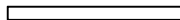

























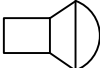



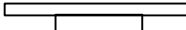
ELECTRICAL LEGEND	
	SURFACE MOUNTED 1 x36W T8 FTL LHDF21136025 - HAVELLS / Equivalent
	RECESSED LIGHT FIXTURES - SQUARE 42W LED 600k LHECDQL7PP5I042 -DIFFUSED -CEILING CUTOUT-600MM x 600MM - HAVELLS/Equivalent
	RECESSED LIGHT FIXTURES - ROUND 15W LHEBJNP6OZ1W015 LED CEILING CUTOUT -138MM DIA and HEIGHT 90MM - HAVELLS / Equivalent
	RECESSED LIGHT FIXTURES - ROUND 7W LHEBJNP5Z1W007 LED CEILING CUTOUT -100MM DIA and HEIGHT 53MM - HAVELLS / Equivalent
	SURFACE MOUNTED ROUND 15W LED LHEAAGP71A2W012 -HAVELLS/Equivalent
	RECESSED MOUNTED LED WALL WASHER 15W LED 3000k LHESAHPBNN1W015 -CUTOUT 112MM DEPTH 64MM HEIGHT 95MM - HAVELLS / Equivalent
	DECORATIVE WALL MOUNTING 27W CFL - LHDC13126099 - HAVELLS / Equivalent
	CEILING WASHER LIGHT FIXTURE 15W LED for MOUNTING ON COLUMN IN VOID AREA - BSB Appd.
	MIRRORLITE FIXTURE 2x8W CFL - BSB Appd.
	5.5M STREET LIGHT POLE WITH DOME TYPE PLASTIC GLOBE for 1x80W HPL-N (BC) - BSB Appd.
	2-GANG MODULAR BOX for THERMOSTAT MOUNT 1500MM HEIGHT from PPL.
	1/2-GANG MODULAR SWITCH 6A 230V (BSB Appd) 1500MM HEIGHT from PPL.
	3/4-GANG MODULAR SWITCH 6A 230V (BSB Appd) 1500MM HEIGHT from PPL.
	5 PIN 6A 230V MODULAR SWITCH SOCKET COMBINED 1x100W (BSB Appd) 350MM/1500MM/2500MM HEIGHT from PPL.
	5 PIN 16A 230V MODULAR SWITCH SOCKET COMBINED 1x2000W (BSB Appd) 350MM HEIGHT from PPL.
	5 PIN 16A 230V MODULAR SWITCH SOCKET COMBINED 1x2000W (BSB Appd) 1500MM HEIGHT from PPL.

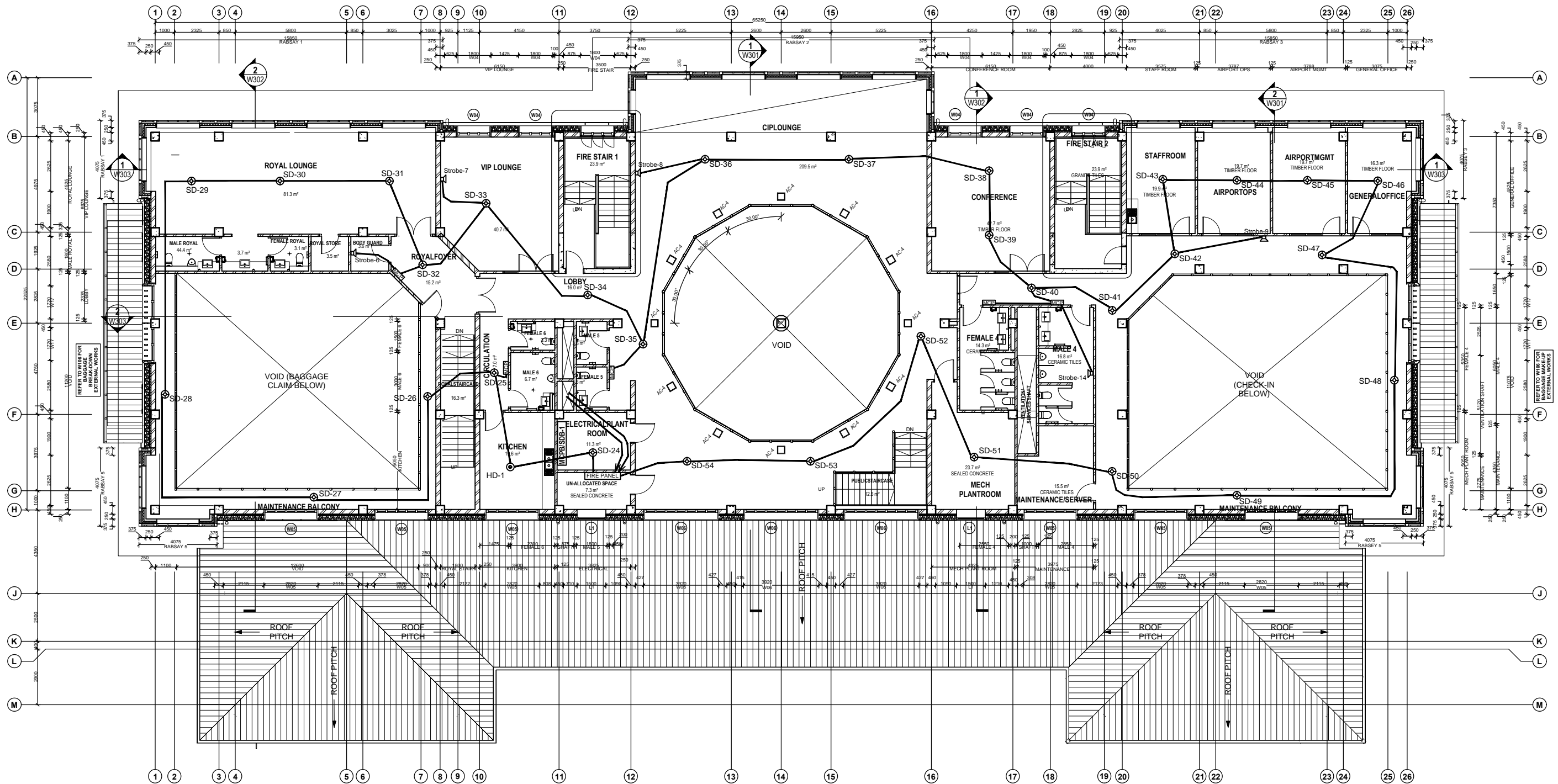
FIRE ALARM LEGEND	
	SMOKE SENSOR - MORLEY/IAS /Equivalent
	WALL MOUNTED SOUNDER STROBE
	MANUAL CALL POINT
	BEAM DETECTOR - SYSTEM SENSOR / Equivalent
	REFLECTOR - SYSTEM SENSOR / Equivalent
EPABX / LAN LEGEND	
	RJ-45 COMPUTER SOCKET for LAN - BSB Appd.
	SINGLE / TWIN RJ-11 TELEPHONE - FAX SOCKET - BSB Appd. 350MM HEIGHT from PPL.

 TV SOCKET POINT

PUBLIC ADDRESS LEGEND	
	CEILING SPEAKER - HONEYWELL / Equivalent
	WALL SPEAKER - HONEYWELL / Equivalent
	VOICE CONTROL SWITCH
	SMART HD IP BULLET CAMERA - PAL/NTSC/ Equivalent
	SPEED DOME -PTZ CAMERA

FLIGHT INFORMATION LEGEND

 FLIGHT INFORMATION DISPLAY BOARD



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Aviation Planners & Engineers

Leading Edge Aviation Planning Professionals

Civil Engineering Consultant

Gyaltsen Consultancy

Project Title

BHUTAN DOMESTIC AIRPORT DESIGN & SUPERVISION  
GELEPHU AIRPORT SECURITY QUARTERS

No./Revision

Date By

Drawing Title

Electrical drawing FF

Scale 1 : 200 @ A3

Date December 2016

Drawn By S Tobgay, P Dorji & A Pradhan

Drawing Number

STR - 100

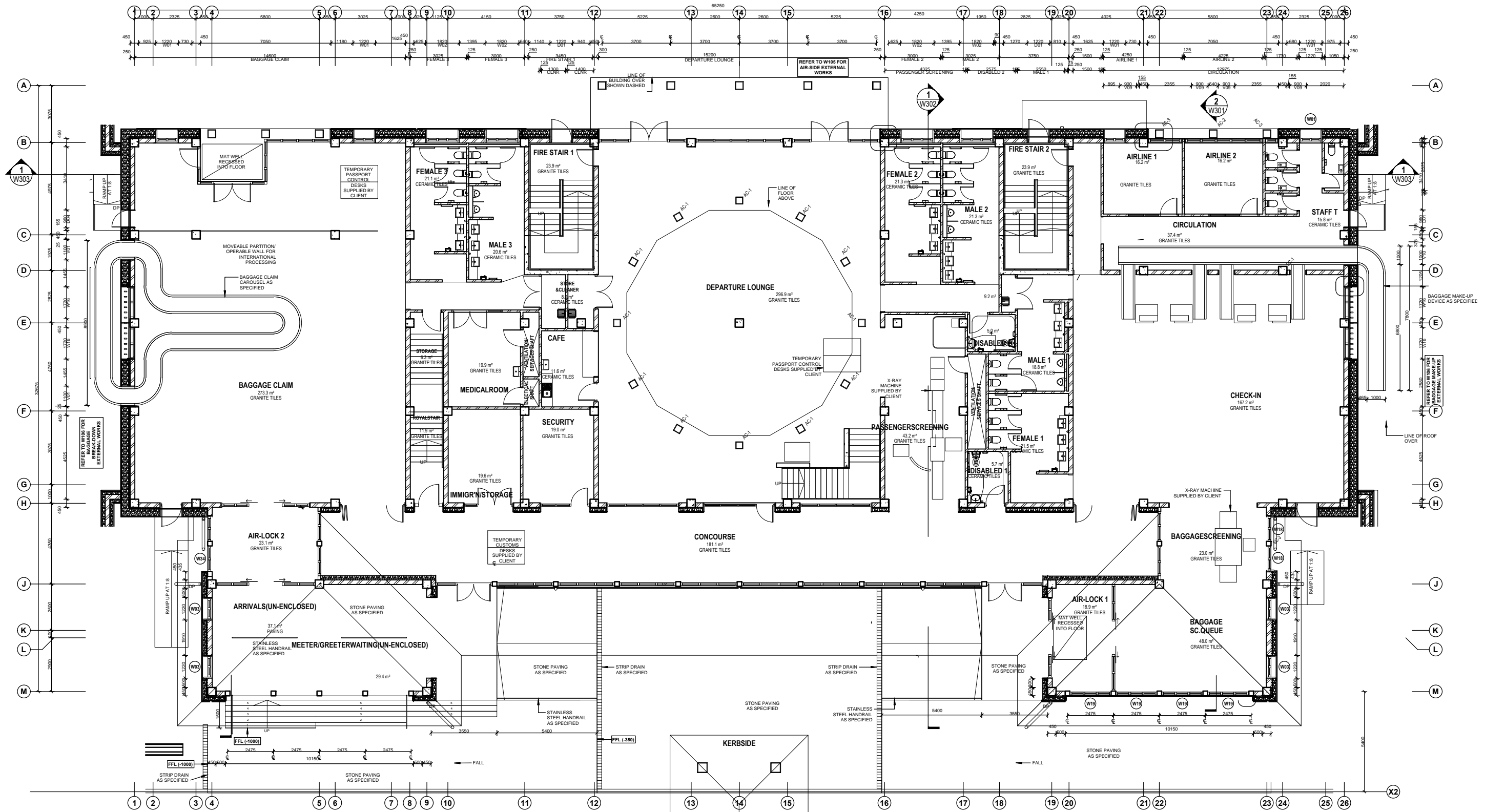
LEAPP Project Code  
12246

Rev No.

