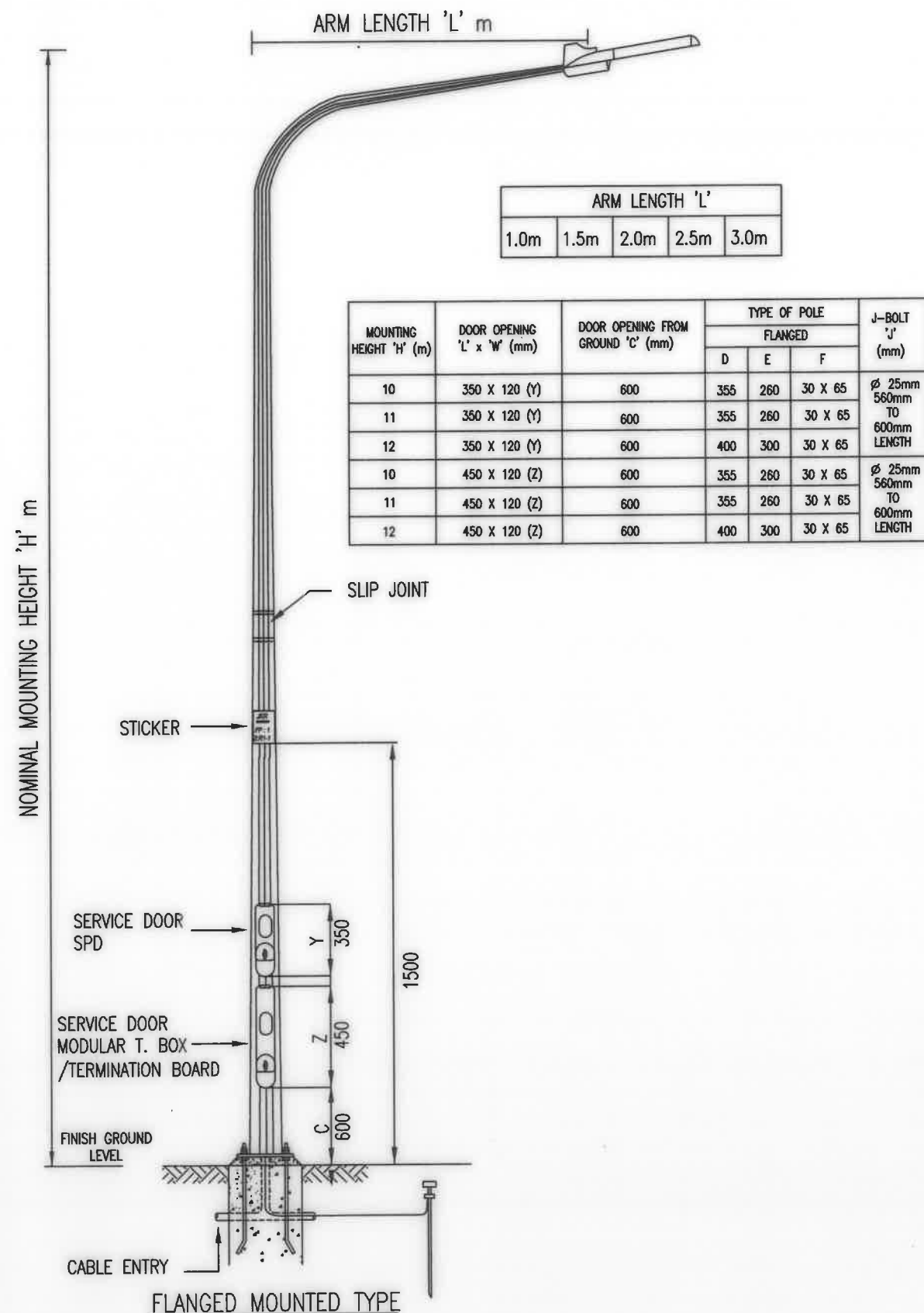
NO LUKISAN PIJAWI :

KPKR/J/R/STD/S7/02-8

BIL HELAAN

PAJAW: 9/28

BIL HELAAN :



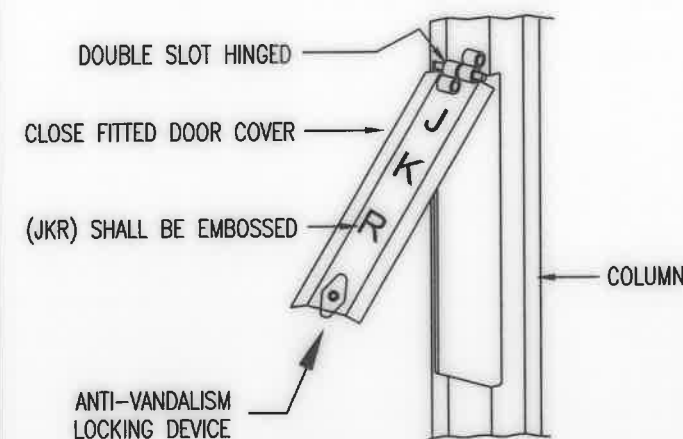
DETAIL 1: SPIGOT END OF BRACKET ARM



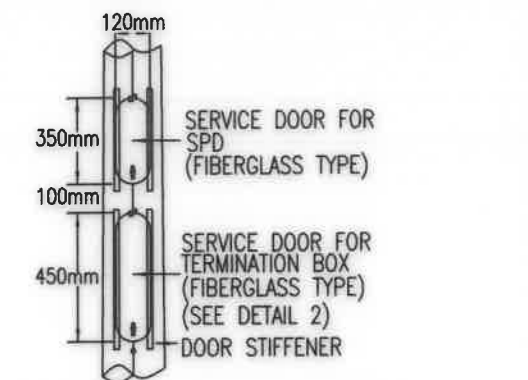
SECT A-A

SECT B-B

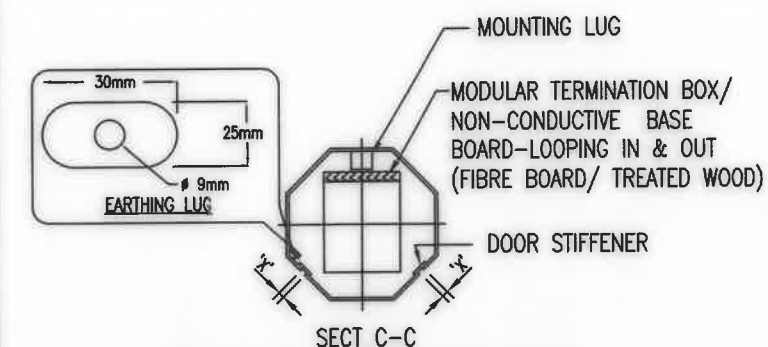
DETAIL 3: DOUBLE SLOT HINGED RIVETED TO COLUMN



DETAIL 5: HINGED DOOR ISOMETRIC VIEW

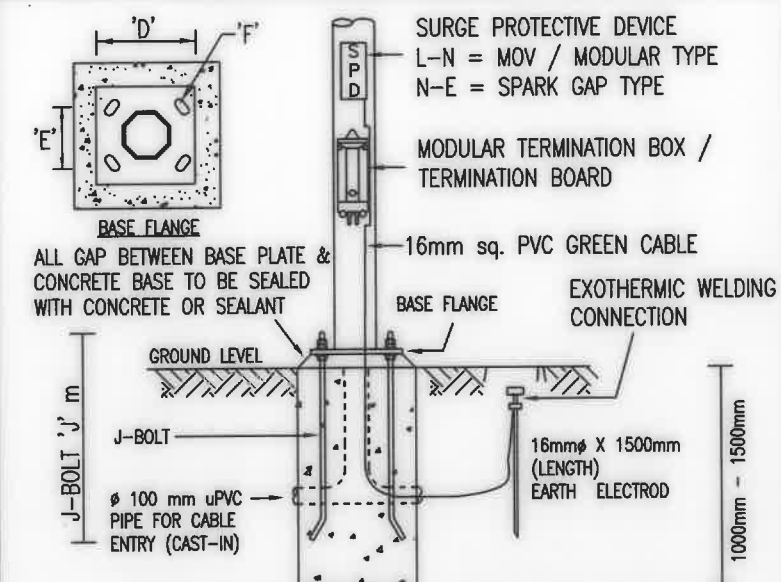


DETAIL 2: DOUBLE SLOT HINGED SERVICE DOOR



DOOR COVER TO BE MECHANICALLY PUNCH AND THE CLEARANCE - 'X' - AROUND DOOR SHOULD NOT EXCEED 1mm

DETAIL 4: BASE BOARD FOR TERMINATION BOX



DETAIL 6: BASE FLANGED & CONCRETE FOUNDATION

TARIKH

BUTIRAN

RUJUKAN

PINDAAN

CAWANGAN KEJURUTERAAN ELEKTRIK

DIREKABENTUK :
DZAKIRA BT. ZAKARIA
DILUKIS :
MARNIZA BT. ZAKARIA
DILULUSKAN :
Ir. NOOR ASHIKIN BT. MD TAMIMI

N.T.S
UKURAN

Ir. HANIZAN BT. SHAFFI
PENGARAH KANAN
Ir. HUSIN E. MUSTAFA
PENGARAH PERUNDING REKABENTUK

SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIAWAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN

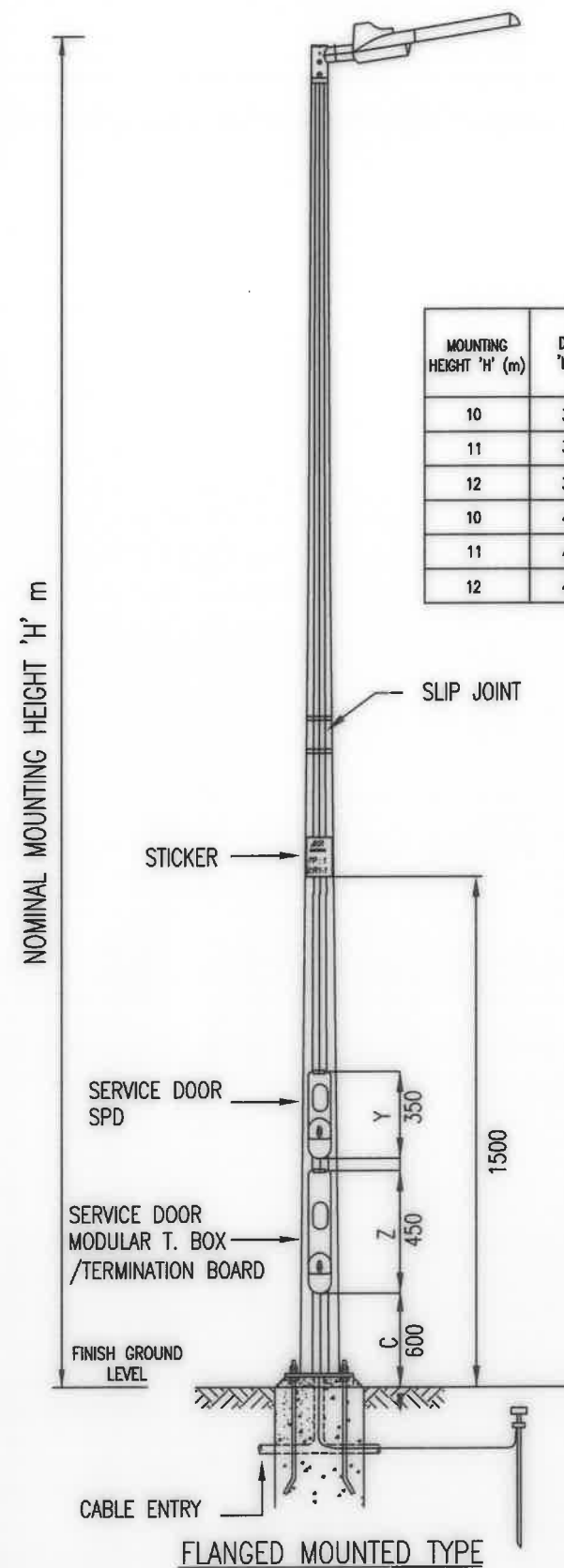
TANDATANGAN :
NAMA :
JAWATAN :



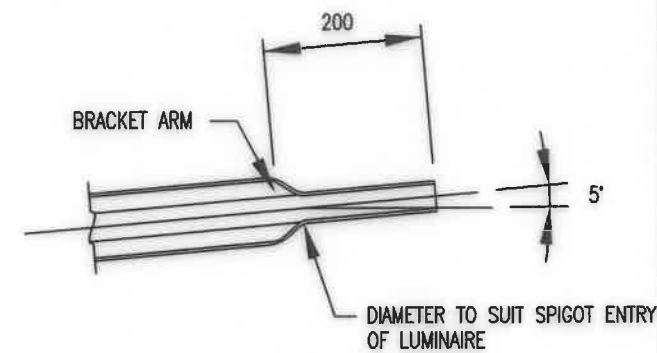
JABATAN KERJA RAYA MALAYSIA

LED SINGLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN

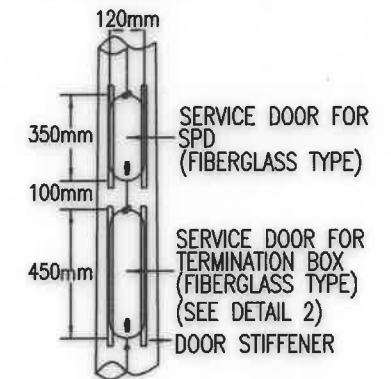
TARIKH: DISEMBER 2020
NO LUKISAN PIAWAI : KPR/J/R/STD/S7/03-1
BIL HELAAN PIAWAI : 10/28
BIL HELAAN :



MOUNTING HEIGHT 'H' (m)	DOOR OPENING 'L' x 'W' (mm)	DOOR OPENING FROM GROUND 'C' (mm)	TYPE OF POLE			J-BOLT 'J' (mm)
			FLANGED			
			D	E	F	
10	350 X 120 (Y)	600	355	260	30 X 65	Ø 25mm 560mm TO 600mm LENGTH
11	350 X 120 (Y)	600	355	260	30 X 65	
12	350 X 120 (Y)	600	400	300	30 X 65	
10	450 X 120 (Z)	600	355	260	30 X 65	Ø 25mm 560mm TO 600mm LENGTH
11	450 X 120 (Z)	600	355	260	30 X 65	
12	450 X 120 (Z)	600	400	300	30 X 65	



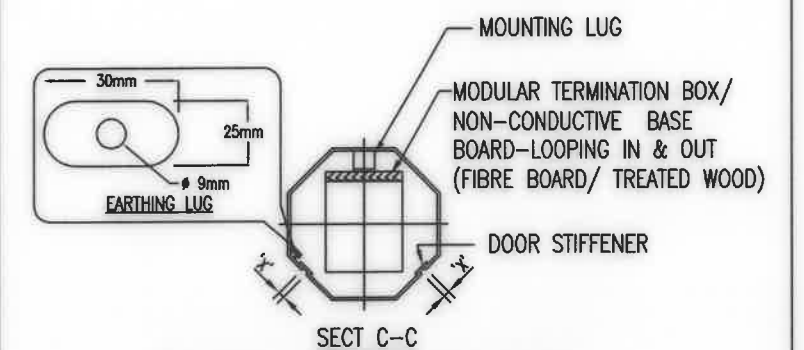
DETAIL 1: SPIGOT END OF BRACKET ARM



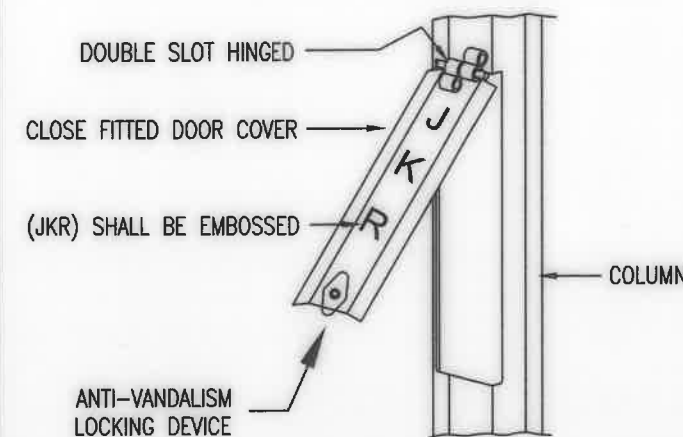
DETAIL 2: DOUBLE SLOT HINGED SERVICE DOOR



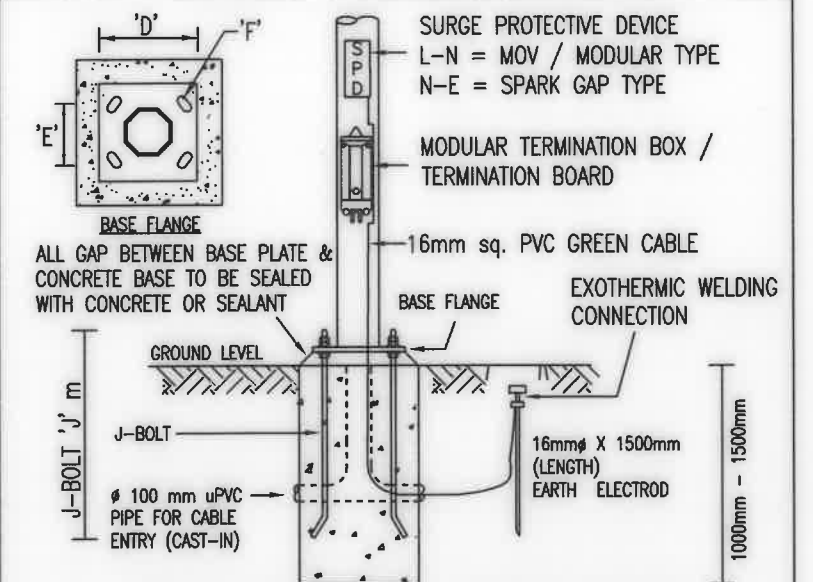
DETAIL 3: DOUBLE SLOT HINGED RIVETED TO COLUMN



