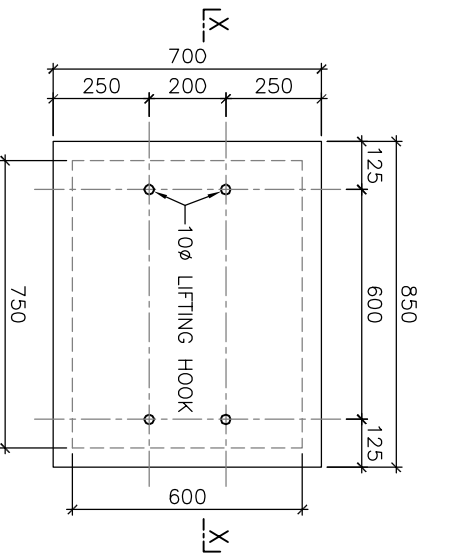


**SECTION A-A (033)**

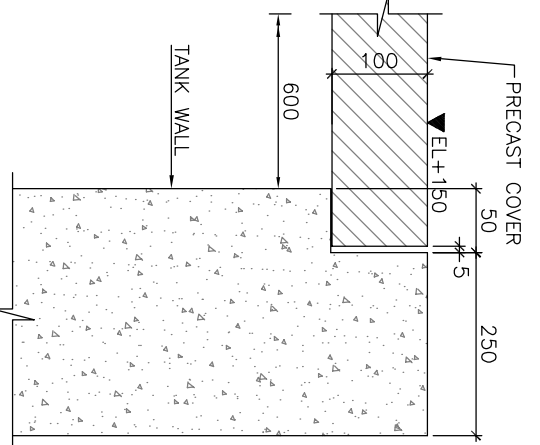
NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
3. GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500
5. PERIODIC QUALITY CONTROL TESTS MAY BE UNDERTAKEN BY THE CONTRACTOR AND RESULTS OF THE SAME SHALL BE MADE AVAILABLE AS AND WHEN REQUIRED. THE QUALITY OF THE CONSTRUCTION SHALL BE ENSURED BY THE CONTRACTOR AND THEY ARE ALSO RESPONSIBLE TO CARRY OUT THE CONSTRUCTION AS PER LATEST CONSTRUCTION DRAWINGS ISSUED BY THE CONSULTANT TIME TO TIME.

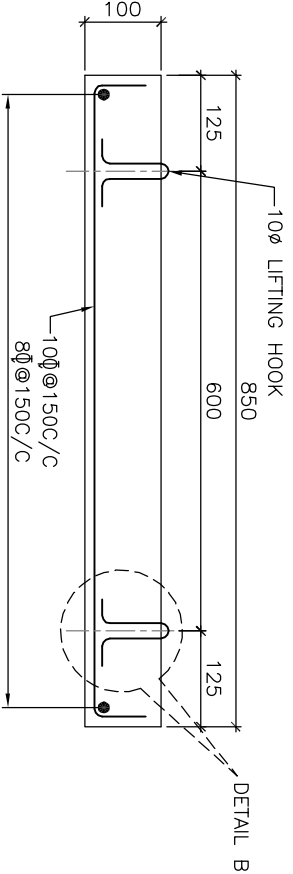
6. THESE DRAWINGS ARE THE PROPERTY OF M/S TATA CONSULTING ENGINEERS LIMITED. THOSE SHALL NOT BE COPIED, TRANSFERRED, MODIFIED OR USED FOR ANY PURPOSE OTHER THAN FOR THE PLANNING AND CONSTRUCTION OF "INTEGRATED COMMAND CONTROL CENTRE PROJECT AT PANJABARI, GUWAHATI"



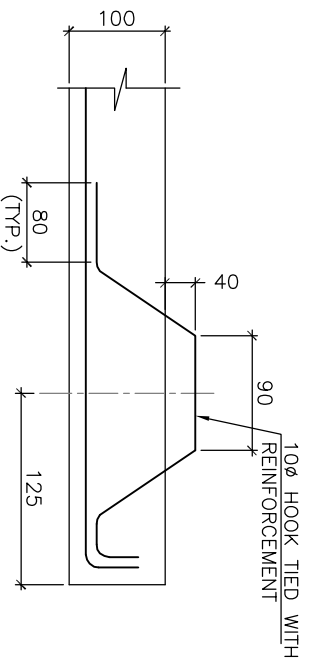
**DETAILS OF PRECAST CUTOUT COVER - PLAN**



**TYPICAL EDGE DETAIL**



**SECTION X-X**



**DETAIL B**

RELATED DRAWINGS:

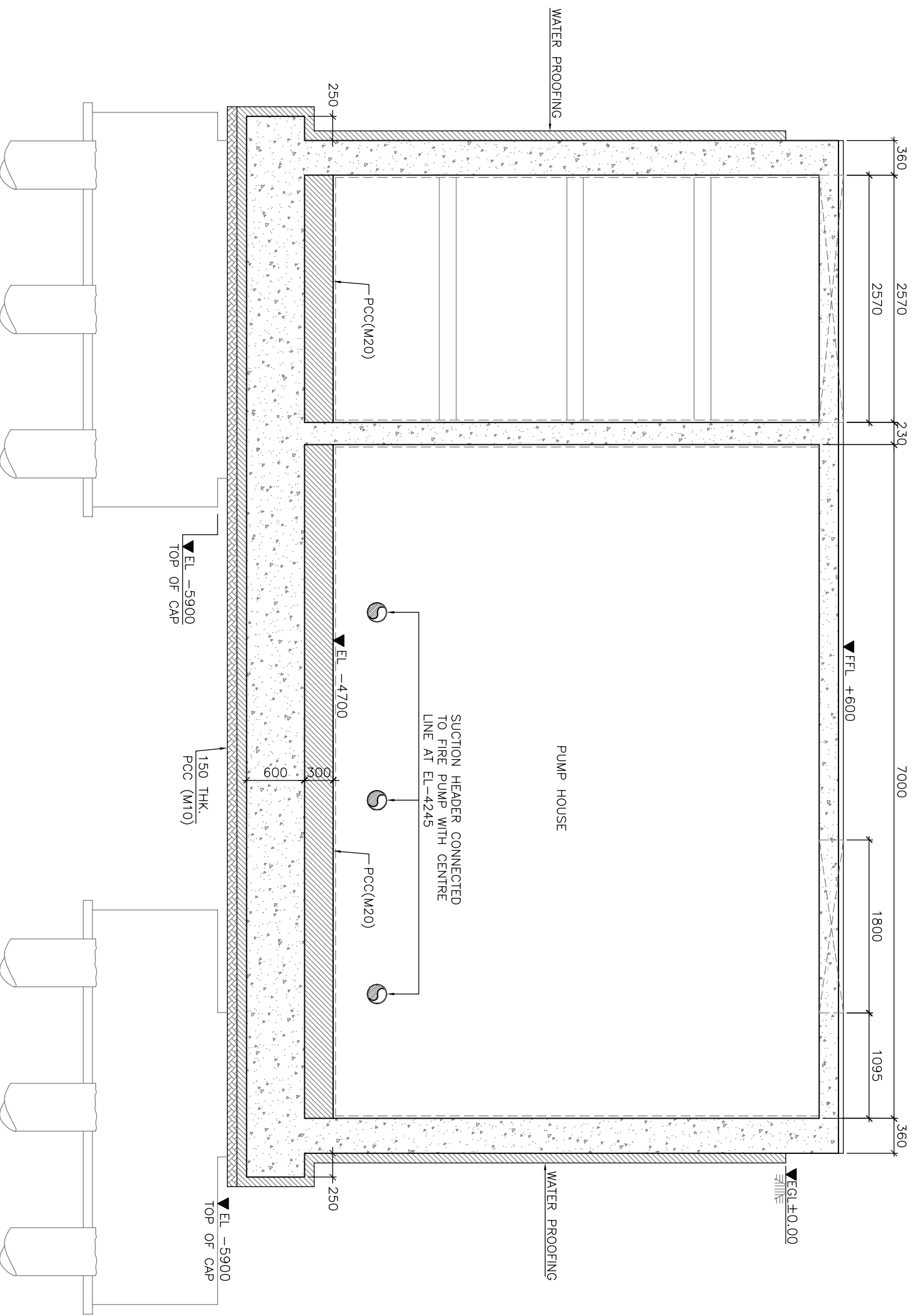
1. TCE.10477A-CV-1007-RC-1001
2. TCE.10477A-CV-1007-RC-1010
3. TCE.10477A-CV-1007-RC-1030
4. TCE.10477A-CV-1007-RC-1031
5. TCE.10477A-CV-1007-RC-1033
6. TCE.10477A-CV-1007-RC-1035
7. TCE.10477A-CV-1007-RC-1036

**TENDER PURPOSE ONLY**

7. DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-
  - a) VERTICAL FACES OF COLUMN, BEAM & WALL : 24 HOURS
  - b) SLAB
    - (i) SPANNING UP TO 4.5m : 7 DAYS
    - (ii) SPANNING OVER 4.5m : 14 DAYS
  - c) BEAM
    - (i) SPANNING UP TO 6.0m : 14 DAYS
    - (ii) SPANNING OVER 6.0m : 21 DAYS
8. CLEAR COVER TO THE MAIN REINFORCEMENT
  - a) FOUNDATION : 60mm
  - b) COLUMN UP TO PLINTH : 60mm
  - c) COLUMN ABOVE PLINTH : 40mm
  - d) BEAM : 25mm
  - e) WALL : 30mm
  - f) SLAB : 15-20mm
9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
11. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
12. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

GUWAHATI SMART CITY LIMITED														
SMART CITY MISSION GUWAHATI														
SRN														
INITIALS														
REVISIONS														
SRN									05.05.2020					
INITIALS														
ISSUE	DRN	DSN	CHD	CW	EL	IC	ME	PL	MD	EXT	LS	FE/PM	APPD	DATE

DETAILS OF 1,55,000 LIT. CAPACITY UG WATER TANK  
GENERAL ARRANGEMENT (SHEET 2 / 4)



**SECTION B-B (033)**

- RELATED DRAWINGS:
- TCE.10477A-CV-1007-RC-1001
  - TCE.10477A-CV-1007-RC-1010
  - TCE.10477A-CV-1007-RC-1030
  - TCE.10477A-CV-1007-RC-1031
  - TCE.10477A-CV-1007-RC-1033
  - TCE.10477A-CV-1007-RC-1034
  - TCE.10477A-CV-1007-RC-1036

- NOTES:
- ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
  - ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
  - GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
  - GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500
  - PERIODIC QUALITY CONTROL TESTS MAY BE UNDERTAKEN BY THE CONTRACTOR AND RESULTS OF THE SAME SHALL BE MADE AVAILABLE AS AND WHEN REQUIRED. THE QUALITY OF THE CONSTRUCTION SHALL BE ENSURED BY THE CONTRACTOR AND THEY ARE ALSO RESPONSIBLE TO CARRY OUT THE CONSTRUCTION AS PER LATEST CONSTRUCTION DRAWINGS ISSUED BY THE CONSULTANT TIME TO TIME.
  - THESE DRAWINGS ARE THE PROPERTY OF M/S TATA CONSULTING ENGINEERS LIMITED. THOSE SHALL NOT BE COPIED, TRANSFERRED, MODIFIED OR USED FOR ANY PURPOSE OTHER THAN FOR THE PLANNING AND CONSTRUCTION OF "INTEGRATED COMMAND CONTROL CENTRE PROJECT AT PANJABARI, GUWAHATI"
  - DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-
    - VERTICAL FACES OF COLUMN, BEAM & WALL : 24 HOURS
    - SLAB
      - SPANNING UP TO 4.5m : 7 DAYS
      - SPANNING OVER 4.5m : 14 DAYS
    - BEAM
      - SPANNING UP TO 6.0m : 14 DAYS
      - SPANNING OVER 6.0m : 21 DAYS
  - CLEAR COVER TO THE MAIN REINFORCEMENT
    - FOUNDATION : 60mm
    - COLUMN UP TO PLINTH : 60mm
    - COLUMN ABOVE PLINTH : 40mm
    - BEAM : 25mm
    - WALL : 30mm
    - SLAB : 15-20mm
  - LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
  - NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
  - ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