R0



ROYAL GOVERNMENT OF BHUTAN  
DEPARTMENT OF CIVIL AVIATION



#### Notes

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Gyaltsen Consultancy

#### Project Title

BHUTAN DOMESTIC AIRPORT DESIGN & SUPERVISION  
GELEPHU AIRPORT SECURITY QUARTERS

#### No. Revision

No.	Revision	Date	By

#### Drawing Title

Electrical drawing GF  
Scale 1 : 200 @ A3  
Date December 2016  
Drawn By S Tobgay, P Dorji & A Pradhan  
Drawing Number  
STR - 100  
LEAPP Project Code  
12246

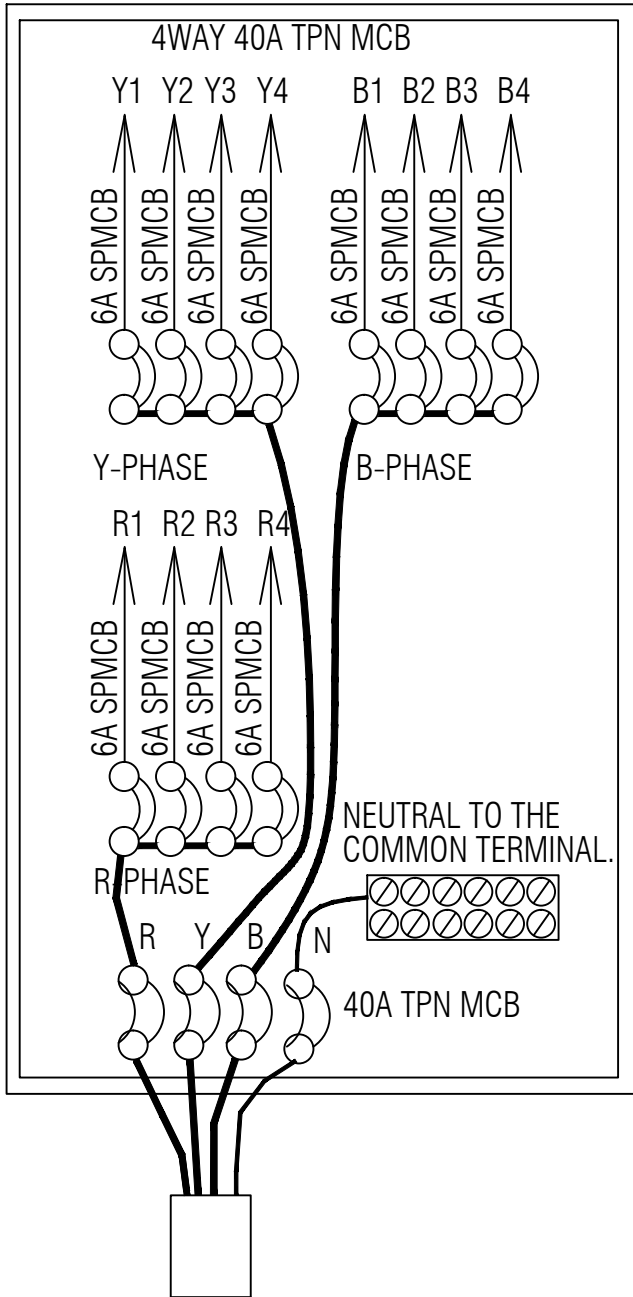
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ROYAL GOVERNMENT OF BHUTAN  
DEPARTMENT OF CIVIL AVIATION

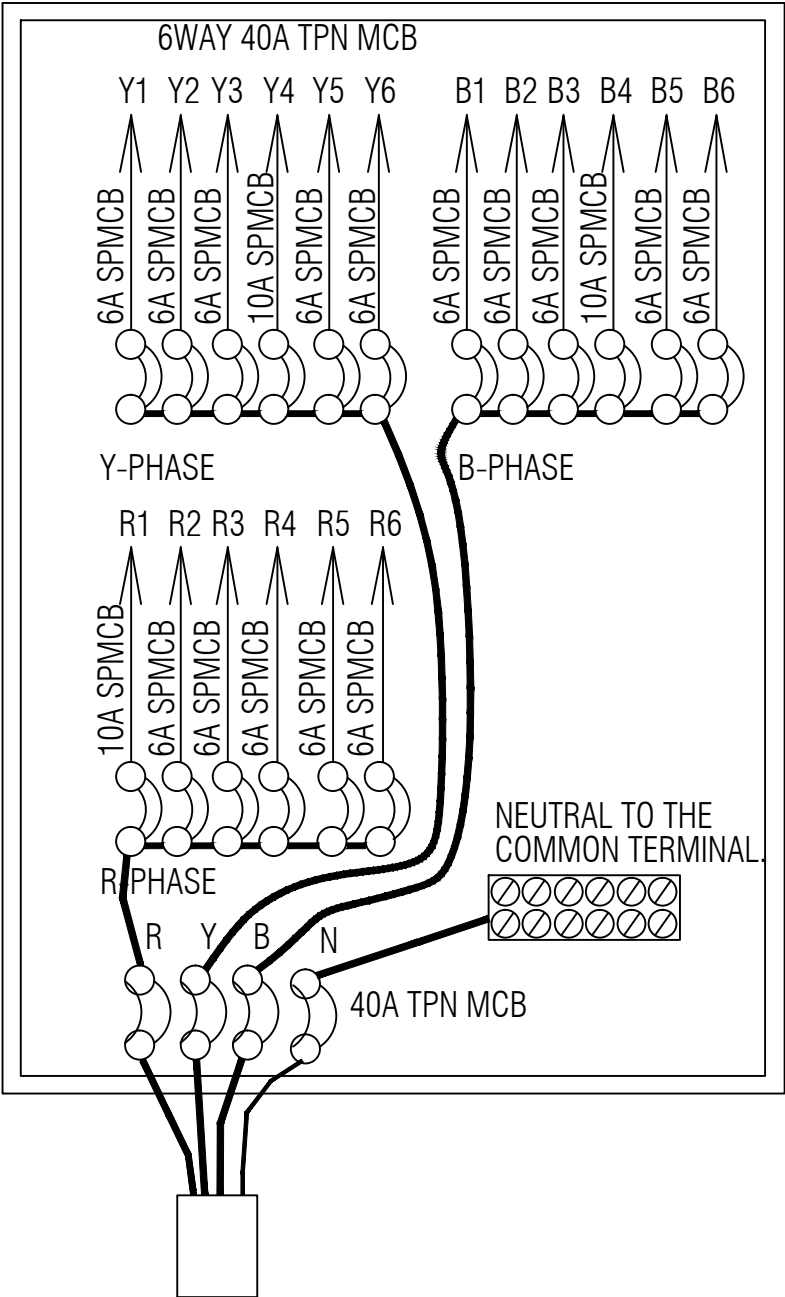
GENERATOR SUPPLY  
LDB-1- GROUND FLOOR



BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	378	Y1	195	B1	252
R2	289	Y2	262	B2	125
R3	60	Y3	150	B3	165
R4	SPARE	Y4	SPARE	B4	SPARE
727		607		542	

4C x 10SQ.MM 1.1KV GRADE AI. CONDUCTOR PVC INSULATED and SHEATHED UG CABLE

GENERATOR SUPPLY  
LDB-2- GROUND FLOOR



BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	252	Y1	108	B1	180
R2	250	Y2	183	B2	335
R3	250	Y3	105	B3	165
R4	192	Y4	210	B4	168
R5	180	Y5	252	B5	90
R6	SPARE	Y6	SPARE	B6	SPARE
1114		858		938	

4C x 10SQ.MM 1.1KV GRADE AI. CONDUCTOR PVC INSULATED and SHEATHED UG CABLE

SINGLE LINE DIAGRAM CIRCUIT REFERENCE OUTGOING for GROUND FLOOR



ROYAL GOVERNMENT OF BHUTAN  
DEPARTMENT OF CIVIL AVIATION

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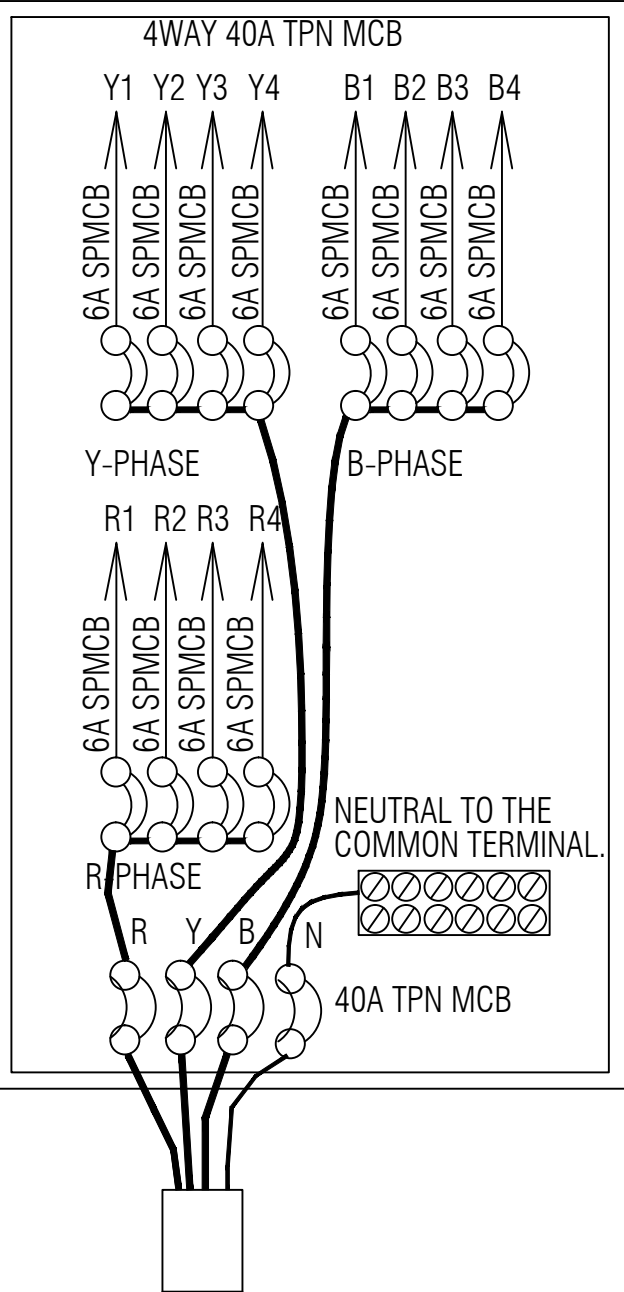
Client  
Ministry of Information and Communications  
Department of Air Transport  
Aviation Planners & Engineers  
Leading Edge Aviation Planning Professionals  
Civil Engineering Consultant  
Gyaltsen Consultancy  
Project Title  
BHUTAN DOMESTIC AIRPORT DESIGN & SUPERVISION  
GELEPHU AIRPORT SECURITY QUATERS

