LIST OF FIRE ALARM DRAWINGS

S.NO.	DRAWING TITLE	SHEET	DRAWING NO.	REVISION
01	LIST OF FIRE ALARM DRAWINGS	SHEET 1 OF 1	JP-TD-FA-11BC-1001	R0
02	NOTES & LEGEND FOR FIRE ALARM SYSTEM	SHEET 1 OF 1	JP-TD-FA-11BC-1002	R0
03	SCHEMATIC DIAGRAM OF FIRE ALARM SYSTEM	SHEET 1 OF 1	JP-TD-FA-11BC-1101	R0
04	FIRE ALARM LAYOUT ANCIALLARY BUILDING GROUND LEVEL	SHEET 1 OF 2	JP-TD-FA-11BC-1201	R0
05	FIRE ALARM LAYOUT ANCIALLARY BUILDING TERRACE LEVEL	SHEET 2 OF 2	JP-TD-FA-11BC-1202	R0
06	FIRE ALARM LAYOUT CONCOURSE LEVEL	SHEET 1 OF 4	JP-TD-FA-11BC-1301	R0
07	FIRE ALARM LAYOUT CONCOURSE LEVEL	SHEET 2 OF 4	JP-TD-FA-11BC-1302	R0
08	FIRE ALARM LAYOUT CONCOURSE LEVEL	SHEET 3 OF 4	JP-TD-FA-11BC-1303	R0
09	FIRE ALARM LAYOUT CONCOURSE LEVEL	SHEET 4 OF 4	JP-TD-FA-11BC-1304	R0
10	FIRE ALARM LAYOUT PLATFORM LEVEL	SHEET 1 OF 3	JP-TD-FA-11BC-1401	R0
11	FIRE ALARM LAYOUT PLATFORM LEVEL	SHEET 2 OF 3	JP-TD-FA-11BC-1402	R0
12	FIRE ALARM LAYOUT PLATFORM LEVEL	SHEET 3 OF 3	JP-TD-FA-11BC-1403	R0
13	FIRE ALARM LAYOUT UNDERCROFT LEVEL	SHEET 1 OF 3	JP-TD-FA-11BC-1501	R0
14	FIRE ALARM LAYOUT UNDERCROFT LEVEL	SHEET 2 OF 3	JP-TD-FA-11BC-1502	R0
15	FIRE ALARM LAYOUT UNDERCROFT LEVEL	SHEET 3 OF 3	JP-TD-FA-11BC-1503	R0
16	TYPICAL DETAIL OF FIRE ALARM EQUIPMENT	SHEET 1 OF 1	JP-TD-FA-11BC-1601	R0

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5. ALL DOOR/WINDOW CILL & LINTEL LEVELS ARE MEASURED FROM MAIN FLOOR FINISHED LEVELS.

REFERENCE DRAWINGS

Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC

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DY CSTE/AFC		ED/S&T	CSO
DY CSTE/SIGNALLING	CSTE-III	GM/O	GM/M
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC -II
DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM

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Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture
Design In-charge/ Coordinator

Structure
Design In-charge/ Coordinator

E&M
Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

ayesa Engineering. Information. Imagination.
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Gurgaon - 122002 (Haryana)

DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: LIST OF FIRE ALARM DRAWINGS

DRAWN BY:	CHECKED BY:	VERIFIED BY:
SURJEET	H.O.B	L.R.S

DATE:	REV:	GRAPHICAL SCALE:	STATUS:
31-03-2015	R0	N.T.S.	FOR TENDER

DRAWING NUMBER:	SHEET NO.	SHEET SIZE	ORDER N°
JP-TD-FA-11BC-1001	1 OF 1	UNE A1	P36-0017

JP/EW/1B/DDC01

FIRE ALARM

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2. THE CONTRACTOR SHALL NOT SCALE FROM THE DRAWINGS
3. ALL DIMENSIONS SHOWN HERE ARE IN MM UNLESS OTHERWISE STATED
4. THE CONTRACTOR HAS TO CO-ORDINATE WITH THE LOCAL FIRE AUTHORITIES REGARDING ANY SPECIAL REQUIREMENTS OF THE FIRE ALARM SYSTEM.
5. ALL CABLING SHALL BE FS WITH SADDLE SUPPORTS.
6. FIRE ALARM PANEL SHALL BE OF 8 LOOP.
7. RESPONSE INDICATORS SHALL BE PROVIDED OUTSIDE THE ENTRY OF ROOMS AT THE CENTRE OF THE DOOR.
7. ALL EQUIPMENTS AND INSTALLATIONS SHALL BE IN COMPLIANE WITH BOQ, SPECIFICATIONS AND CONTRACT CONDITIONS.

NOTES FOR FIRE ALARM SYSTEM WORKS :

1. THE COMPLETE FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL BY-LAWS, REGULATIONS & CODE OF PRACTICE OF NFPA 72 AND DELHI METRO & DELHI FIRE SERVICE.
2. ALL CABLING SHALL BE 2 X 1.5 / 2 X 2.5 SQ MM CWZ CABLES COMPLETE WITH ALL FITTINGS.
3. DETECTORS SHALL BE INSTALLED IN THE CENTRE OF ROOMS AND AWAY FROM FANS AND ELECTRICAL FITTINGS.
4. MANUAL CALL BOX SHALL BE INSTALLED AT 1.2 M HEIGHT WHIULE HOOTERS CUM STROBE SHALL BE INSTALLED AT 2.2 M HEIGHT.
5. ALL DETECTORS SHALL BE PROVIDED WITH JUNCTION BOX ON WHICH THE DETECTOR BASE SHALL BE FITTED.
6. ALL VERTICAL DROPS ALL BE THROUGH SHAFTS AND S&T SHAFTS.
7. FIRE ALARM CABLE SHALL BE CWZ TYPE AND TESTED AT 950 DEGREES FOR 180 MINUTES, FIRE AND WATER TEST AT 650 DEGREE FOR 30 MINUTES AND IMPACT TEST OF 950 DEGREE FOR 15 MINUTES.
8. ALL INTERFACE FOR ECS SHUT DOWN, EXTRACTOR FAN START, ESCALATOR & EMERGENCY STOPS, PASSENGER GATE OPENING ETC FOR FIRE CONDITIONS SHALL BE BY BMS SYSTEM.

ABBREVIATION	
MS	MILD STEEL
GI	GALVANISED IRON
PSD	PHOTO SMOKE DETECTOR
ROR	RATE OF RISE DETECTOR
FAP	FIRE ALARM PANEL
MCP	MANUAL CALL POINT
IS	INDIAN STANDARDS
BS	BRITISH STANDARDS
FR	FIRE RESISTING
PA	PUBLIC ADDRESS

LEGEND: –

S.N.	SYMBOL	DESCRIPTION
1	⊗	MULTIPLE SENSOR DETECTOR FOR BELOW FALSE CEILING/AT SLAB
2	(•)	MULTIPLE SENSOR DETECTOR ABOVE FALSE CEILING
3	●	HIGH TEMPERATURE HEAT DETECTOR
4	▨	MULTIPLE SENSOR DETECTOR FOR BELOW FALSE FLOOR
5		DUCT DETECTOR
6		MANUAL CALL POINT
7		HOOTER WITH STROBE
8		RESPONSE INDICATOR
9	CM	CONTROL MODULE
10	F.I.	FAULT ISOLATOR
11	F.T.	FIRE TRACE SYSTEM
12	MM	MONITOR MODULE
13	FSH	FLOW SWITCH FOR HYDRANT SYSTEM
14	FSS	FLOW SWITCH FOR SPRINKLER SYSTEM
15	PSU	POWER SUPPLY UNIT
16	ZAM	ZONAL ADDRESS MODULE
17		MAGNETIC LOCK
18		MAGNETIC CONTACT
19		EMERGENCY DOOR RELEASE UNIT
20	M.P	MIMIC PANEL
21		REPEATER PANEL
22		CABLE FOR FIRE ALARM LAYOUT
23		CABLE FOR BELOW FALSE FLOOR
24		CABLE FOR HOOTER CUM STROBE
25		FIRE ALARM PANEL

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Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

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DY CSTE/SIGNALLING	CSTE-III	GM/O	GM/M
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC -II
DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM

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Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture	Structure	E&M
Design In-charge/ Coordinator	Design In-charge/ Coordinator	Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

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DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: NOTES & LEGEND FOR FIRE ALARM SYSTEM

DRAWN BY :	CHECKED BY:	VERIFIED BY:
SURJEET	H.O.B	LRS

DATE:	REV:	GRAPHICAL SCALE:	STATUS:
31-03-2015	R0	NTS	FOR TENDER

DRAWING NUMBER:	SHEET NO.	SHEET SIZE	ORDER N°
JP-TD-FA-11BC-1002	1 OF 1	UNE A1	P36-0017

JP/EW/1B/DDC01 FIRE ALARM

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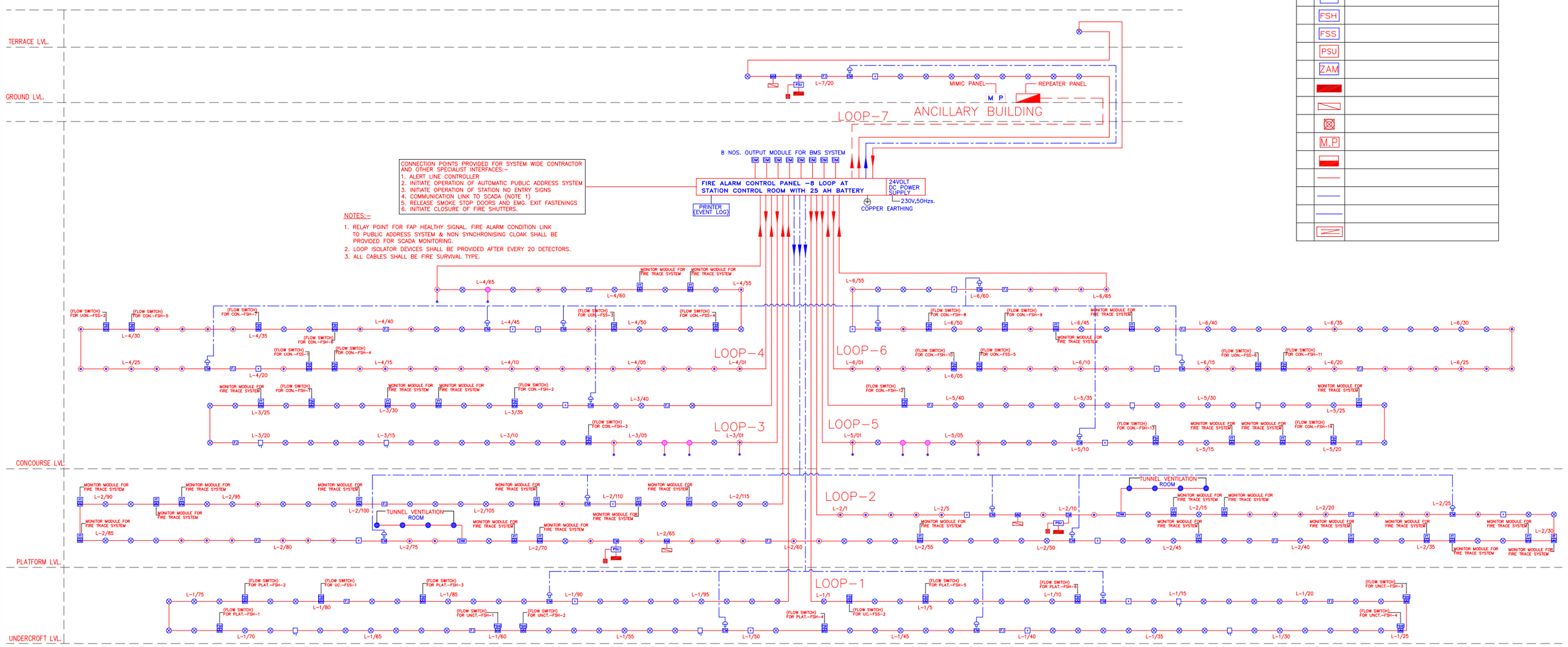
SCHEDULE OF LOOP

