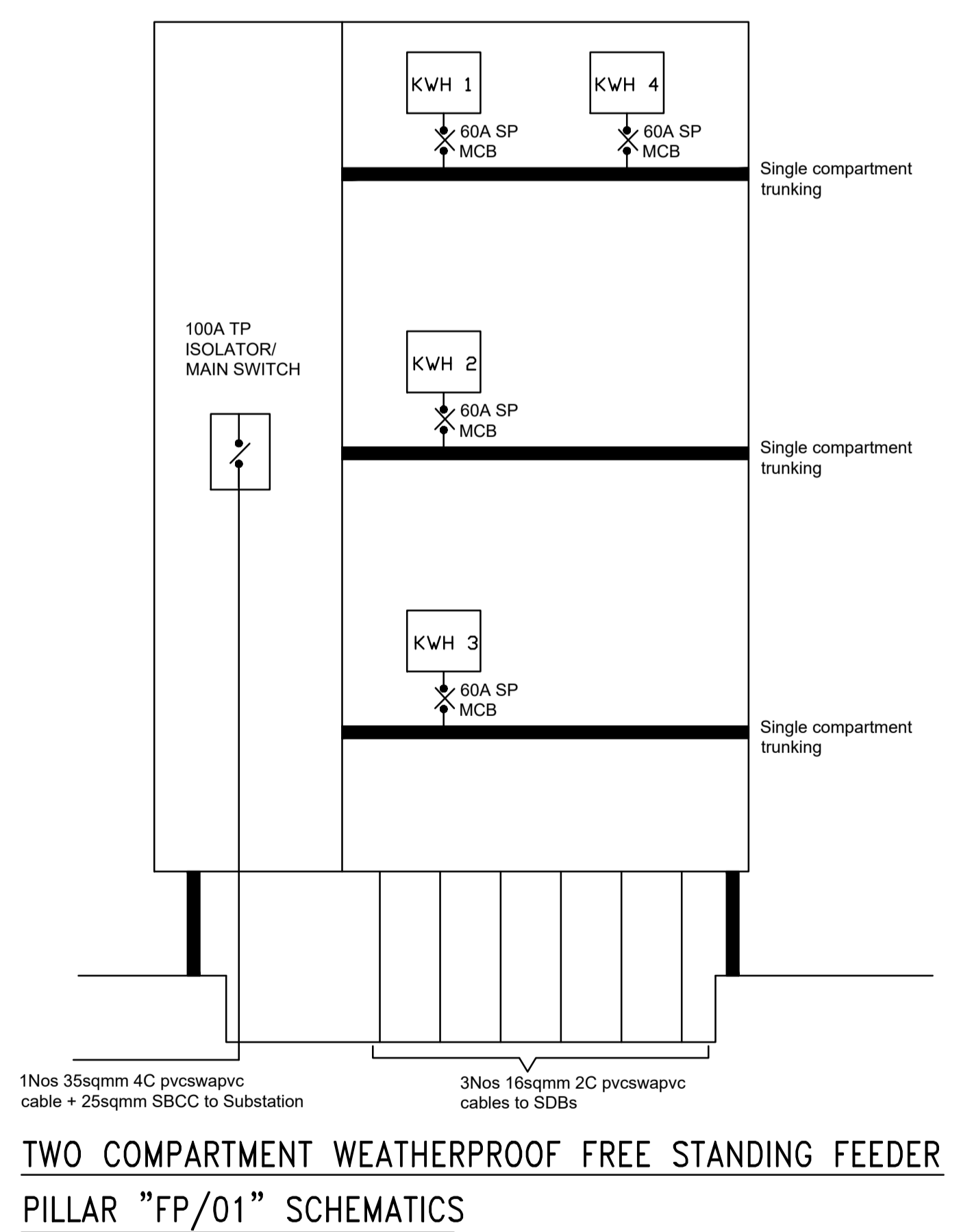


DISTRIBUTION BOARD SDBs SCHEMATICS

Reference	0	1	2	3	4	5	6	7	SPARE
SUPPLY	MDB	ckt L1	ckt Shaver	ckt Extract Fan	ckt P1	ckt PP1	ckt Aircon	ckt CCU	
CABLE SIZE	2C 16sqmm PVCSWA cable + 10sqmm SBCC	2 x 1.5 sq mm conductor + 1.5 sq mm Earth Wire		4 x 2.5 sq mm conductor + 2.5 sq mm Earth Wire		2 x 2.5 sq mm conductor + 2.5 sq mm Earth Wire		2 x 4.0 sq mm conductor + 4.0 sq mm Earth Wire	
LOAD (kW)	R 12.700 Y B	0.700	0.100	0.100	2.800	1.000	2.000	6.000	
	RYB	12.700							



FEEDER PILLAR SCHEMATICS

FEEDER PILLAR FP/01						
DB NAME:	FP/01	LOCATION:	OUTSIDE			
ISOLATOR:	100A TP	RATING KA:	6KA			
		NO OF WAYS:	6 x 1 PHASE			
FEEDER CABLE SIZE:	35mm ² 4C PVCSWA + 25mm ² BARE EARTH					
WAY	DESCRIPTION	CIRCUIT ID	WATTS	BREAKER	CABLE SIZE	REMARKS
R	Apartment 1	SDB01	12700	60A SP	16mm ² E	PVCSWA
Y	Apartment 2	SDB02	12700	60A SP	16mm ² E	PVCSWA
B	Apartment 3	SDB03	12700	60A SP	16mm ² E	PVCSWA
R	Apartment 4	SDB04	12700	60A SP	16mm ² E	PVCSWA
Y	Spare					
B	Spare					

- GENERAL NOTES:**
- ALL DIMENSIONS AND LEVELS TO BE VERIFIED ON SITE PRIOR TO COMMENCING SETTING OUT, PRODUCTION OF WORKSHOP DRAWINGS OR CONSTRUCTION.
 - DISCREPANCIES, ERRORS, OMISSIONS TO BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY AFTER BEING EVIDENT.
 - SHOP DRAWINGS TO BE SUBMITTED FOR APPROVAL PRIOR MANUFACTURE.