DETAIL 4: BASE BOARD FOR TERMINATION BOX



DETAIL 5: HINGED DOOR ISOMETRIC VIEW



DETAIL 6: BASE FLANGED & CONCRETE FOUNDATION

TARIKH

BUTIRAN

RUJUKAN

CAWANGAN KEJURUTERAAN ELEKTRIK

DIREKABENTUK :
DZAKIRA BT. ZAKARIA

DILUKIS :
MARINZA BT. ZAKARIA

DILULUSKAN :
Ir. NOOR ASHIKIN BT. MD TAMIMI

DISEMAK :
Ir. HANIFF BIN AB HANIFF

DISEMAK :
Ir. HUSIN B. MUSTAFA

Ir. HANIZAN BT. SHAFFI
PENGARAH KANAN

Ir. HUSIN B. MUSTAFA
PENGARAH PERUNDING REKABENTUK

SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN
BAHAWA LUKISAN PIJAWAI INI BOLEH DIGUNAPAKAI
KE ATAS PROJEK BERKENAAN

TANDATANGAN :

NAMA :

JAWATAN :



JABATAN KERJA RAYA MALAYSIA

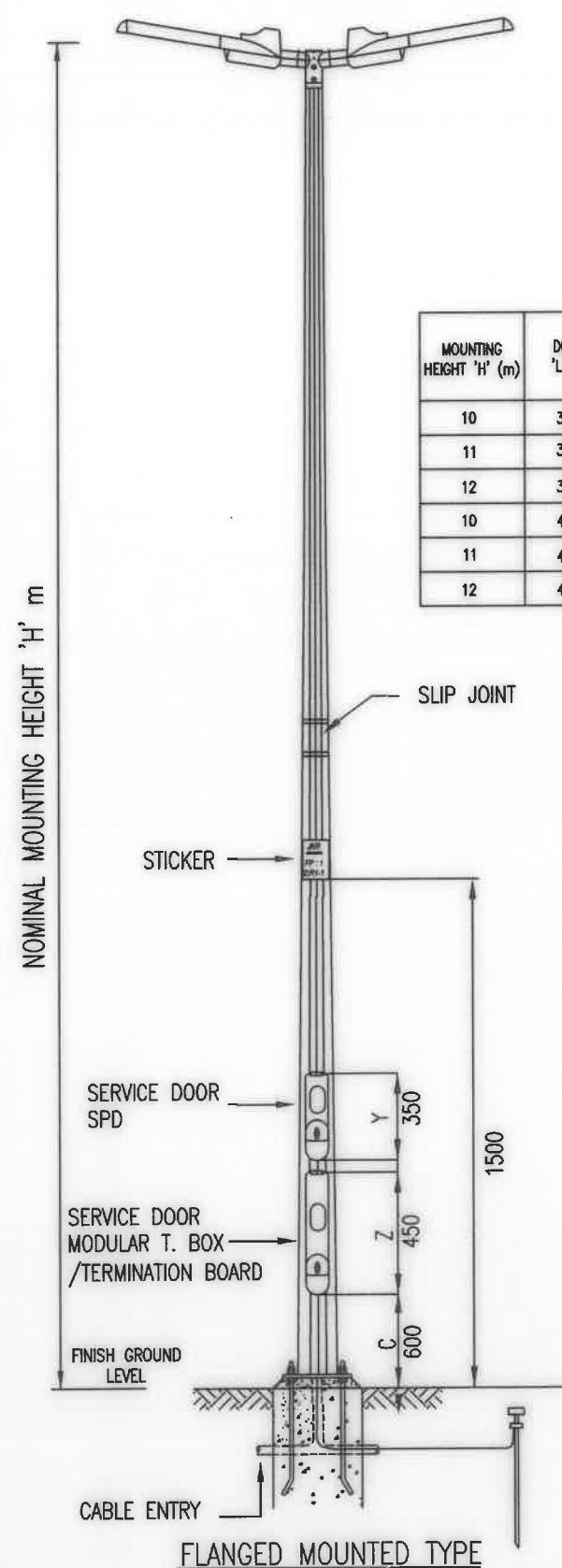
LED SINGLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE
HDG STEEL COLUMN

TARIKH:
DISEMBER 2020

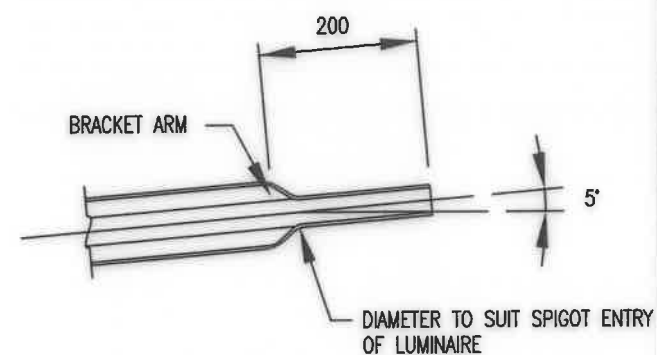
NO LUKISAN PIJAWAI :
KPKR/J/R/STD/S7/03-3

BIL HELAIAN
PIJAWAI: 12/28

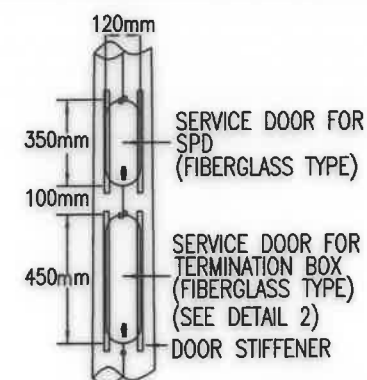
BIL HELAIAN :



MOUNTING HEIGHT 'H' (m)	DOOR OPENING 'L' x 'W' (mm)	DOOR OPENING FROM GROUND 'C' (mm)	TYPE OF POLE FLANGED			J-BOLT 'J' (mm)
			D	E	F	
10	350 X 120 (Y)	600	355	260	30 X 65	Ø 25mm 560mm TO 600mm LENGTH
11	350 X 120 (Y)	600	355	260	30 X 65	Ø 25mm 560mm TO 600mm LENGTH
12	350 X 120 (Y)	600	400	300	30 X 65	Ø 25mm 560mm TO 600mm LENGTH
10	450 X 120 (Z)	600	355	260	30 X 65	Ø 25mm 560mm TO 600mm LENGTH
11	450 X 120 (Z)	600	355	260	30 X 65	Ø 25mm 560mm TO 600mm LENGTH
12	450 X 120 (Z)	600	400	300	30 X 65	Ø 25mm 560mm TO 600mm LENGTH



DETAIL 1: SPIGOT END OF BRACKET ARM



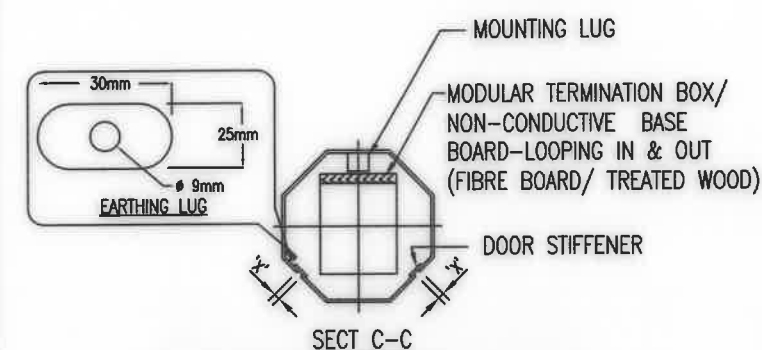
DETAIL 2: DOUBLE SLOT HINGED SERVICE DOOR



SECT A-A

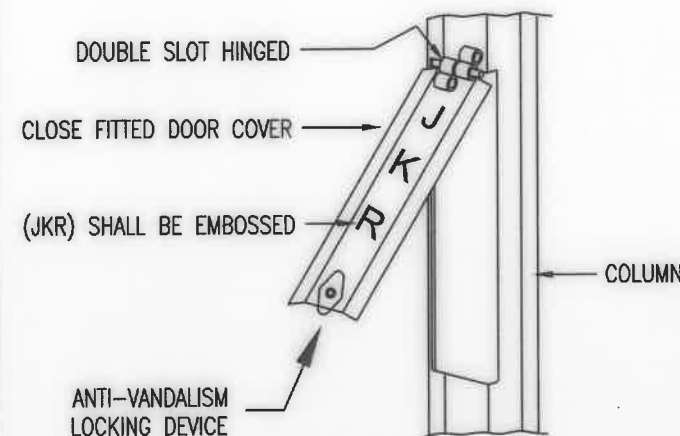
SECT B-B

DETAIL 3: DOUBLE SLOT HINGED RIVETED TO COLUMN

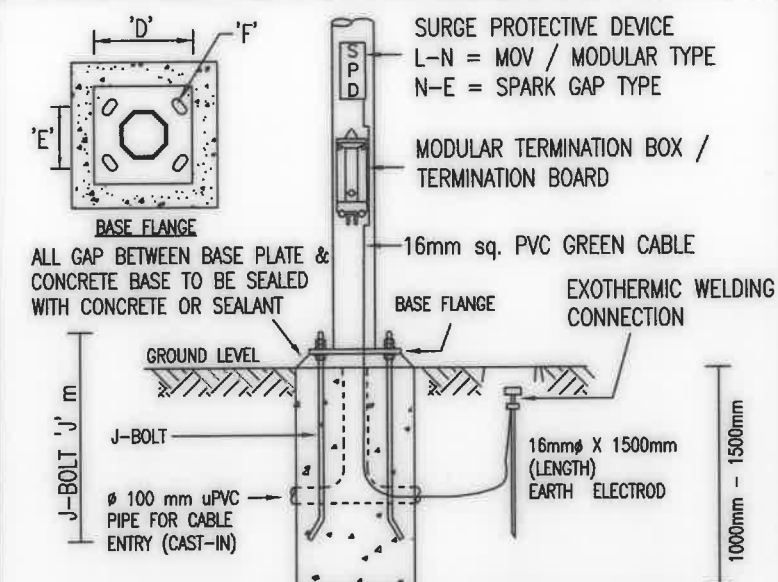


DOOR COVER TO BE MECHANICALLY PUNCH AND THE CLEARANCE - 'X' - AROUND DOOR SHOULD NOT EXCEED 1mm

DETAIL 4: BASE BOARD FOR TERMINATION BOX



DETAIL 5: HINGED DOOR ISOMETRIC VIEW



DETAIL 6: BASE FLANGED & CONCRETE FOUNDATION

TARIKH

BUTIRAN

RUJUKAN

PINDAAN

CAWANGAN KEJURUTERAAN ELEKTRIK

DIREKABENTUK :
DZAKIRA BT. ZAHARIA
DILUKIS :
MARNIZA BT. ZAKOL ABIDIN
DILULUSKAN :
Ir. NOOR ASHIKIN BT. MD TAMIMI

N.T.S
UKURAN

Ir. HANIZAN BT. SHAFFI
PENGARAH KANAN

Ir. HUSIN B. MUSTAFA
PENGARAH PERUNDING REKABENTUK

SAYA DENGAN INI TELAH MENYEMAK DAN MENGENSAHAKAN
BAHAWA LUKISAN PIJAWAI INI BOLEH DIGUNAPAKAI
KE ATAS PROJEK BERKENAAN

TANDATANGAN :

NAMA :

JAWATAN :



JABATAN KERJA RAYA MALAYSIA

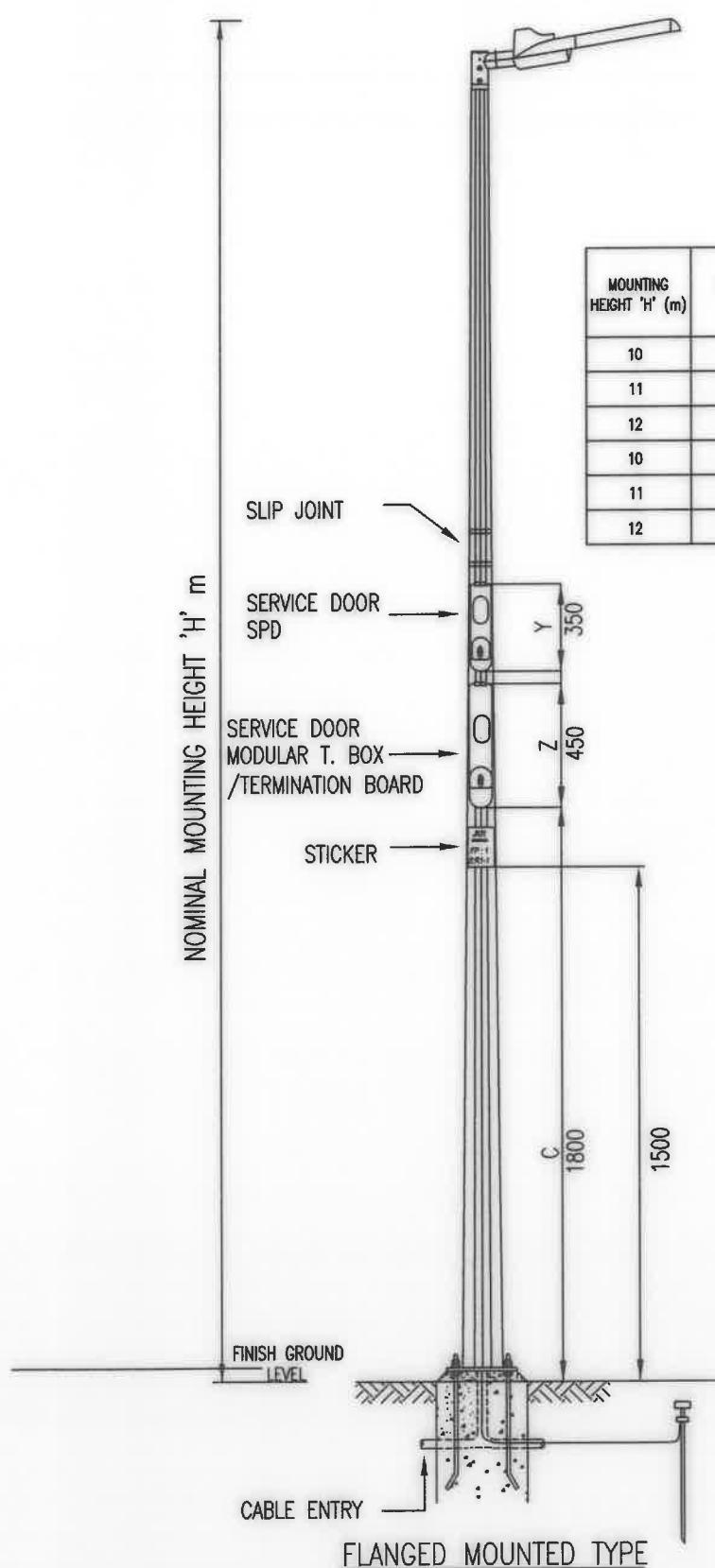
LED DOUBLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE
HDG STEEL COLUMN

TARIKH:
DISEMBER 2020

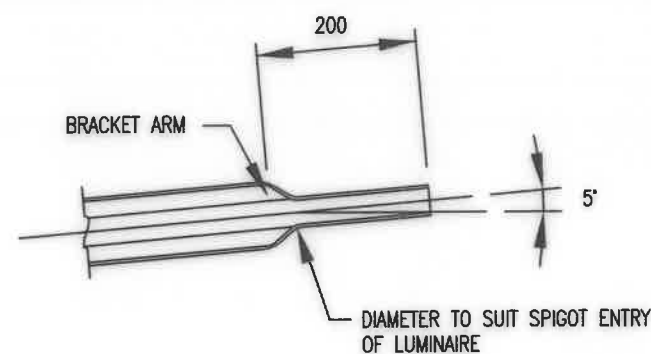
NO LUKISAN PIJAWAI :
KPKR/J/R/STD/S7/03-4

BIL HELAIAN
PIJAWAI: 13/28

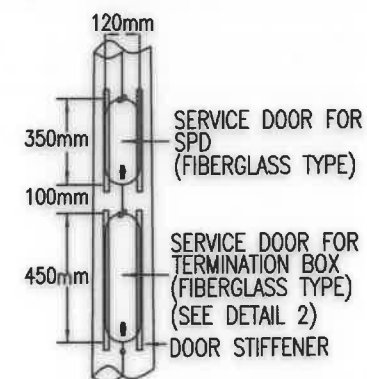
BIL
HELAIAN :