**TENDER PURPOSE ONLY**

SRNO	INITIALS	REVISIONS	DATE

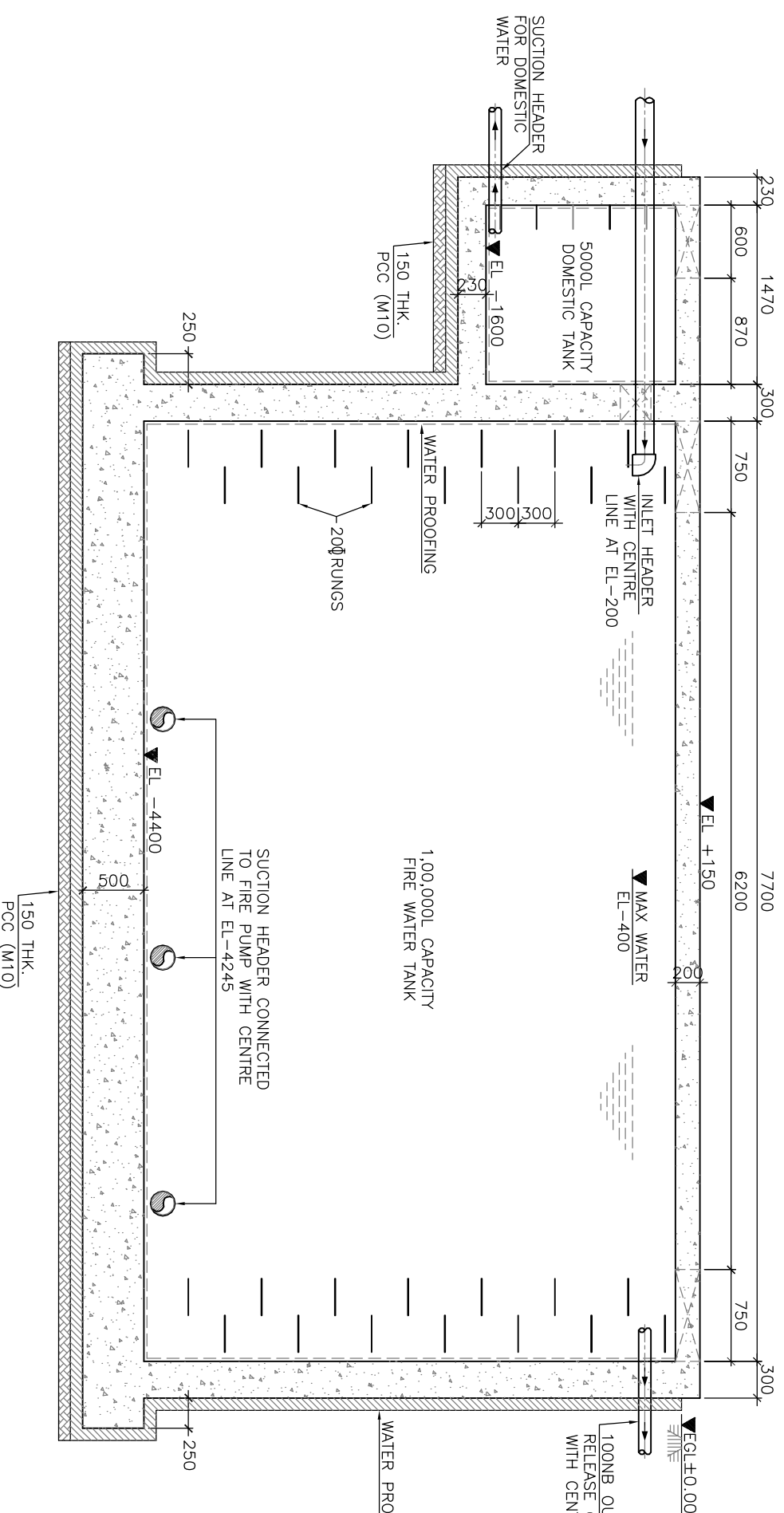
ISSUE	DRN	DSN	CHD	CV	EL	IC	ME	PL	HM	EXT	LS	FE/PM	APPD	DATE

**GUWAHATI SMART CITY LIMITED**  
SMART CITY MISSION GUWAHATI

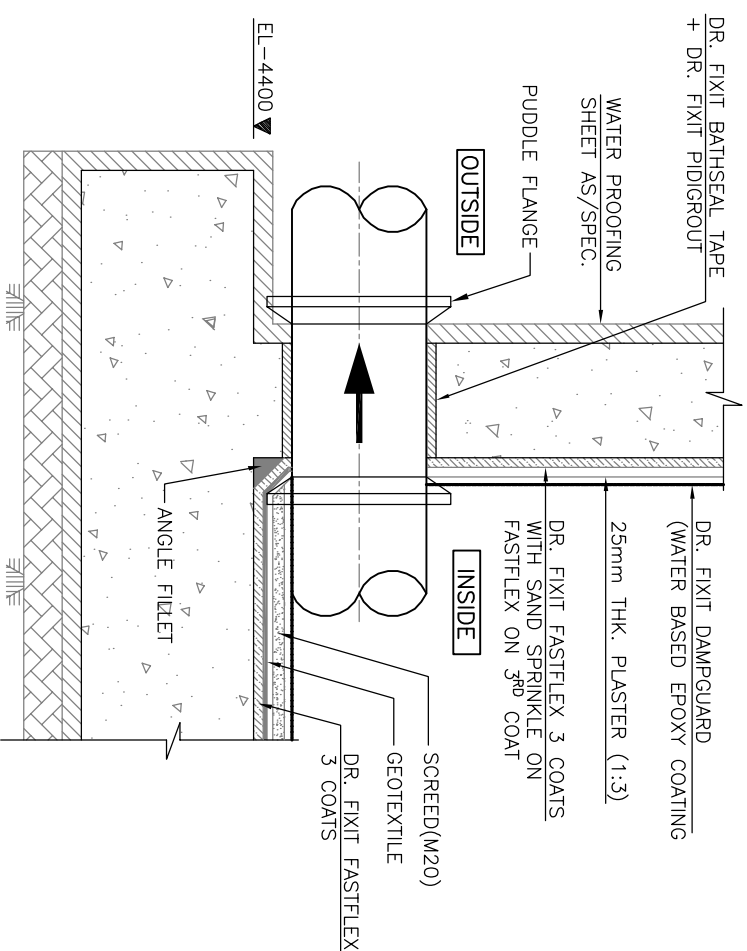
DETAILS OF 1,55,000 LIT. CAPACITY UG WATER TANK  
GENERAL ARRANGEMENT (SHEET 3 / 4)

**TATA CONSULTING ENGINEERS LIMITED**  
MUMBAI

SCALE : AS NOTED  
TCE.10477A-CV-1007-RC-1035  
ISSUE RO



**SECTION C-C (033)**



**TYPICAL DETAIL OF  
INTERNAL WATER PROOFING**

- RELATED DRAWINGS:
1. TCE:10477A-CV-1007-RC-1001
  2. TCE:10477A-CV-1007-RC-1010
  3. TCE:10477A-CV-1007-RC-1030
  4. TCE:10477A-CV-1007-RC-1031
  5. TCE:10477A-CV-1007-RC-1033
  6. TCE:10477A-CV-1007-RC-1034
  7. TCE:10477A-CV-1007-RC-1035

- NOTES:
1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
  2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
  3. GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
  4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500
  5. PERIODIC QUALITY CONTROL TESTS MAY BE UNDERTAKEN BY THE CONTRACTOR AND RESULTS OF THE SAME SHALL BE MADE AVAILABLE AS AND WHEN REQUIRED. THE QUALITY OF THE CONSTRUCTION SHALL BE ENSURED BY THE CONTRACTOR AND THEY ARE ALSO RESPONSIBLE TO CARRY OUT THE CONSTRUCTION AS PER LATEST CONSTRUCTION DRAWINGS ISSUED BY THE CONSULTANT TIME TO TIME.
  6. THESE DRAWINGS ARE THE PROPERTY OF M/S TATA CONSULTING ENGINEERS LIMITED. THOSE SHALL NOT BE COPIED, TRANSFERRED, MODIFIED OR USED FOR ANY PURPOSE OTHER THAN FOR THE PLANNING AND CONSTRUCTION OF "INTEGRATED COMMAND CONTROL CENTRE PROJECT AT PANABARI, GUWAHATI"
  7. DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-
 

a) VERTICAL FACES OF COLUMN, BEAM & WALL	:	24 HOURS
b) SLAB	(i) SPANNING UP TO 4.5m	: 7 DAYS
	(ii) SPANNING OVER 4.5m	: 14 DAYS
c) BEAM	(i) SPANNING UP TO 6.0m	: 14 DAYS
	(ii) SPANNING OVER 6.0m	: 21 DAYS
  8. CLEAR COVER TO THE MAIN REINFORCEMENT
 

a) FOUNDATION	:	60mm
b) COLUMN UP TO PLINTH	:	60mm
c) COLUMN ABOVE PLINTH	:	40mm
d) BEAM	:	25mm
e) WALL	:	30mm
f) SLAB	:	15-20mm
  9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
  10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
  11. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
  12. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
  13. THE WATER PROOFING MATERIAL INSIDE THE TANK SHALL BE OF DR. FIXIT OR ITS EQUIVALENT, AS APPROVED BY THE ENGINEER-IN-CHARGE

**TENDER PURPOSE ONLY**

SIGN	REVISIONS	DATE													
INITIALS															
SIGN		05.05.2020													
INITIALS															
ISSUE	DRN	DSN	CHD	CV	EL	IC	ME	PL	MD	EXT	LS	FE	PM	APPD	DATE