FLOOR	LOOP NO.	AREA FOR LOOP
GROUND	LOOP-7	ANCILLARY,+1 LEVEL
CONCOURSE	LOOP 3 & 5	ECS & OPERATIONAL
	LOOP 4	PAID & UNPAID AREA
	LOOP 6	PAID & UNPAID AREA
PLATFORM	LOOP 2	ALL AREA
UNDERCROFT	LOOP 1	ALL AREA

QTY. OF DEVICE LOOP

LOOP NO.	MULTI CRITERIA DETECTOR	HEAT DETECTOR	DUCT DETECTOR	MANUAL CALL BOX	HOOTER	FAULT ISOLATOR	MONITOR MODULE	CONTROL MODULE	ZAM	FSH (FLOW SWITCH FOR HYDRANT)	FSS (FLOW SWITCH FOR SPRINKLER)	LOOP LENGTH
LOOP-1	71		4	4	4	4	12	4		6	2	550 M
LOOP-2	76	8		5	5	5	21	7	2			600 M
LOOP-3	30		2	1	1	2	6	1		3		360 M
LOOP-4	48			3	3	3	10	3		4	4	360 M
LOOP-5	30		2	1	1	2	6	1		3		800 M
LOOP-6	48			3	3	3	8	3		4	2	500 M
LOOP-7	21			3	3	2	8	4				150 M



SCHEMATIC FOR FIRE ALARM SYSTEM

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REFERENCE DRAWINGS

Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC

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E&M
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DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: SCHEMATIC DIAGRAM OF FIRE ALARM SYSTEM

DRAWN BY :	CHECKED BY:	VERIFIED BY:
SURJEET	H.O.B	LRS

DATE:	REV:	GRAPHICAL SCALE:	STATUS:
31-03-2014	R0	NTS	FOR TENDER

DRAWING NUMBER:	SHEET NO.	SHEET SIZE	ORDER N°
JP-TD-FA-11BC-1101	1 OF 1	UNE A1	P36-0017

JP/EW/1B/DDC01 FIRE ALARM

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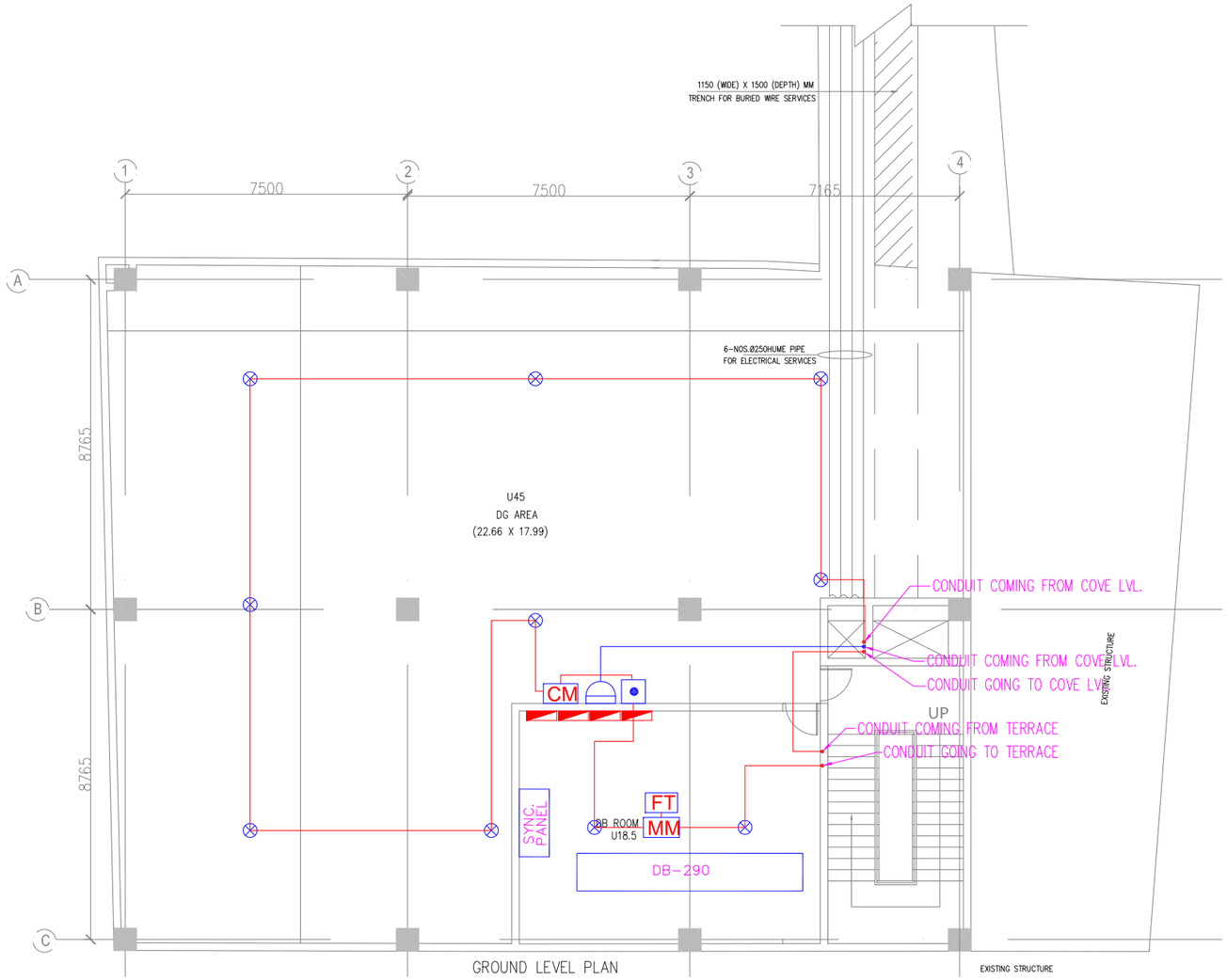


GROUND LEVEL PLAN

LEGEND: –

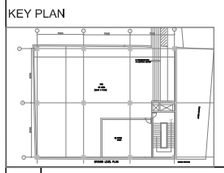
S.N.	SYMBOL	DESCRIPTION
1		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE CEILING/AT SLAB
2		MULTIPLE SENSOR DETECTOR ABOVE FALSE CEILING
3		HIGH TEMPERATURE HEAT DETECTOR
4		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE FLOOR
5		DUCT DETECTOR
6		MANUAL CALL POINT
7		HOOTER WITH STROBE
8		RESPONSE INDICATOR
9	CM	CONTROL MODULE
10	F.I.	FAULT ISOLATOR
11	F.T.	FIRE TRACE SYSTEM
12	MM	MONITOR MODULE
13	FSH	FLOW SWITCH FOR HYDRANT SYSTEM
14	FSS	FLOW SWITCH FOR SPRINKLER SYSTEM
15	PSU	POWER SUPPLY UNIT
16	ZAM	ZONAL ADDRESS MODULE
17		MAGNETIC LOCK
18		MAGNETIC CONTACT
19		EMERGENCY DOOR RELEASE UNIT
20	M.P	MIMIC PANEL
21		REPEATER PANEL
22		CABLE FOR FIRE ALARM LAYOUT
23		CABLE FOR BELOW FALSE FLOOR
24		CABLE FOR HOOTER CUM STROBE
25		FIRE ALARM PANEL

ROOM SCHEDULE

SR. NO	ROOM SCHEDULE	ROOM NAME	DIMENSION (MT) L X B	AREA (SQM.)
1	U 45	DG AREA	22.66 X 17.99	315.40*
1	U 18.5	DB ROOM	8.00 X 6.18	49.44

*AREA AS PER PLINE

KEY PLAN



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REFERENCE DRAWINGS

Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC

DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH
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DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II
DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM

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JP/EW/1B/DDC01 Project Manager

Architecture	Structure	E&M
Design In-charge/ Coordinator	Design In-charge/ Coordinator	Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

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DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: **BADI CHOUPAR**