MOUNTING HEIGHT 'H' (m)	DOOR OPENING 'L' x 'W' (mm)	DOOR OPENING FROM GROUND 'C' (mm)	TYPE OF POLE			J-BOLT 'J' (mm)
			FLANGED			
			D	E	F	
10	350 X 120 (Y)	1800	355	260	30 X 65	ø 25mm 560mm TO 600mm LENGTH
11	350 X 120 (Y)	1800	355	260	30 X 65	
12	350 X 120 (Y)	1800	400	300	30 X 65	
10	450 X 120 (Z)	1800	355	260	30 X 65	ø 25mm 560mm TO 600mm LENGTH
11	450 X 120 (Z)	1800	355	260	30 X 65	
12	450 X 120 (Z)	1800	400	300	30 X 65	



DETAIL 1: SPIGOT END OF BRACKET ARM



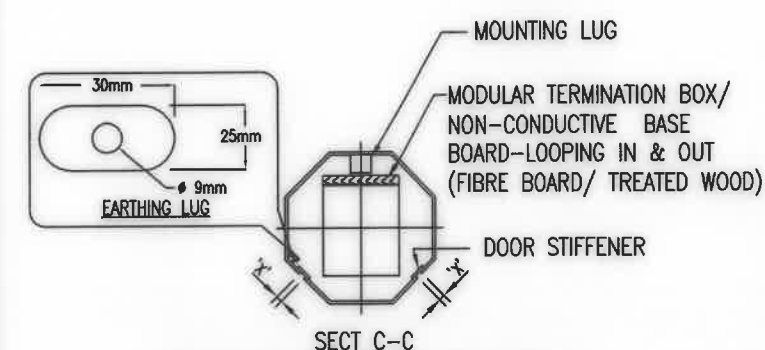
DETAIL 2: DOUBLE SLOT HINGED SERVICE DOOR



SECT A-A

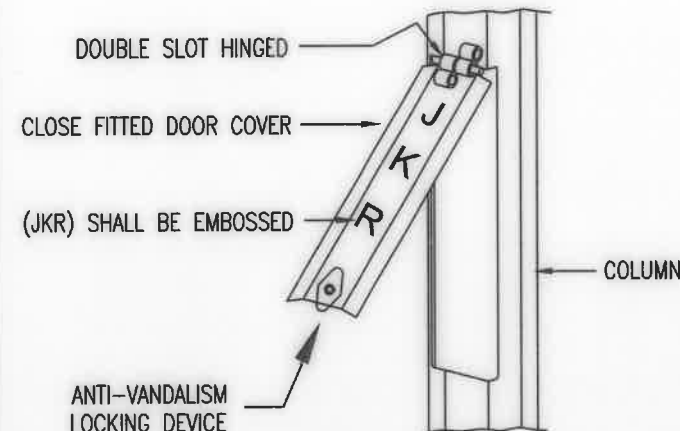
SECT B-B

DETAIL 3: DOUBLE SLOT HINGED RIVETED TO COLUMN

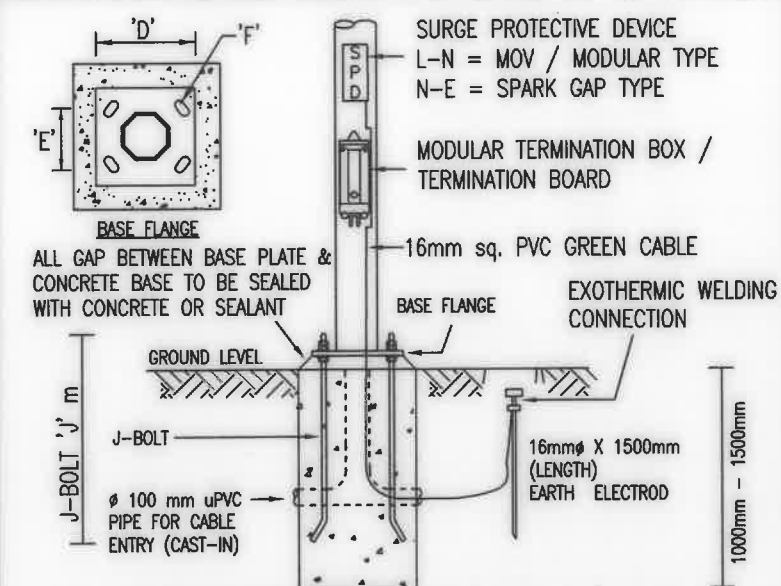


DOOR COVER TO BE MECHANICALLY PUNCH AND THE CLEARANCE - 'X' - AROUND DOOR SHOULD NOT EXCEED 1mm

DETAIL 4: BASE BOARD FOR TERMINATION BOX



DETAIL 5: HINGED DOOR ISOMETRIC VIEW



DETAIL 6: BASE FLANGED & CONCRETE FOUNDATION

TARIKH

BUTIRAN

RUJUKAN

PINDAAN

CAWANGAN KEJURUTERAAN ELEKTRIK

DIREKABENTUK :
DZAKIRA BT. ZAKARIA

DILUKIS :
MARNIZA BT. ZAINOL ABIDIN

DILULUSKAN :
Ir. NOOR ASHIKIN BT. MD TAMIMI

DISEMAK :
Ir. HANIFF BIN AB HAMID

Ir. HANIZAN BT. SHAFFII
PENGARAH KANAN

Ir. HUSIN B. MUSTAFA
PENGARAH PERUNDING REKABENTUK

SAYA DENGAN INI TELAH MENYEMAK DAN MENGENSAHKAN
BAHAWA LUKISAN PIJAWI INI BOLEH DIGUNAPAKAI
KE ATAS PROJEK BERKENAAN

TANDATANGAN :

NAMA :

JAWATAN :



JABATAN KERJA RAYA MALAYSIA

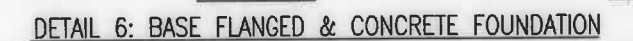
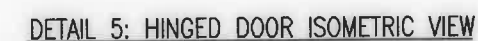
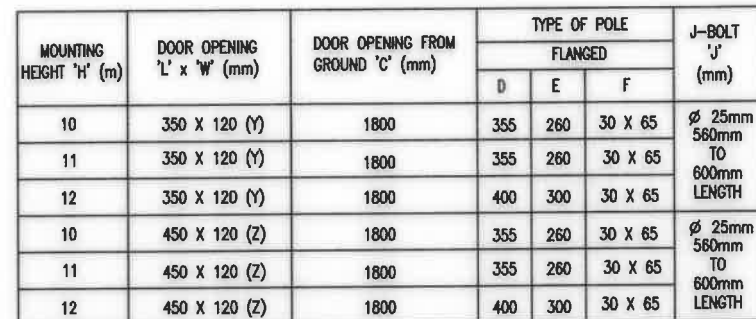
LED SINGLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE
HDG STEEL COLUMN
(HIGH LEVEL SERVICE DOOR)

TARIKH:
DISEMBER 2020

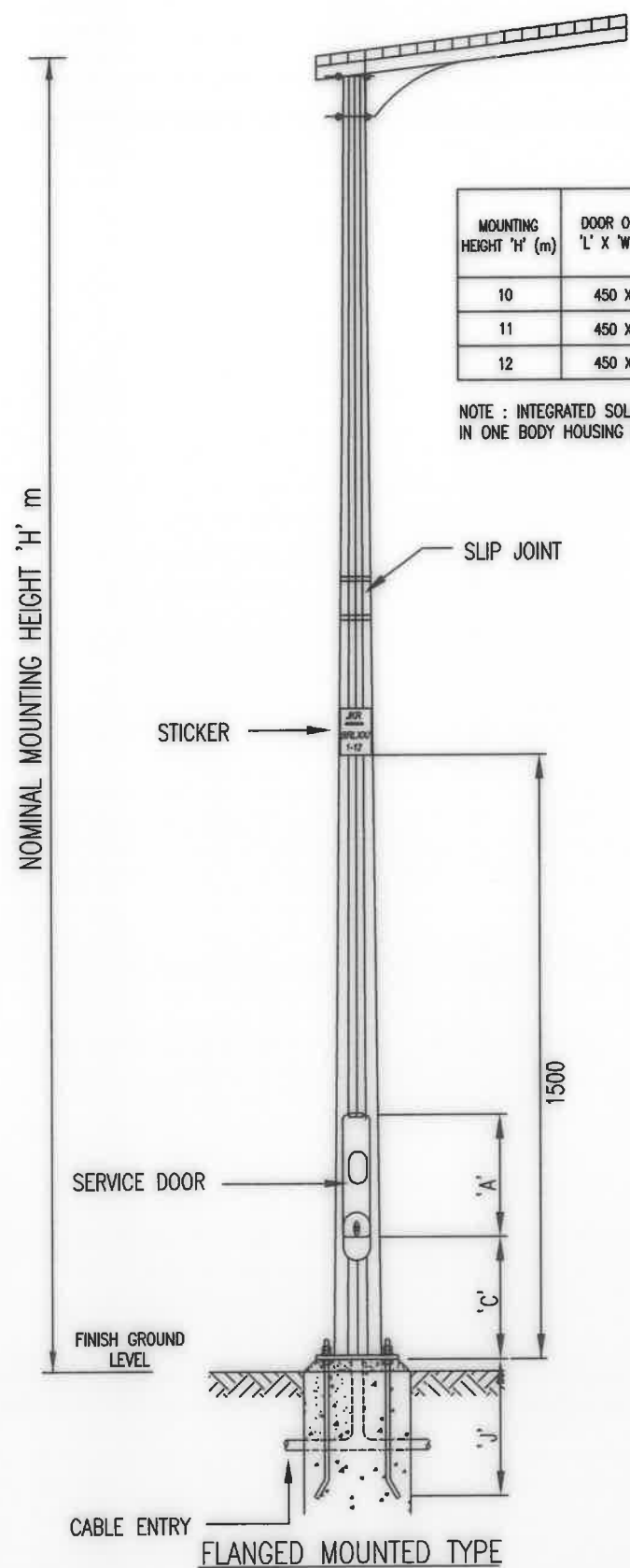
NO LUKISAN PIJAWI :
KPKR/J/R/STD/S7/03-7

BIL HELAJAN
PIJAWI: 16/28

BIL HELAJAN :

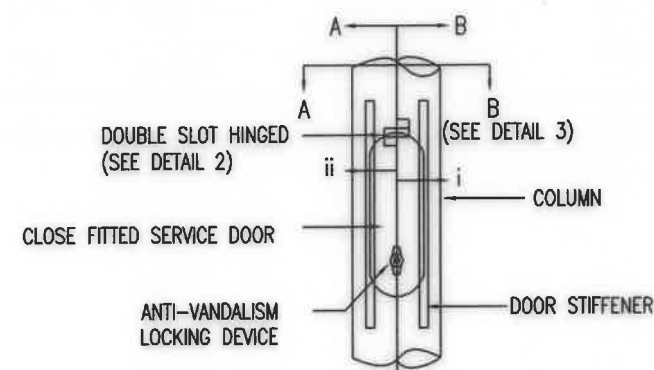


TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK DIREKABENTUK : DZAKIRA BT. ZAKARIA DILUKIS : MARNIZA BT. ZANOL ABIDIN DISEMAK : Ir. HANIFF BIN AB HAMID DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI		+ <i>amom</i> Ir. HANIZAN BT. SHAFFI PENGARAH KANAN <i>haniff</i> Ir. HUSIN B. MUSTAFA PENGARAH PERUNDING REKABENTUK	SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIAWAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN TANDATANGAN : NAMA : JAWATAN :	 JABATAN KERJA RAYA MALAYSIA LED DOUBLE SPIGOT OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN (HIGH LEVEL SERVICE DOOR) TARIKH: DESEMBER 2020 NO LUKISAN PIAWAI : KPKR/J/R/STD/S7/03-8 BIL. HELAIAN PIAWAI : 17/28 BIL. HELAIAN :
	PINDAAN	N.T.S UKURAN					

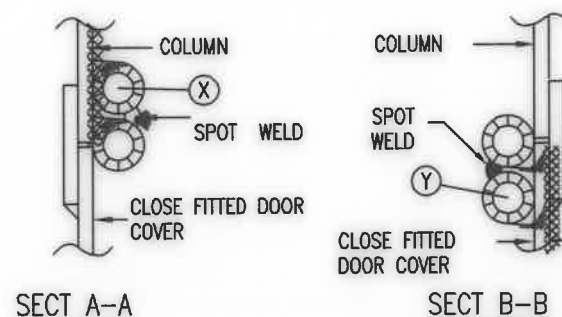


MOUNTING HEIGHT 'H' (m)	DOOR OPENING 'L' X 'W' (mm)	DOOR OPENING FROM GROUND 'C' (mm)	TYPE OF POLE			J-BOLT 'J' (mm)
			FLANGED			
			D	E	F	
10	450 X 120	600	355	260	30 X 65	Ø 25mm 560mm TO 600mm LENGTH
11	450 X 120	600	355	260	30 X 65	
12	450 X 120	600	400	300	30 X 65	

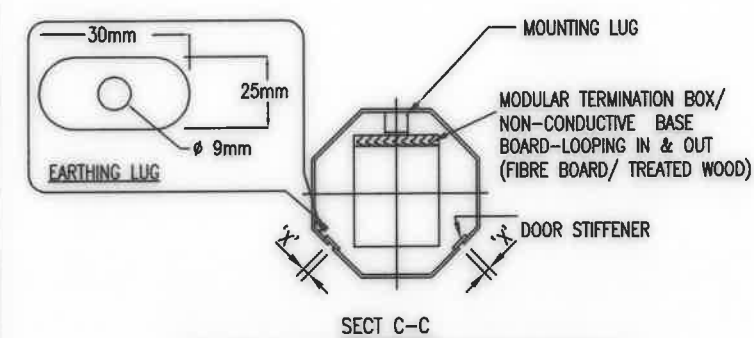
NOTE : INTEGRATED SOLAR LED ROAD LIGHTING C/W LED MODULE, BATTERY, CONTROLLERS, ETC. IN ONE BODY HOUSING MOUNTED ON HDG COLUMN



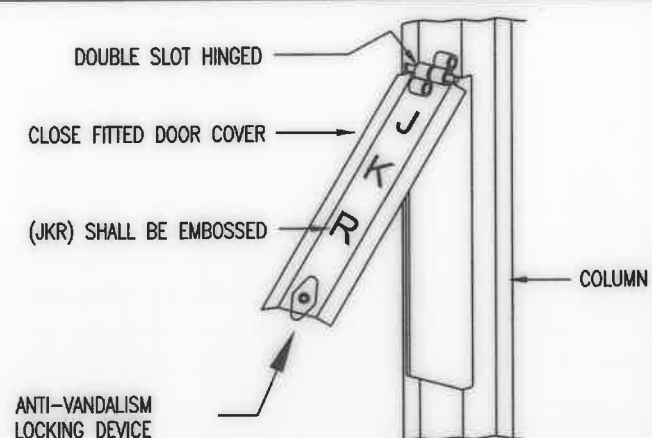
DETAIL 1: DOUBLE SLOT HINGED SERVICE DOOR



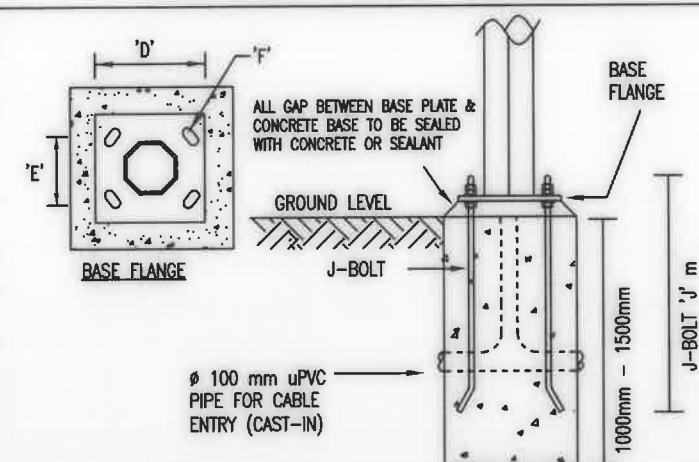
DETAIL 2: DOUBLE SLOT HINGED RIVETED TO COLUMN



DETAIL 3: BASE BOARD FOR TERMINATION BOX

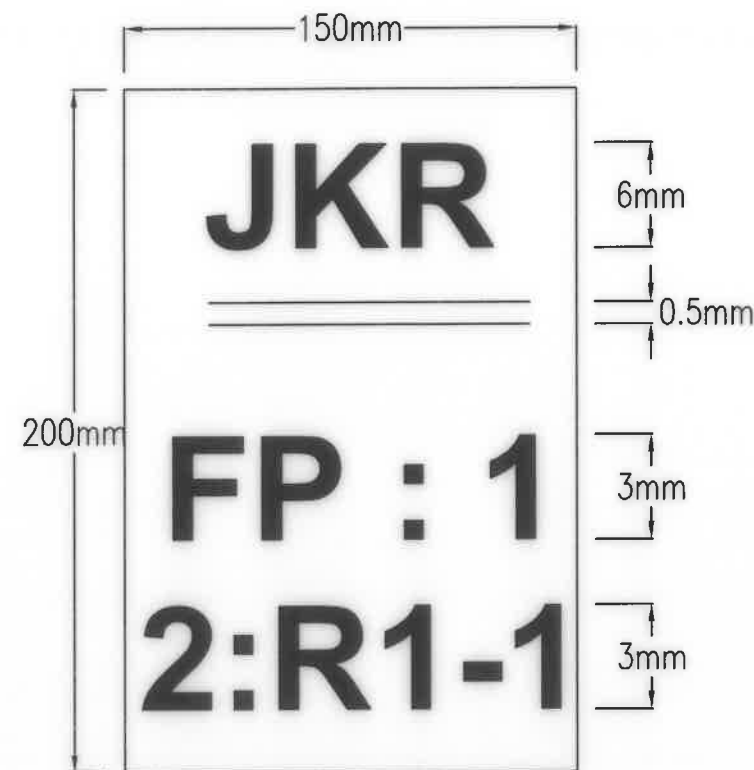


DETAIL 4: HINGED DOOR ISOMETRIC VIEW



DETAIL 5: BASE FLANGED & CONCRETE FOUNDATION

TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK		SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIJAWI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN		JABATAN KERJA RAYA MALAYSIA	
			DIREKABENTUK : DZAKIRA BT. ZAKARIA		Ir. HANIZAN BT. SHAFFII PENGARAH KANAN		INTEGRATED SOLAR LED SINGLE ARM OCTAGONAL TAPERED FLANGED TYPE HDG STEEL COLUMN	
			DILUKIS : MARNIZA BT. ZANOL ABIDIN		Ir. HUSIN B. MUSTAFA PENGARAH PERUNDING REKABENTUK		TARIKH: DISEMBER 2020	
			DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI				NO LUKISAN PIJAWI : KPKR/J/R/STD/S7/04-1	
							BIL HELAJAN PIJAWI: 18/28	
							BIL HELAJAN :	



LEGEND FOR HPSV / LED ROAD LIGHTING :-

FP:1 ~ FEEDER PILLAR NUMBER

2 ~ CIRCUIT NUMBER

R1-1 ~ COLUMN NUMBER

PVC TYPE ~ HIGH PERFORMANCE PVC FILM
WITH SPECIAL POLYMER.