**GUWAHATI SMART CITY LIMITED**  
SMART CITY MISSION GUWAHATI  
MUMBAI

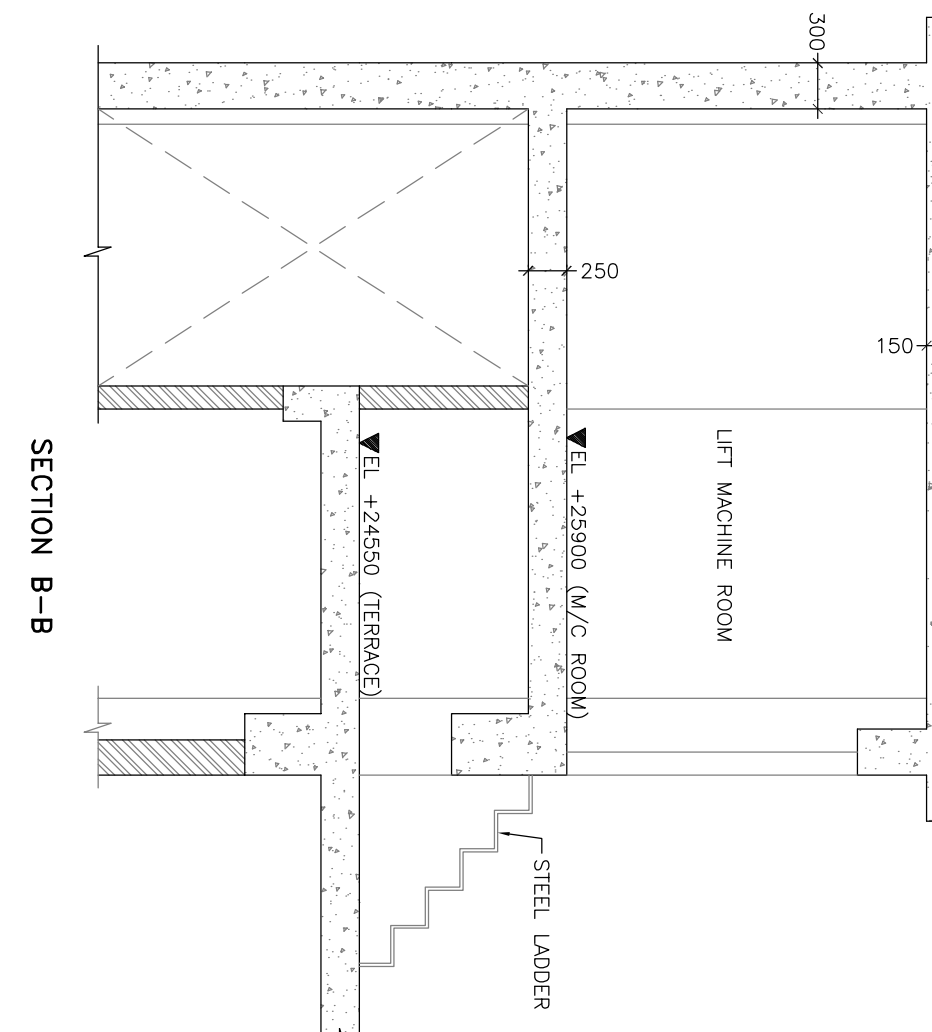
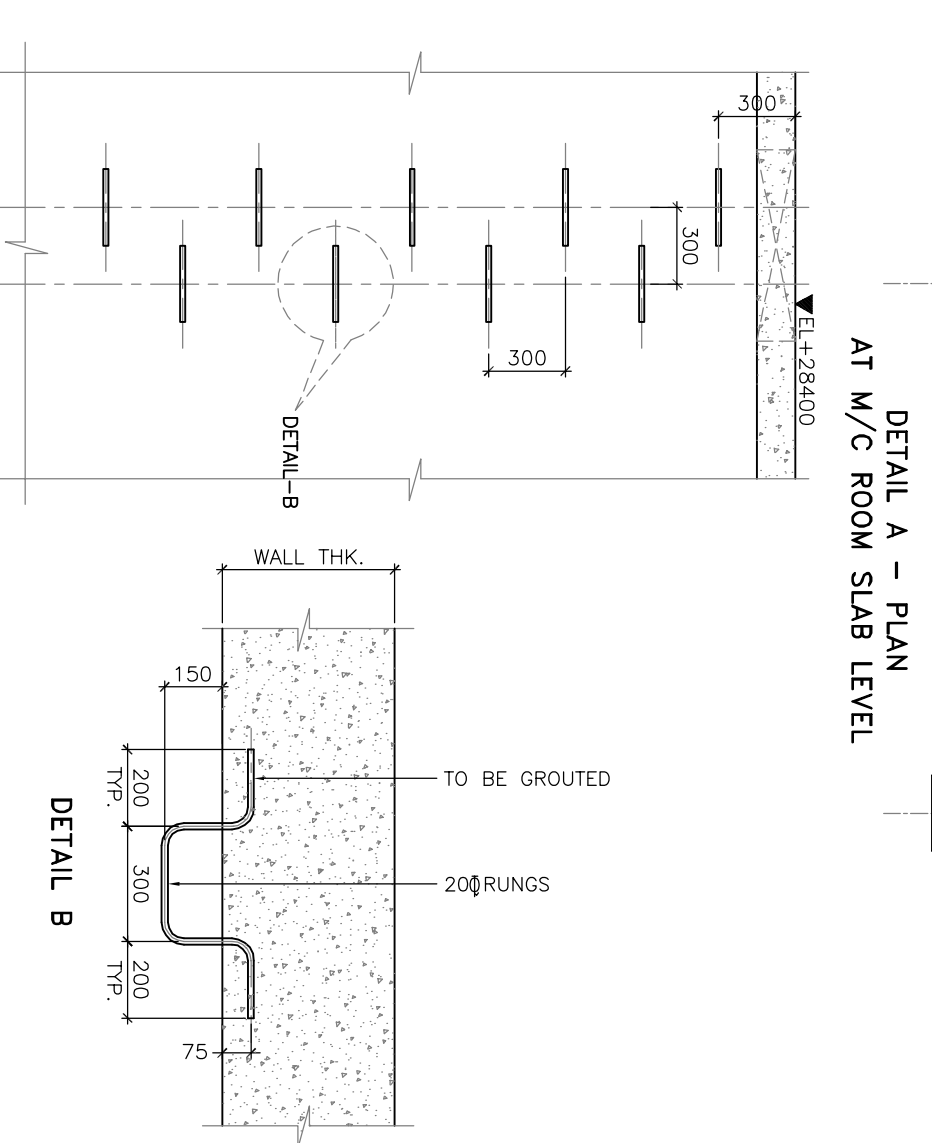
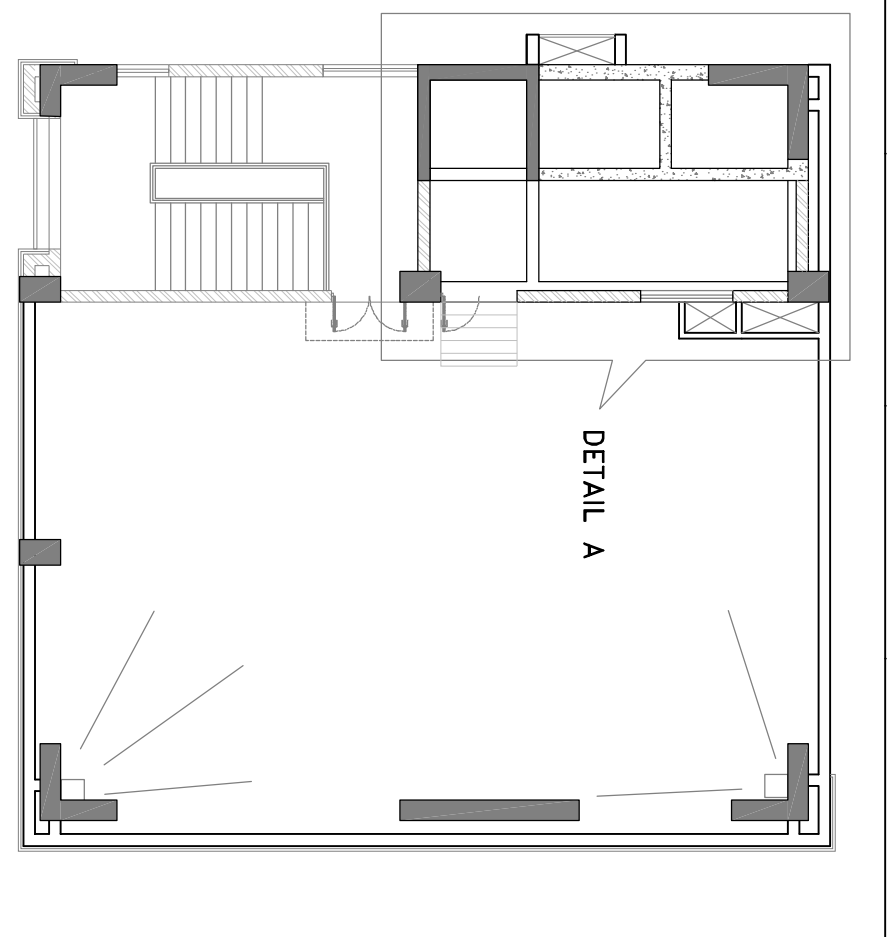
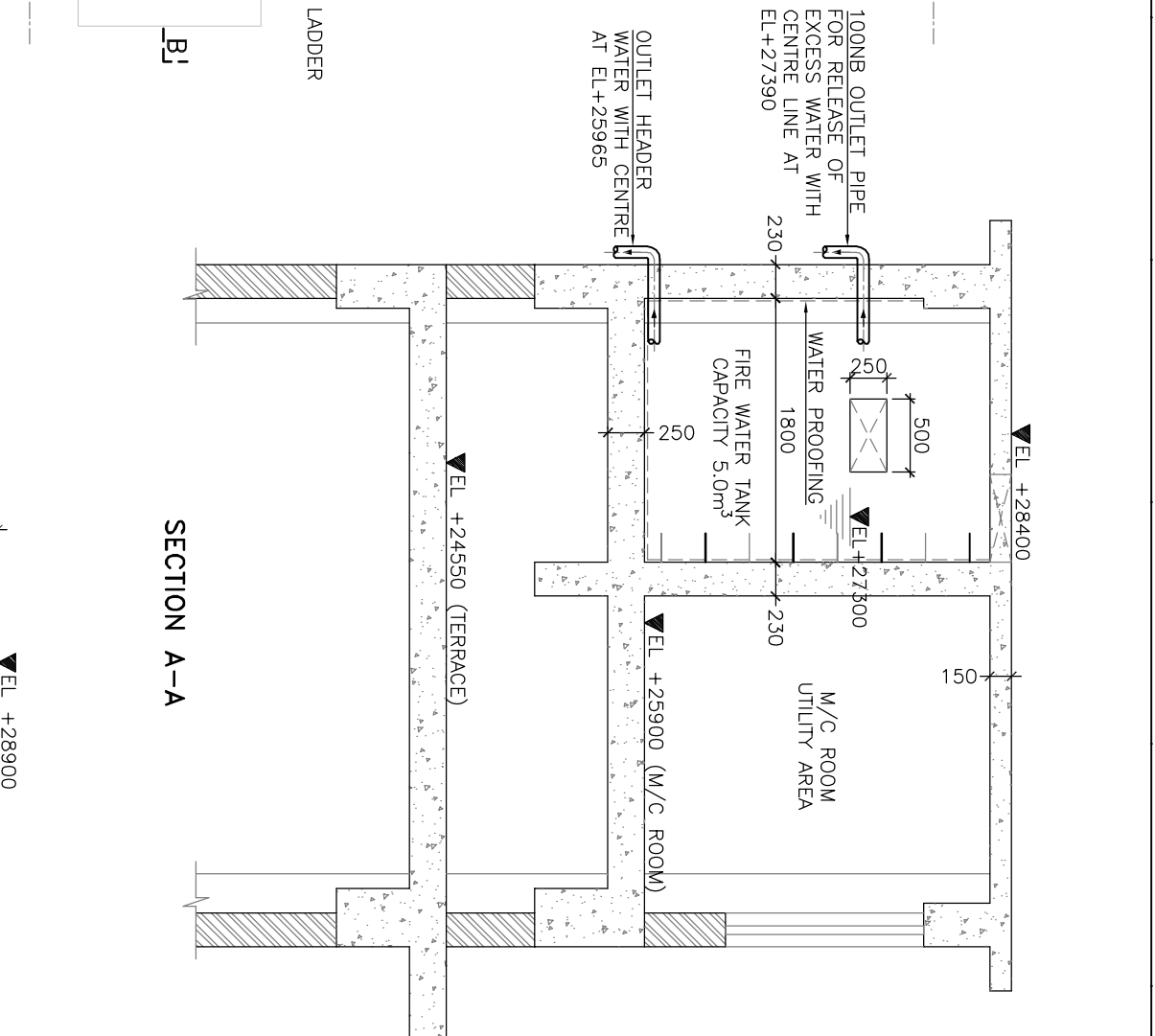
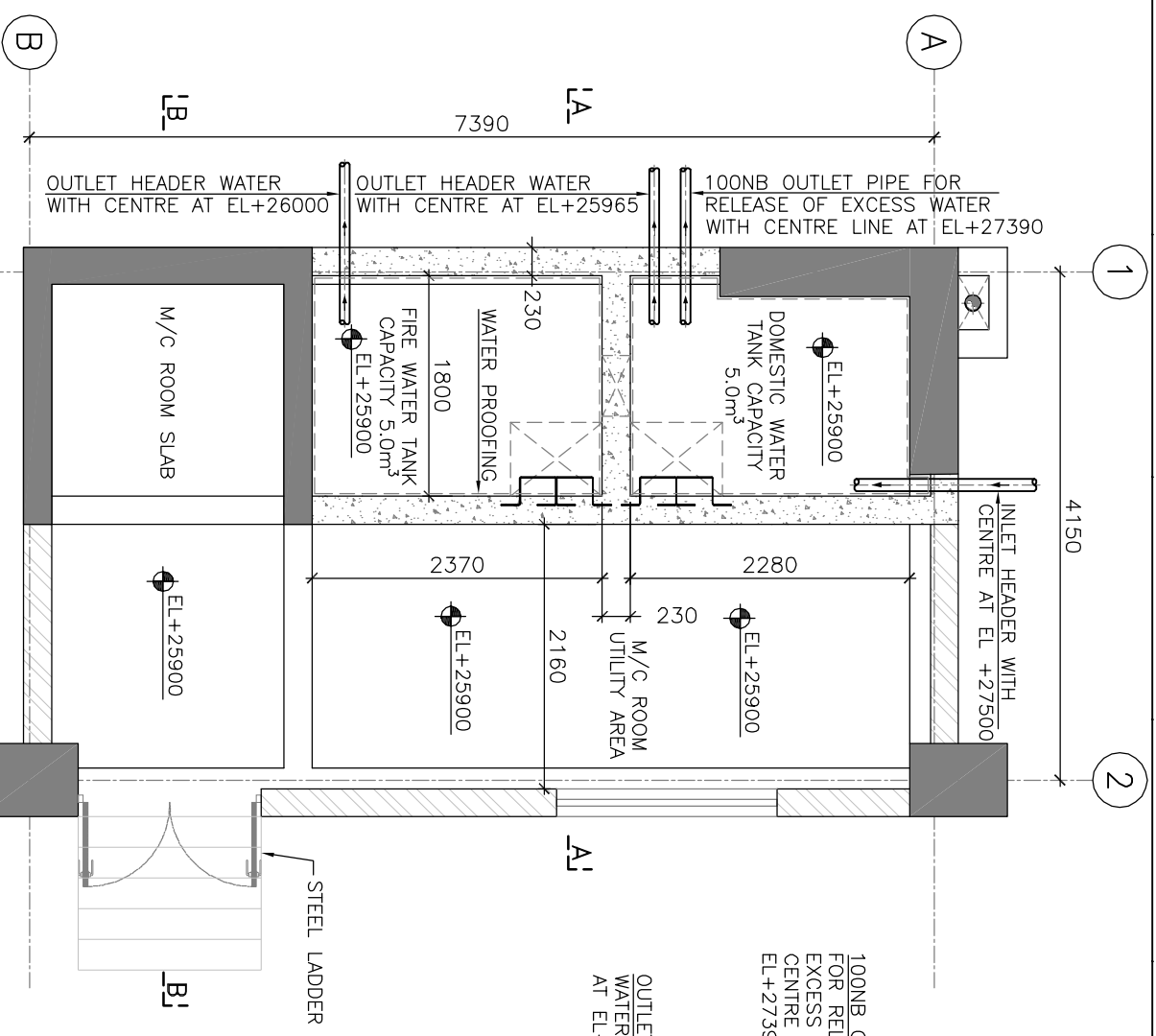
DETAILS OF 1,55,000 LIT. CAPACITY UG WATER TANK  
GENERAL ARRANGEMENT (SHEET 4 / 4)