No.	Revision	Date	By

Drawing Title  
Single line diagram circuit for GF  
Scale 1 : 200 @ A3  
Date December 2016  
Drawn By S Tobgay, P Dorji & A Pradhan  
Drawing Number STR - 100  
LEAPP Project Code 12246

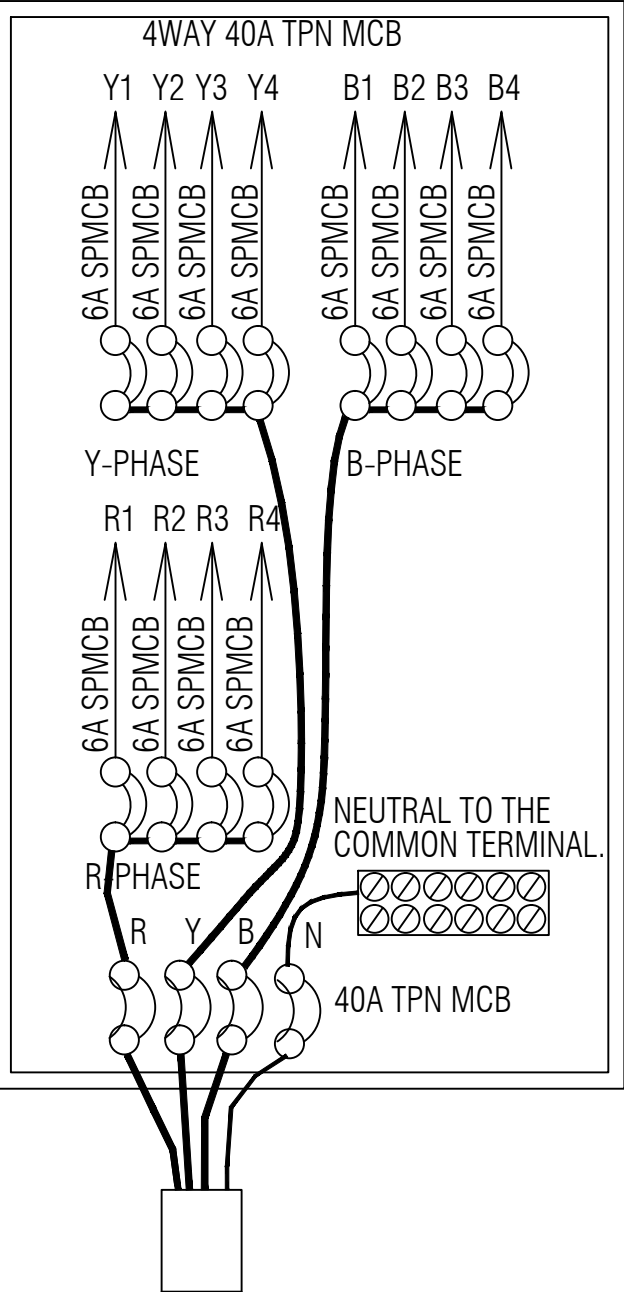


GENERATOR SUPPLY  
SDB-1- FIRST FLOOR



4C x 10SQ.MM 1.1kV GRADE AI. CONDUCTOR PVC INSULATED and SHEATHED UG CABLE

GENERATOR SUPPLY  
LDB-2- FIRST FLOOR



4C x 10SQ.MM 1.1kV GRADE AI. CONDUCTOR PVC INSULATED and SHEATHED UG CABLE

BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	165	Y1	150	B1	297
R2	77	Y2	149	B2	381
R3	411	Y3	295	B3	84
R4	192	Y4	SPARE	B4	SPARE
845		594		762	

BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	178	Y1	232	B1	319
R2	180	Y2	120	B2	180
R3	132	Y3	91	B3	SPARE
R4	SPARE	Y4	SPARE	B4	SPARE
490		443		499	

SINGLE LINE DIAGRAM CIRCUIT REFERENCE OUTGOING for FIRST FLOOR



ROYAL GOVERNMENT OF BHUTAN  
DEPARTMENT OF CIVIL AVIATION

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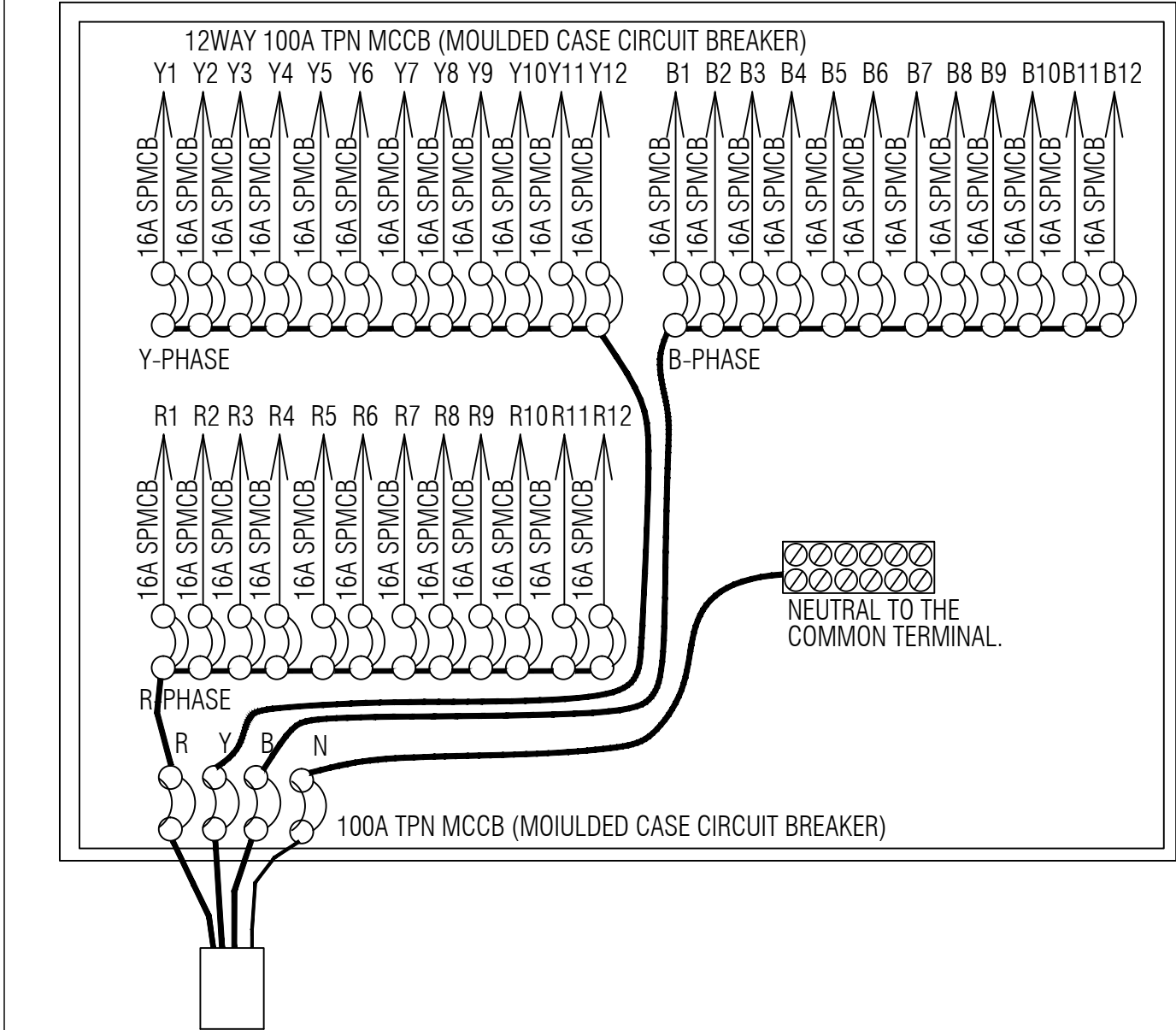
Client  
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Department of Air Transport  
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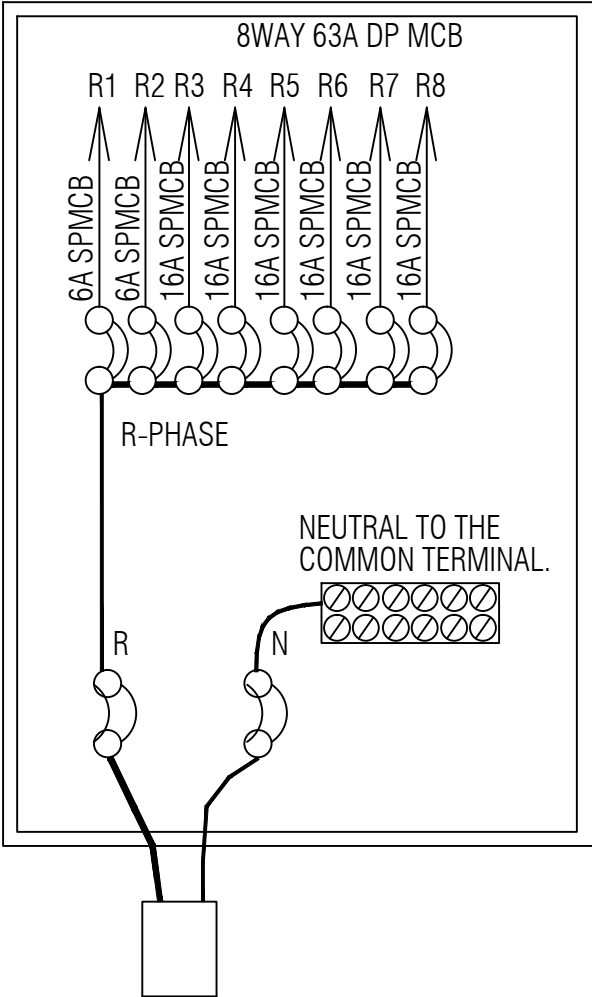
Drawing Title  
Single line diagram circuit for FF  
Scale 1 : 200 @ A3  
Date December 2016  
Drawn By S Tobgay, P Dorji & A Pradhan  
Drawing Number STR - 100  
Rev No. R0  
LEAPP Project Code 12246