COLOUR ~ BACKGROUND - GOLDEN YELLOW
(BS 381C).
FONT-BLACK

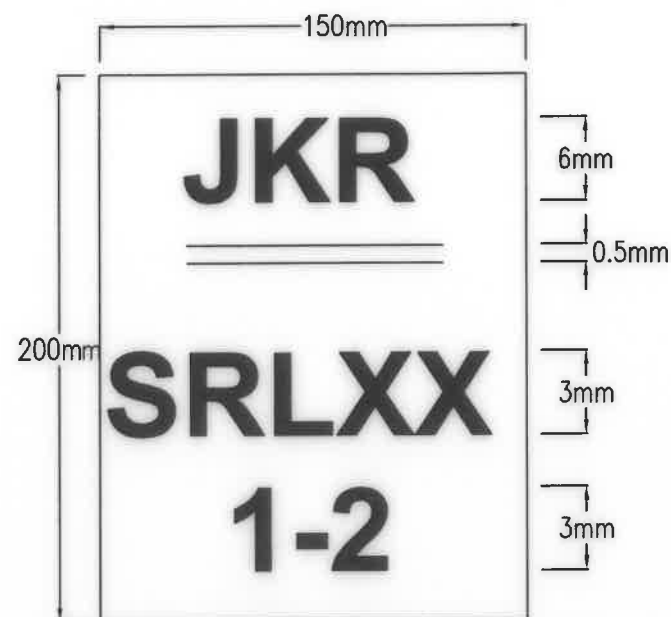
TECHNICAL INFORMATION

1. COLUMN DESIGN CONFORMS TO BS EN 40-2 & BS EN 40-5
2. BASIC WIND SPEED - 35 m/s
3. STEEL COLUMN MATERIAL CONFORMS TO BS EN 10025 Fe 430 OR Fe 510.
OTHER STEEL ACCESSORIES CONFORMS TO Fe 360.
4. COLUMN SEAM WELDING CONFORMS TO BS 5135 BY AUTOMATIC
CONTINUOUS WELDING PROCESS.
5. COLUMNS ARE HOT-DIP GALVANIZED TO BS 729 WITH MINIMUM AVERAGE
COATING WEIGHT OF 460 gm/m FOR ANY INDIVIDUAL TEST AREA.
6. ALL DIMENSIONS IN mm UNLESS INDICATED OTHERWISE.
7. QUALITY CONTROL PROCEDURE : THE SUPPLIER/MANUFACTURER
AND GALVANIZER OF THE COLUMN SHALL BE ISO 9001 ACCREDITED.
8. MANDATORY TESTING AT MANUFACTURER'S FACTORY :-
 - TYPE TEST TO BS EN 40-3-2
 - GALVANIZING TEST
 - MATERIAL TEST

ONE (1) SET OF ALL PRINCIPAL TEST RECORDS, TEST CERTIFICATES INCLUDING QUALITY CONTROL TEST RESULTS, SHALL BE SUPPLIED FOR ALL TEST, CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION, AND DULY WITNESS AND ENDORSED BY THE RELEVANT AUTHORITY/CONSULTANT.

NOTE: LIGHTING COLUMN SHALL BE INSTALLED AT MINIMUM 600mm AWAY FROM PAVED SHOULDER / GUARD RAIL AS RECOMENDED IN NTJ 29/2015.

TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK			SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIJAWI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN	JABATAN KERJA RAYA MALAYSIA			
			DIREKABENTUK : DZAKIRIA BT. ZAKARIA	Disemak : MARNIZA BT. ZAKIRIA ABIDIN	Disemak : Ir. HANIFF BIN AB HAMID		TECHNICAL INFORMATION AND STICKER FOR ROAD LIGHTING COLUMN			
		N.T.S UKURAN	DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI	Ir. HANIZAN BT. SHAFFI PENGARAH KANAN		TANDATANGAN : NAMA : JAWATAN :	TARIKH: DISEMBER 2020	NO LUKISAN PIJAWI : KPKR/J/R/STD/S7/05-1	BIL HELAJAN PIJAWI: 19/28	BIL HELAJAN :



LEGEND FOR INTEGRATED SOLAR LED ROAD LIGHTING

SRL ~ SOLAR ROAD LIGHTING

XX ~ LUMINAIRE WATTAGE.

1-2 ~ COLUMN NUMBER

PVC TYPE ~ HIGH PERFORMANCE PVC FILM
WITH SPECIAL POLYMER.

COLOUR ~ BACKGROUND - GOLDEN YELLOW
(BS 381C).
FONT-BLACK

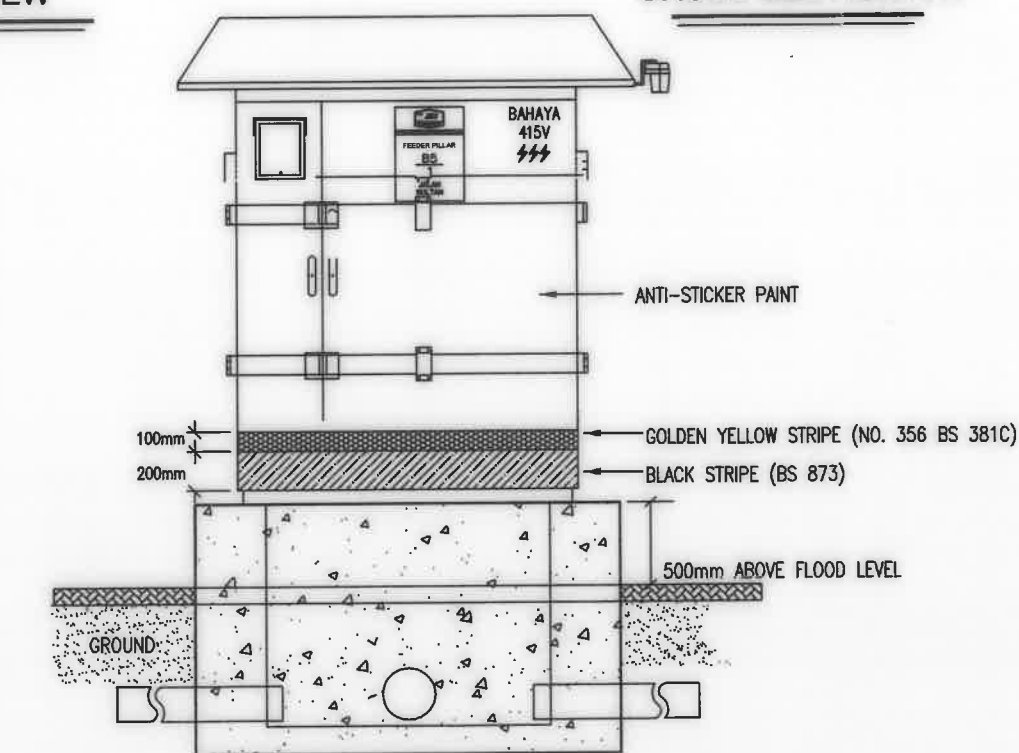
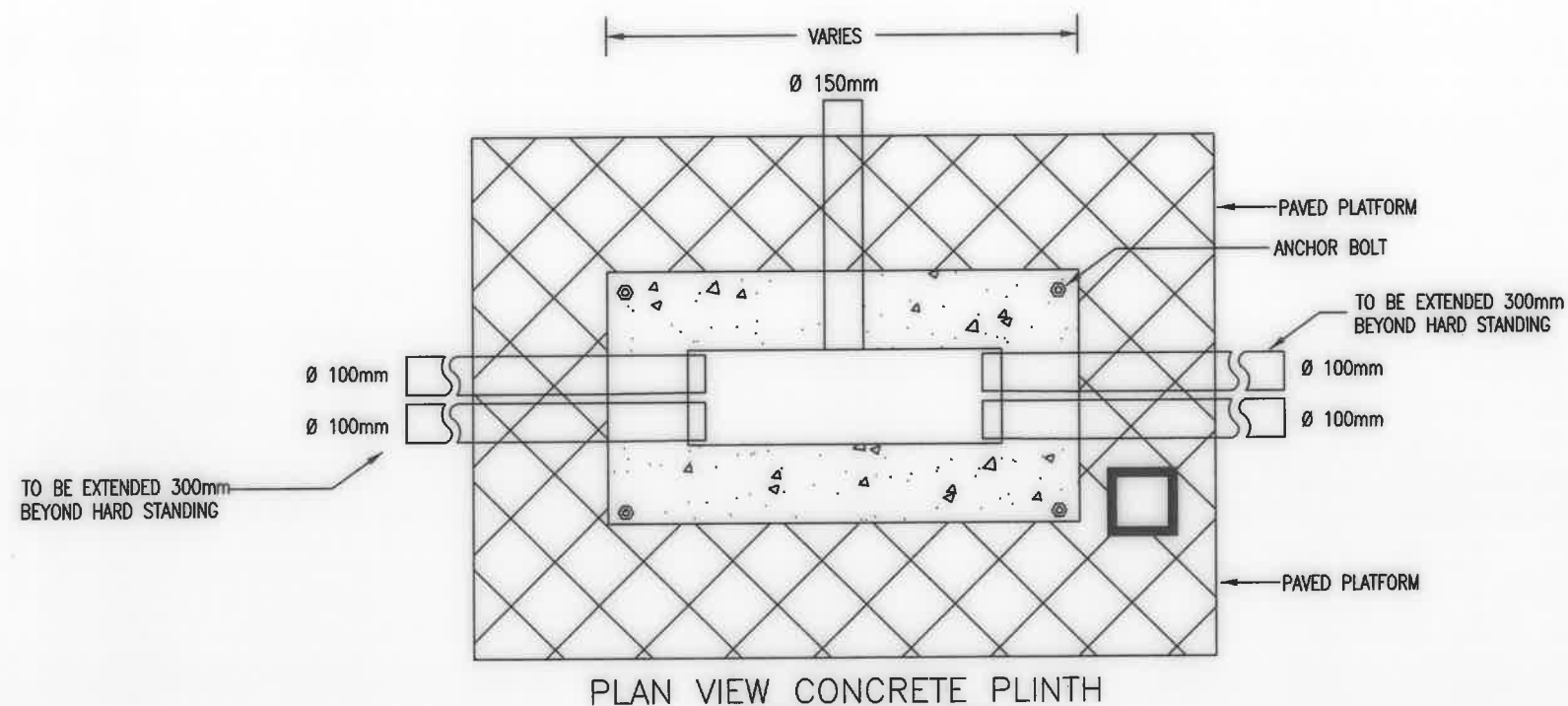
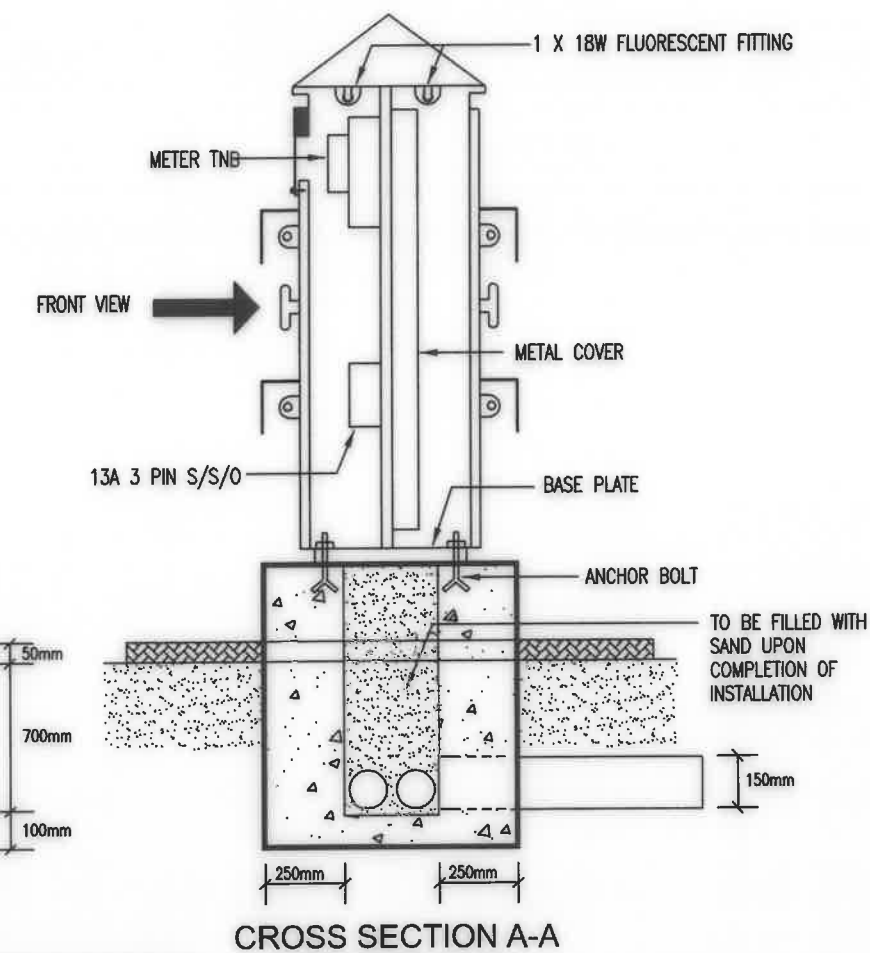
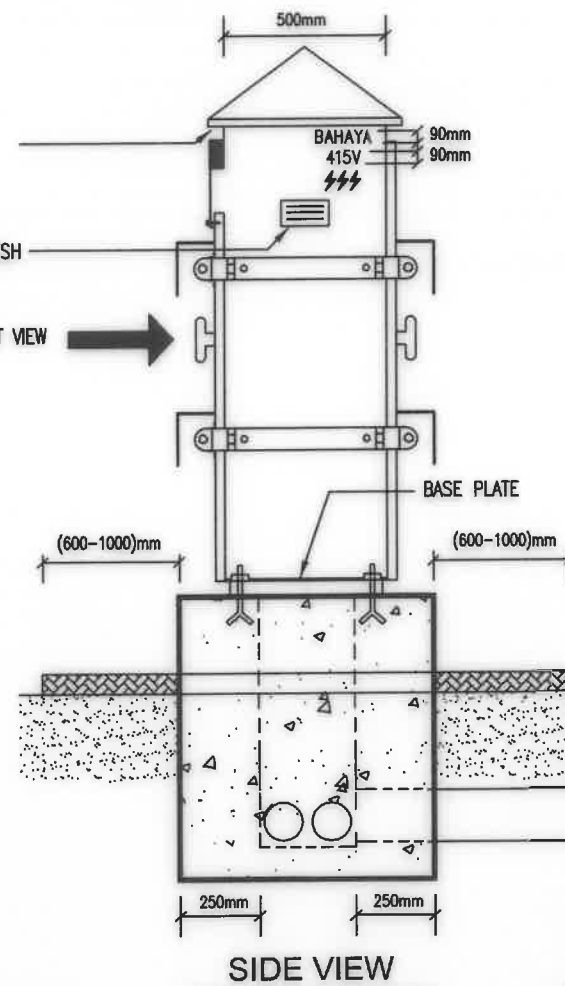
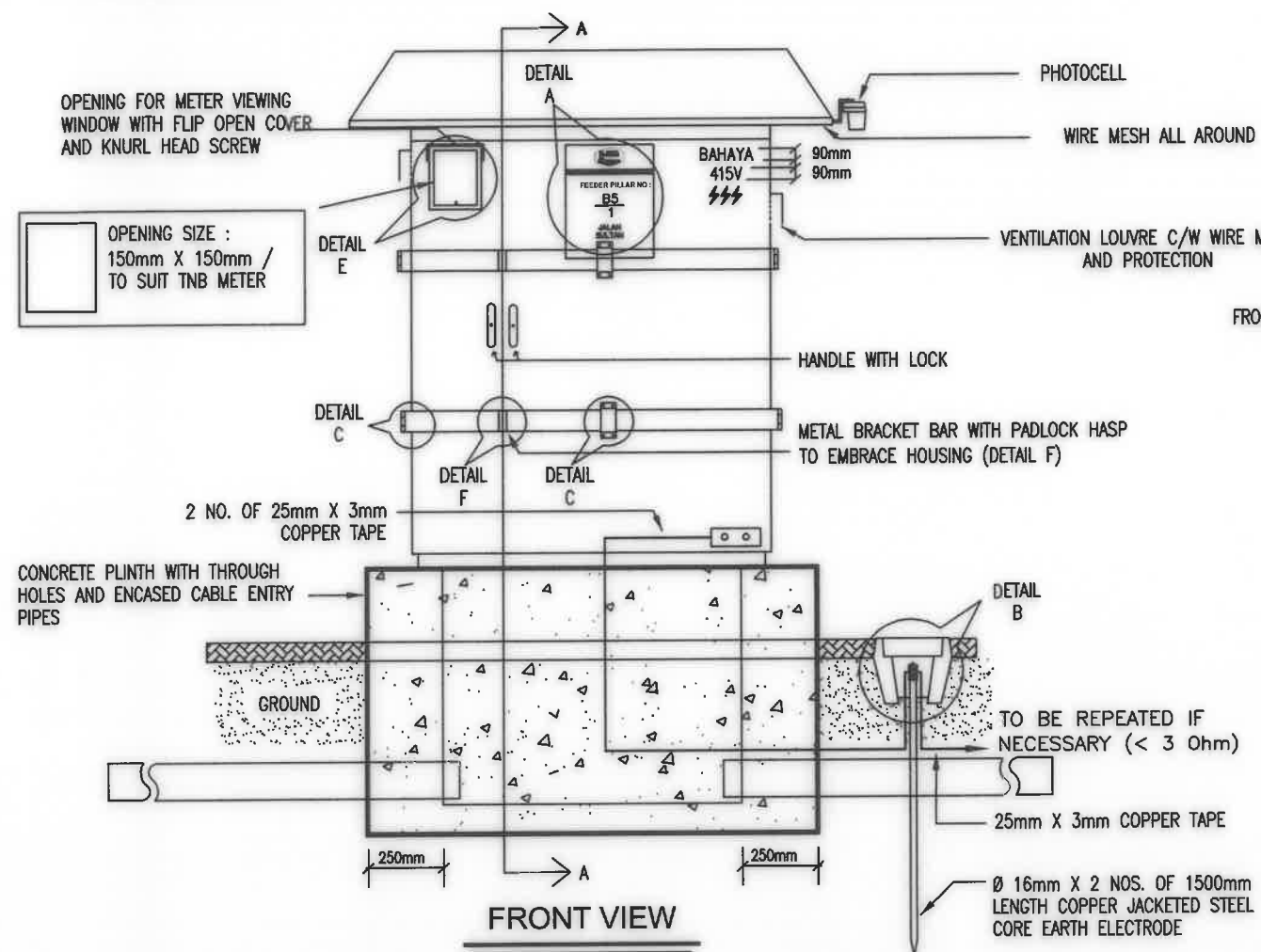
TECHNICAL INFORMATION