DRAWING TITLE: FIRE ALARM LAYOUT ANCILLARY BUILDING GROUND LEVEL

DRAWN BY:	CHECKED BY:	VERIFIED BY:
SURJEET	H.O.B	L.R.S

DATE:	REV:	GRAPHICAL SCALE:	STATUS:
31-03-2015	R0	1:75	FOR TENDER

DRAWING NUMBER:	SHEET NO.	SHEET SIZE	ORDER N°
JP-TD-FA-11BC-1201	1 OF 2	UNE A1	P36-0017

JP/EW/1B/DDC01 FIRE ALARM

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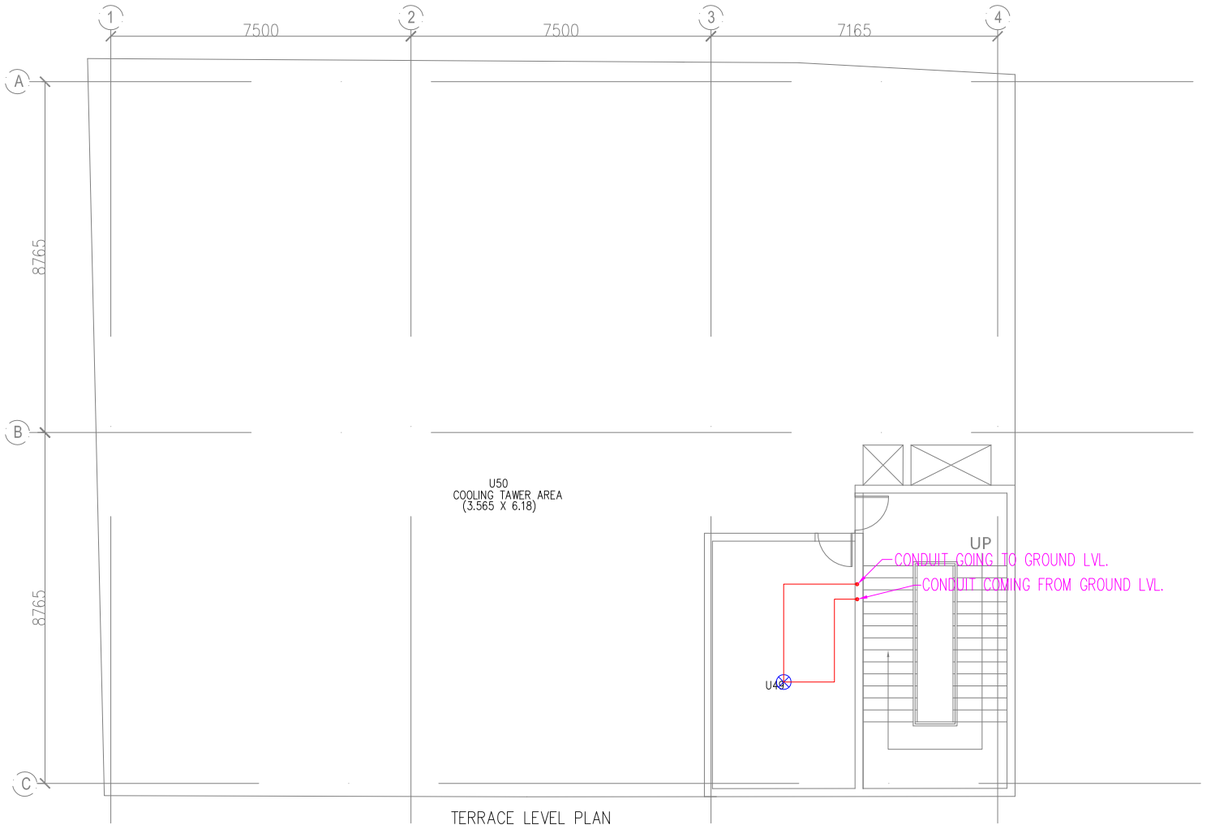

TERRACE LEVEL PLAN

LEGEND:–

S.N.	SYMBOL	DESCRIPTION
1		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE CEILING/AT SLAB
2		MULTIPLE SENSOR DETECTOR ABOVE FALSE CEILING
3		HIGH TEMPERATURE HEAT DETECTOR
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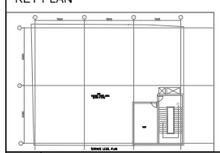
21		REPEATER PANEL
22		CABLE FOR FIRE ALARM LAYOUT
23		CABLE FOR BELOW FALSE FLOOR
24		CABLE FOR HOOTER CUM STROBE
25		FIRE ALARM PANEL

ROOM SCHEDULE

SR. NO	ROOM SCHEDULE	ROOM NAME	DIMENSION (MT) L X B	AREA (SQM.)
1	U 49	CHEMICAL DOSING ROOM	22.66 X 17.99	315.40*
2	U 50	COOLING TOWER AREA	3.565 X 6.18	22.03

*AREA AS PER PLINE

KEY PLAN



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REFERENCE DRAWINGS

Drg. No.	Description

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REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

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DY CSTE/SIGNALLING	CSTE-III	GM/O	GM/M
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II
DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM

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Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture	Structure	E&M
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Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: **BADI CHOUPAR**

DRAWING TITLE: FIRE ALARM LAYOUT ANCILLARY BUILDING TERRACE LEVEL

DRAWN BY:	CHECKED BY:	VERIFIED BY:	
SURJEET	H.O.B	L.R.S	JP/EW/1B/DDC01
DATE: 31-03-2015 / REV: R0	GRAPHICAL SCALE: 1:75	STATUS: FOR TENDER	FIRE ALARM
DRAWING NUMBER: JP-TD-FA-11BC-1202	SHEET NO. 2 OF 2 / SHEET SIZE UNE A1	ORDER N° P36-0017	

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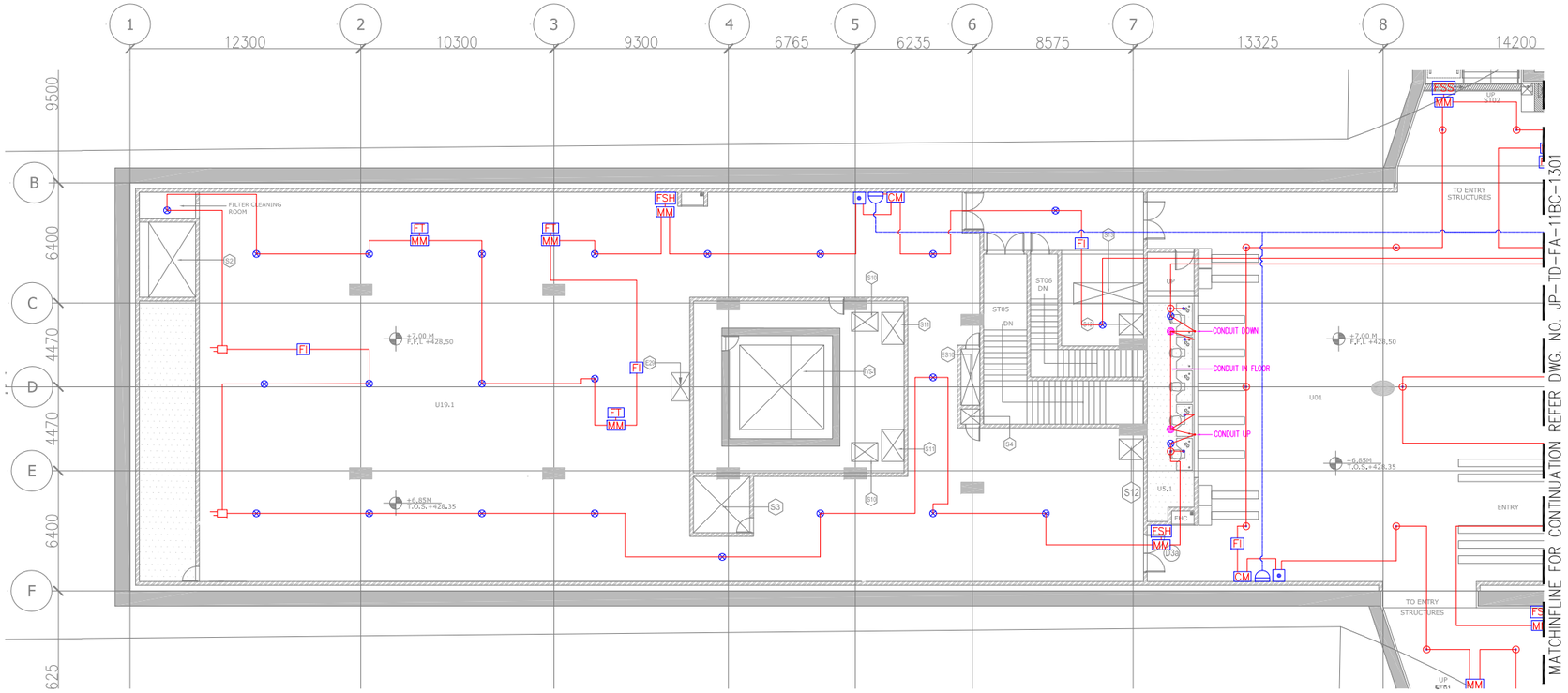
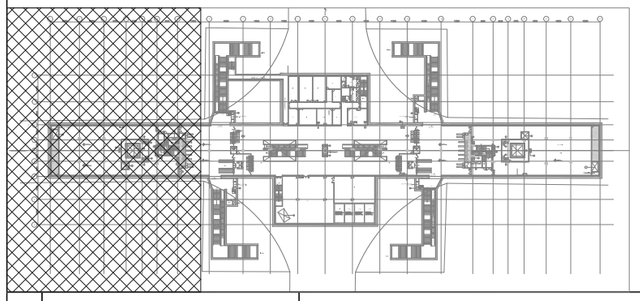


KEY PLAN



ROOM SCHEDULE				
S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (Mt.) (LxW)	AREA (Sqm.)
1	U01	UNPAID AREA		1230.80*
2	U02	PAID AREA		1210.73*
3	U03	STATION CONTROL ROOM (SCR)	7.200 x 7.060	50.83
4	U04	STATION MANAGER ROOM (SMR)	4.300 x 7.060	29.46*
5	U05.1	TICKET OFFICE (TOM)	2.500 x 14.35	34.76*
6	U05.2	TICKET OFFICE (TOM)	2.500 x 14.35	34.46*
7	U07.1	EXCESS FARE OFFICE (EFO)	2.500 x 3.000	7.50
8	U07.2	EXCESS FARE OFFICE (EFO)	2.500 x 3.000	7.50
9	U09	SECURITY ROOM 1	3.500 x 7.060	24.71
10	U10	STATION STORE ROOM	3.50 x 5.26	18.40
11	U12	JANITOR ROOM	1.700 x 2000	3.40
12	U14	STAFF TOILET	1.700 x 2.500	4.24
13	U15.1(M)	PUBLIC TOILETS (Male)	5.850 x 4.700	25.36
14	U15.2(F)	PUBLIC TOILETS (Female)	4.100 x 5.835	23.47
15	U16	MESS ROOM	6.100 x 5.280	32.20
16	U18.1	DB ROOM	8.100 x 7.060	53.64*
17	U18.2	DB ROOM	6.500 x 7.060	44.80*
18	U19.1	ECS PLANT ROOM (ECS)	53.525 x 20.740	930.00*
19	U19.2	ECS PLANT ROOM (ECS)	53.525 x 20.740	930.00*
20	U22	SIGNALLING EQUIPMENT ROOM (SER)	5.565 x 10.740	59.76
21	U23	TELECOM EQUIPMENT ROOM (TER)	4.335 x 10.740	46.14*
22	U24	UPS ROOM for S&T	5.500 x 10.740	59.06
23	U 42.1	TREATED WATER TANK	5.000 x 4.500	22.50
24	U 42.2	RAIN WATER TANK	5.000 x 4.500	22.50
25	U 42.3	FIRE TANKS	5.000 x 4.500	22.50
26	U 42.4	FIRE TANKS	5.000 x 4.500	22.50
27	U46	HANDICAP TOILET	1.750 x 2.250	3.95
28	U43	PUMP ROOM	8.100 x 7.060	53.64*
29	U48	CHILLER ROOM	24.45 X 19.975	446.50*