**TATA CONSULTING ENGINEERS LIMITED**  
MUMBAI

SCALE : AS NOTED DWG NO: TCE.10477A-CV-1007-RC-1036

SCALE : AS NOTED DWG NO: TCE.10477A-CV-1007-RC-1036

ISSUE RO



DETAIL A - PLAN  
AT M/C ROOM SLAB LEVEL

SECTION A-A

SECTION B-B

- RELATED DRAWINGS:
1. TCE.10477A-CV-1007-RC-1001
  2. TCE.10477A-CV-1007-RC-1022
  3. TCE.10477A-CV-1007-RC-1029

- NOTES:
1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
  2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
  3. GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
  4. GRADE OF REINFORCEMENT STEEL SHALL BE OF F500

**TENDER PURPOSE ONLY**

SRN	INITIALS	REVISIONS	SRN	DATE

ISSUE	DRN	DSN	CHD	IC	ME	PL	MG	EXT	LS	FE/PM	APPD	DATE
CLEANED												

GUWAHATI SMART CITY LIMITED  
SMART CITY MISSION GUWAHATI

DETAILS OF 10000 L CAPACITY OVERHEAD WATER TANK  
GENERAL ARRANGMENT

TATA CONSULTING ENGINEERS LIMITED  
MUMBAI

SCALE : N.T.S.  
DATE: TCE.10477A-CV-1007-RC-1037

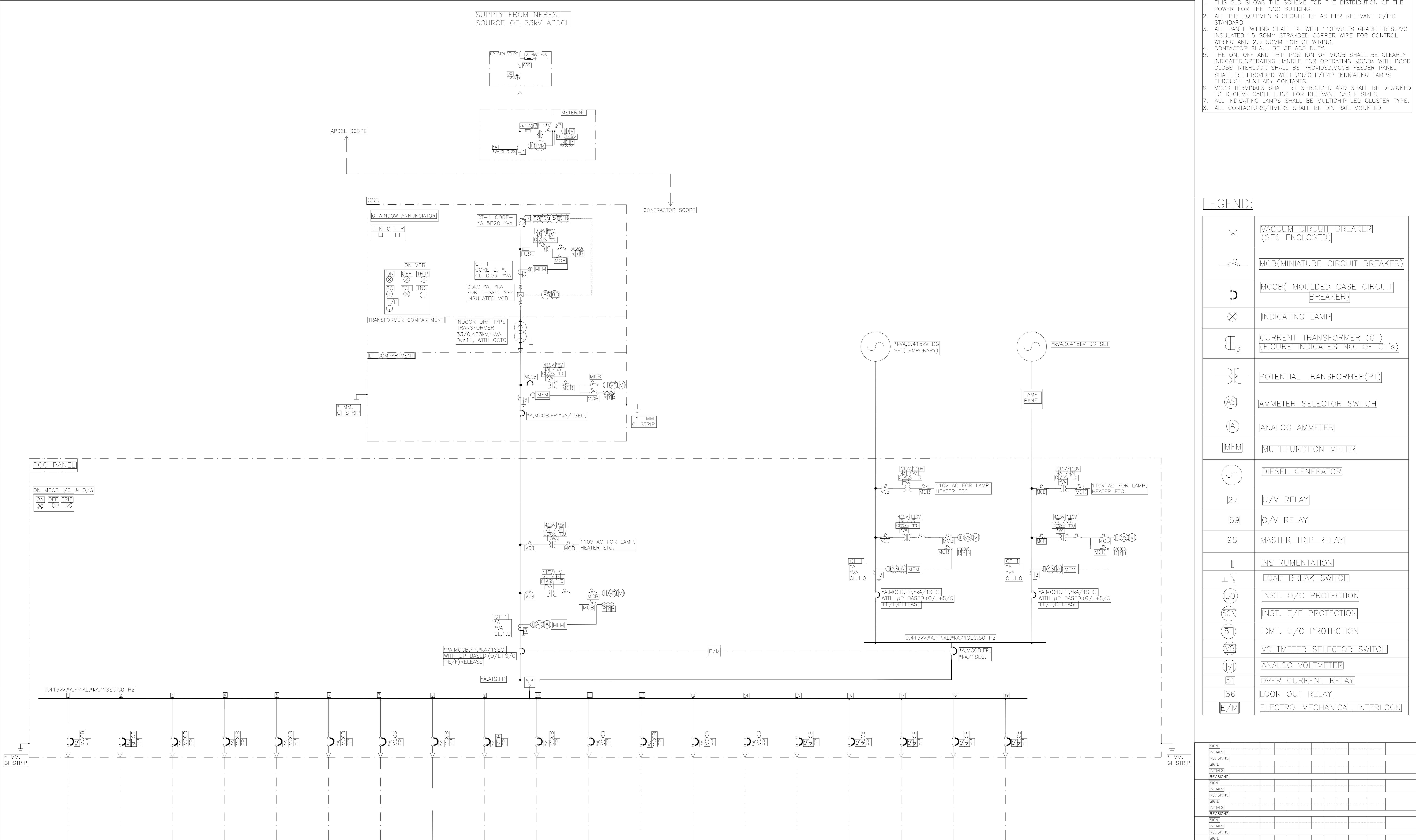
ISSUE RO

# **ELECTRICAL DRAWINGS**

- GENERAL NOTES**
- THIS SLD SHOWS THE SCHEME FOR THE DISTRIBUTION OF THE POWER FOR THE ICCB BUILDING.
  - ALL THE EQUIPMENTS SHOULD BE AS PER RELEVANT IS/IEC STANDARD
  - ALL PANEL WIRING SHALL BE WITH 1100VOLTS GRADE FRLS,PVC INSULATED,1.5 SQMM STRANDED COPPER WIRE FOR CONTROL WIRING AND 2.5 SQMM FOR CT WIRING.
  - CONTACTOR SHALL BE OF AC3 DUTY.
  - THE ON, OFF AND TRIP POSITION OF MCCB SHALL BE CLEARLY INDICATED.OPERATING HANDLE FOR OPERATING MCCBS WITH DOOR CLOSE INTERLOCK SHALL BE PROVIDED.MCCB FEEDER PANEL SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS.
  - MCCB TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT CABLE SIZES.
  - ALL INDICATING LAMPS SHALL BE MULTICHIP LED CLUSTER TYPE.
  - ALL CONTACTORS/TIMERS SHALL BE DIN RAIL MOUNTED.

**LEGEND:**

	VACUUM CIRCUIT BREAKER (SF6 ENCLOSED)
	MCCB(MINIATURE CIRCUIT BREAKER)
	MCCB( MOULDED CASE CIRCUIT BREAKER)
	INDICATING LAMP
	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)
	POTENTIAL TRANSFORMER(PT)
	AMMETER SELECTOR SWITCH
	ANALOG AMMETER
	MULTIFUNCTION METER
	DIESEL GENERATOR
	U/V RELAY
	O/V RELAY
	MASTER TRIP RELAY
	INSTRUMENTATION
	LOAD BREAK SWITCH
	INST. O/C PROTECTION
	INST. E/F PROTECTION
	DMT. O/C PROTECTION
	VOLTMETER SELECTOR SWITCH
	ANALOG VOLTMETER
	OVER CURRENT RELAY
	LOOK OUT RELAY
	ELECTRO-MECHANICAL INTERLOCK



LOAD DESCRIPTION	SERVER UPS	W/S UPS	MULTIB	VVFB	EMERGENCY LBS	SERVER UPS	W/S UPS	MULTIB	VVFB	PAINT PLANT	WATER PUMP PANEL	ALH PANEL	EV CHARGER	SPARE	SPARE	SPARE	PAFC PANEL	PAVAC/DB	PAVAC/DB	
MM. GI STRIP	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB	MCB