- NOTES: ELECTRICAL SERVICES**
- LUMIANCE LIGHTING WORLD CATALOGUE 2016 used to specify light fittings.
 - Installation to comply with Government of Zimbabwe Standard Electrical Specification (latest edition), SAZ & CAS wiring regulations.
 - Each light switch shall be provided with a separate conduit drop and the electrical Subcontractor shall pay attention to columns and other structural elements.
 - Circuitry on lighting and power drawings shall take precedence over figures shown on distribution board schedules.
 - Unless indicated otherwise, all distribution boards shall be equipped with 5KA minimum breaking capacity MCBs.
 - All electrical services drawings shall be read in conjunction with all other services drawings.
 - All contactor boards and double pole switches shall be installed by the electrical Subcontractor adjacent to the respective equipment. The electrical Subcontractor shall ascertain the exact locations from the main Contractor.
 - All incoming water and gas services shall each be separately bonded at the point of entry via 16 sqmm BCEW in conduit and connected to the earth bar in the associated distribution board. The electrical Subcontractor shall ascertain the exact locations from the main Contractor.
 - From the telephone distribution board, the electrical Subcontractor shall link each telephone outlet via a separate 25mm dia conduit.
 - From the telephone distribution board, the electrical Subcontractor shall link each television outlet via a separate 25mm dia conduit.
 - The electrical Subcontractor shall link each television outlet via a separate 25mm dia conduit.
 - All cable trenches shall be 1000mm deep x 500mm wide. Cables shall be laid on a 75mm sand riddled earth carpet covered by a 75mm sand blanket. 225mm x 150mm cable warning tiles to BS 2484 or equivalent to be installed along cable route. The earth shall be reinstated in 100mm layers, hand ramming the first 2 layers.
 - A 150mm wide micron ret resistant polythene cable warning tape shall be installed at 500mm below ground level above cables. Separate warning tapes shall be provided for each trench.
 - All sub/main cables and street lighting cables shall be installed in soft ground at a depth of 1000mm. Where these cables enter buildings, cross roads or paved areas, they shall be installed in PVC sleeves.
 - All trenching shall be done by the electrical Subcontractor. The afore-said carries the responsibility of providing PVC sleeves including the necessary draw wires.
 - Circuitry on lighting and power drawings shall take precedence over figures shown on distribution board schedules.
 - All distribution board spare ways shall be blanked off but labelled to indicate the respective ratings.
 - All 13A switched socket outlets to be wired in ring circuits. All 13A socket outlets to be mounted 300mm from finished floor level except in kitchen where they shall be mounted 1500mm A.F.F.L. In special cases, e.g. TV points, mounting heights to be agreed on with the electrical Engineer on site
 - Unless indicated otherwise, all distribution boards shall be equipped with 5KA minimum breaking capacity MCBs.
 - All electrical services drawings shall be read in conjunction with all other services drawings

- LEGEND**
- Single Phase Distribution Board [See schematic]
 - 10A 1 gang 1 way switch (Type MK or equivalent)
 - 10A 2 gang 1 way switch (Type MK or equivalent)
 - 10A 1 gang 2 way switch (Type MK or equivalent)
 - 1 x 11W Ceiling Mounted Round Decorative Bulkhead Light Fitting complete with 11W LED Bulb.
 - 1 x 11W Weatherproof Ceiling Mounted Round Decorative Bulkhead Light Fitting complete with 11W LED Bulb.
 - 1 x 15W Wall Mounted Decorative Bulkhead Light Fitting complete with 15W LED Bulb.
 - 1 x 11W Wall Mounted Decorative Bulkhead Light Fitting complete with 11W LED Bulb.
 - 15A MK or similar approved round pin single switched socket outlet
 - 13A MK or similar approved double switched socket outlet
 - 5A MK or similar approved shaver outlet
 - 20A Aircon Isolator
 - 6 x 6 MK or similar approved Cooker Control Unit

- CIRCUIT ABBREVIATIONS**
- DBX / P2
Circuit Number
Circuit Board
- MDB : Main distribution board
DB : Single Phase Distribution Board
DBX / L1 : Light Circuit Number 1 in DBX
DBX / P1 : 13A Power Circuit Number 1 in DBX
DBX / PP1 : 15A Power Circuit Number 1 in DBX
DBX / CCU : Cooker unit circuit in DBX

Notes	AMENDMENT		MINISTRY OF LOCAL GOVERNMENT AND NATIONAL HOUSING P.O BOX CY 441, CAUSEWAY ZIMBABWE	Branch Head: S.M Singo	Director Eng: E. Njoma	Ministry: MINISTRY OF FINANCE	Centre: MUTARE
	Lr	date		Init	Designed: B. Manduna	Scale: As Shown	Title: FORBES BORDER POST STAFF ACCOMODATON
				Drawn: B. Manduna	Date: MARCH 2022	Description: SMALL POWER, LIGHTING LAYOUT AND DB SCHEMATICS	
				Checked: M. Sifeku	File Ref		
				Telephone 790137/ 704079		Stock Drwg No	Proj No 192593/E/01
	Micro-film Drwg No					GP. No	