NORMAL SUPPLY  
PDB-1- GROUND FLOOR

NORMAL SUPPLY  
PDB-1- GROUND FLOOR



BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	2000	Y1	2000	B1	2000
R2	2000	Y2	2000	B2	2000
R3	2000	Y3	2000	B3	2000
R4	2000	Y4	2000	B4	2000
R5	2000	Y5	2000	B5	2000
R6	2000	Y6	2000	B6	2000
R7	2000	Y7	2000	B7	2000
R8	2000	Y8	2000	B8	2000
R9	2000	Y9	2000	B9	2000
R10	2000	Y10	2000	B10	2000
R11	2000	Y11	2000	B11	2000
R12	2000	Y12	2000	B12	2000
24000		24000		24000	



BALANCE LOADS IN WATTS	
R-PHASE AT G/F	
R1	2000
R2	2000
R3	2000
R4	2000
R5	2000
R6	2000
R7	2000
R8	SPARE
14000	

SINGLE LINE DIAGRAM CIRCUIT REFERENCE OUTGOING for GROUND FLOOR



ROYAL GOVERNMENT OF BHUTAN  
DEPARTMENT OF CIVIL AVIATION

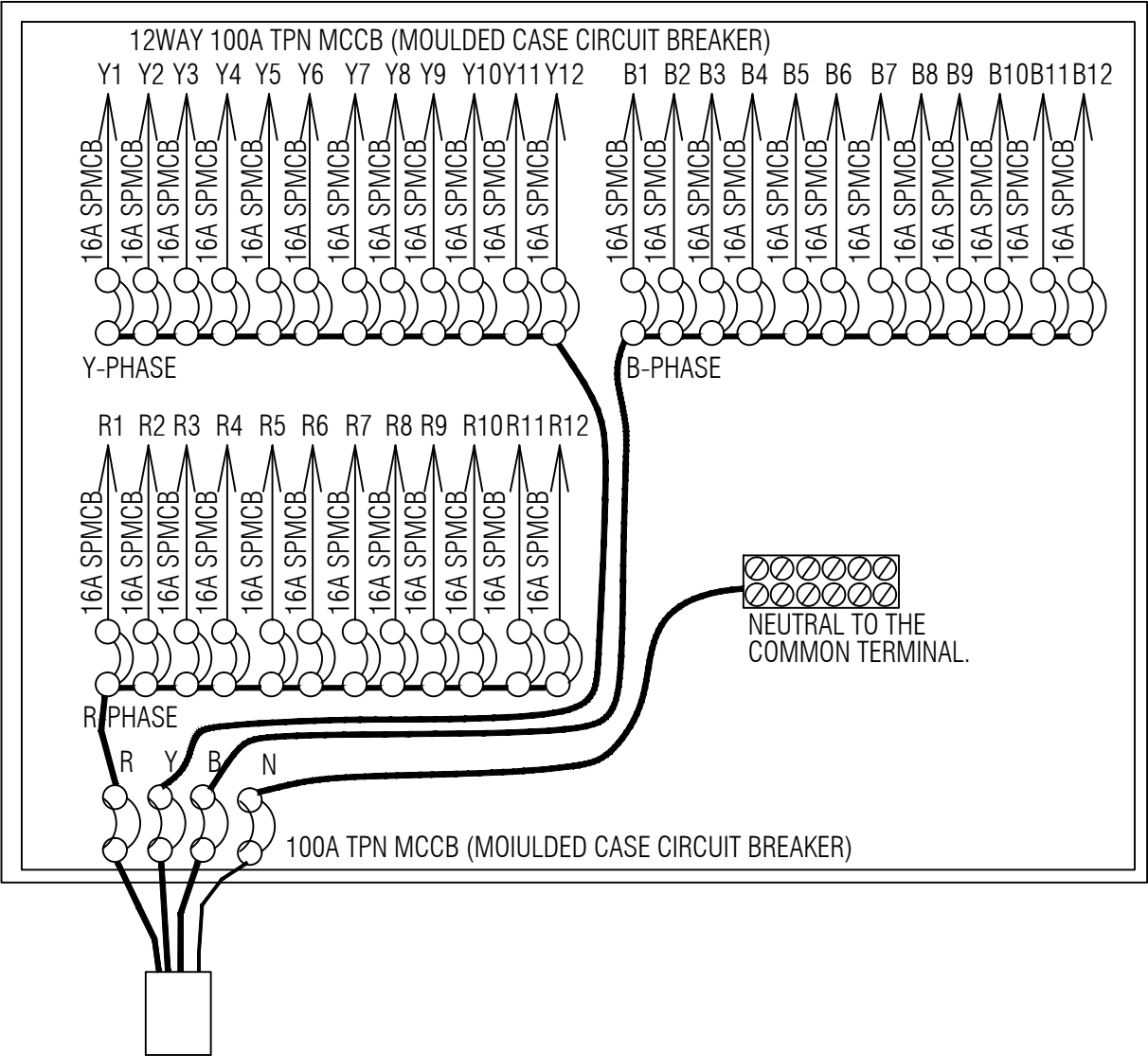
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GELEPHU AIRPORT SECURITY QUATERS

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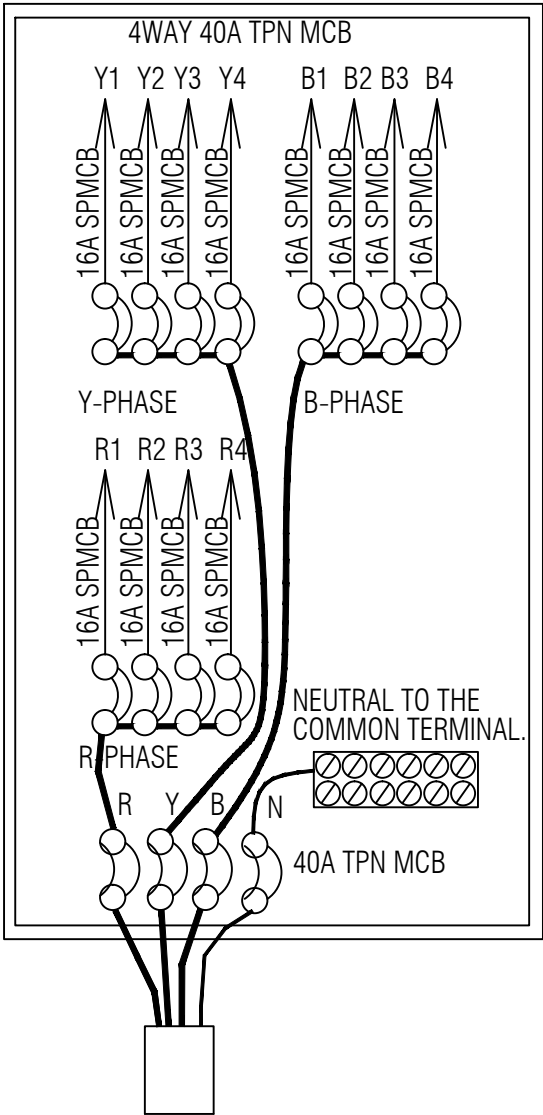
Drawing Title  
Single line diagram circuit for GF  
Scale 1 : 200 @ A3  
Date December 2016  
Drawn By S Tobgay, P Dorji & A Pradhan  
Drawing Number STR - 100  
Rev No. R0  
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NORMAL SUPPLY  
PDB-3- GROUND FLOOR



3-1/2C x 35SQ.MM 1.1KV GRADE AI. CONDUCTOR PVC INSULATED and SHEATHED UG CABLE

NORMAL SUPPLY  
PDB-3- GROUND FLOOR



4C x 10SQ.MM 1.1KV GRADE AI. CONDUCTOR PVC INSULATED and SHEATHED UG CABLE

BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	2000	Y1	2000	B1	2000
R2	2000	Y2	2000	B2	2000
R3	2000	Y3	2000	B3	2000
R4	2000	Y4	2000	B4	2000
R5	2000	Y5	2000	B5	2000
R6	2000	Y6	2000	B6	2000
R7	2000	Y7	2000	B7	2000
R8	2000	Y8	2000	B8	2000
R9	2000	Y9	2000	B9	2000
R10	2000	Y10	2000	B10	2000
R11	2000	Y11	2000	B11	2000
R12	2000	Y12	2000	B12	2000
24000		24000		24000	

BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	2000	Y1	2000	B1	2000
R2	2000	Y2	2000	B2	2000
R3	2000	Y3	2000	B3	2000
R4	SPARE	Y4	SPARE	B4	SPAF
6000		6000		6000	