NO.	DATE	DESCRIPTION	BY	CHKD

**DO NOT SCALE**

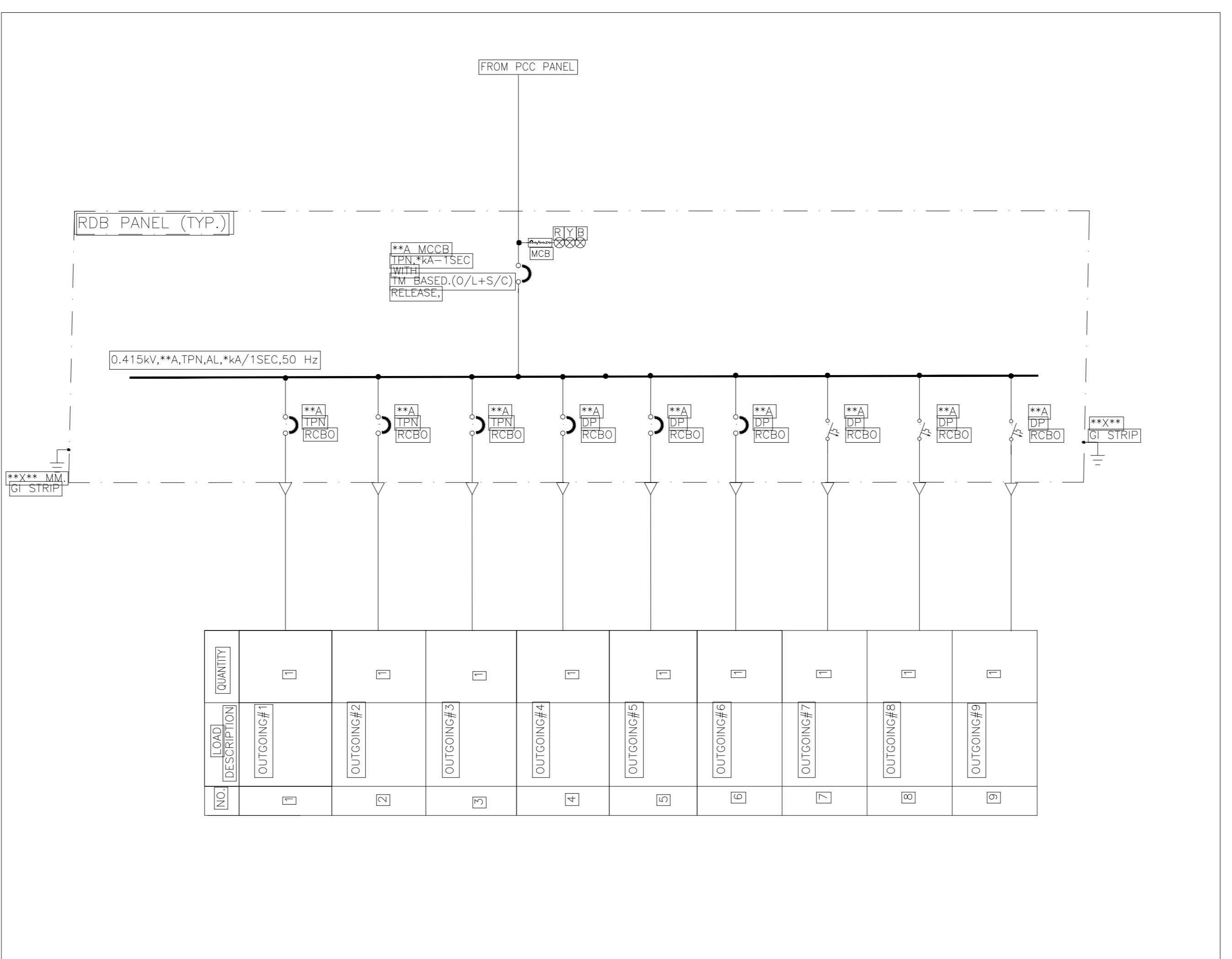
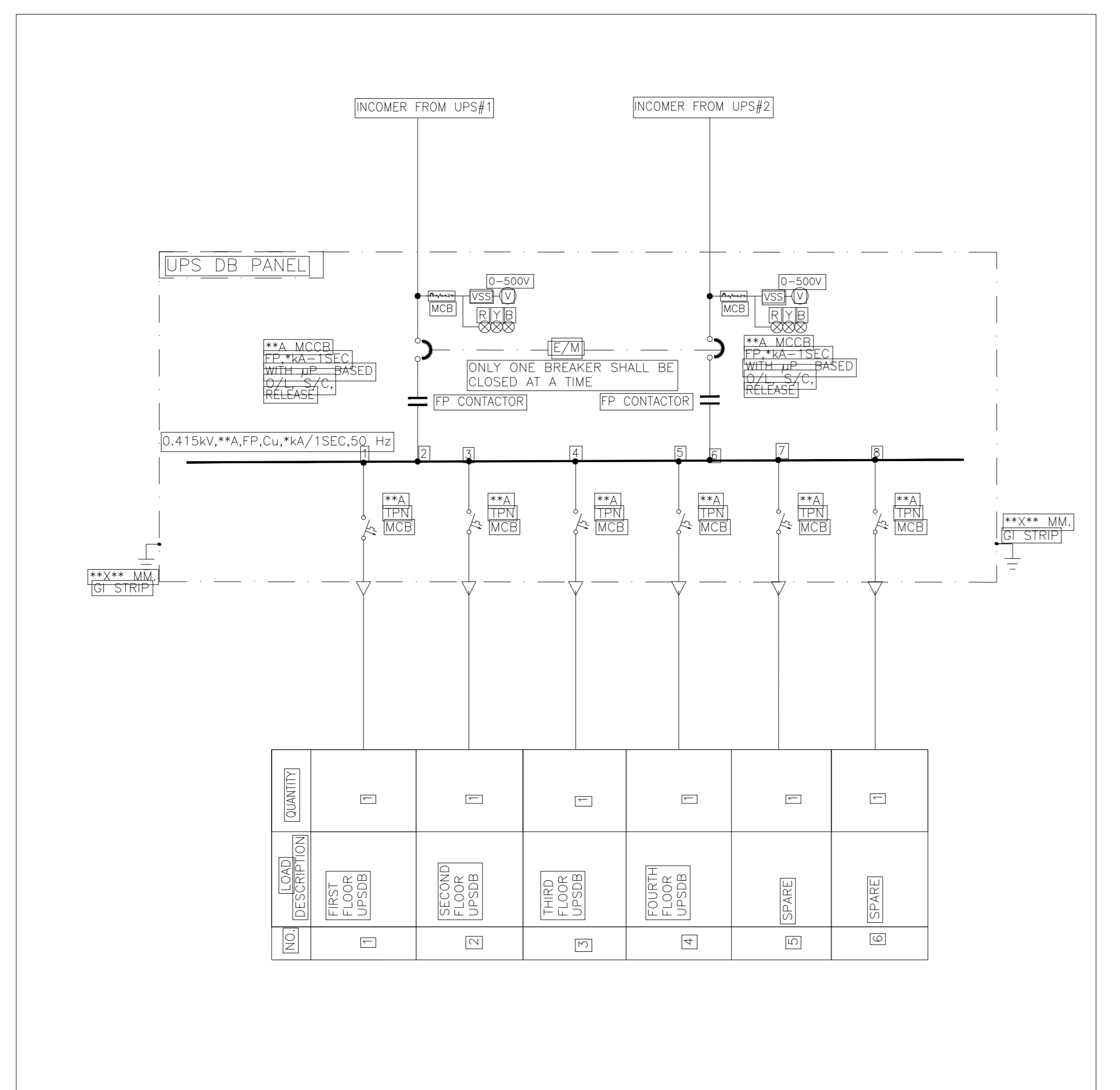