1. COLUMN DESIGN CONFORMS TO BS EN 40-2 & BS EN 40-5
2. BASIC WIND SPEED - 35 m/s
3. STEEL COLUMN MATERIAL CONFORMS TO BS EN 10025 Fe 430 OR Fe 510.
OTHER STEEL ACCESSORIES CONFORMS TO Fe 360.
4. COLUMN SEAM WELDING CONFORMS TO BS 5135 BY AUTOMATIC
CONTINUOUS WELDING PROCESS.
5. COLUMNS ARE HOT-DIP GALVANIZED TO BS 729 WITH MINIMUM AVERAGE
COATING WEIGHT OF 460 gm/m FOR ANY INDIVIDUAL TEST AREA.
6. ALL DIMENSIONS IN mm UNLESS INDICATED OTHERWISE.
7. QUALITY CONTROL PROCEDURE : THE SUPPLIER/MANUFACTURER
AND GALVANIZER OF THE COLUMN SHALL BE ISO 9001 ACCREDITED.
8. MANDATORY TESTING AT MANUFACTURER'S FACTORY :-
 - TYPE TEST TO BS EN 40-3-2
 - GALVANIZING TEST
 - MATERIAL TEST

ONE (1) SET OF ALL PRINCIPAL TEST RECORDS, TEST CERTIFICATES INCLUDING QUALITY CONTROL TEST RESULTS, SHALL BE SUPPLIED FOR ALL TEST, CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION, AND DULY WITNESS AND ENDORSED BY THE RELEVANT AUTHORITY/CONSULTANT.

NOTE: LIGHTING COLUMN SHALL BE INSTALLED AT MINIMUM 600mm AWAY FROM PAVED SHOULDER / GUARD RAIL AS RECOMENDED IN NTJ 29/2015.

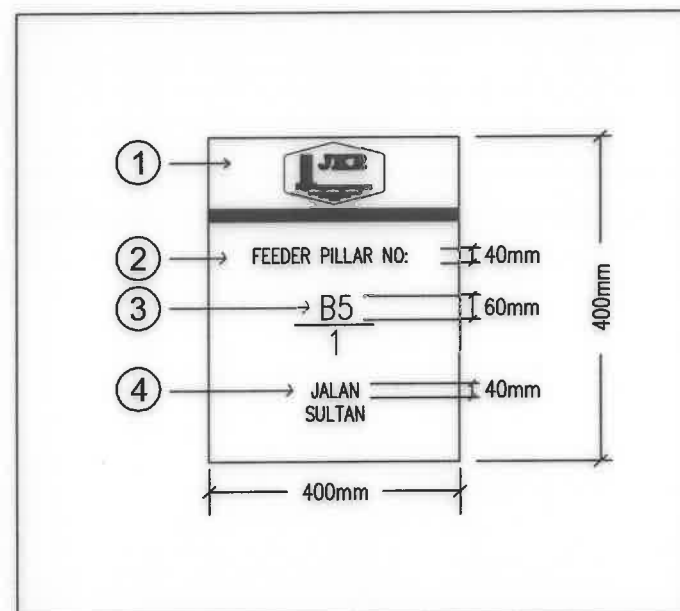
TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK		SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIJAWAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN		JABATAN KERJA RAYA MALAYSIA	
			DIREKABENTUK : DZAKIRA BT. ZAKARIA	DISEMAK : Ir. HANIFF BIN AB HAMID	TANDATANGAN : NAMA : JAWATAN :		TECHNICAL INFORMATION AND STICKER FOR INTEGRATED SOLAR LED ROAD LIGHTING COLUMN	
			DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI	PENGARAH PERUNDING REKABENTUK			TARIKH: DISEMBER 2020	
							NO LUKISAN PIJAWAI : KPKR/J/R/STD/S7/05-2	
							BIL HELAJAN PIJAWAI: 20/28	
							BIL HELAJAN : HELAJAN :	



STANDARD PAINTING FOR JKR'S FEEDER PILLAR

TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK		SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIWAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN		JABATAN KERJA RAYA MALAYSIA				
			DIREKABENTUK : DZAKIRA BT. ZAKARIA	DISEMAK : MARNIZA BT. ZAKARIA ABIDIN	Ir. HANIZAN BT. SHAFFI PENGARAH KANAN		TANDATANGAN :	FEEDER PILLAR HOUSING (WITH TNB METER)			
		N.T.S UKURAN	DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI	Ir. HANIFF BIN AB. HAMID	Ir. HUSIN B. MUSTAFA PENGARAH PERUNDING REKABENTUK		NAMA :	TARIKH: DISEMBER 2020	NO LUKISAN PIWAI : KPKR/J/R/STD/S7/06-1	BIL HELAJAN PIWAI: 21/28	BIL HELAJAN :
	PINDAAN						JAWATAN :				

1

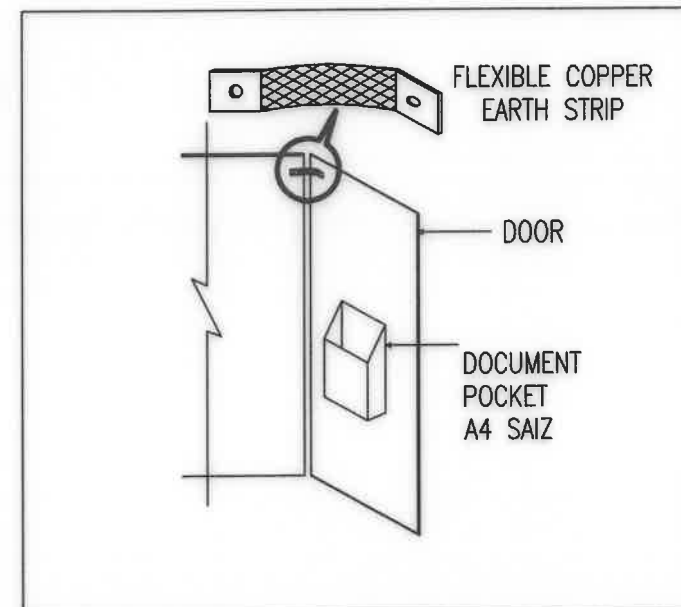


DETAIL A

LABEL FOR FEEDER PILLAR

- ▷ Using yellow and black colour (JKR).
- ▷ Label to be sprayed on housing before anti-sticker paint coating / label using metal plate and riveted to the housing after anti-sticker paint coating.
- ① GOLDEN YELLOW - No. 356 British Standard 381C
- ② BLACK - Part 1 clause 1.3.2 and 1.3.3 British Standard 873.
▷ Feeder Pillar
- ③ LABEL ▷ B/F - State Road (according to state code) / Federal Road.
B5
▷ 5 - Road No.
1
▷ 1 - Feeder Pillar No.
- ④ Name of the road according to Local Authority.

4

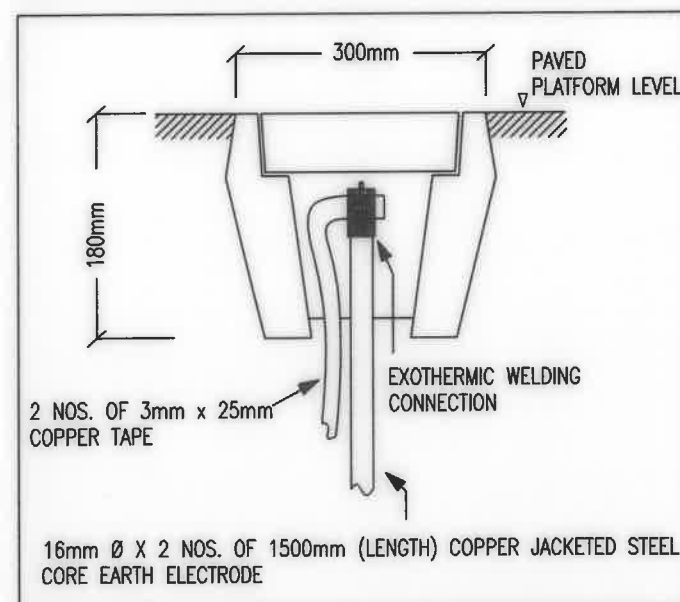


DETAIL D

FEEDER PILLAR / CONTROLLER DOOR

- ▷ Bonding of feeder pillar door using flexible copper earth bonding strip.

2

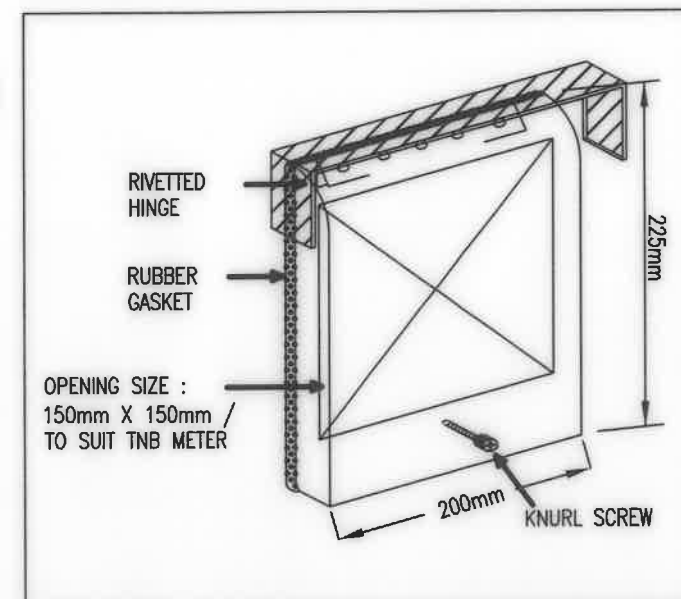


DETAIL B

CONCRETE EARTH INSPECTION CHAMBER

- ▷ 300 mm(W) X 300 mm(L) X 180 mm(D)
- ▷ Heavy duty precast concrete earth chamber with removable concrete cover.
- ▷ To be repeated if necessary

5

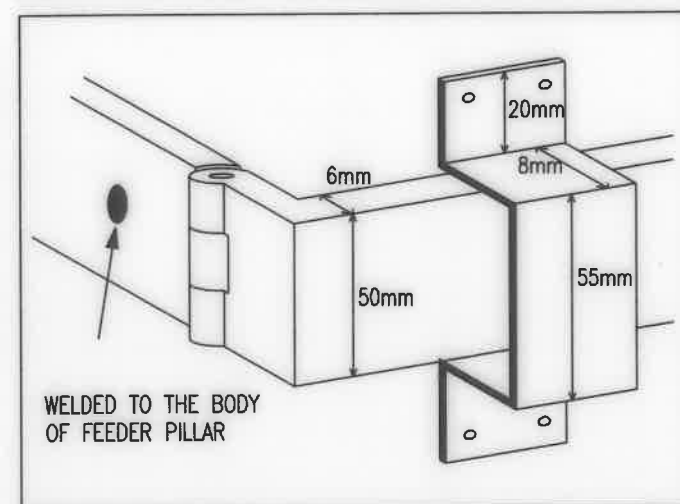


DETAIL E

COVER FOR TNB METER

- ▷ Flip open cover with gasket, knurlhead screw for TNB meter.
- ▷ Material for Flip-open Cover shall be made of Fibreglass

3

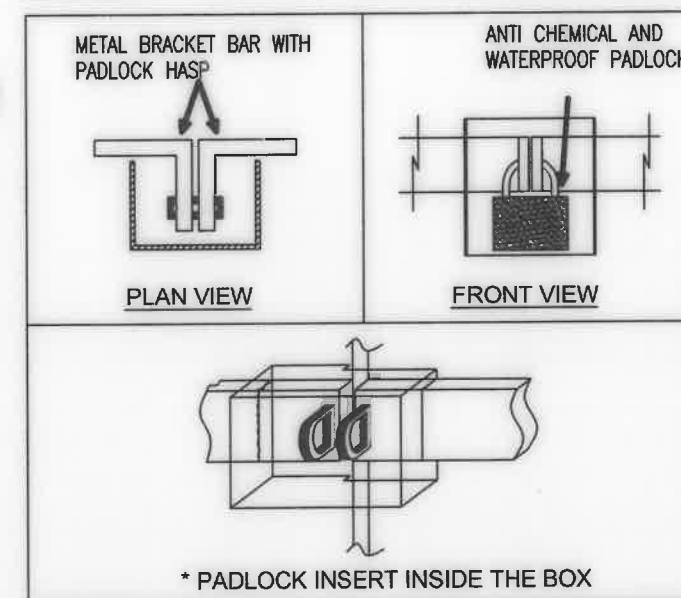


DETAIL C

METAL BAR AND HINGE

- ▷ Metal bar and hinge is fixed to the body of feeder pillar
- ▷ Support bracket for metal bar

6



DETAIL F

COVERED PADLOCK HASP

- ▷ Covered hasp c/w anti-chemical, weatherproof padlock.