ELECTRICAL AND S&T SCHEDULE				
CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	CUTOUT POSITION
ES10	ELECTRICAL SHAFT & CUTOUT- 2NOS	1.00X3.00	3.00	FLOOR
E25	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E26	ELECTRICAL SHAFT	1.20X0.50	0.60	FLOOR
E28	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E29	TVS ELECTRICAL CUT OUT	1.00X1.50	1.50	FLOOR
S6	S & T SHAFT & CUT OUT	1.90X0.63	1.20	FLOOR

LEGEND:-

S.N.	SYMBOL	DESCRIPTION
1		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE CEILING/AT SLAB
2		MULTIPLE SENSOR DETECTOR ABOVE FALSE CEILING
3		HIGH TEMPERATURE HEAT DETECTOR
4		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE FLOOR
5		DUCT DETECTOR
6		MANUAL CALL POINT
7		HOOTER WITH STROBE
8		RESPONSE INDICATOR
9	CM	CONTROL MODULE
10	F.I.	FAULT ISOLATOR
11	F.T.	FIRE TRACE SYSTEM
12	MM	MONITOR MODULE
13	FSH	FLOW SWITCH FOR HYDRANT SYSTEM
14	FSS	FLOW SWITCH FOR SPRINKLER SYSTEM
15	PSU	POWER SUPPLY UNIT
16	ZAM	ZONAL ADDRESS MODULE
17		MH.O.B.NETIC LOCK
18		MH.O.B.NETIC CONTACT
19		EMERGENCY DOOR RELEASE UNIT
20	M.P.	MIMIC PANEL
21		REPEATER PANEL
22		CABLE FOR FIRE ALARM LAYOUT
23		CABLE FOR BELOW FALSE FLOOR
24		CABLE FOR HOOTER CUM STROBE
25		FIRE ALARM PANEL

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5. ALL DOOR/WINDOW CILL & LINTEL LEVELS ARE MEASURED FROM MAIN FLOOR FINISHED LEVELS.

REFERENCE DRAWINGS

Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC

DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH
DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH
DY CSTE/AFC		ED/S&T	CSO
DY CSTE/SIGNALLING	CSTE-III	GM/O	GM/M
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC -II
DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM

Certified that this document has been designed and checked in accordance with DDC Quality Assurance Plan.

Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture
Design In-charge/ Coordinator

Structure
Design In-charge/ Coordinator

E&M
Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

ayesa Engineering. Information. Imagination.
56, Indo-Asia House, Institutional Area, sector-44
Gurgaon - 122002 (Haryana)

DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: FIRE ALARM LAYOUT CONCOURSE LEVEL

DRAWN BY :	CHECKED BY:	VERIFIED BY:
SURJEET	H.O.B.	LRS

DATE:	REV:	GRAPHICAL SCALE:	STATUS:
31-03-2015	R0	1:150	FOR TENDER

DRAWING NUMBER:	SHEET NO.	SHEET SIZE	ORDER N°
JP-TD-FA-11BC-1301	1 OF 4	UNE A1	P36-0017

JP/EW/1B/DDC01
FIRE ALARM

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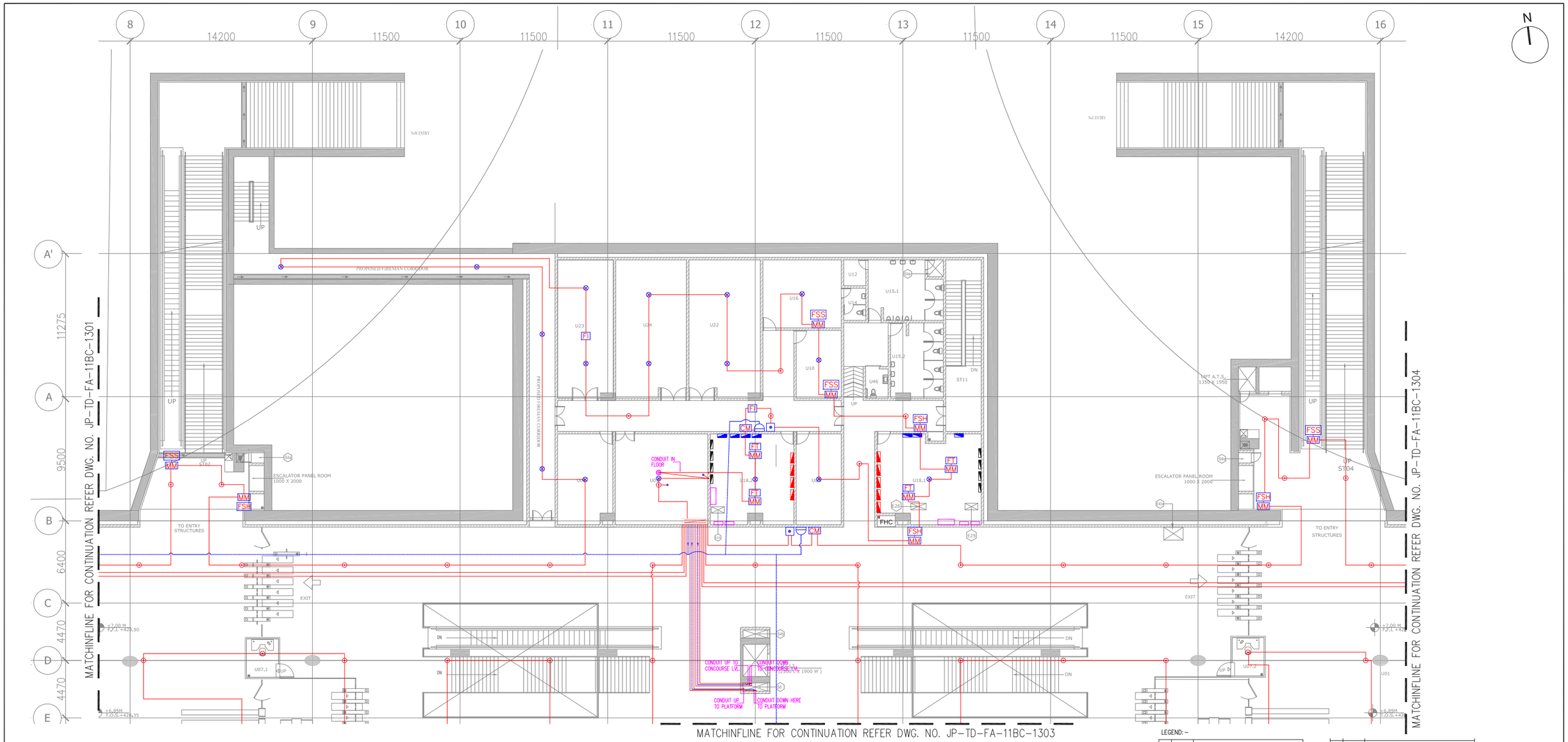
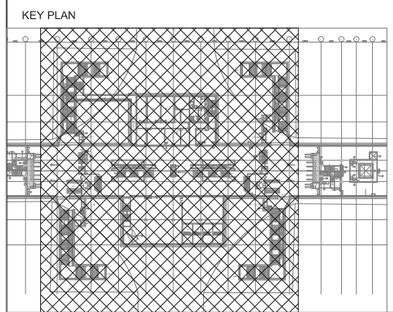


KEY PLAN



ROOM SCHEDULE				
S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (Mt.) (LxW)	AREA (Sqm.)
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4	U04	STATION MANAGER ROOM (SMR)	4.300 x 7.060	29.46*
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6	U05.2	TICKET OFFICE (TOM)	2.500 x 14.35	34.46*
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8	U07.2	EXCESS FARE OFFICE (EFO)	2.500 x 3.000	7.50
9	U09	SECURITY ROOM 1	3.500 x 7.060	24.71
10	U10	STATION STORE ROOM	3.50 x 5.26	18.40
11	U12	JANITOR ROOM	1.700 x 2000	3.40
12	U14	STAFF TOILET	1.700 x 2.500	4.24
13	U15.1(M)	PUBLIC TOILETS (Male)	5.850 x 4.700	25.36
14	U15.2(F)	PUBLIC TOILETS (Female)	4.100 x 5.835	23.47
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19	U19.2	ECS PLANT ROOM (ECS)	53.525 x 20.740	930.00*
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21	U23	TELECOM EQUIPMENT ROOM (TER)	4.335 x 10.740	46.14*
22	U24	UPS ROOM for S&T	5.500 x 10.740	59.06
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27	U46	HANDICAP TOILET	1.750 x 2.250	3.95
28	U43	PUMP ROOM	8.100 x 7.060	53.64*
29	U48	CHILLER ROOM	24.45 X 19.975	446.50*

ELECTRICAL AND S&T SCHEDULE				
CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	CUTOUT POSITION
ES10	ELECTRICAL SHAFT & CUTOUT- 2NOS	1.00X3.00	3.00	FLOOR
E25	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E26	ELECTRICAL SHAFT	1.20X0.50	0.60	FLOOR
E28	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E29	TVS ELECTRICAL CUT OUT	1.00X1.50	1.50	FLOOR
S6	S & T SHAFT & CUT OUT	1.90X0.63	1.20	FLOOR

LEGEND: –

S.N.	SYMBOL	DESCRIPTION
1		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE CEILING/AT SLAB
2		MULTIPLE SENSOR DETECTOR ABOVE FALSE CEILING
3		HIGH TEMPERATURE HEAT DETECTOR
4		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE FLOOR
5		DUCT DETECTOR
6		MANUAL CALL POINT
7		HOOTER WITH STROBE
8		RESPONSE INDICATOR
9	CM	CONTROL MODULE
10	F.I.	FAULT ISOLATOR
11	F.T.	FIRE TRACE SYSTEM
12	MM	MONITOR MODULE
13	FSH	FLOW SWITCH FOR HYDRANT SYSTEM
14	FSS	FLOW SWITCH FOR SPRINKLER SYSTEM
15	PSU	POWER SUPPLY UNIT
16	ZAM	ZONAL ADDRESS MODULE
17		MH.O.B.NETIC LOCK
18		MH.O.B.NETIC CONTACT
19		EMERGENCY DOOR RELEASE UNIT
20	M.P	MIMIC PANEL
21		REPEATER PANEL
22		CABLE FOR FIRE ALARM LAYOUT
23		CABLE FOR BELOW FALSE FLOOR
24		CABLE FOR HOOTER CUM STROBE
25		FIRE ALARM PANEL

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REFERENCE DRAWINGS

Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC

DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH
DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH
DY CSTE/AFC		ED/S&T	CSO
DY CSTE/SIGNALLING	CSTE-III	GM/O	GM/M
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC -II
DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM

Certified that this document has been designed and checked in accordance with DDC Quality Assurance Plan.

Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture	Structure	E&M
Design In-charge/ Coordinator	Design In-charge/ Coordinator	Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

ayesa Engineering. Information. ImaginaTion.
56, Indo-Asia House, Institutional Area, sector-44
Gurgaon - 122002 (Haryana)

DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: FIRE ALARM LAYOUT CONCOURSE LEVEL

DRAWN BY:	CHECKED BY:	VERIFIED BY:	
SURJEET	H.O.B.	LRS	JP/EW/1B/DDC01
DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: 1:150	STATUS: FOR TENDER
DRAWING NUMBER: JP-TD-FA-11BC-1302	SHEET NO. 2 OF 4	SHEET SIZE UNE A1	ORDER N° P36-0017

FIRE ALARM

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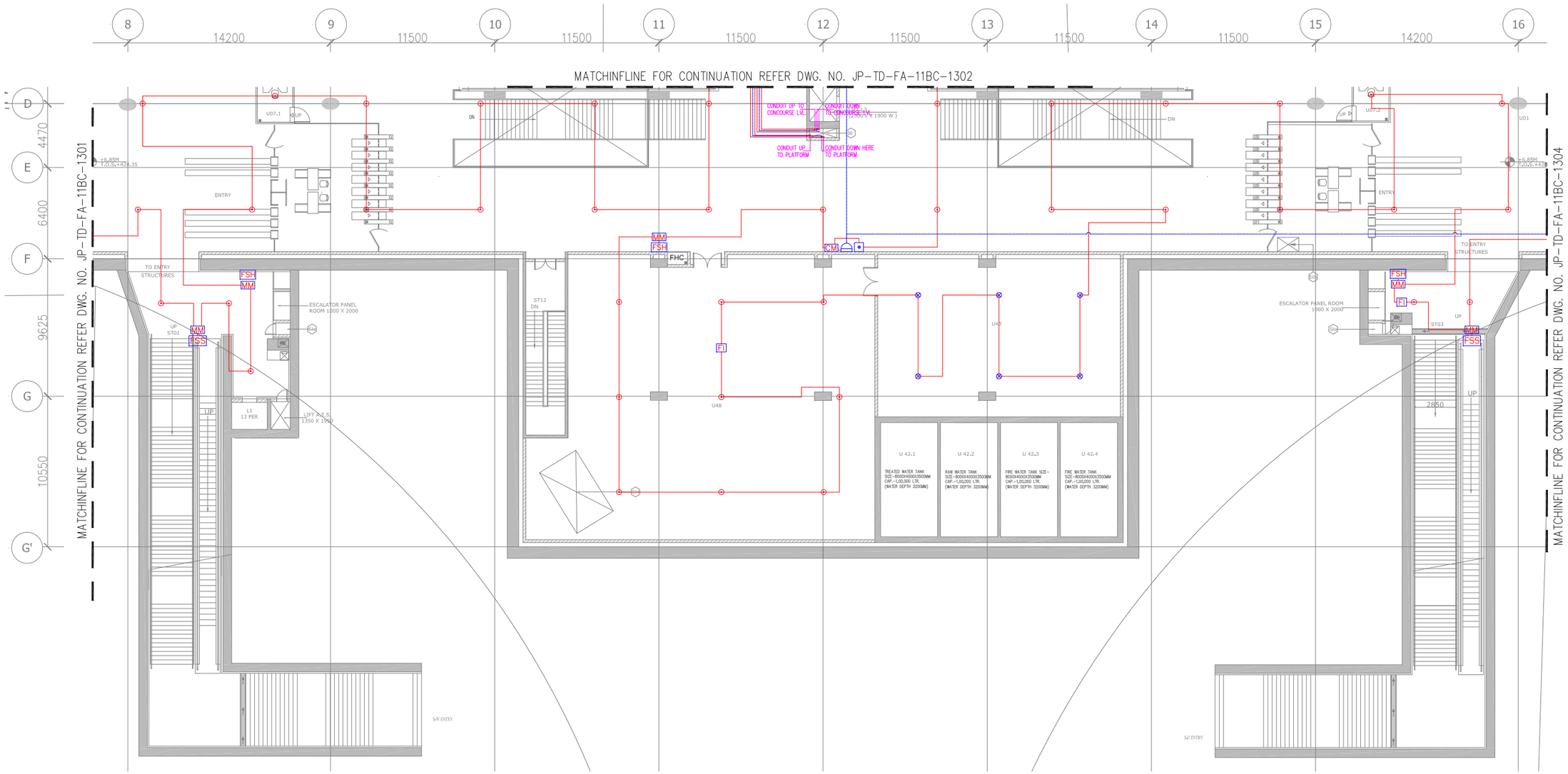

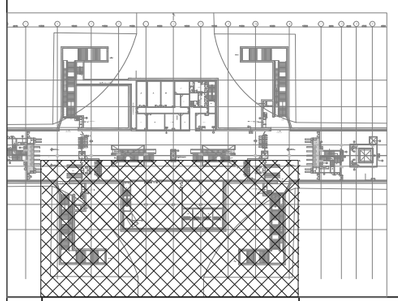

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5	U05.1	TICKET OFFICE (TOM)	2.500 x 14.35	34.76*
6	U05.2	TICKET OFFICE (TOM)	2.500 x 14.35	34.46*
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8	U07.2	EXCESS FARE OFFICE (EFO)	2.500 x 3.000	7.50
9	U09	SECURITY ROOM 1	3.500 x 7.060	24.71
10	U10	STATION STORE ROOM	3.50 x 5.26	18.40
11	U12	JANITOR ROOM	1.700 x 2000	3.40
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ELECTRICAL AND S&T SCHEDULE				
CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	CUTOUT POSITION
ES10	ELECTRICAL SHAFT & CUTOUT- 2NOS	1.00X3.00	3.00	FLOOR
E25	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E26	ELECTRICAL SHAFT	1.20X0.50	0.60	FLOOR
E28	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E29	TVS ELECTRICAL CUT OUT	1.00X1.50	1.50	FLOOR
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LEGEND: –

S.N.	SYMBOL	DESCRIPTION
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5		DUCT DETECTOR
6		MANUAL CALL POINT
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24		CABLE FOR HOOTER CUM STROBE
25		FIRE ALARM PANEL

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REFERENCE DRAWINGS

Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC

DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH
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DY CSTE/SIGNALLING	CSTE-III	GM/O	GM/M
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC -II
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Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture	Structure	E&M
Design In-charge/ Coordinator	Design In-charge/ Coordinator	Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

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Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: FIRE ALARM LAYOUT CONCOURSE LEVEL

DRAWN BY:	CHECKED BY:	VERIFIED BY:	
SURJEET	H.O.B.	LRS	JP/EW/1B/DDC01
DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: 1:150	STATUS: FOR TENDER
DRAWING NUMBER: JP-TD-FA-11BC-1303	SHEET NO. 3 OF 4	SHEET SIZE UNE A1	ORDER N° P36-0017

FIRE ALARM

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ROOM SCHEDULE				
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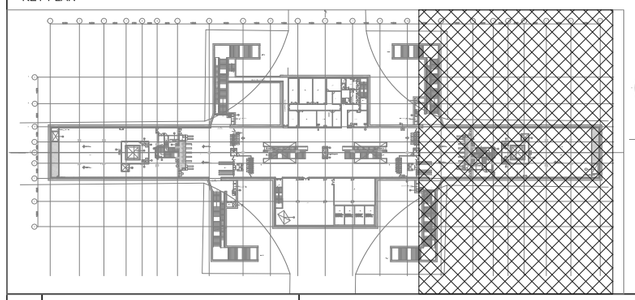
8	U07.2	EXCESS FARE OFFICE (EFO)	2.500 x 3.000	7.50
9	U09	SECURITY ROOM 1	3.500 x 7.060	24.71
10	U10	STATION STORE ROOM	3.50 x 5.26	18.40
11	U12	JANITOR ROOM	1.700 x 2000	3.40
12	U14	STAFF TOILET	1.700 x 2.500	4.24
13	U15.1(M)	PUBLIC TOILETS (Male)	5.850 x 4.700	25.36
14	U15.2(F)	PUBLIC TOILETS (Female)	4.100 x 5.835	23.47
15	U16	MESS ROOM	6.100 x 5.280	32.20
16	U18.1	DB ROOM	8.100 x 7.060	53.64*
17	U18.2	DB ROOM	6.500 x 7.060	44.80*
18	U19.1	ECS PLANT ROOM (ECS)	53.525 x 20.740	930.00*
19	U19.2	ECS PLANT ROOM (ECS)	53.525 x 20.740	930.00*
20	U22	SIGNALLING EQUIPMENT ROOM (SER)	5.565 x 10.740	59.76
21	U23	TELECOM EQUIPMENT ROOM (TER)	4.335 x 10.740	46.14*
22	U24	UPS ROOM for S&T	5.500 x 10.740	59.06
23	U 42.1	TREATED WATER TANK	5.000 x 4.500	22.50
24	U 42.2	RAIN WATER TANK	5.000 x 4.500	22.50
25	U 42.3	FIRE TANKS	5.000 x 4.500	22.50
26	U 42.4	FIRE TANKS	5.000 x 4.500	22.50
27	U46	HANDICAP TOILET	1.750 x 2.250	3.95
28	U43	PUMP ROOM	8.100 x 7.060	53.64*
29	U48	CHILLER ROOM	24.45 X 19.975	446.50*