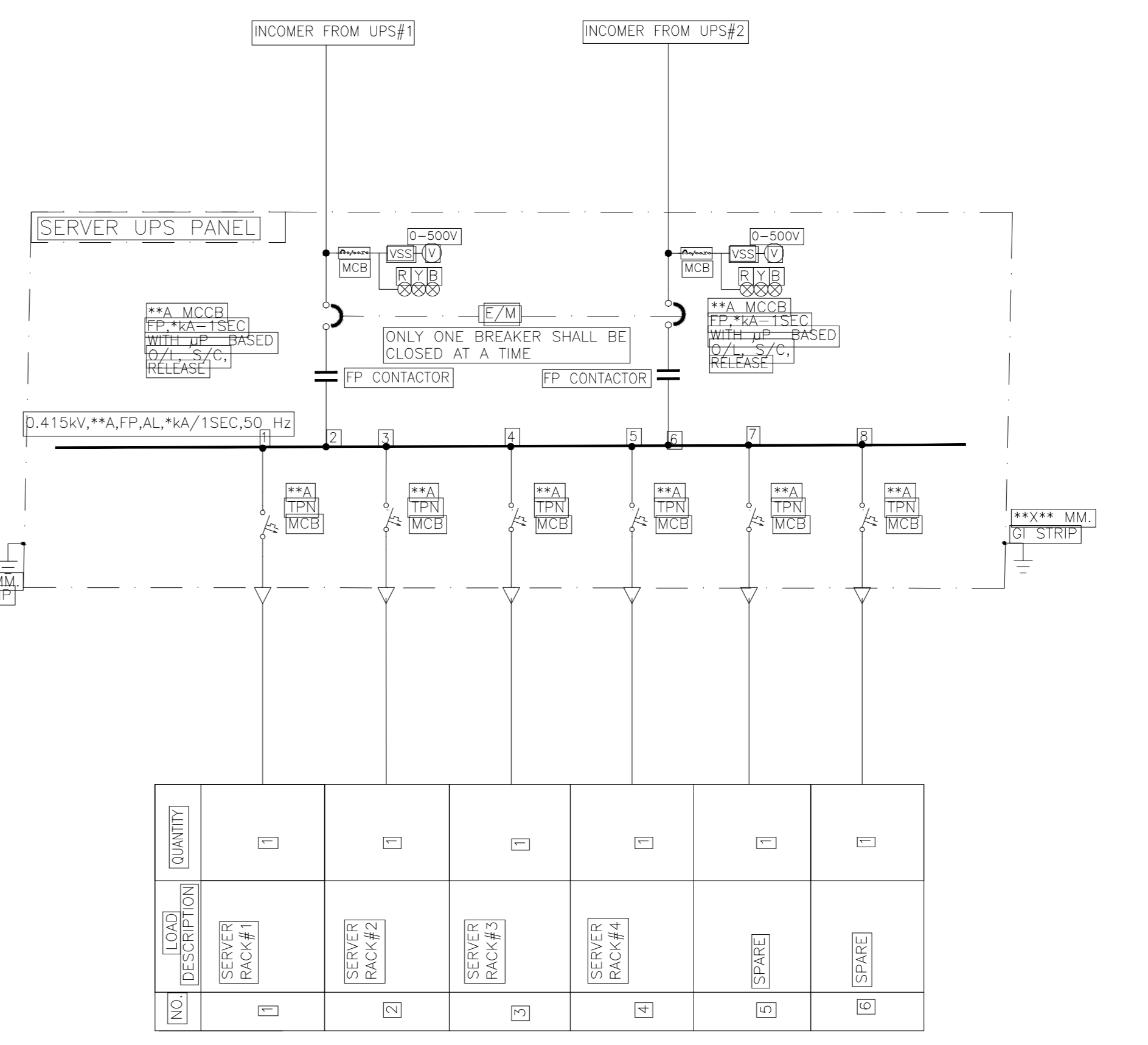
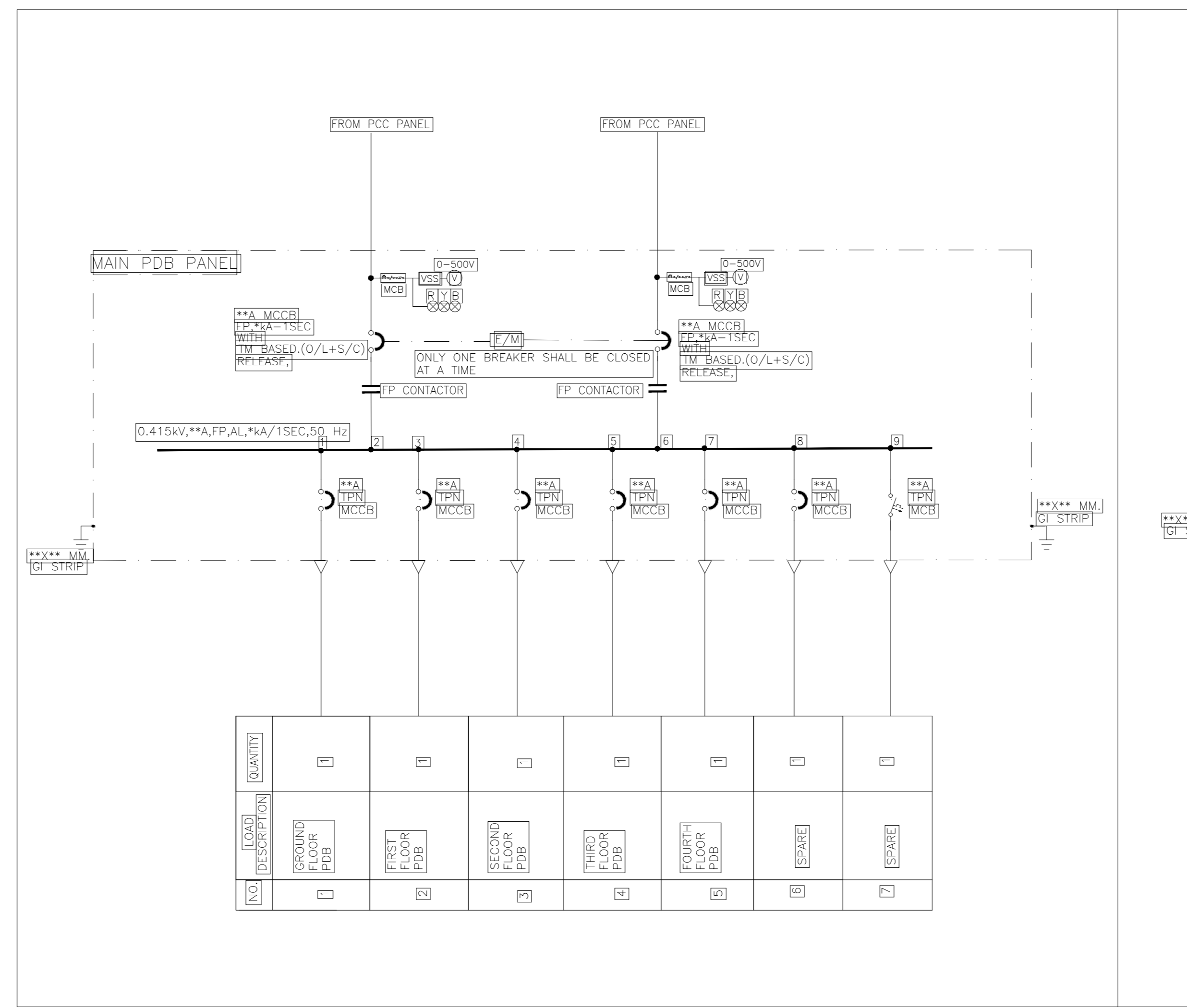
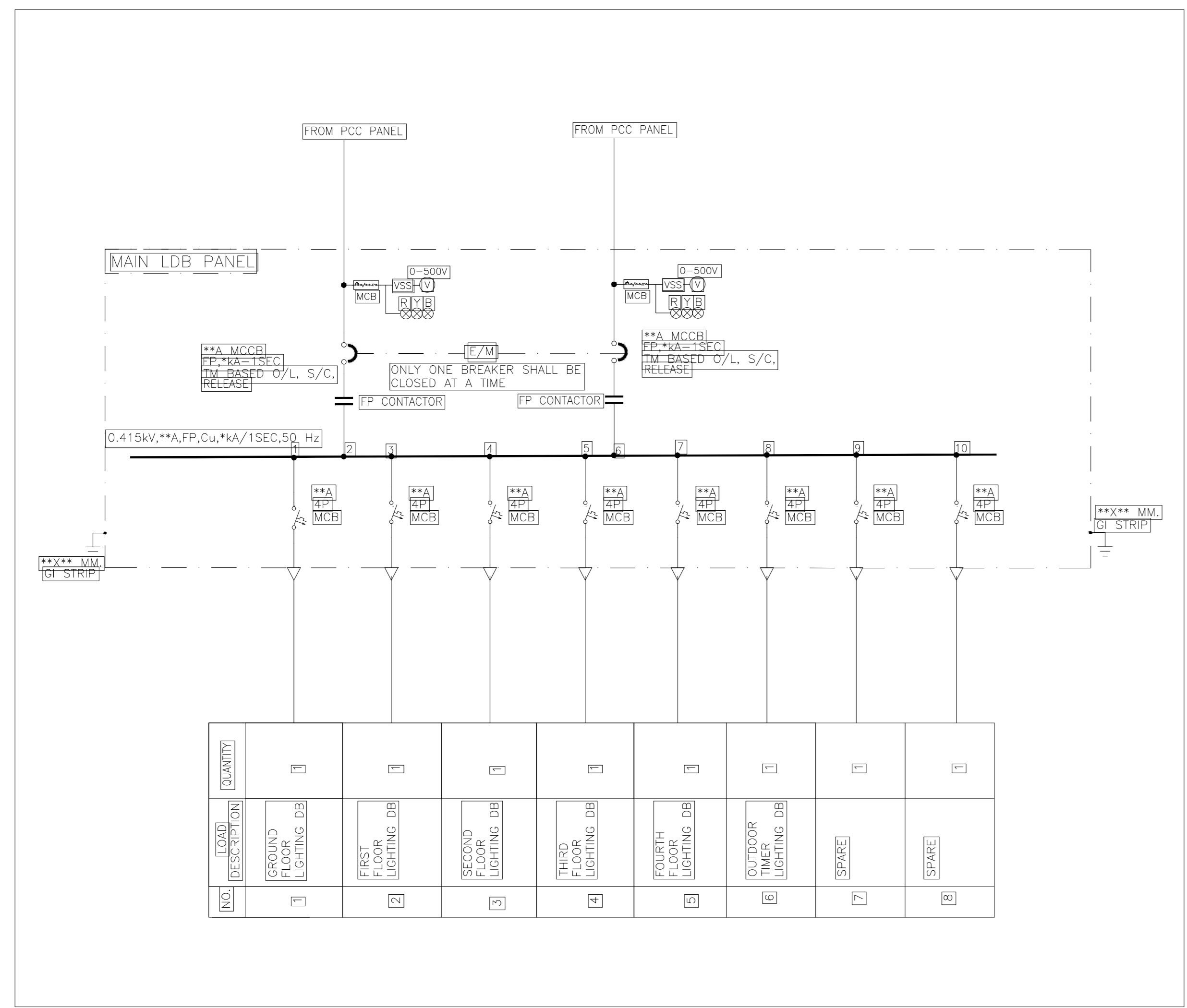
GOWAHATI SMART CITY LIMITED