TARIKH

BUTIRAN

RUJUKAN

CAWANGAN KEJURUTERAAN ELEKTRIK

DIREKABENTUK :

DZAKIRA BT. ZAKARIA

DILUKIS :

MARNIZA BT. ZAKARIA

DILULUSKAN :

Ir. NOOR ASHIKIN BT. MD TAMIMI

DISEMAK :

Ir. HANIFF BIN AB HAMID

PENGARAH PERUNDING REKABENTUK

Ir. HANIZAN BT. SHAFFI

PENGARAH KANAN

Ir. HUSIN B. MUSTAFA

PENGARAH PERUNDING REKABENTUK

SAYA DENGAN INI TELAH MENYEMAK DAN MENGENALKAN BAHAWA LUKISAN PIKAWI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN

TANDATANGAN :

NAMA :

JAWATAN :

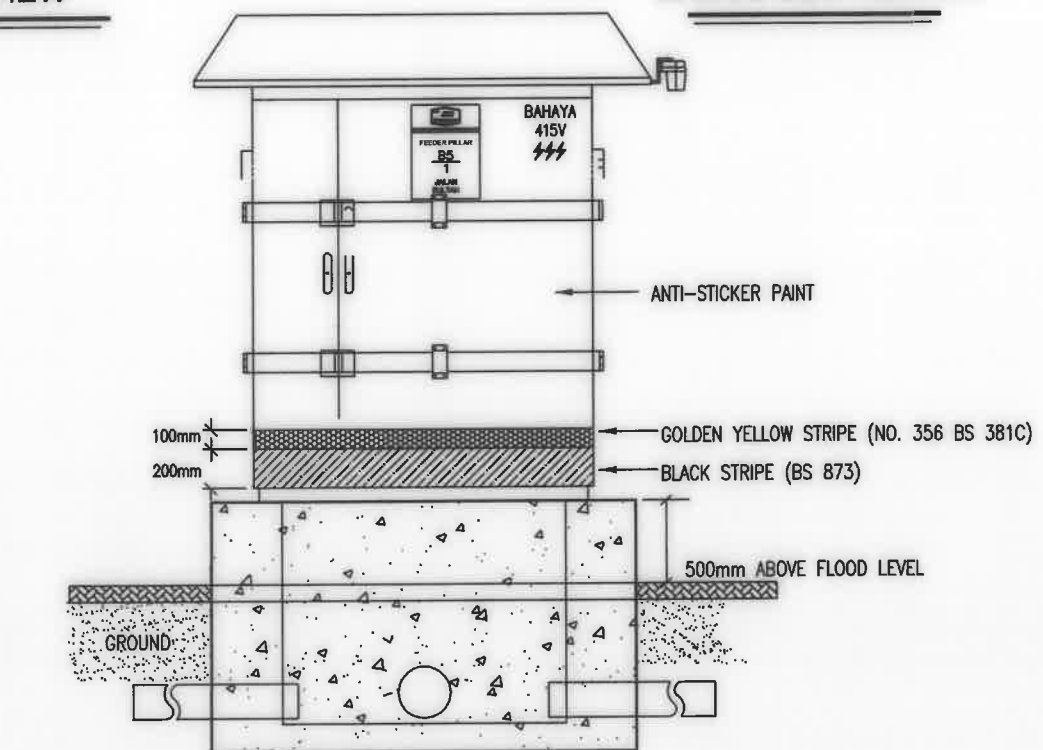
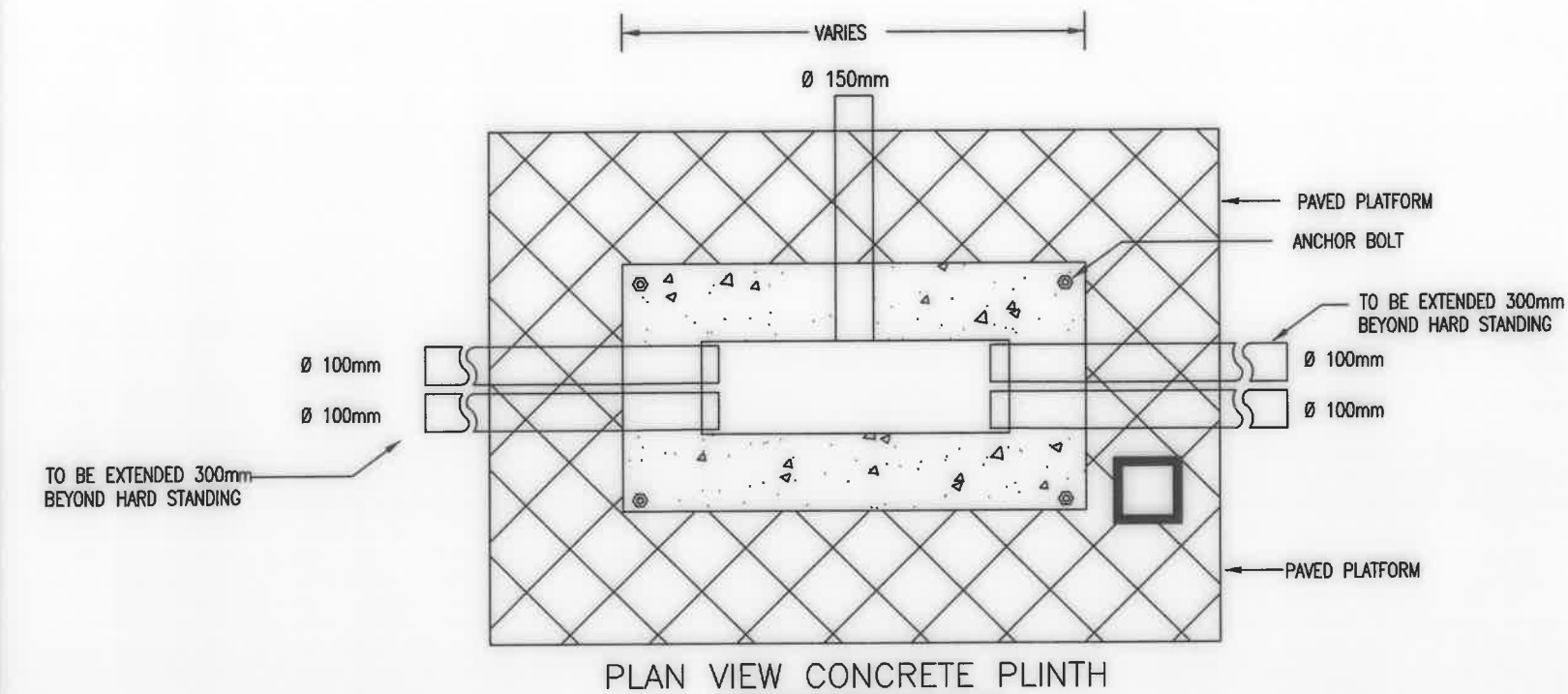
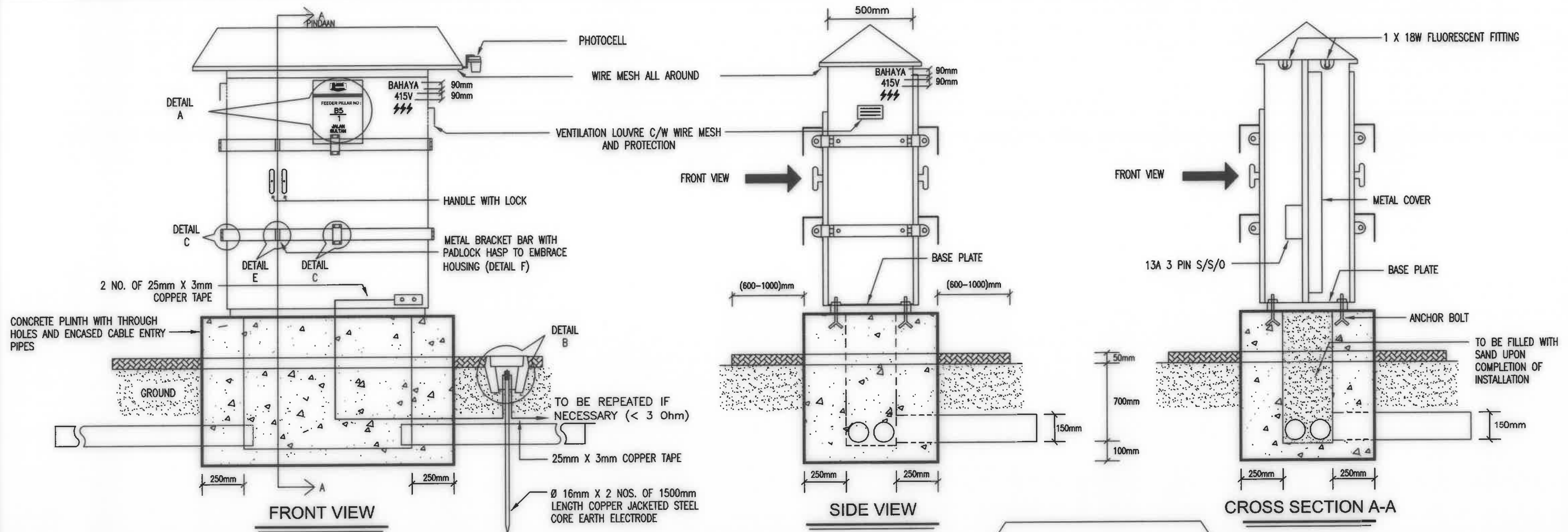


JABATAN KERJA RAYA MALAYSIA

DETAILS OF FEEDER PILLAR (WITH TNB METER)

TARIKH:
DISEMBER 2020NO LUKISAN PIKAWI :
KPKR/J/R/STD/S7/06-2BIL. HELAAN
PIKAWI: 22/28

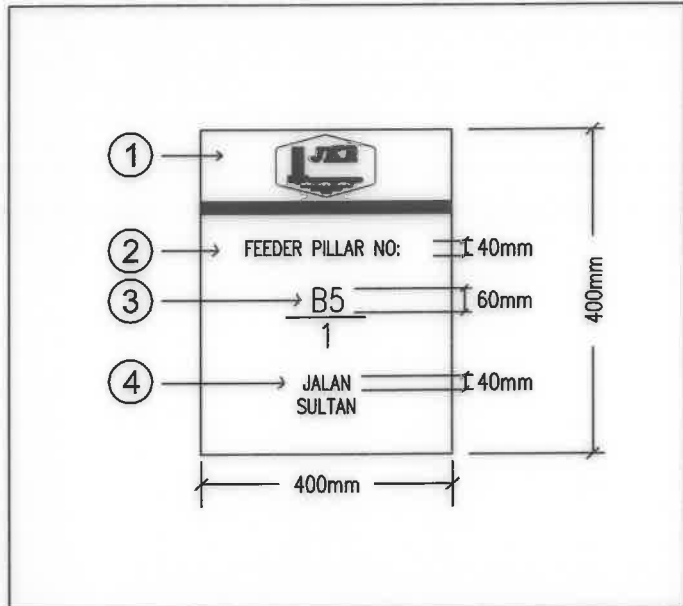
BIL. HELAAN :



STANDARD PAINTING FOR JKR'S FEEDER PILLAR

TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK		SAYA DENGAN INI TELAH MENYEMAK DAN MENGENSAHKAN BAHAWA LUKISAN PIJAWI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN		JABATAN KERJA RAYA MALAYSIA	
			DIREKABENTUK : DZAKIRA BT. ZAKARIA	DISEMAK : Ir. HANIFF BIN AB HAMID	TANDATANGAN :		FEEDER PILLAR HOUSING (WITHOUT TNB METER)	
			DILUKIS : MARNIZA BT. ZAMOL ABIDIN	DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI	NAMA :		TARIKH: DESEMBER 2020	
					JAWATAN :		NO LUKISAN PIJAWI : KPKR/J/R/STD/S7/06-3	
							BIL HELAAN PIJAWI: 23/28	
							BIL HELAAN :	

1

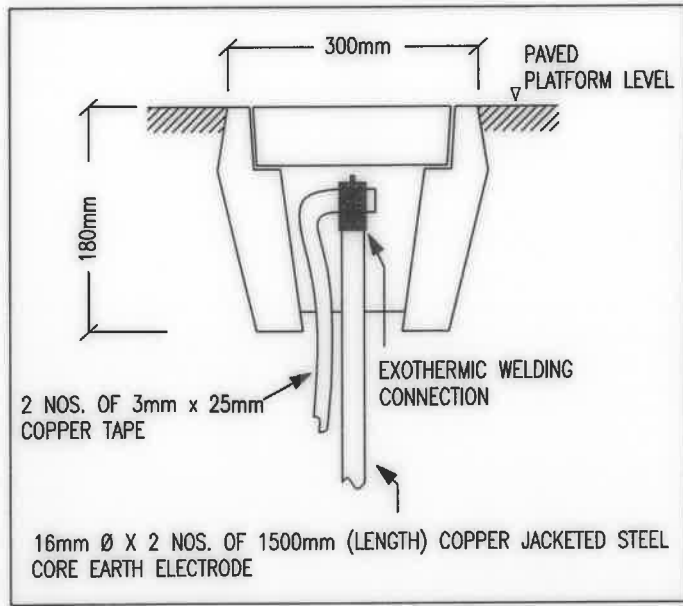


DETAIL A

LABEL FOR FEEDER PILLAR

- ▷ Using yellow and black colour (JKR).
- ▷ Label to be sprayed on housing before anti-sticker paint coating / label using metal plate and riveted to the housing after anti-sticker paint coating.
- ① GOLDEN YELLOW - No. 356 British Standard 381C
- ② BLACK - Part 1 clause 1.3.2 and 1.3.3 British Standard 873.
▷ Feeder Pillar
- ③ LABEL ▷ B/F - State Road (according to state code) / Federal Road.
B5
▷ 5 - Road No.
1
▷ 1 - Feeder Pillar No.
- ④ Name of the road according to Local Authority.

2

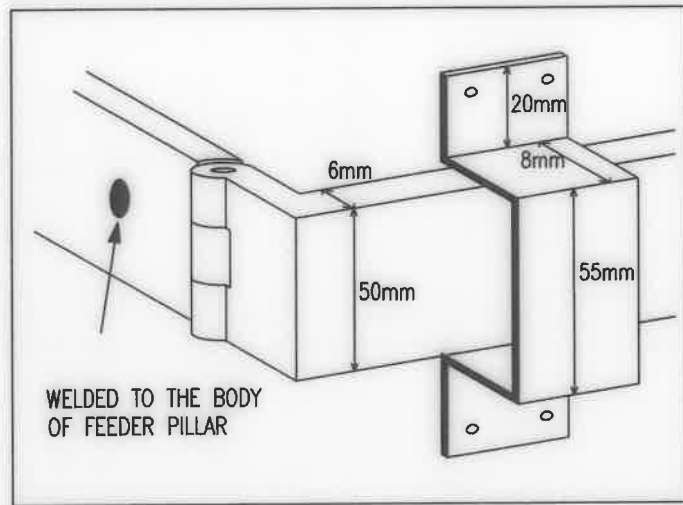


DETAIL B

CONCRETE EARTH INSPECTION CHAMBER

- ▷ 300 mm(W) X 300 mm(L) X 180 mm(D)
- ▷ Heavy duty precast concrete earth chamber with removable concrete cover.
- ▷ To be repeated if necessary

3

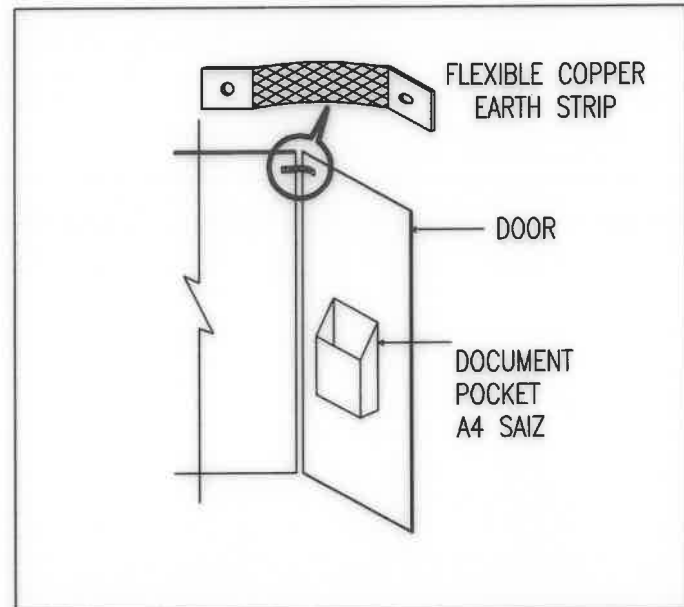


DETAIL C

METAL BAR AND HINGE

- ▷ Metal bar and hinge is fixed to the body of feeder pillar

4

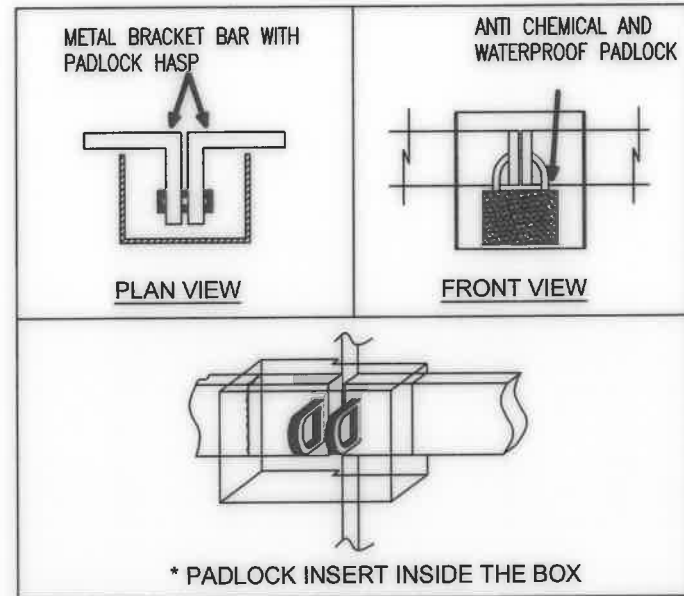


DETAIL D

FEEDER PILLAR / CONTROLLER DOOR

- ▷ Bonding of feeder pillar door using flexible copper earth bonding strip.