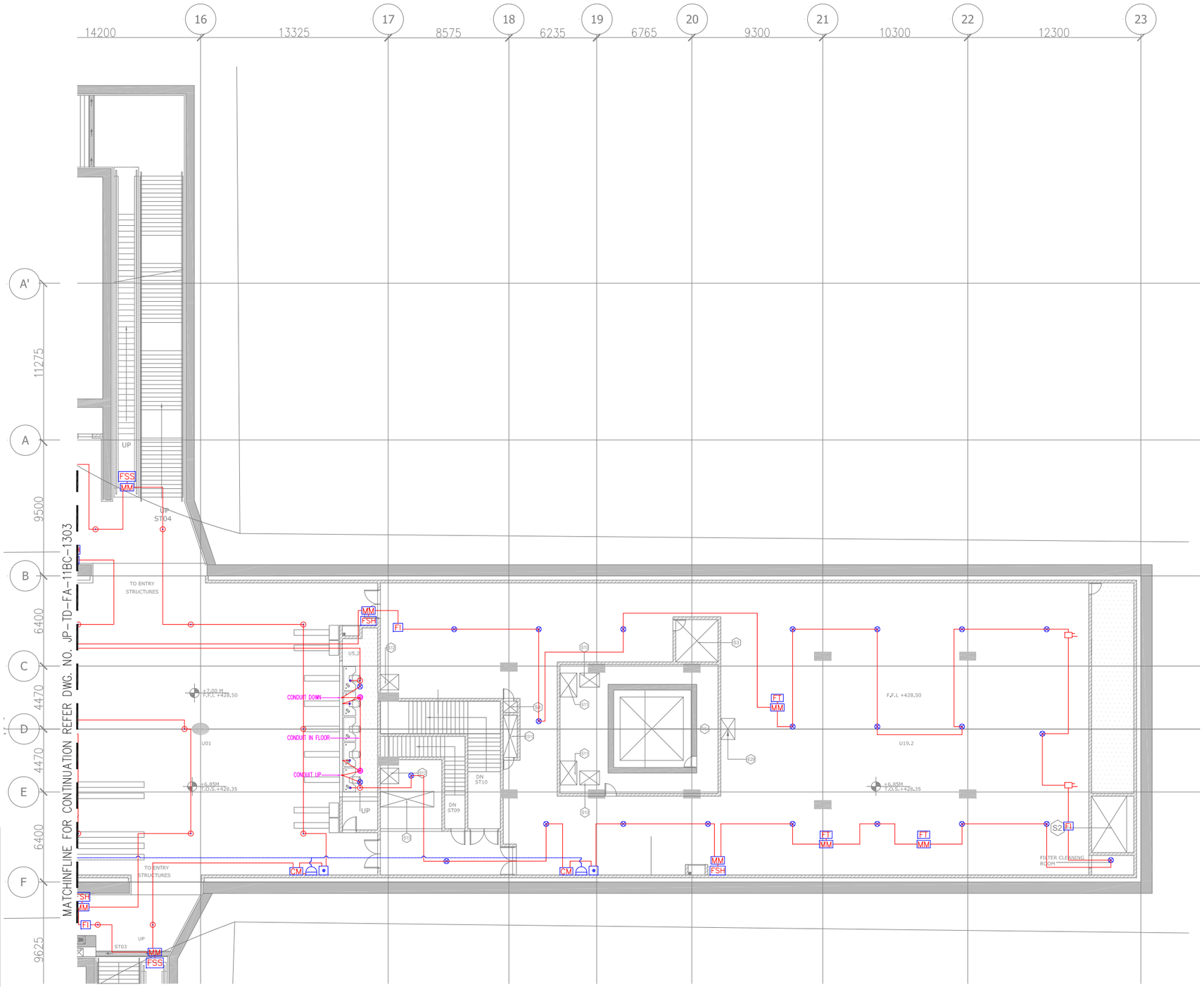
ELECTRICAL AND S&T SCHEDULE				
CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	CUTOUT POSITION
ES10	ELECTRICAL SHAFT & CUTOUT- 2NOS	1.00X3.00	3.00	FLOOR
E25	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E26	ELECTRICAL SHAFT	1.20X0.50	0.60	FLOOR
E28	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E29	TVS ELECTRICAL CUT OUT	1.00X1.50	1.50	FLOOR
S6	S & T SHAFT & CUT OUT	1.90X0.63	1.20	FLOOR

LEGEND:–

S.N.	SYMBOL	DESCRIPTION
1		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE CEILING/AT SLAB
2		MULTIPLE SENSOR DETECTOR ABOVE FALSE CEILING
3		HIGH TEMPERATURE HEAT DETECTOR
4		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE FLOOR
5		DUCT DETECTOR
6		MANUAL CALL POINT
7		HOOTER WITH STROBE
8		RESPONSE INDICATOR
9	CM	CONTROL MODULE
10	F.I.	FAULT ISOLATOR
11	F.T.	FIRE TRACE SYSTEM
12	MM	MONITOR MODULE
13	FSH	FLOW SWITCH FOR HYDRANT SYSTEM
14	FSS	FLOW SWITCH FOR SPRINKLER SYSTEM
15	PSU	POWER SUPPLY UNIT
16	ZAM	ZONAL ADDRESS MODULE
17		MH.O.B.NETIC LOCK
18		MH.O.B.NETIC CONTACT
19		EMERGENCY DOOR RELEASE UNIT
20	M.P.	MIMIC PANEL
21		REPEATER PANEL
22		CABLE FOR FIRE ALARM LAYOUT
23		CABLE FOR BELOW FALSE FLOOR
24		CABLE FOR HOOTER CUM STROBE
25		FIRE ALARM PANEL

KEY PLAN





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REFERENCE DRAWINGS

Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC

DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH
DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH
DY CSTE/AFC		ED/S&T	CSO
DY CSTE/SIGNALLING	CSTE-III	GM/O	GM/M
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC -II
DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM

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Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture	Structure	E&M
Design In-charge/ Coordinator	Design In-charge/ Coordinator	Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

ayesa Engineering. Information. Imagination.
56, Indo-Asia House, Institutional Area, sector-44
Gurgaon - 122002 (Haryana)

DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: FIRE ALARM LAYOUT CONCOURSE LEVEL

DRAWN BY :	CHECKED BY:	VERIFIED BY:
SURJEET	H.O.B.	LRS

DATE:	REV:	GRAPHICAL SCALE:	STATUS:
31-03-2015	R0	1:150	FOR TENDER

DRAWING NUMBER:	SHEET NO.	SHEET SIZE	ORDER N°
JP-TD-FA-11BC-1304	4 OF 4	UNE A1	P36-0017

JP/EW/1B/DDC01
FIRE ALARM

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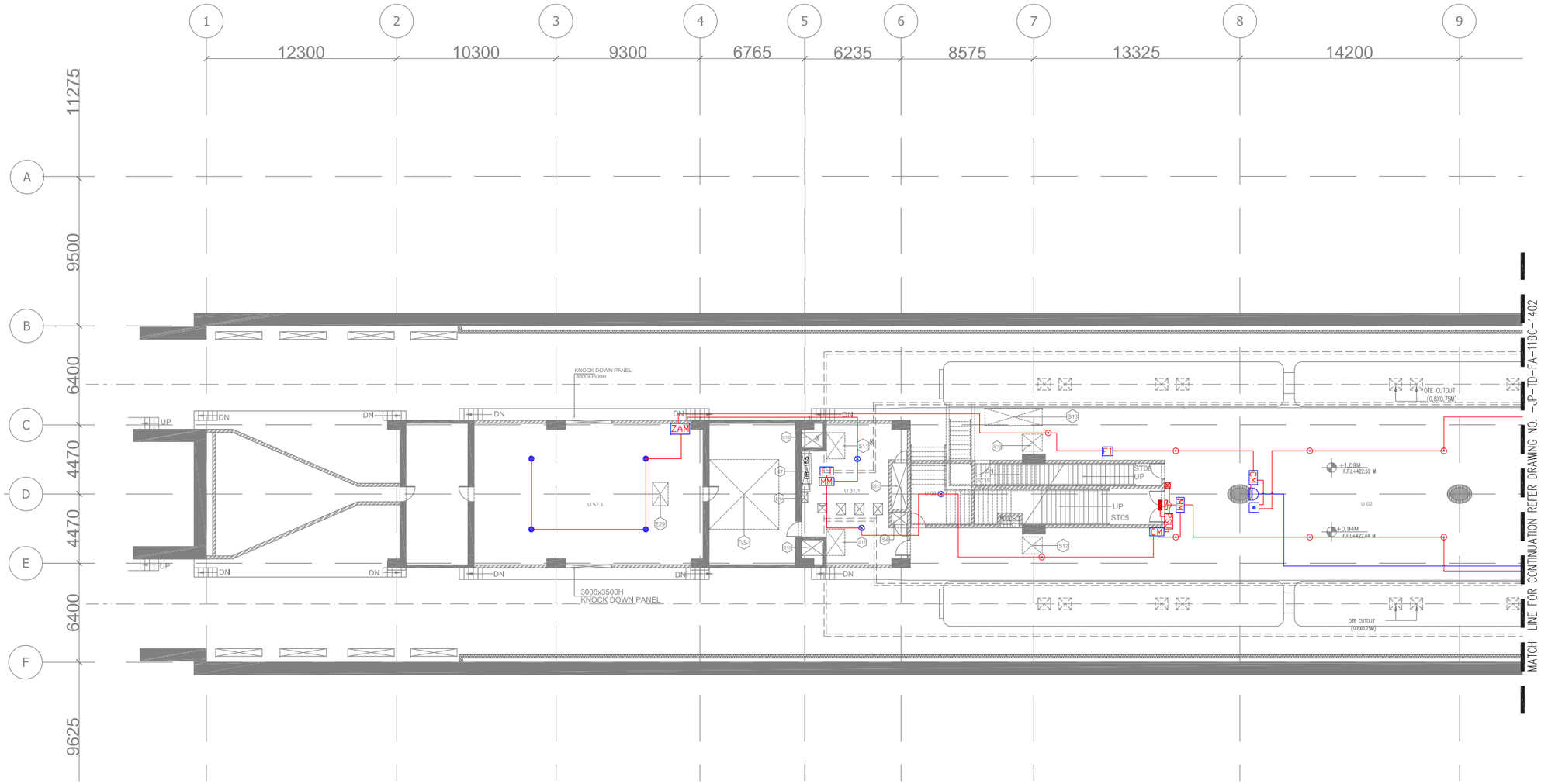
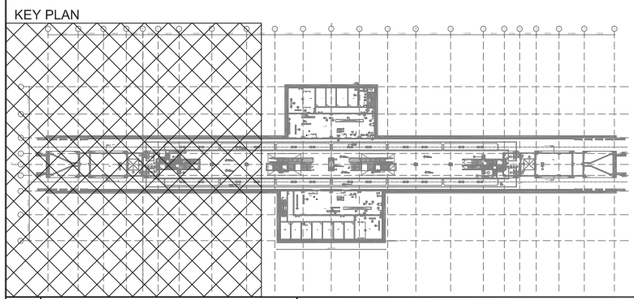


KEY PLAN



ROOM SCHEDULE				
S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (Mt.) (LxW)	AREA (Sqm.)
1	U02	PAID AREA		1332*
2	U08	FIRST AID SPACE	3.960 x 3.960	15.68
3	U13	REFUSE STORE 1	3.960 x 3.960	15.68
4	U18.3	DB ROOM	5.810 x 2.450	14.23
5	U18.4	DB ROOM	5.810 x 2.450	14.23
6	U25.1	AUXILLIARY SUB STATION(ASS)1	35.200 x 10.060	349.43*
7	U25.2	AUXILLIARY SUB STATION(ASS)2	36.100 x 10.025	357.21*
8	U27.1	ELECTRICAL UPS ROOM 1	11.050 x 10.340	114.21
9	U27.2	ELECTRICAL UPS ROOM 2	11.250 x 9.750	109.68
10	U28	GSM ROOM	4.105 x 7.740	31.77
11	U29	CDMA ROOM	4.000 x 7.740	30.96
12	U31.1	SEEPAGE ROOM 1	6.835 x 9.140	52.40*
13	U31.2	SEEPAGE ROOM 2	6.835 x 9.140	52.40*
14	U32	SEEWAGE ROOM	3.550 x 7.740	24.30*
15	U57.1	TUNNEL VENTILATION ROOM(TVS)1	14.800 x 9.140	133.70*
16	U57.2	TUNNEL VENTILATION ROOM(TVS)2	14.800 x 9.140	133.70*
17	PSB	PLATFORM SUPERVISOR BOOTH- 2 NO	2.500 x 2.600	6.50
18	U62.1	SPARE ROOM	4.100 x 7.075	29.00
19	U62.2	SPARE ROOM	4.100 x 7.075	29.00
20	U62.3	SPARE ROOM	4.100 x 7.075	28.31*
21	U63	E & M STAFF ROOM	4.550 x 7.740	35.22
22	U64	E & M STORE ROOM	4.000 x 7.740	30.96
23	U65	L & E STAFF	4.100 x 7.075	29.00
24	U66	L & E STORE	4.100 x 7.075	29.00
25	U67	TRACTION STAFF	4.100 x 7.075	29.00
26	U68	TRACTION STAFF-STORAGE	4.100 x 7.075	29.00