SINGLE LINE DIAGRAM FOR ICCB BUILDING  
(SHEET 1 OF 3)

**TATA CONSULTING ENGINEERS LIMITED**

SCALE: 1:500

FILE NAME: TCE:10477A-EL-40002-REV-PO



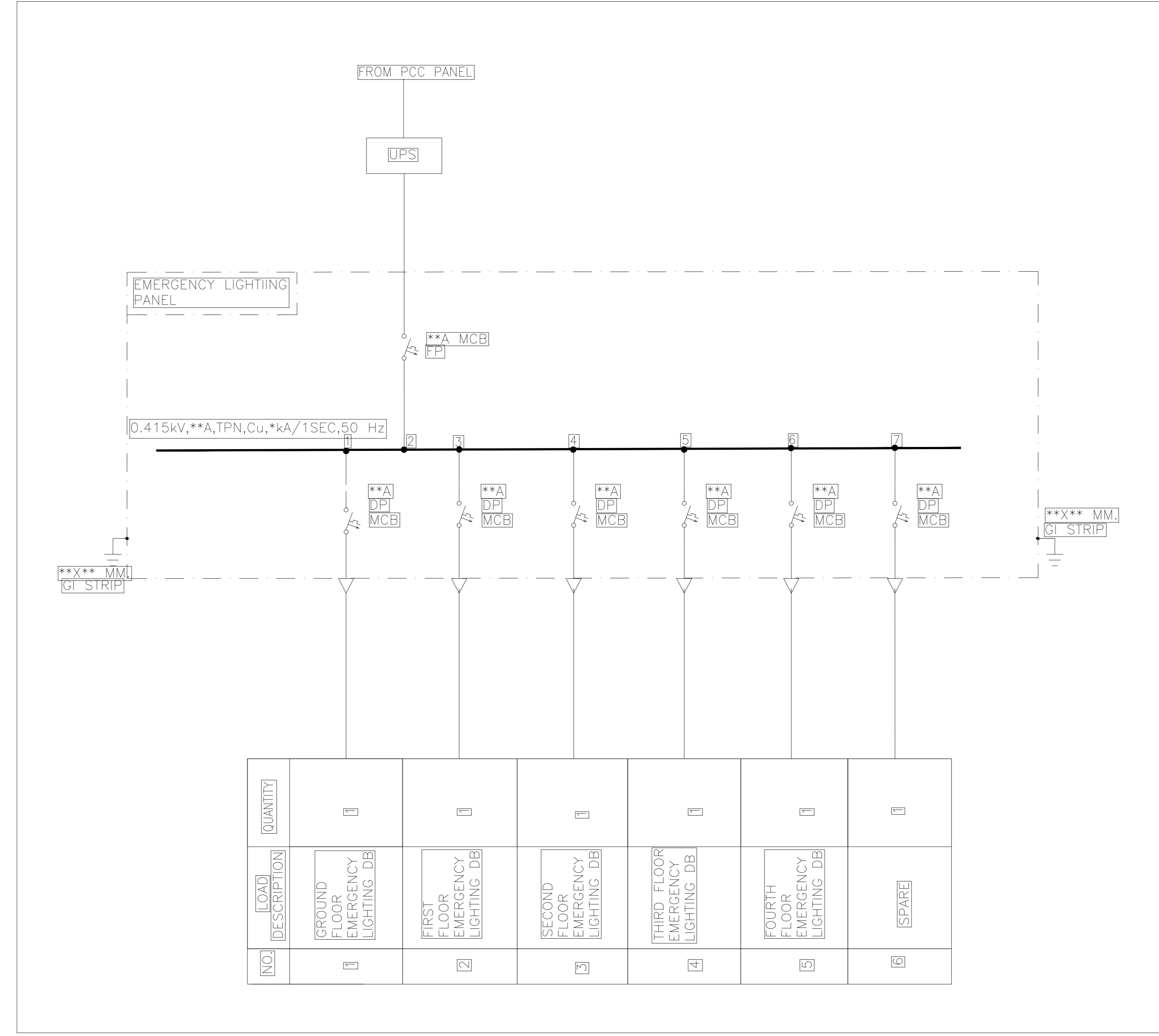
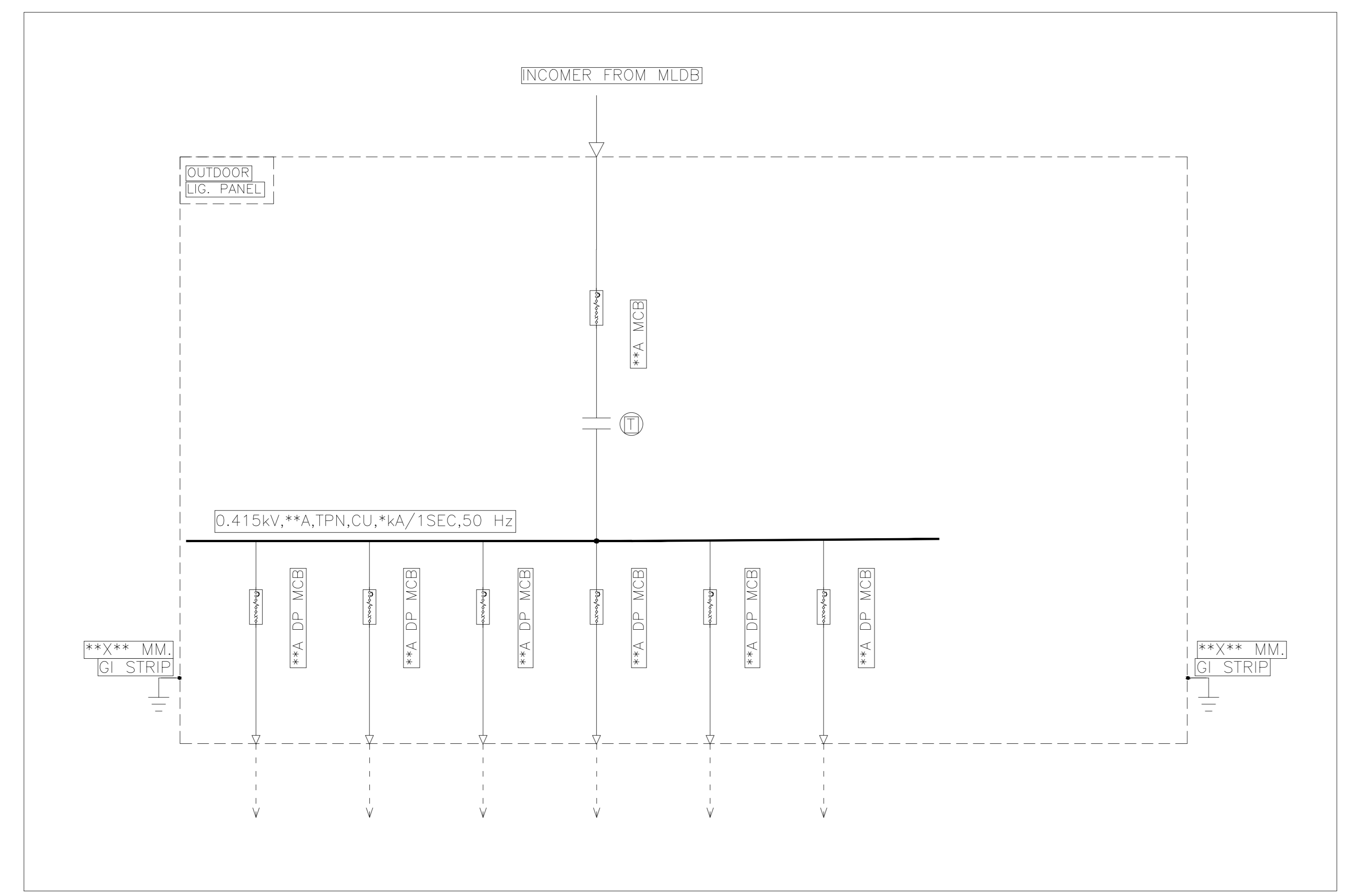
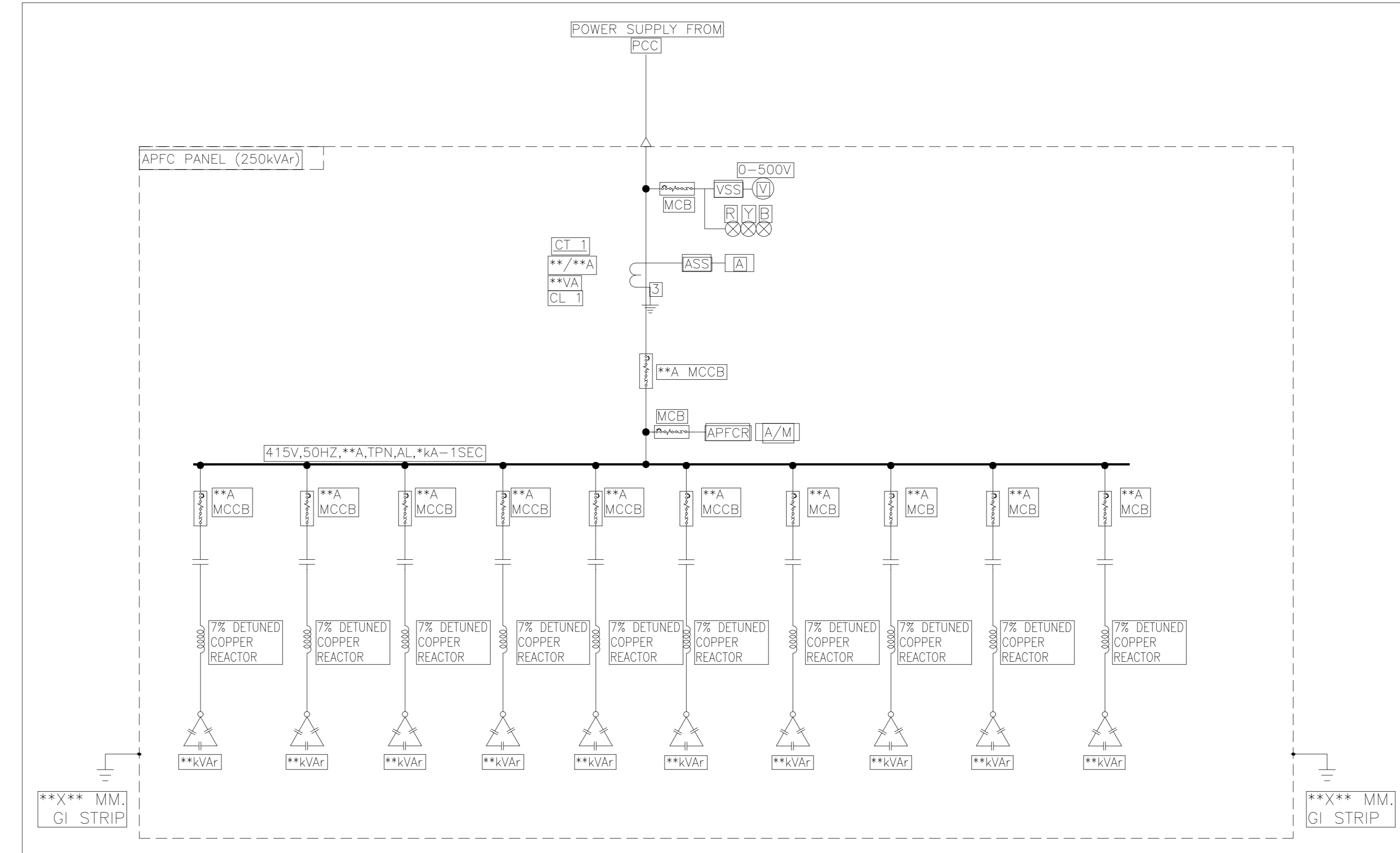
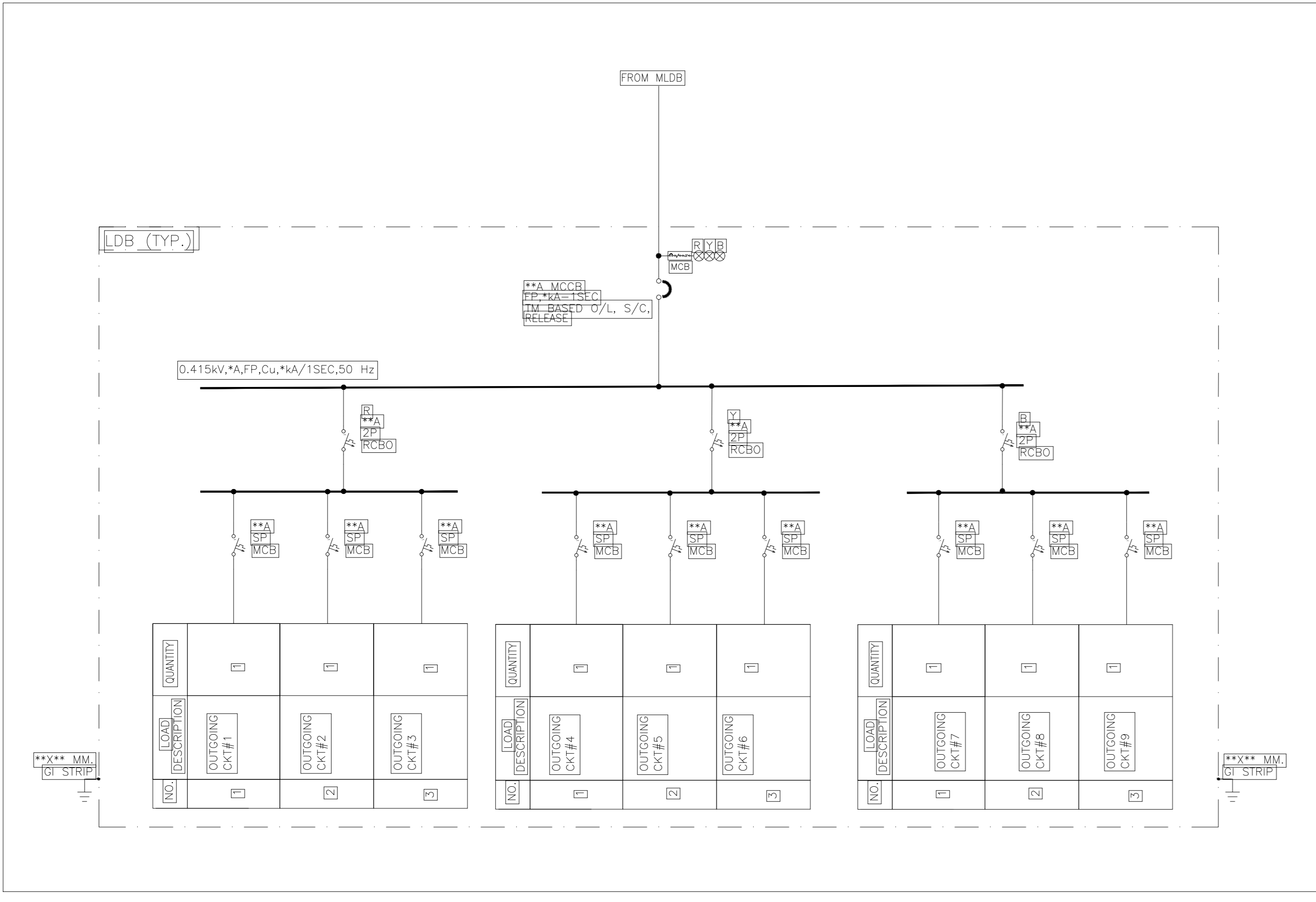
- GENERAL NOTES**
1. THIS SLD SHOWS THE SCHEME FOR THE DISTRIBUTION OF THE POWER FOR THE ICCB BUILDING.
  2. ALL THE EQUIPMENTS SHOULD BE AS PER RELEVANT IS/IEC STANDARD.
  3. ALL PANEL WIRING SHALL BE WITH 1100VOLTS GRADE FRLS,PVC INSULATED,1.5 SQMM STRANDED COPPER WIRE FOR CONTROL WIRING AND 2.5 SQMM FOR CT WIRING.
  4. CONTACTOR SHALL BE OF AC3 DUTY.
  5. THE ON, OFF AND TRIP POSITION OF MCCB SHALL BE CLEARLY INDICATED,OPERATING HANDLE FOR OPERATING MCCBs WITH DOOR CLOSE INTERLOCK SHALL BE PROVIDED,MCCB FEEDER PANEL SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS.
  6. MCCB TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT CABLE SIZES.
  7. ALL INDICATING LAMPS SHALL BE MULTICHIP LED CLUSTER TYPE.
  8. ALL CONTACTORS/TIMERS SHALL BE DIN RAIL MOUNTED.

**LEGEND:**

	VACUUM CIRCUIT BREAKER (SF6 ENCLOSED)
	MCCB(MINIATURE CIRCUIT BREAKER)
	MCCB( MOULDED CASE CIRCUIT BREAKER)
	INDICATING LAMP
	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)
	POTENTIAL TRANSFORMER (PT)
	AMMETER SELECTOR SWITCH
	ANALOG AMMETER
	MULTIFUNCTION METER
	DIESEL GENERATOR
	U/V RELAY
	O/V RELAY
	MASTER TRIP RELAY
	INSTRUMENTATION
	LOAD BREAK SWITCH
	INST. O/C PROTECTION
	INST. E/F PROTECTION
	DMT. O/C PROTECTION
	VOLTMETER SELECTOR SWITCH
	ANALOG VOLTMETER
	OVER CURRENT RELAY
	LOCK OUT RELAY
	ELECTRO-MECHANICAL INTERLOCK

NO.	DESCRIPTION	DATE	BY	APPD.