SINGLE LINE DIAGRAM CIRCUIT REFERENCE OUTGOING for GROUND FLOOR



ROYAL GOVERNMENT OF BHUTAN  
DEPARTMENT OF CIVIL AVIATION

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Drawing Title

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Scale 1 : 200 @ A3

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Drawing Number

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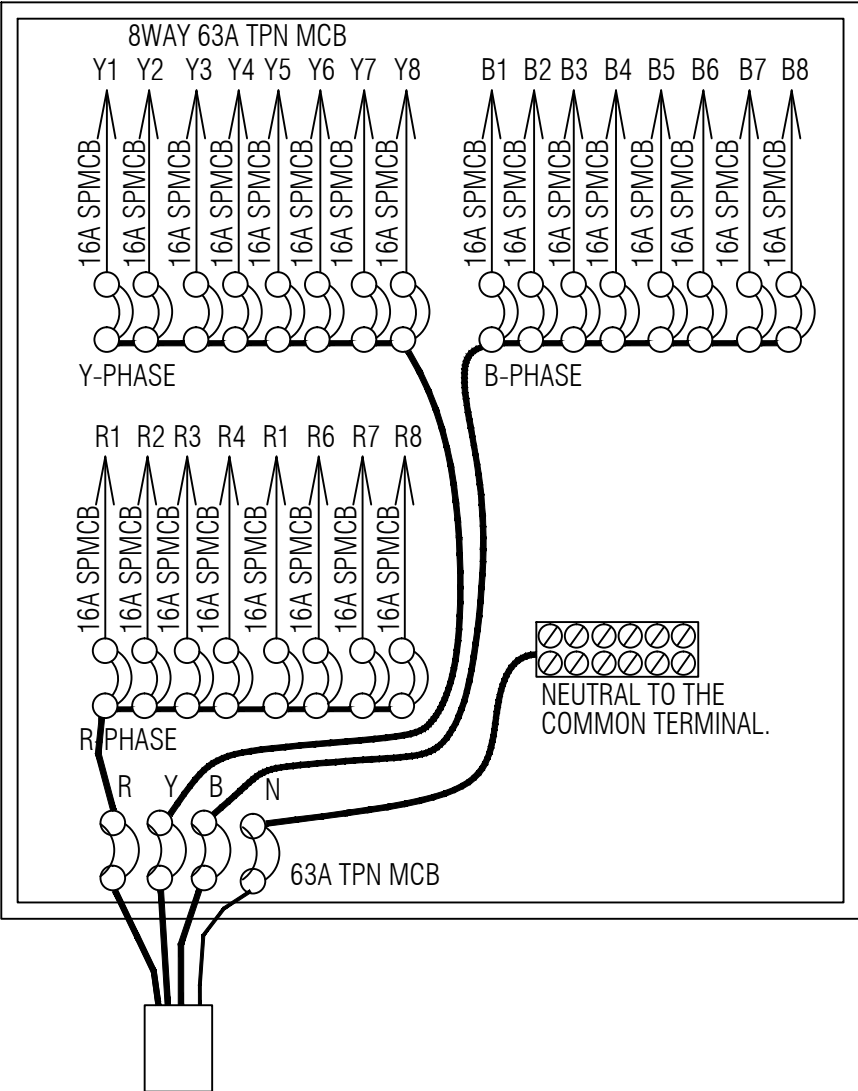
12246

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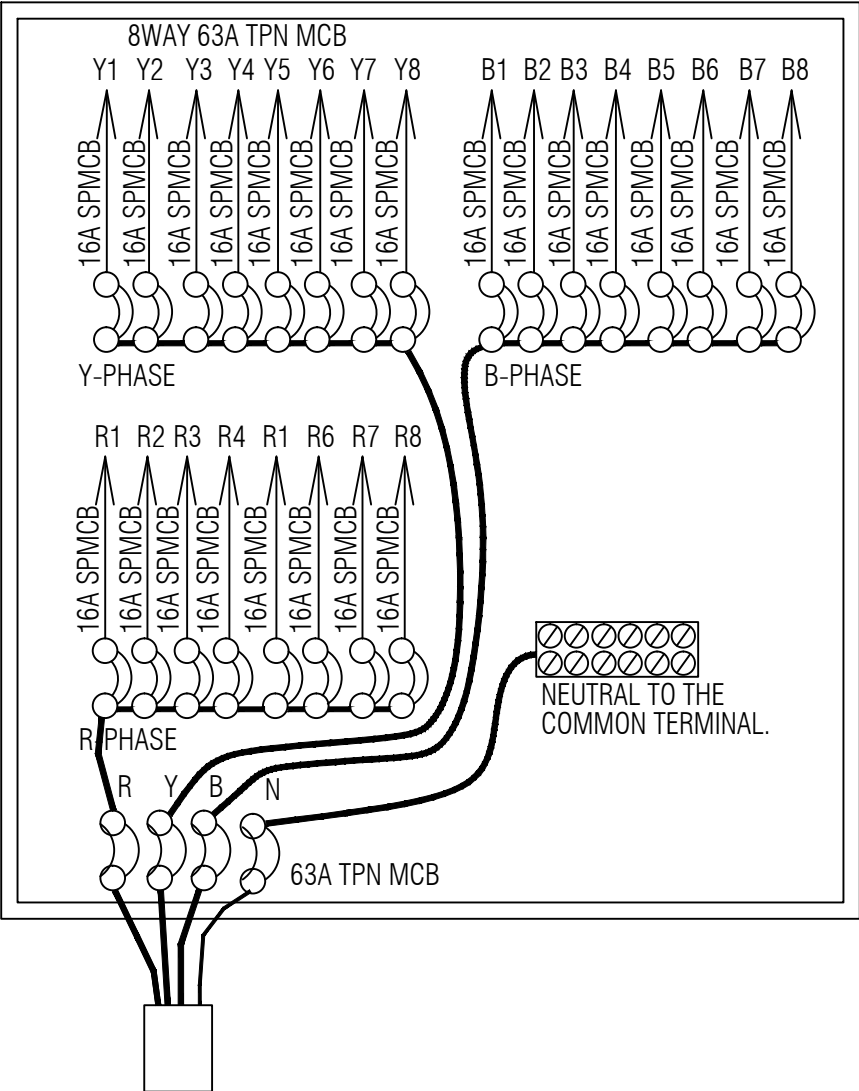
SINGLE LINE DIAGRAM

NORMAL SUPPLY  
PDB-3- FIRST FLOOR



BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	2000	Y1	2000	B1	2000
R2	2000	Y2	2000	B2	2000
R3	2000	Y3	2000	B3	2000
R4	2000	Y4	2000	B4	2000
R5	2000	Y5	2000	B5	2000
R6	2000	Y6	2000	B6	2000
R7	2000	Y7	2000	B7	2000
R8	SPARE	Y8	2000	B8	SPARE
14000		16000		14000	

GENERATOR SUPPLY  
SDB-1- FIRST FLOOR



BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	2000	Y1	2000	B1	2000
R2	2000	Y2	2000	B2	2000
R3	2000	Y3	2000	B3	2000
R4	2000	Y4	2000	B4	2000
R5	2000	Y5	2000	B5	2000
R6	2000	Y6	2000	B6	2000
R7	2000	Y7	2000	B7	2000
R8	2000	Y8	2000	B8	2000
16000		16000		16000	

SINGLE LINE DIAGRAM CIRCUIT REFERENCE OUTGOING for FIRST FLOOR



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No. Revision

Date

By

Drawing Title

Single line diagram circuit for FF

Scale 1 : 200 @ A3

Date December 2016

Drawn By S Tobgay, P Dorji & A Pradhan

Drawing Number

STR - 100

LEAPP Project Code

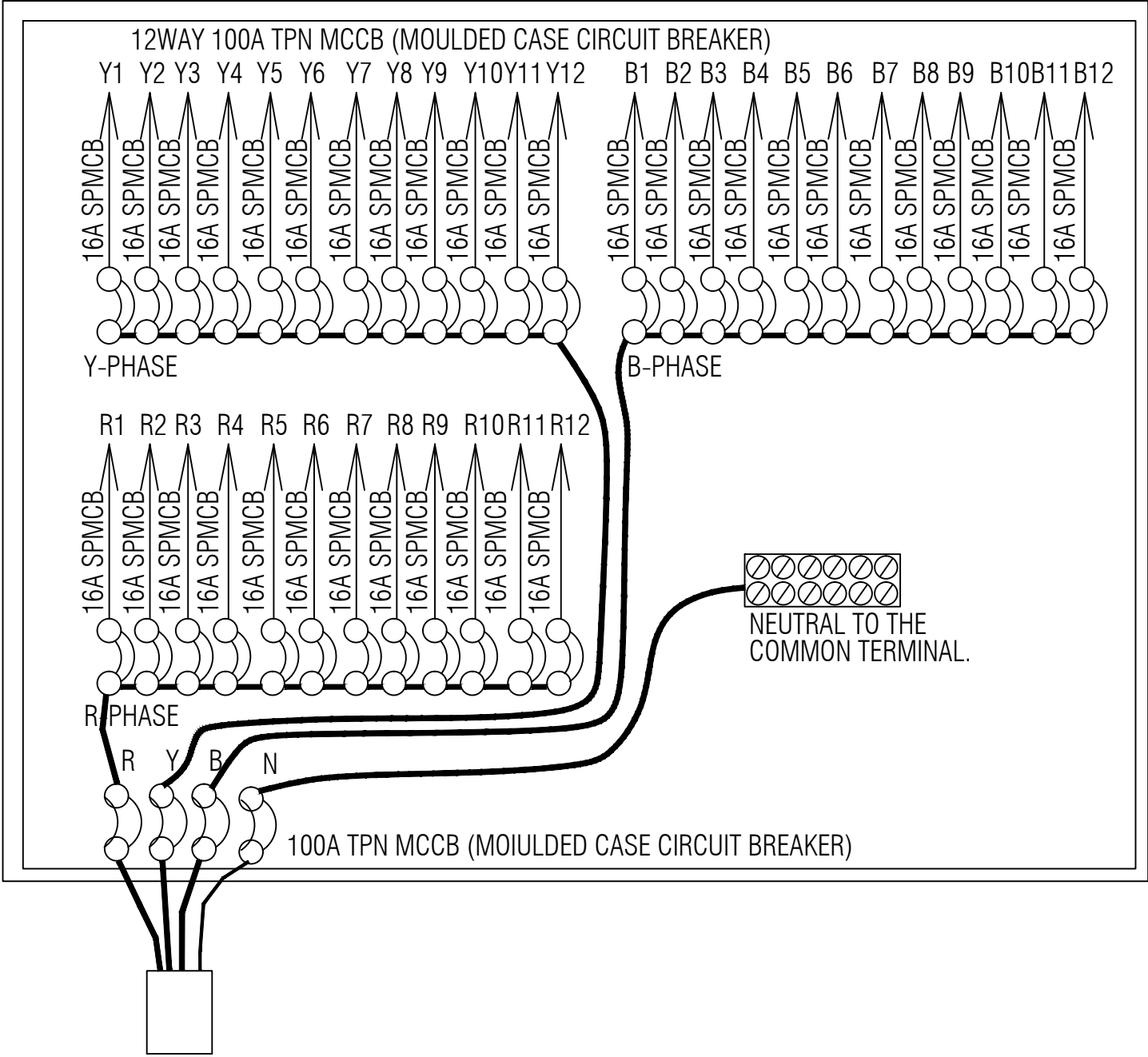
12246

Rev No.