5

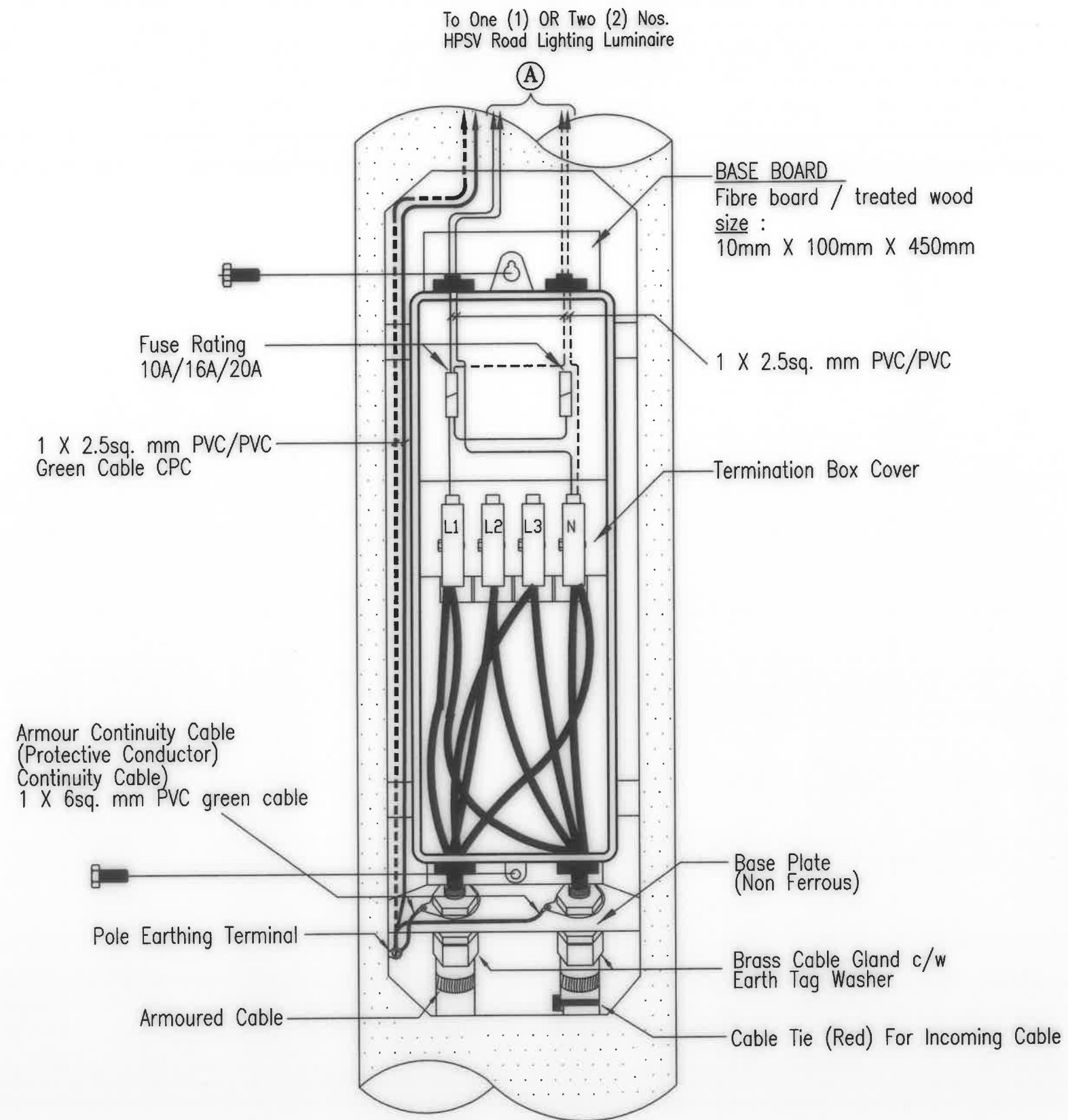


DETAIL F

COVERED PADLOCK HASP

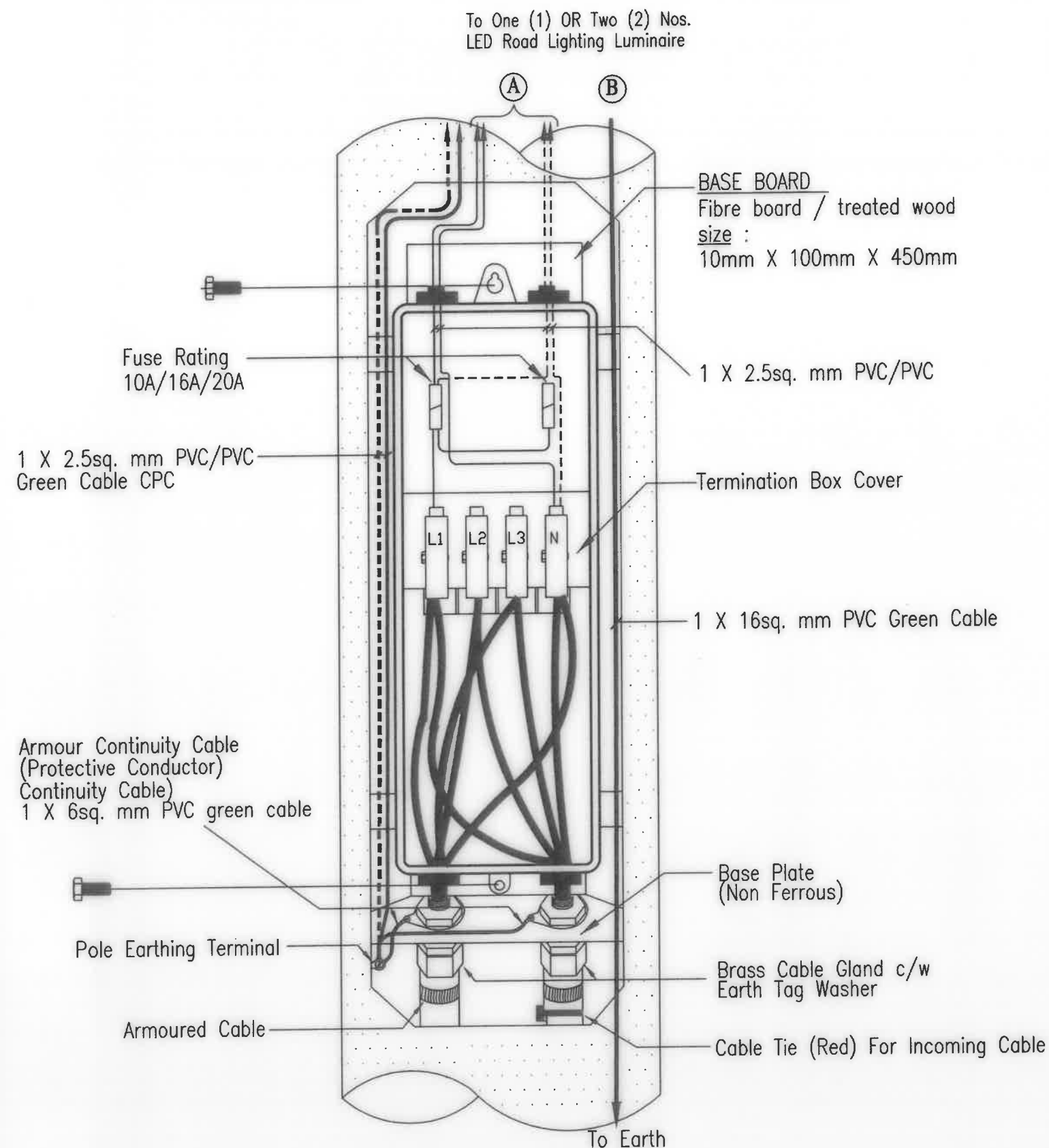
- ▷ Covered hasp c/w anti-chemical, weatherproof padlock.

TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK		SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIAWAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN		JABATAN KERJA RAYA MALAYSIA	
			DIREKABENTUK : DZAKIRA BT. ZAKARIA	DISEMAK : MARNIZA BT. ZAKARIA	PENGARAH KANAN Ir. HANIZAN BT. SHAFFI	TANDANGAN :	DETAILS OF FEEDER PILLAR (WITHOUT TNB METER)	
			DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI	DISEMAK : Ir. HANIFF BIN AB HAMID	PENGARAH PERUNDING REKABENTUK Ir. HUSIN B. MUSTAFA	NAMA :	TARIKH: DESEMBER 2020	
	PINDAAN					JAWATAN :	NO LUKISAN PIAWAI : KPR/J/R/STD/S7/06-4	
							BIL HELAAN : 24/28	
							BIL HELAAN :	

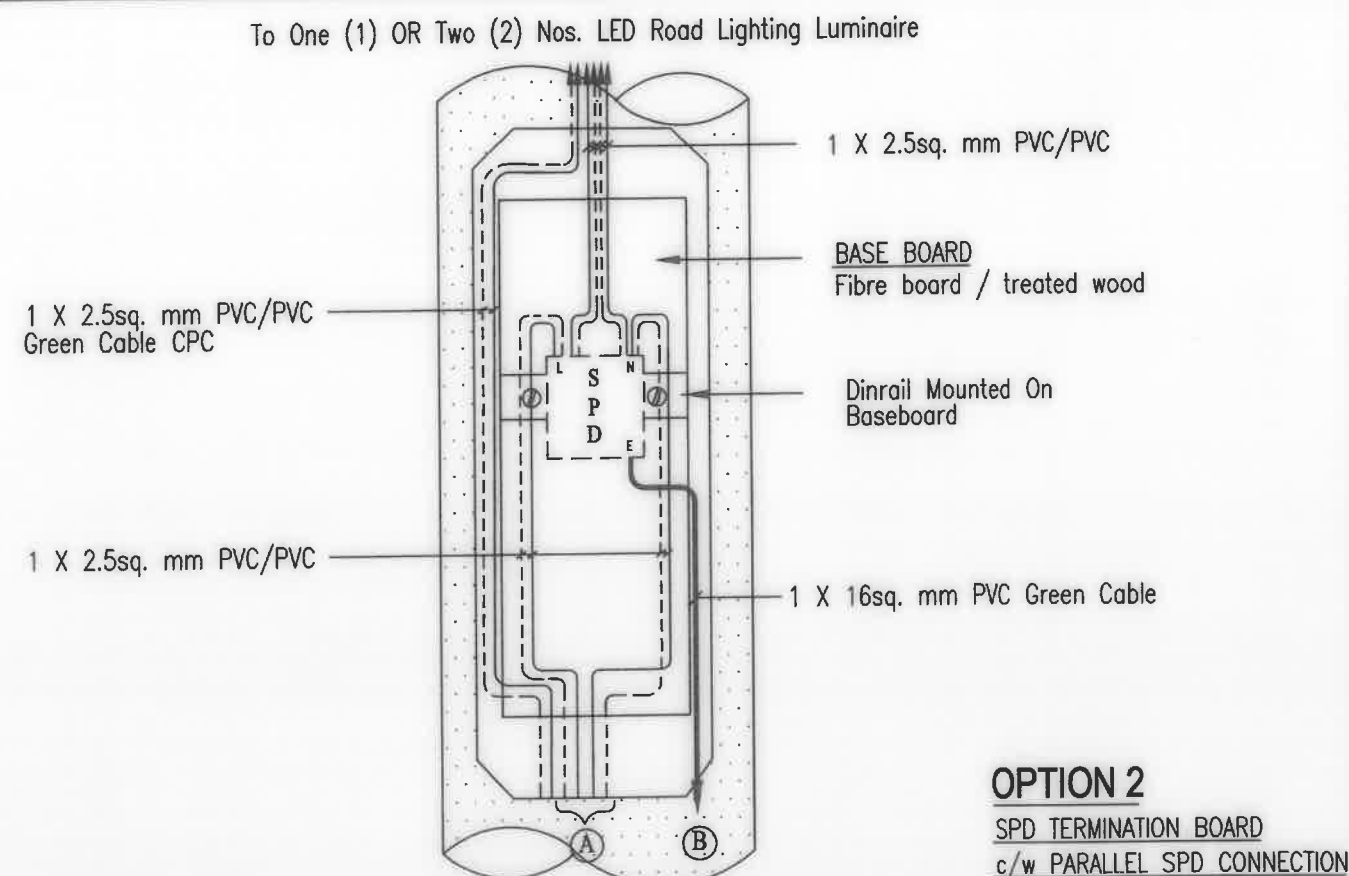
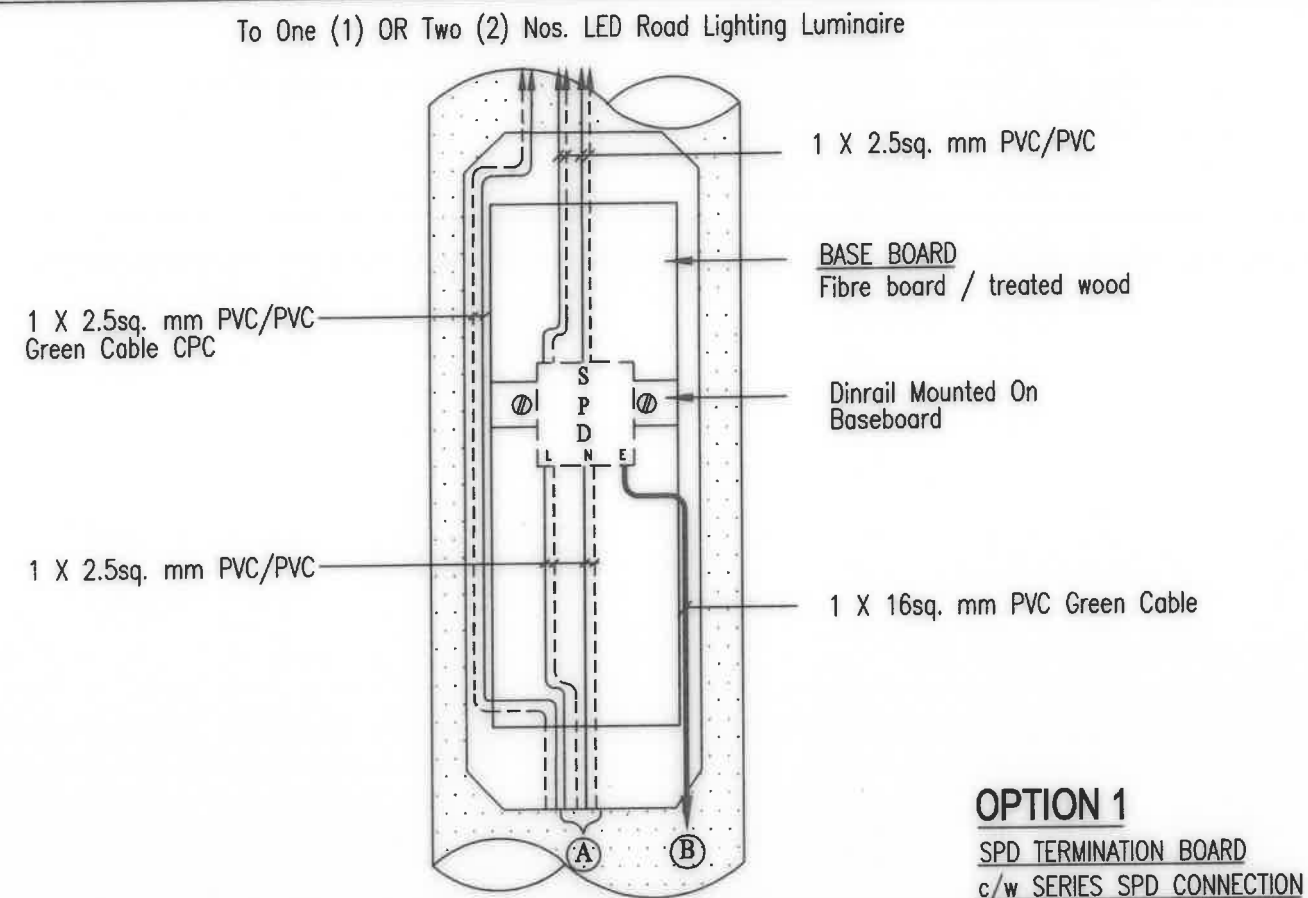