<b>DO NOT SCALE</b>		<b>GUWAHATI SMART CITY LIMITED</b>		
* PRELIMINARY ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY * AS INDICATED IN THE SMALL BLOCK ABOVE THIS BLOCK. CONSTRUCTION / FABRICATION WORK IS PERMITTED ON * RELEASED ISSUES ONLY. INFORMATION CONTAINED WITHIN *HOLD* IS NOT RELEASED FOR CONSTRUCTION / FABRICATION FIELD MUST GET DESIGN OFFICE TO CLEAR *HOLD* IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO *HOLD*. Proprietary rights of the information contained herein belong to TCE. This information is intended to be used for the mentioned purpose only. In case of misuse of information and any claim arising thereon, cost and consequences will be on the party misusing the information.				
<b>SINGLE LINE DIAGRAM FOR ICCB BUILDING (SHEET 2 OF 3)</b>				
<b>TATA CONSULTING ENGINEERS LIMITED</b>				
SCALE:	PROJECT NO:	REV:	DATE:	ISSUED BY:
DC & DISC/PC-RDL	TCE.10477A-EL-4001-AU-40002	01	20-03-2020	PO
FILE NAME:	TCE.10477A-EL-4001-AU-40002-REV-01		ISSUED BY: PO	



- GENERAL NOTES:**
- THIS SLD SHOWS THE SCHEME FOR THE DISTRIBUTION OF THE POWER FOR THE ICCB BUILDING.
  - ALL THE EQUIPMENTS SHOULD BE AS PER RELEVANT IS/IEC STANDARD
  - ALL PANEL WIRING SHALL BE WITH 1100VOLTS GRADE FRLS,PVC INSULATED,1.5 SQMM STRANDED COPPER WIRE FOR CONTROL WIRING AND 2.5 SQMM FOR CT WIRING.
  - CONTACTOR SHALL BE OF AC3 DUTY.
  - THE ON, OFF AND TRIP POSITION OF MCCB SHALL BE CLEARLY INDICATED,OPERATING HANDLE FOR OPERATING MCCBs WITH DOOR CLOSE INTERLOCK SHALL BE PROVIDED,MCCB FEEDER PANEL SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS.
  - MCCB TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT CABLE SIZES.
  - ALL INDICATING LAMPS SHALL BE MULTICHIP LED CLUSTER TYPE.
  - ALL CONTACTORS/TIMERS SHALL BE DIN RAIL MOUNTED.

**LEGEND:**

	VACUUM CIRCUIT BREAKER (SF6 ENCLOSED)
	MCB(MINIATURE CIRCUIT BREAKER)
	MCCB( MOULDED CASE CIRCUIT BREAKER)
	INDICATING LAMP
	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)
	POTENTIAL TRANSFORMER(PT)
	AMMETER SELECTOR SWITCH
	ANALOG AMMETER
	MULTIFUNCTION METER
	DIESEL GENERATOR
	U/V RELAY
	O/V RELAY
	MASTER TRIP RELAY
	INSTRUMENTATION
	LOAD BREAK SWITCH
	INST. O/C PROTECTION
	INST. E/F PROTECTION
	DMT. O/C PROTECTION
	VOLTMETER SELECTOR SWITCH
	ANALOG VOLTMETER
	OVER CURRENT RELAY
	LOOK OUT RELAY
	ELECTRO-MECHANICAL INTERLOCK

ISSUE	NO.	DATE	BY	CHECKED	REVISION

**DO NOT SCALE**

\* (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION/ FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK ABOVE THIS BLOCK.

CONSTRUCTION/ FABRICATION WORK IS PERMITTED ON \* (RELEASED) ISSUES ONLY.

INFORMATION CONTAINED WITHIN HOLD IS NOT RELEASED FOR CONSTRUCTION/ FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR HOLDS IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION/ FABRICATION WORK RELATED TO HOLDS.

Proprietary rights of the information contained herein belong to TCE. This information is intended to be used for the mentioned purpose only. In case of misuse of information and any claim arising thereon, care and consequence will be on the party misusing the information.

FILE NAME: T10477A-EL-40002-REV-PO

SCALE: 1:1000

PROJECT: TCE.10477A-EL-4001-AU-40002

ISSUE NO: 001

GUWAHATI SMART CITY LIMITED

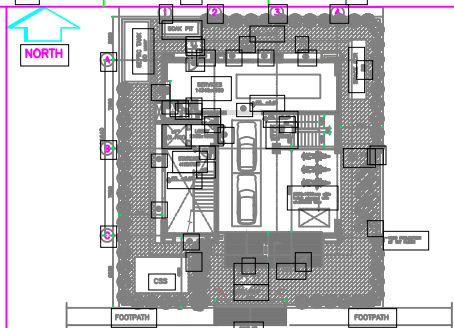
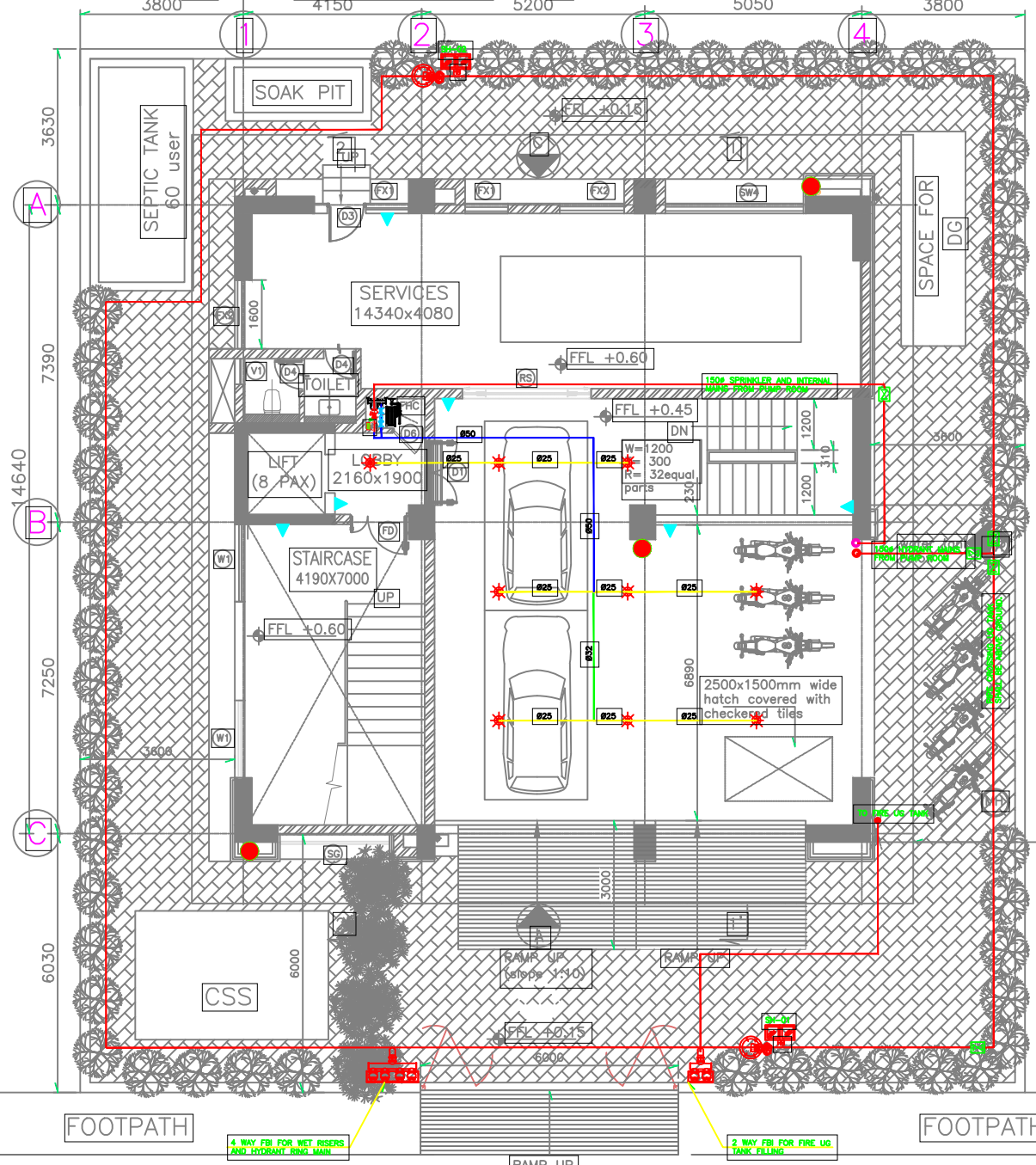
**SINGLE LINE DIAGRAM FOR ICCB BUILDING**  
(SHEET 3 OF 3)

**TATA CONSULTING ENGINEERS LIMITED**



## **FIRE FIGHTING DRAWINGS**

TCE.10477A-ME-6041-FF-60101  
GROUND FLOOR FPS LAYOUT



- KEY PLAN**
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
  2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, PUBLIC HEALTH, ELECTRICAL AND STRUCTURAL DRAWINGS.
  3. PIPES SHALL BE HEAVY DUTY GI PIPE CLASS "B" CONFORMING TO IS 1239.
  4. UNDERGROUND PIPE SHALL BE COATED AND WRAPPED AS PER IS : 10221 WITH "PYKOTE" WRAPPING COATING MATERIAL OF 4mm THICK.
  5. SLUCE VALVE SHALL BE CONFORMING TO IS : 780.
  6. THE DEPTH OF UNDERGROUND PIPE SHALL BE DECIDED AT SITE AS PER THE SITE CONDITION TO AVOID FOULING WITH OTHER SERVICES SUBJECT TO THE TOP OF THE U/G PIPE IS MINIMUM 1M BELOW FROM THE FGL.
  7. MINOR CHANGES IN THE PIPE ROUTING SHALL BE MADE TO SUIT SITE LOCATIONS WITHOUT EFFECTING DESIGN ASPECTS.
  8. MINOR CHANGES IN THE HYDRANT LOCATION SHALL BE MADE TO SUIT MACHINE/EQUIPMENT REQUIREMENT WITHOUT EFFECTING DESIGN ASPECTS.
  9. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED AT TENDER STAGE BEFORE COMMENCEMENT OF ANY WORK. NO FURTHER CLAIMS SHALL BE ENTERTAINED THEREAFTER.

**LEGENDS:-**

SR. NO.	SYMBOL	DESCRIPTION
1.		150Ø GI CLASS "B" HYDRANT PIPE
2.		SINGLE HEADED
3.		SINGLE HEADED YARD HYDRANT
4.		FIRE HOSE BOX WITH SET OF HOSE
5.		BRANCH PIPE & NOZZLE
6.		RUBBER FIRE HOSE (Ø63mm, 2Nos, 15m LENGTH)
7.		HOSE REEL, Ø20MM, 30M LONG
8.		GATE/SLUICE VALVE WITH CHAMBER
9.		CO2 4.5 Kg. (CARBON DIOXIDE TYPE EXTINGUISHER)
10.		APFF 9.0 LTS. (AQUEOUS FILM FORMING FOAM TYPE EXTINGUISHER)
11.		PENDENT SPRINKLER

- POINTS TO BE NOTED:**
1. THE HYDRANT TO HYDRANT SPACING IS 45M AS PER IS13039 CL. 4.12.
  2. HOWEVER, HYDRANTS SHALL BE LOCATED BEARING IN MIND THE ATTENDANT FIRE HAZARDS, WHICH SHALL FOLLOW IS 13039 CL. 4.10 AND 4.11, SAME IS FOLLOWED IN THE DRAWING.
  3. PRESSURE AT THE HYDRAULICALLY REMOTE HYDRANT SHALL NOT BE LESS THAN 3.5 BAR AS PER NBC CL. 5.1.1(f).

ISSUE	DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
15-08-2020										

**FOR TENDER PURPOSE ONLY**  
**DO NOT SCALE**

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**TATA CONSULTING ENGINEERS LIMITED**  
MUMBAI

**GUWAHATI SMART CITY LIMITED**  
**GROUND FLOOR FPS LAYOUT**

TCE.10477A-ME-6041-FF-60101

SCALE: 1:100

FILE NAME: TCE.10477A-ME-6041-FF-60101(PL04) DWG & TITLE

15-08-2020