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GENERATOR SUPPLY  
PDB-2- FIRST FLOOR



BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	2000	Y1	2000	B1	2000
R2	2000	Y2	2000	B2	2000
R3	2000	Y3	2000	B3	2000
R4	2000	Y4	2000	B4	2000
R5	2000	Y5	2000	B5	2000
R6	2000	Y6	2000	B6	2000
R7	2000	Y7	2000	B7	2000
R8	2000	Y8	2000	B8	2000
R9	2000	Y9	2000	B9	2000
R10	2000	Y10	2000	B10	2000
R11	2000	Y11	2000	B11	2000
R12	2000	Y12	2000	B12	2000
24000		24000		24000	

3-1/2C x 35SQ.MM 1.1kV GRADE AL. CONDUCTOR PVC INSULATED and SHEATHED UG CABLE

SINGLE LINE DIAGRAM CIRCUIT REFERENCE OUTGOING for GROUND FLOOR



ROYAL GOVERNMENT OF BHUTAN  
DEPARTMENT OF CIVIL AVIATION

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GELEPHU AIRPORT SECURITY QUATERS

No. Revision

Date

By

Drawing Title

Single line diagram circuit for GF

Scale 1 : 200 @ A3

Date December 2016

Drawn By S Tobgay, P Dorji & A Pradhan

Drawing Number

STR - 100

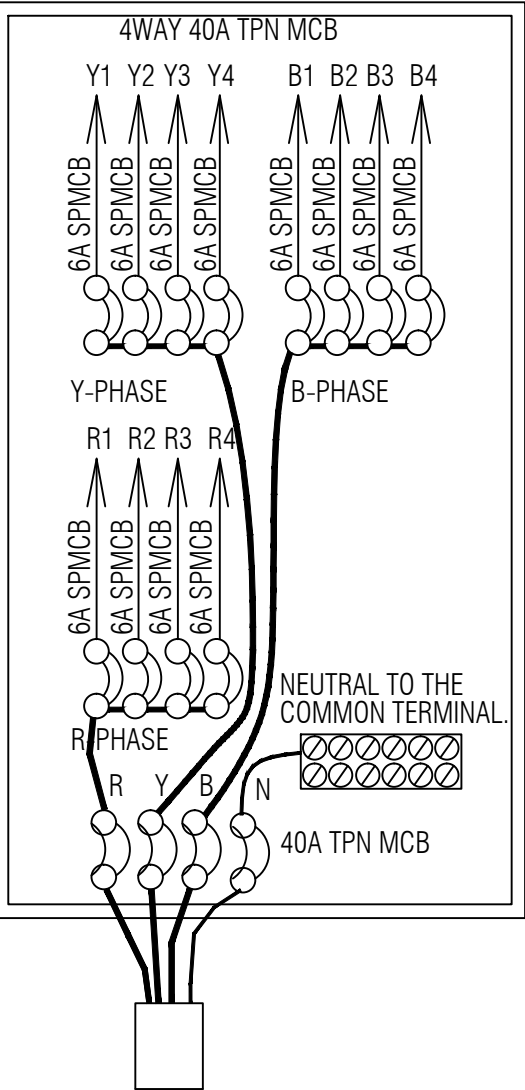
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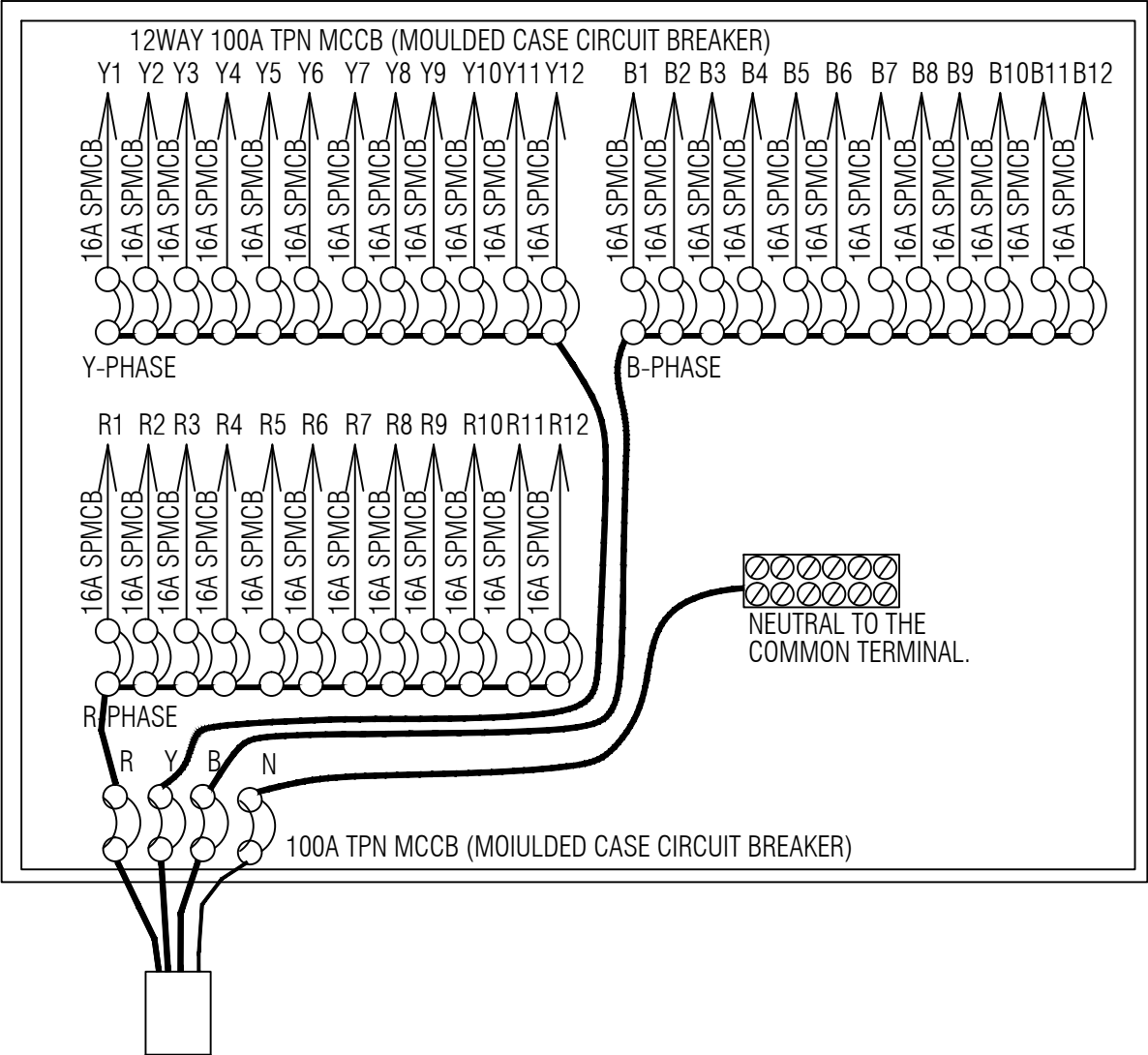
# SINGLE LINE DIAGRAM

## GENERATOR SUPPLY PDB-2- GROUND FLOOR



4C x 10SQ.MM 1.1KV GRADE AI. CONDUCTOR PVC INSULATED and SHEATHED UG CABLE

## GENERATOR SUPPLY PDB-2- GROUND FLOOR



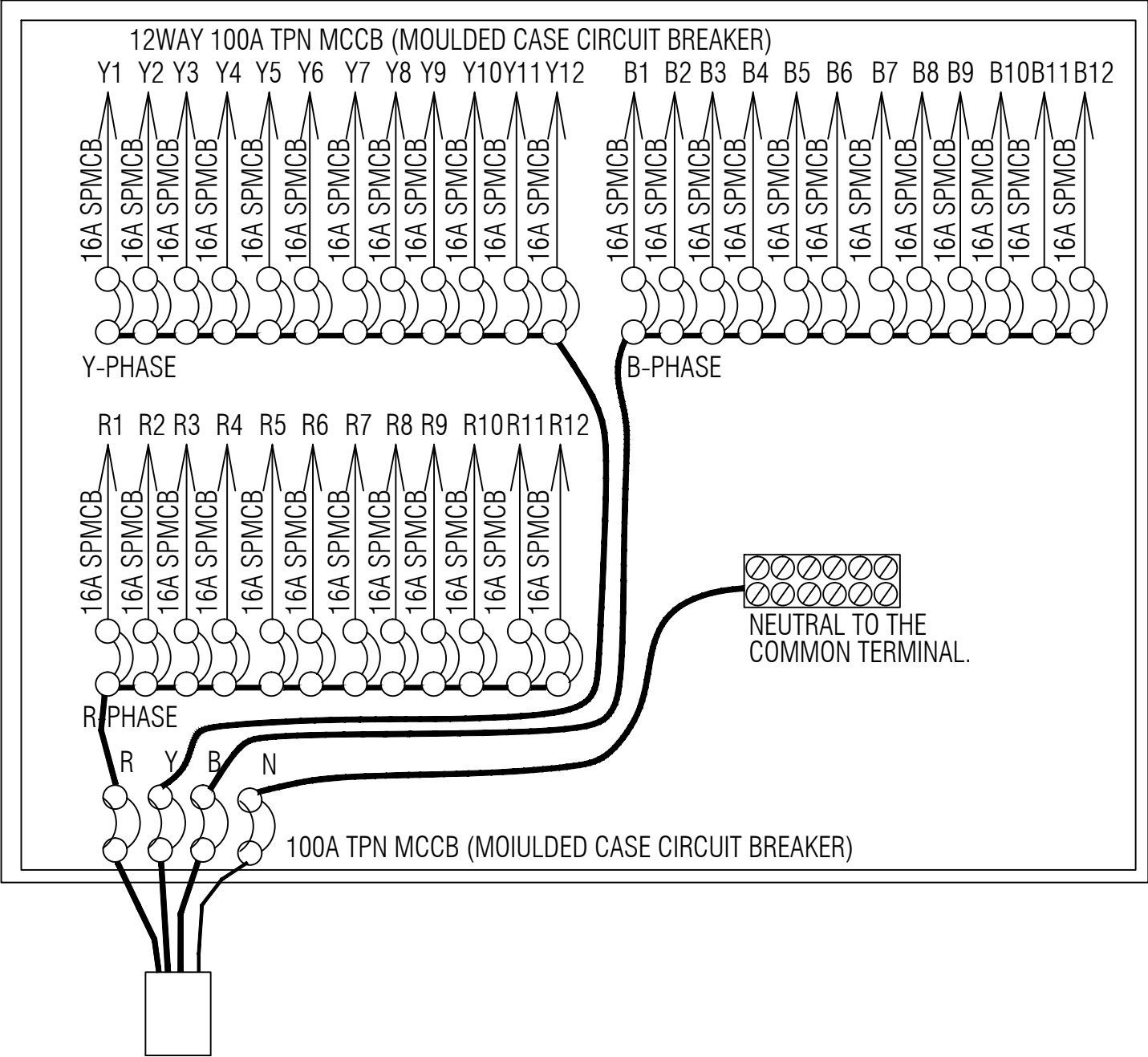
3-1/2C x 35SQ.MM 1.1KV GRADE AI. CONDUCTOR PVC INSULATED and SHEATHED UG CABLE

BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	2000	Y1	2000	B1	2000
R2	2000	Y2	2000	B2	2000
R3	2000	Y3	2000	B3	2000
R4	SPARE	Y4	SPARE	B4	SPARE
6000		6000		6000	

BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	2000	Y1	2000	B1	2000
R2	2000	Y2	2000	B2	2000
R3	2000	Y3	2000	B3	2000
R4	2000	Y4	2000	B4	2000
R5	2000	Y5	2000	B5	2000
R6	2000	Y6	2000	B6	2000
R7	2000	Y7	2000	B7	2000
R8	2000	Y8	2000	B8	2000
R9	2000	Y9	2000	B9	2000
R10	2000	Y10	2000	B10	2000
R11	2000	Y11	2000	B11	2000
R12	2000	Y12	2000	B12	2000
24000		24000		24000	

## SINGLE LINE DIAGRAM CIRCUIT REFERENCE OUTGOING for GROUND FLOOR

GENERATOR SUPPLY  
PDB-4- GROUND FLOOR



BALANCE LOADS IN WATTS					
R-PHASE		Y-PHASE		B-PHASE	
R1	2000	Y1	2000	B1	2000
R2	2000	Y2	2000	B2	2000
R3	2000	Y3	2000	B3	2000
R4	2000	Y4	2000	B4	2000
R5	2000	Y5	2000	B5	2000
R6	2000	Y6	2000	B6	2000
R7	2000	Y7	2000	B7	2000
R8	2000	Y8	2000	B8	2000
R9	2000	Y9	2000	B9	2000
R10	2000	Y10	2000	B10	2000
R11	2000	Y11	2000	B11	2000
R12	SPARE	Y12	SPARE	B12	2000
22000		22000		24000	

3-1/2C x 35SQ.MM 1.1kV GRADE AL. CONDUCTOR PVC INSULATED and SHEATHED UG CABLE

SINGLE LINE DIAGRAM CIRCUIT REFERENCE OUTGOING for GROUND FLOOR



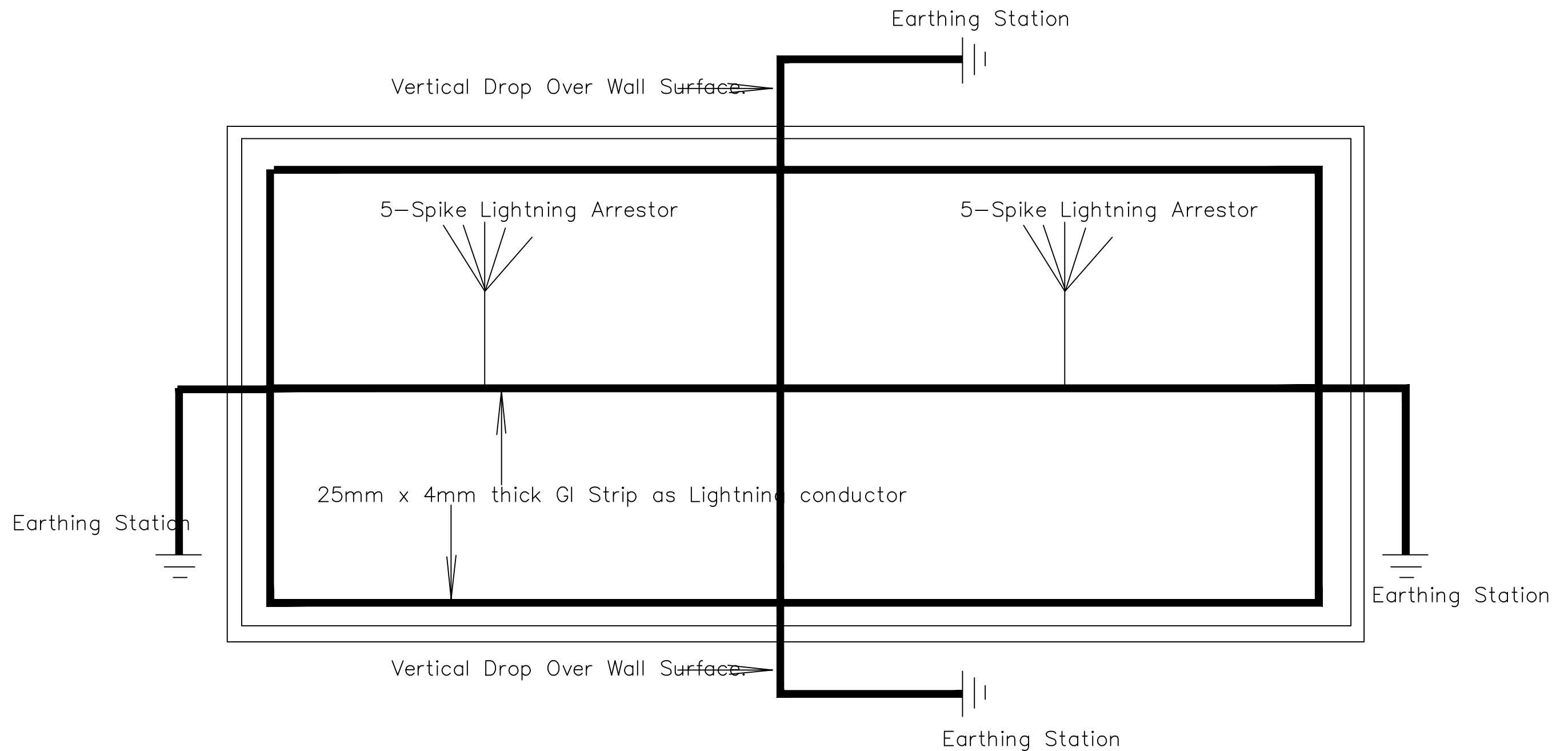
ROYAL GOVERNMENT OF BHUTAN  
DEPARTMENT OF CIVIL AVIATION

- Notes
- All dimensions are in meters unless specified otherwise.
  - All relative levels are in meters unless specified otherwise.
  - All dimensions measure unfinished surfaces unless specified otherwise.
  - All dimensions are to be read and not scaled off.
  - Any discrepancy in drawing is to be brought to the immediate notice of the Client/Supervising Engineer.
  - Minor adjustments need to be carried out on site to match with existing structure.
  - Verify dimensioning, take real measurements.
  - All construction changes on the site to be agreed with the Client/Supervising Engineer.

Client  
Ministry of Information and Communications  
Department of Air Transport  
Aviation Planners & Engineers  
Leading Edge Aviation Planning Professionals  
Civil Engineering Consultant  
Gyaltsen Consultancy  
Project Title  
BHUTAN DOMESTIC AIRPORT DESIGN & SUPERVISION  
GELEPHU AIRPORT SECURITY QUATERS

No.	Revision	Date	By

Drawing Title  
Single line diagram circuit for GF  
Scale 1 : 200 @ A3  
Date December 2016  
Drawn By S Tobgay, P Dorji & A Pradhan  
Drawing Number STR - 100  
Rev No. R0  
LEAPP Project Code 12246



- NOTE:
1. THE GI STRIP OF 25MM x 4MM MUST BE LAID ABOVE THE ROOF AS SHOWN HERE.
  2. WHEREVER THERE ARE JOINTS IT MUST BE EITHER WELDED OR MADE TIGHT WITH NUT & BOLT.
  3. THE VERTICAL DROP MUST BE MADE OVER THE WALL SURFACE TO BE CONNECTED TO EARTHING STATION.
  4. AT THE CORNICE CROSSING PROVIDE VERTICAL SLEEVE OF 40MM x 10MM AT THE TIME OF MAKING CORNICE.
  5. MINIMUM TWO EARTHING MUST BE MADE FOR LIGHTNING ARRESTOR.
  6. EARTHING MUST BE INTERCONNECTED TO EACH OTHER WITHIN THE LIGHTNING ARRESTOR EARTHING.



ROYAL GOVERNMENT OF BHUTAN  
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Project Title

BHUTAN DOMESTIC AIRPORT DESIGN & SUPERVISION  
GELEPHU AIRPORT SECURITY QUATERS

No. Revision

Date By


Drawing Title

Lightning arrestor details

Scale 1 : 200 @ A3

Date December 2016

Drawn By S Tobgay, P Dorji & A Pradhan

Drawing Number

STR - 100

LEAPP Project Code

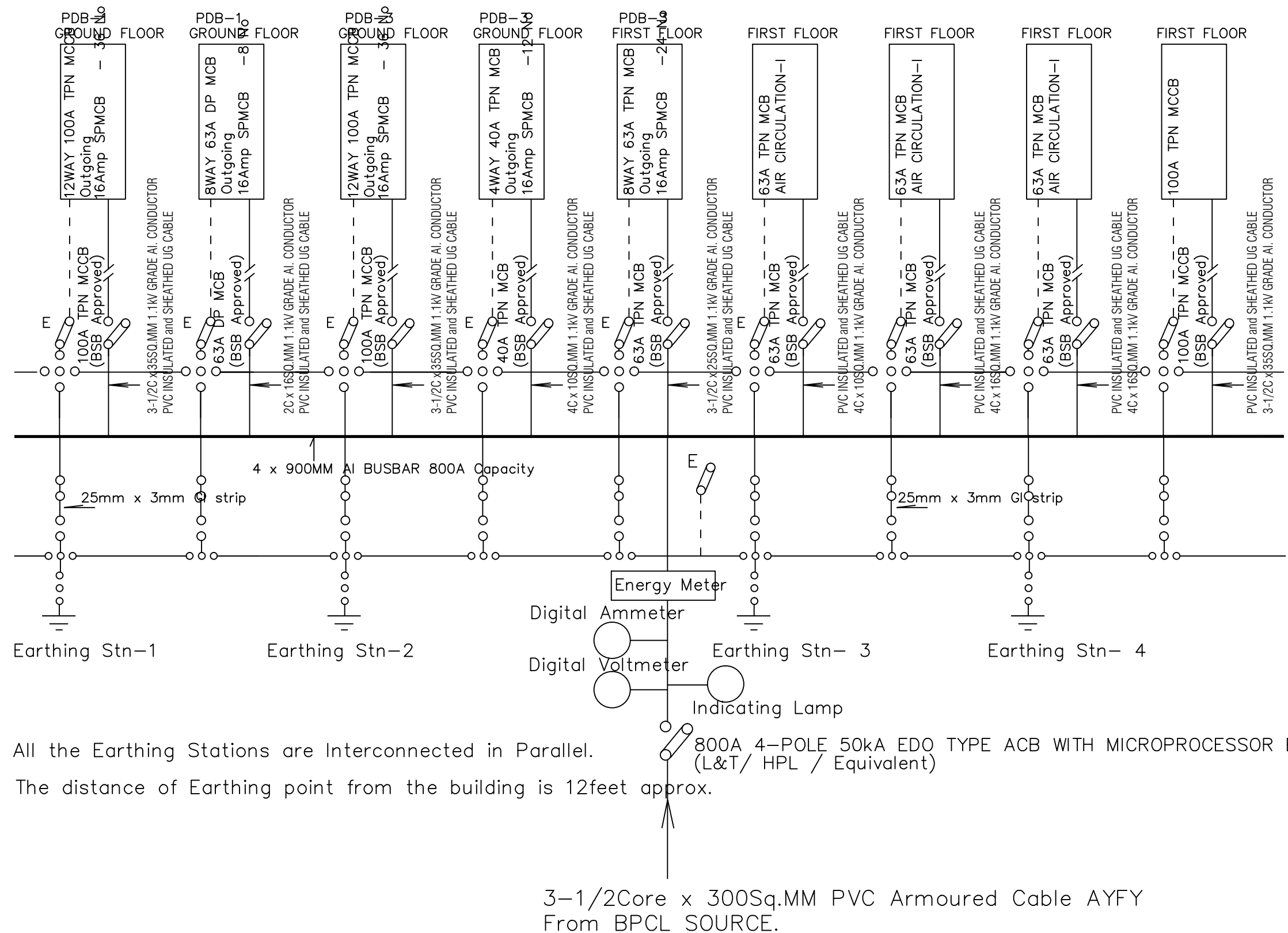
12246

Rev No.