MODULAR TERMINATION BOX C/W
LOOPING IN & OUT CABLE IN ROAD LIGHTING COLUMN

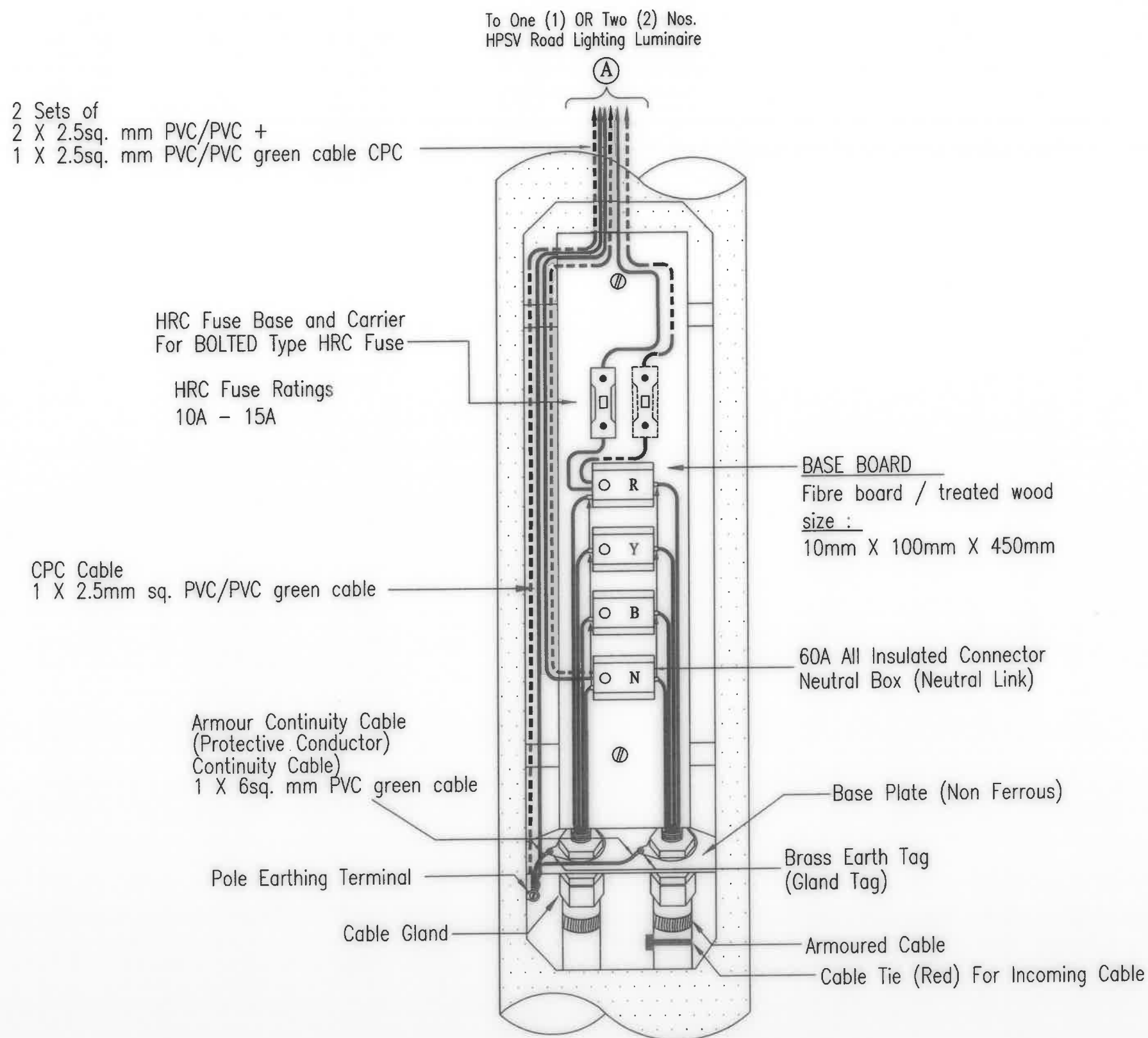
TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK			SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIAMAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN		JABATAN KERJA RAYA MALAYSIA			
			DIREKABENTUK : DZAKIRA BT. ZAKARIA	Ir. HANIZAN BT. SHAFFI PENGARAH KANAN		TANDATANGAN :		MODULAR TERMINATION BOX (SERVICE DOOR FOR HPSV LUMINAIRE)			
			DILUKIS : MARINIZA BT. ZANOL ABIDIN	Ir. HANIFF BIN AB HAMID		NAMA :		TARIKH: DISEMBER 2020	NO LUKISAN PIAMAI : KPKR/J/R/STD/S7/07-1	BIL HELAIAN PIAMAI: 25/28	BIL HELAIAN :
	PINDAAN		DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI	Ir. HUSIN B. MUSTAFA PENGARAH PERUNDING REKABENTUK		JAWATAN :					



MODULAR TERMINATION BOX C/W
LOOPING IN & OUT CABLE ROAD LIGHTING COLUMN

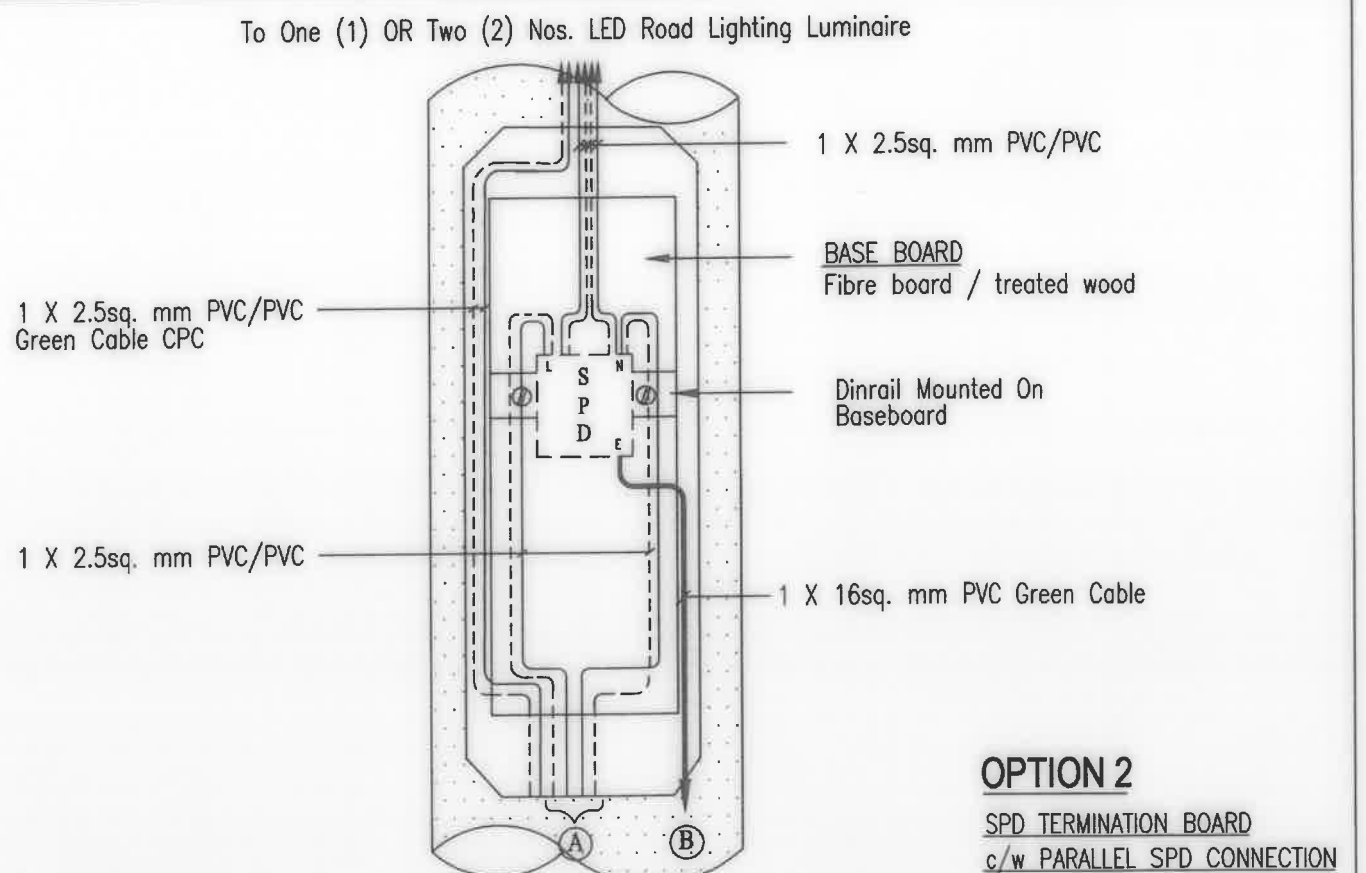
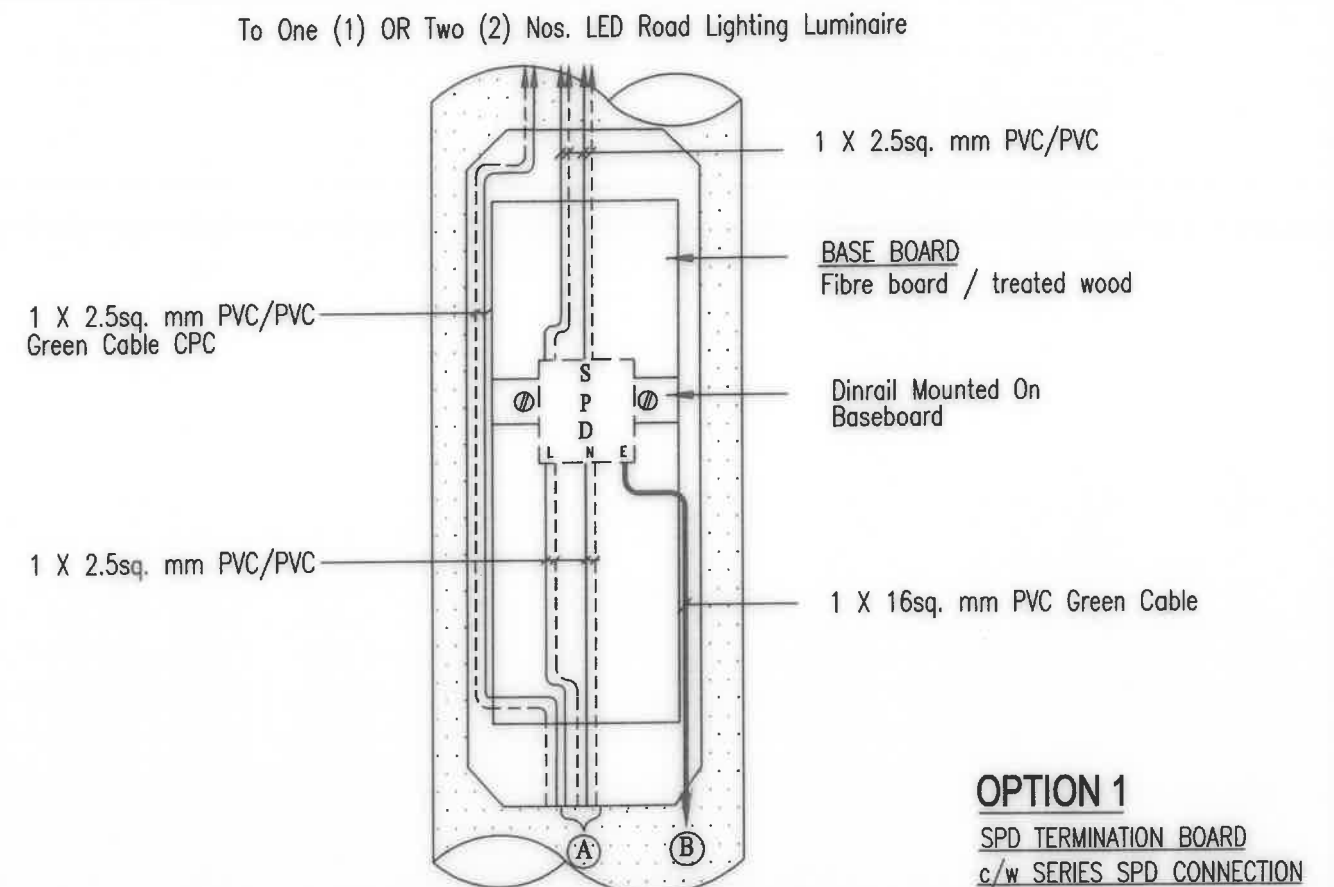
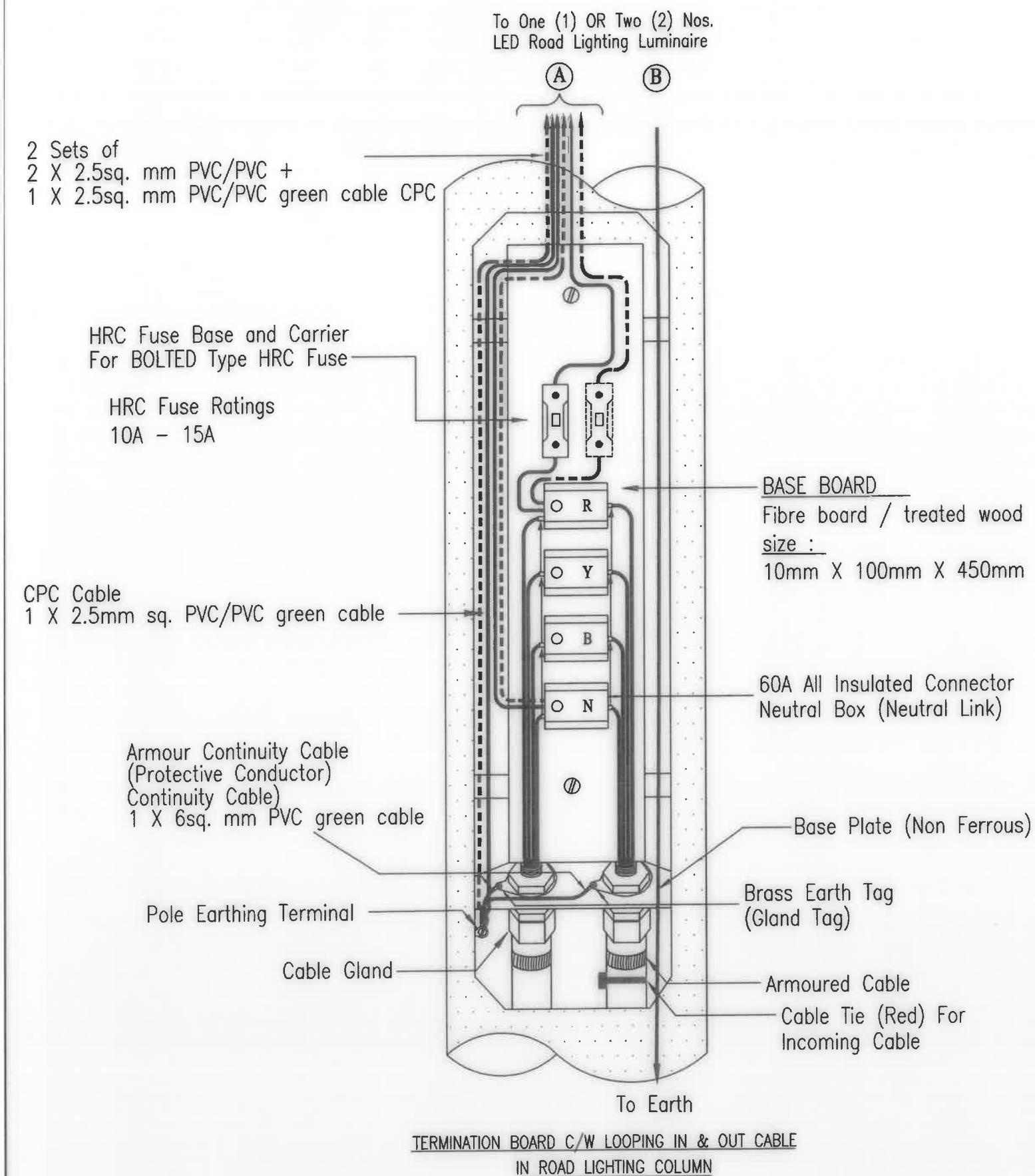


TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK				JABATAN KERJA RAYA MALAYSIA			
			DIREKABENTUK : DZAKIRA BT. ZAMARIA	Ir. HANIZAN BT. SHAFFI PENGARAH KANAN	SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIJAWI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN		MODULAR TERMINATION BOX (TWO SERVICE DOOR FOR LED LUMINAIRE)			
			DILUKIS : MARNIZA BT. ZAMOL ABIDIN	Ir. HANIFF BIN AB HANID	TANDATANGAN :		TARIKH: DESEMBER 2020			
			DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI	Ir. HUSIN B. MUSTAFA PENGARAH PERUNDING REKABENTUK	NAMA :		NO LUKISAN PIJAWI : KPKR/J/R/STD/S7/07-2			
					JAWATAN :		BIL HELAJAN PIJAWI: 26/28			
							BIL HELAJAN :			



TERMINATION BOARD C/W LOOPING IN & OUT CABLE
IN ROAD LIGHTING COLUMN

TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK		SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIAMAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN	JABATAN KERJA RAYA MALAYSIA
			DIREKABENTUK : DZAKIRA BT. ZAKARIA	Ir. HANIZAN BT. SHAFFII PENGARAH KANAN	TANDATANGAN :	
			DILUKIS : MARNIZA BT. ZAINOL ABIDIN	DISEMAK : Ir. HANIFF BIN AB HAMID	NAMA :	TERMINATION BOARD (SERVICE DOOR FOR HPSV LUMINAIRE)
			DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI	Ir. HUSIN B. MUSTAFA PENGARAH PERUNDING REKABENTUK	JAWATAN :	TARIKH: DISEMBER 2020
PINDAAN						NO LUKISAN PIAMAI : KPKR/J/R/STD/S7/07-3
						BIL HELAJAN PIAMAI: 27/26
						BIL HELAJAN :



TARIKH	BUTIRAN	RUJUKAN	CAWANGAN KEJURUTERAAN ELEKTRIK			SAYA DENGAN INI TELAH MENYEMAK DAN MENGESAHKAN BAHAWA LUKISAN PIAWAI INI BOLEH DIGUNAPAKAI KE ATAS PROJEK BERKENAAN		JABATAN KERJA RAYA MALAYSIA	
			DIREKABENTUK : DZAKIRA BT. ZAHARIA	DISEMAK : MARNIZA BT. ZAHID	DISEMAK : Ir. HANIFF BIN AB HAMID	TANDATANGAN :		TERMINATION BOARD (TWO SERVICE DOOR FOR LED LUMINAIRE)	
			DILULUSKAN : Ir. NOOR ASHIKIN BT. MD TAMIMI	Ir. HUSIN B. MUSTAFA PENGARAH PERUNDING REKABENTUK		NAMA :		TARIKH: DISEMBER 2020	
	PINDAAN					JAWATAN :		NO LUKISAN PIAWAI : PKPR/J/R/STD/S7/07-4	
								BIL HELAAN PIAWAI: 28/28	
								BIL HELAAN :	