ELECTRICAL CUT OUT SCHEDULE				
CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA (Sq.M)	CUTOUT POSITION
E1	MAIN LT PANEL (DB-100/200)	1.00 X 11.3	11.3	FLOOR
E2	TRAF-01 FOR HT CABLE	0.75 X 0.30	0.225	FLOOR
E2A	TRAF-01 FOR CONTROL CABLE	0.20M ϕ SLEEVE	–	FLOOR
E3	HT PANEL INCOMING	1.80 X 1.10	1.98	FLOOR
E4	HT PANEL C&M	1.80 X 0.20	0.36	FLOOR
E5	AC DC-DB	0.30 X 0.30	0.09	FLOOR
E6	BATTERY CHARGER & BATTERY BANK	0.30 X 0.30	0.09	FLOOR
E7	DB-155/DB-255	2.50X 0.50	1.25	FLOOR
E8	ESCALATOR CONTROL PANEL	0.20M ϕ SLEEVE (8 Nos)	–	FLOOR
E9	DISTRIBUTION BOARD 12nos.	0.30 X 0.20	0.60	FLOOR
ES10	TVS CABLE TRAY	3.00 X 1.00	3.00	FLOOR
E11	RTU	0.30 M ϕ SLEEVE (2 Nos)	–	FLOOR
E12	MARSHALING BOX	0.15M ϕ SLEEVE (4 Nos)	–	FLOOR
E13	DB-111/DB-211	1.90 X 0.30	0.88	FLOOR
E14	PLC PANEL	0.60 X 0.40	0.24	FLOOR
E15	PLC PANEL	0.60 X 0.60	0.36	FLOOR
E16	DB-150/DB-250	5.30 X 0.60	3.18	FLOOR
E17	DB-151/DB-251	3.70 X 0.40	1.48	FLOOR
E18	DB-120/DB-220	3.70 X 0.40	1.48	FLOOR
E19	DB-110/DB-210	4.60 X 0.40	1.84	FLOOR
E20	CAPACITOR PANEL	1.00 X 0.30	0.30	FLOOR
E21	UPS-1 & UPS-2	2.50 X 0.30	0.75	FLOOR
E22	UPS ATS	1.10 X 0.30	0.33	FLOOR
E23	DB-180/280	3.70 X 0.40	1.48	FLOOR
E24	BATTERY RACK – 4NOS.	0.20 X 0.20	0.04	FLOOR
E25	ELECTRICAL SHAFT	1.00 X 0.50	0.09	FLOOR
E26	ELECTRICAL SHAFT	1.20 X 0.50	0.5	FLOOR
E27	BMS CONTROL PANEL	1.20 X 0.44	0.6	FLOOR
E28	ELECTRICAL SHAFT	1.00 X 0.50	0.528	FLOOR

LEGEND:–

S.N.	SYMBOL	DESCRIPTION
1		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE CEILING/AT SLAB
2		MULTIPLE SENSOR DETECTOR ABOVE FALSE CEILING
3		HIGH TEMPERATURE HEAT DETECTOR
4		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE FLOOR
5		DUCT DETECTOR
6		MANUAL CALL POINT
7		HOOTER WITH STROBE
8		RESPONSE INDICATOR
9	CM	CONTROL MODULE
10	F.I.	FAULT ISOLATOR
11	F.T.	FIRE TRACE SYSTEM
12	MM	MONITOR MODULE
13	FSH	FLOW SWITCH FOR HYDRANT SYSTEM
14	FSS	FLOW SWITCH FOR SPRINKLER SYSTEM
15	PSU	POWER SUPPLY UNIT
16	ZAM	ZONAL ADDRESS MODULE
17		MAGNETIC LOCK
18		MAGNETIC CONTACT
19		EMERGENCY DOOR RELEASE UNIT
20	MP	MIMIC PANEL
21		REPEATER PANEL
22		CABLE FOR FIRE ALARM LAYOUT
23		CABLE FOR BELOW FALSE FLOOR
24		CABLE FOR HOOTER CUM STROBE
25		FIRE ALARM PANEL

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REFERENCE DRAWINGS

Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC

DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH
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DY CSTE/AFC		ED/S&T	CSO
DY CSTE/SIGNALLING	CSTE-III	GM/O	GM/M
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II
DY CEE(E)UG-TR	CGM(E) UG-TR	PM	CPM

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Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture	Structure	E&M
Design In-charge/ Coordinator	Design In-charge/ Coordinator	Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

ayesa Engineering. Information. Imagination.

56, Indo-Asia House, Institutional Area, sector-44
Gurgaon - 122002 (Haryana)

DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: FIRE ALARM LAYOUT PLATFORM LEVEL

DRAWN BY:	CHECKED BY:	VERIFIED BY:	
SURJEET	H.O.B	L.R.S	JP/EW/1B/DDC01 FIRE ALARM

DATE:	REV:	GRAPHICAL SCALE:	STATUS:
31-03.2015	R0	1:150	FOR TENDER

DRAWING NUMBER:	SHEET NO.	SHEET SIZE	ORDER N°
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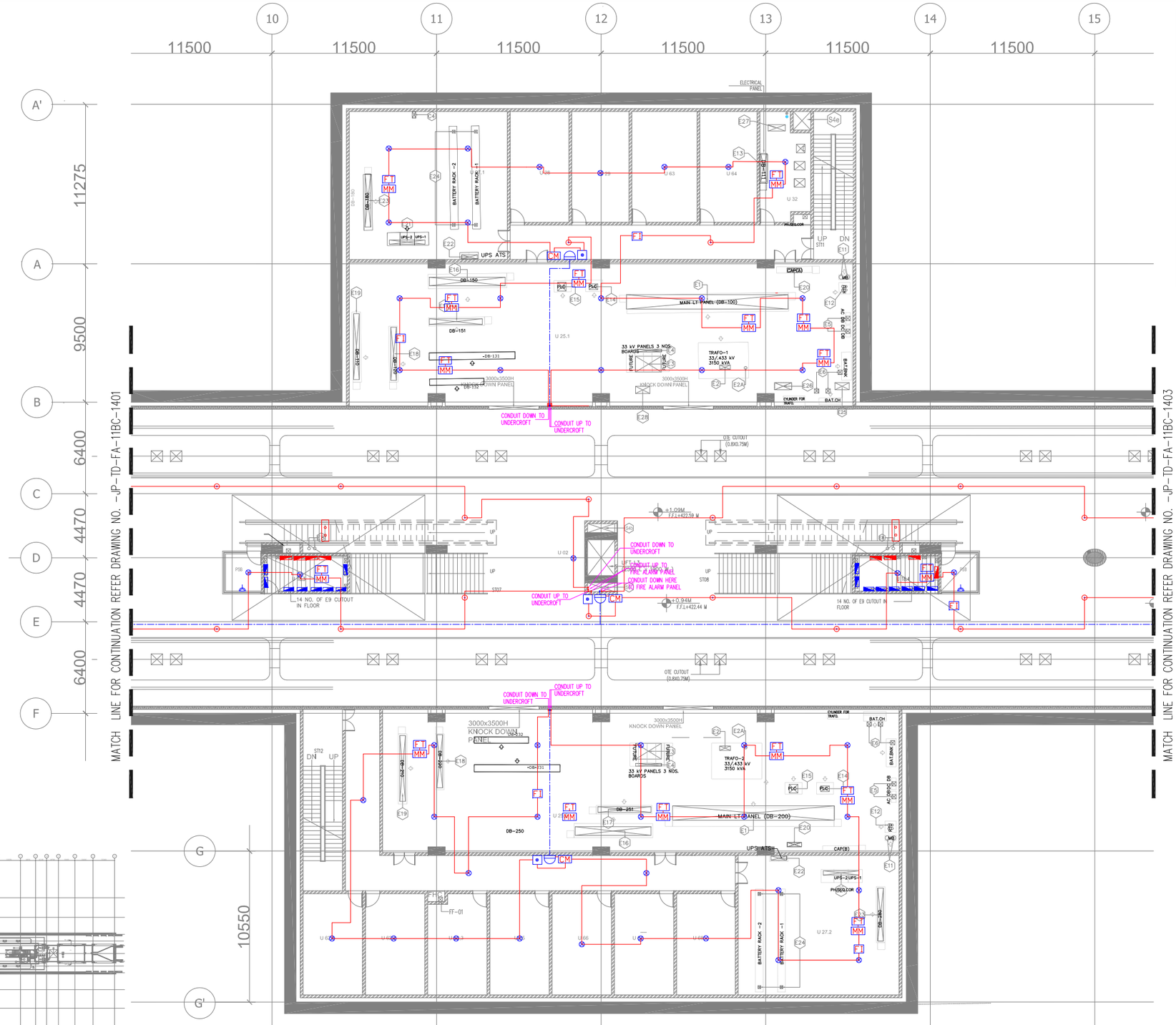