R0



# MAIN CONTROL PANEL BOARD – NORMAL SUPPLY



## NOTE:

1. All the Earthing Stations are Interconnected in Parallel.
2. The distance of Earthing point from the building is 12feet approx.

3-1/2Core x 300Sq.MM PVC Armoured Cable AYFY  
From BPCL SOURCE.



ROYAL GOVERNMENT OF BHUTAN  
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Gyaltsen Consultancy

Project Title

BHUTAN DOMESTIC AIRPORT DESIGN & SUPERVISION  
GELEPHU AIRPORT SECURITY QUATERS

## No./Revision

No./Revision	Date	By

## Drawing Title

Main control panel board

Scale 1 : 200 @ A3

Date December 2016

Drawn By S Tobgay, P Dorji & A Pradhan

Drawing Number

STR - 100

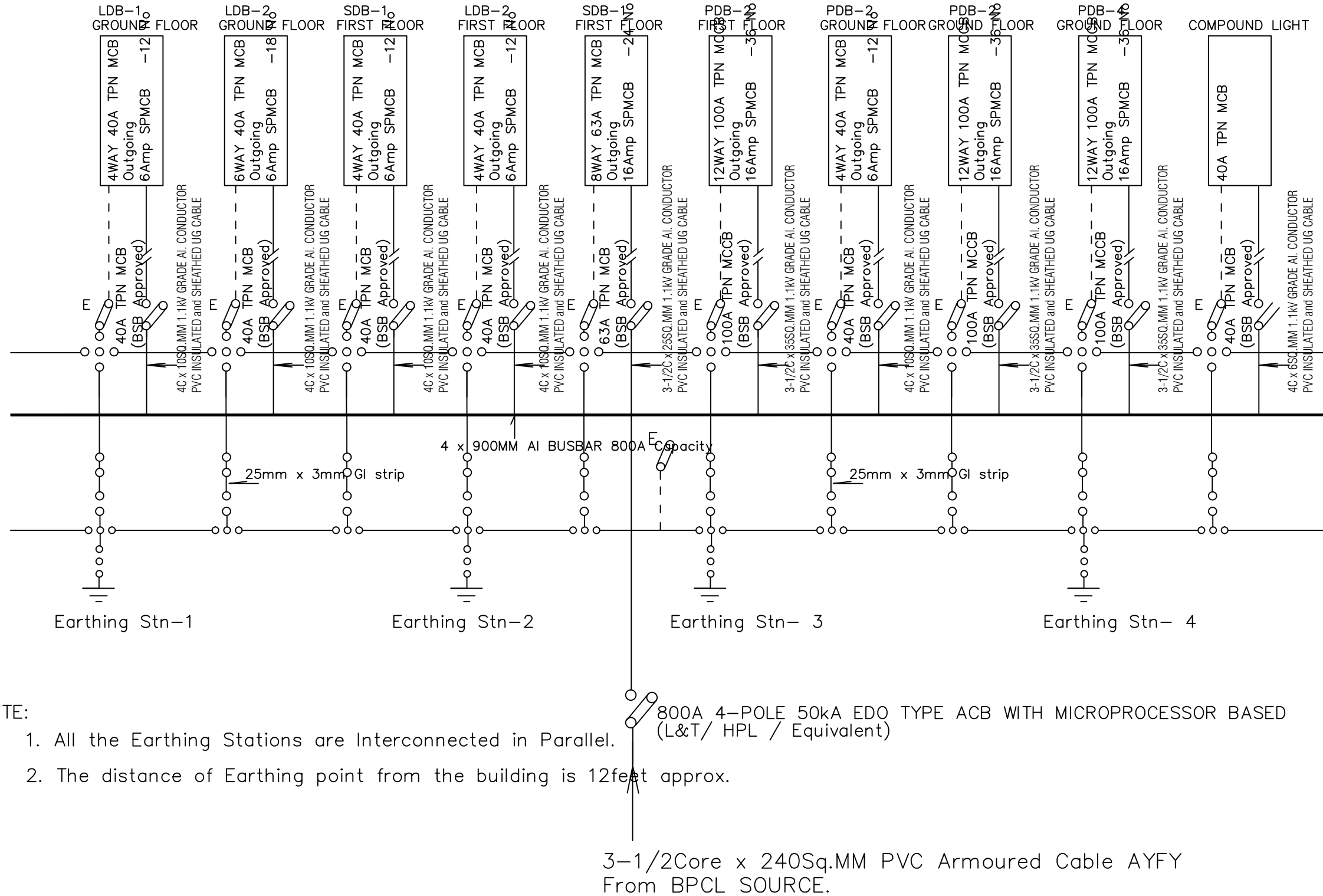
LEAPP Project Code

12246

Rev No.

R0

# MAIN CONTROL PANEL BOARD – GENERATOR SUPPLY



ROYAL GOVERNMENT OF BHUTAN  
DEPARTMENT OF CIVIL AVIATION

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Gyaltsen Consultancy

Project Title

BHUTAN DOMESTIC AIRPORT DESIGN & SUPERVISION  
GELEPHU AIRPORT SECURITY QUATERS

## No. Revision

No.	Revision	Date	By

## Drawing Title

Main control panel board: General supply

Scale 1 : 200 @ A3

Date December 2016

Drawn By S Tobgay, P Dorji & A Pradhan

Drawing Number

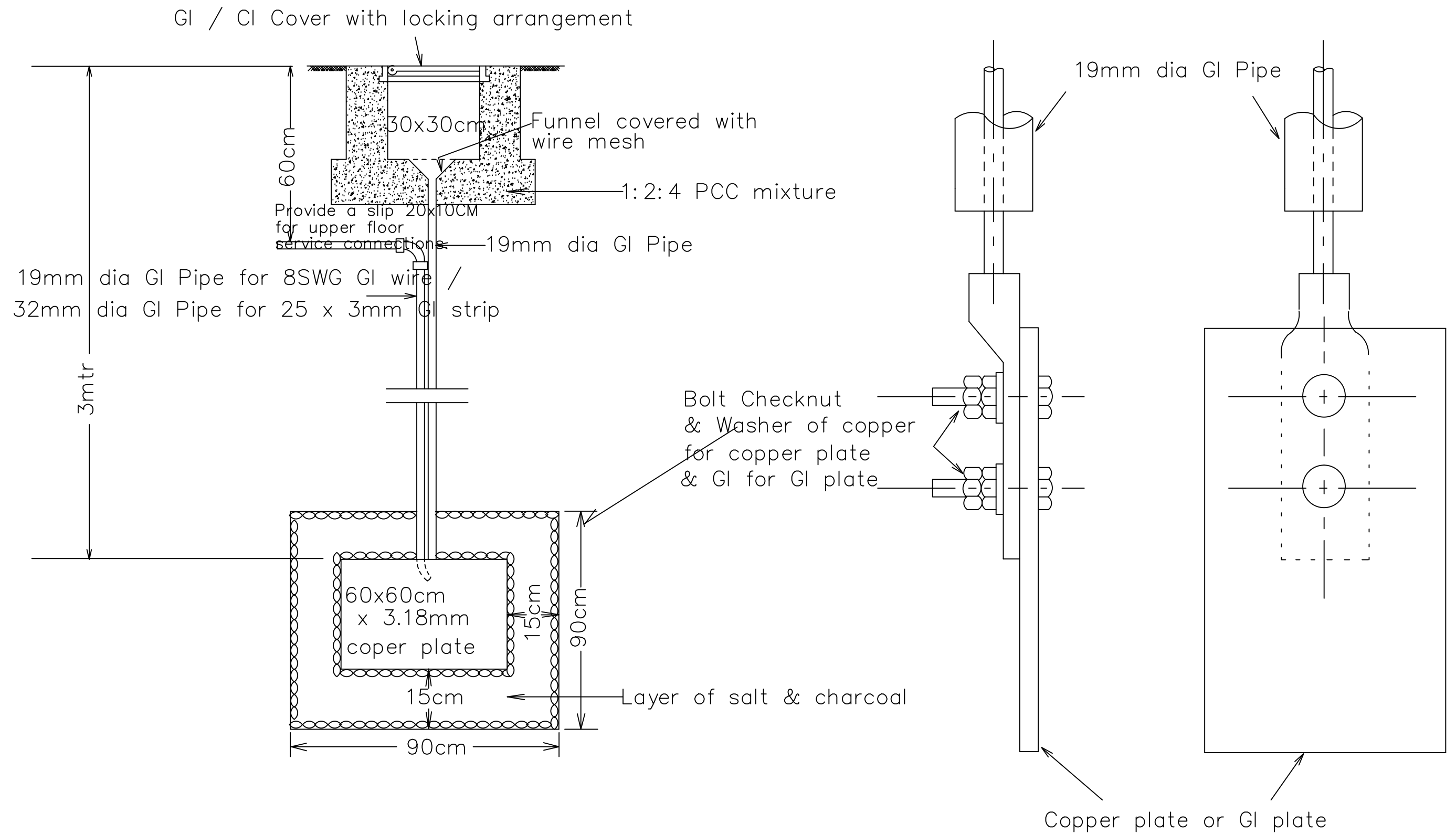
STR - 100

LEAPP Project Code

12246

Rev No.

R0



# EARTHING PLATE DIAGRAM



ROYAL GOVERNMENT OF BHUTAN  
DEPARTMENT OF CIVIL AVIATION

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BHUTAN DOMESTIC AIRPORT DESIGN & SUPERVISION  
GELEPHU AIRPORT SECURITY QUATERS

## No. / Revision

## Date By


## Drawing Title

Earthing plate diagram

Scale 1 : 200 @ A3

Date December 2016

Drawn By S Tobgay, P Dorji & A Pradhan

Drawing Number

STR - 100

LEAPP Project Code

12246

Rev No.

R0