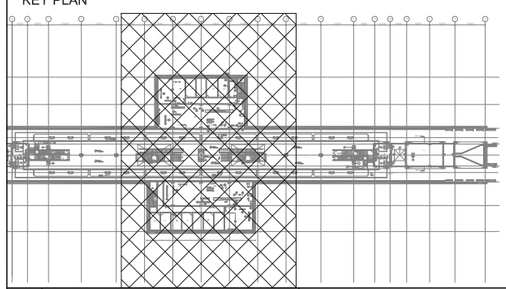
ELECTRICAL CUT OUT SCHEDULE				
CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA (Sq.M)	CUTOUT POSITION
E1	MAIN LT PANEL (DB-100/200)	1.00 X 11.3	11.3	FLOOR
E2	TRAF-01 FOR HT CABLE	0.75 X 0.30	0.225	FLOOR
E2A	TRAF-01 FOR CONTROL CABLE	0.20M ø SLEEVE	–	FLOOR
E3	HT PANEL INCOMING	1.80 X 1.10	1.98	FLOOR
E4	HT PANEL C&M	1.80 X 0.20	0.36	FLOOR
E5	AC DC-DB	0.30 X 0.30	0.09	FLOOR
E6	BATTERY CHARGER & BATTERY BANK	0.30 X 0.30	0.09	FLOOR
E7	DB-155/DB-255	2.50X 0.50	1.25	FLOOR
E8	ESCALATOR CONTROL PANEL	0.20M ø SLEEVE (8 Nos)	–	FLOOR
E9	DISTRIBUTION BOARD 12nos.	0.30 X 0.20	0.60	FLOOR
ES10	TVS CABLE TRAY	3.00 X 1.00	3.00	FLOOR
E11	RTU	0.30 M ø SLEEVE (2 Nos)	–	FLOOR
E12	MARSHALING BOX	0.15M ø SLEEVE (4 Nos)	–	FLOOR
E13	DB-111/DB-211	1.90 X 0.30	0.88	FLOOR
E14	PLC PANEL	0.60 X 0.40	0.24	FLOOR
E15	PLC PANEL	0.60 X 0.60	0.36	FLOOR
E16	DB-150/DB-250	5.30 X 0.60	3.18	FLOOR
E17	DB-151/DB-251	3.70 X 0.40	1.48	FLOOR
E18	DB-120/DB-220	3.70 X 0.40	1.48	FLOOR
E19	DB-110/DB-210	4.60 X 0.40	1.84	FLOOR
E20	CAPACITOR PANEL	1.00 X 0.30	0.30	FLOOR
E21	UPS-1 & UPS-2	2.50 X 0.30	0.75	FLOOR
E22	UPS ATS	1.10 X 0.30	0.33	FLOOR
E23	DB-180/280	3.70 X 0.40	1.48	FLOOR
E24	BATTERY RACK – 4NOS.	0.20 X 0.20	0.04	FLOOR
E25	ELECTRICAL SHAFT	1.00 X 0.50	0.09	FLOOR
E26	ELECTRICAL SHAFT	1.20 X 0.50	0.5	FLOOR
E27	BMS CONTROL PANEL	1.20 X 0.44	0.6	FLOOR
E28	ELECTRICAL SHAFT	1.00 X 0.50	0.528	FLOOR

ROOM SCHEDULE				
S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (Mt.) (LxW)	AREA (Sqm.)
1	U02	PAID AREA		1332*
2	U08	FIRST AID SPACE	3.960 x 3.960	15.68
3	U13	REFUSE STORE 1	3.960 x 3.960	15.68
4	U18.3	DB ROOM	5.810 x 2.450	14.23
5	U18.4	DB ROOM	5.810 x 2.450	14.23
6	U25.1	AUXILLIARY SUB STATION(ASS)1	35.200 x 10.060	349.43*
7	U25.2	AUXILLIARY SUB STATION(ASS)2	36.100 x 10.025	357.21*
8	U27.1	ELECTRICAL UPS ROOM 1	11.050 x 10.340	114.21
9	U27.2	ELECTRICAL UPS ROOM 2	11.250 x 9.750	109.68
10	U28	GSM ROOM	4.105 x 7.740	31.77
11	U29	COMA ROOM	4.000 x 7.740	30.96
12	U31.1	SEEPAGE ROOM 1	6.835 x 9.140	52.40*
13	U31.2	SEEPAGE ROOM 2	6.835 x 9.140	52.40*
14	U32	SEEWAGE ROOM	3.550 x 7.740	24.30*
15	U57.1	TUNNEL VENTILATION ROOM(TVS)1	14.800 x 9.140	133.70*
16	U57.2	TUNNEL VENTILATION ROOM(TVS)2	14.800 x 9.140	133.70*
17	PSB	PLATFORM SUPERVISOR BOOTH– 2 NO	2.500 x 2.600	6.50
18	U62.1	SPARE ROOM	4.100 x 7.075	29.00
19	U62.2	SPARE ROOM	4.100 x 7.075	29.00
20	U62.3	SPARE ROOM	4.100 x 7.075	28.31*
21	U63	E & M STAFF ROOM	4.550 x 7.740	35.22
22	U64	E & M STORE ROOM	4.000 x 7.740	30.96
23	U65	L & E STAFF	4.100 x 7.075	29.00
24	U66	L & E STORE	4.100 x 7.075	29.00
25	U67	TRACTION STAFF	4.100 x 7.075	29.00
26	U68	[illegible]	4.100 x 7.075	29.00

LEGEND: –

S.N.	SYMBOL	DESCRIPTION
1	⊗	MULTIPLE SENSOR DETECTOR FOR BELOW FALSE CEILING/AT SLAB
2	⊙	MULTIPLE SENSOR DETECTOR ABOVE FALSE CEILING
3	●	HIGH TEMPERATURE HEAT DETECTOR
4	▨	MULTIPLE SENSOR DETECTOR FOR BELOW FALSE FLOOR
5		DUCT DETECTOR
6		MANUAL CALL POINT
7		HOOTER WITH STROBE
8		RESPONSE INDICATOR
9	CM	CONTROL MODULE
10	F.I.	FAULT ISOLATOR
11	F.T.	FIRE TRACE SYSTEM
12	MM	MONITOR MODULE
13	FSH	FLOW SWITCH FOR HYDRANT SYSTEM
14	FSS	FLOW SWITCH FOR SPRINKLER SYSTEM
15	PSU	POWER SUPPLY UNIT
16	ZAM	ZONAL ADDRESS MODULE
17		MAGNETIC LOCK
18		MAGNETIC CONTACT
19	⊠	EMERGENCY DOOR RELEASE UNIT
20	M.P.	MIMIC PANEL
21		REPEATER PANEL
22		CABLE FOR FIRE ALARM LAYOUT
23		CABLE FOR BELOW FALSE FLOOR
24		CABLE FOR HOOTER CUM STROBE
25		FIRE ALARM PANEL

KEY PLAN



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REFERENCE DRAWINGS

Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC

DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH
DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH
DY CSTE/AFC		ED/S&T	CSO
DY CSTE/SIGNALLING	CSTE-III	GM/O	GM/M
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II
DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM

Certified that this document has been designed and checked in accordance with DDC Quality Assurance Plan.

Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture	Structure	E&M
Design In-charge/ Coordinator	Design In-charge/ Coordinator	Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

ayesa Engineering. Information. Imagination.

56, Indo-Asia House, Institutional Area, sector-44
Gurgaon - 122002 (Haryana)

DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: FIRE ALARM LAYOUT PLATFORM LEVEL

DRAWN BY: SURJEET	CHECKED BY: H.O.B	VERIFIED BY: L.R.S	JP/EW/1B/DDC01
DATE: 31-03.2015	REV: R0	GRAPHICAL SCALE: 1:150	STATUS: FOR TENDER
DRAWING NUMBER: JP-TD-FA-11BC-1402	SHEET NO. 2 OF 3	SHEET SIZE A1	ORDER N° P36-0017

FIRE ALARM

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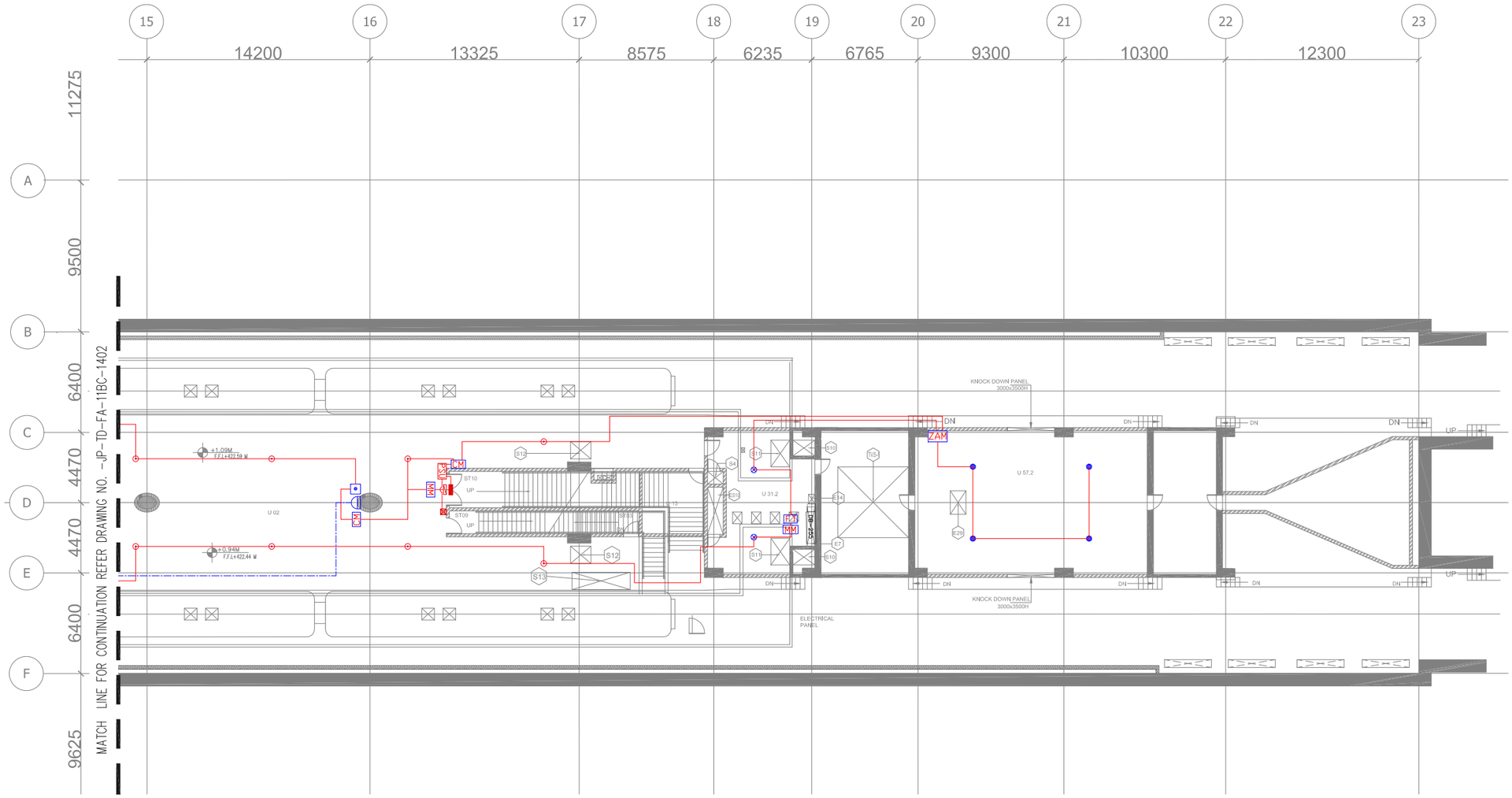
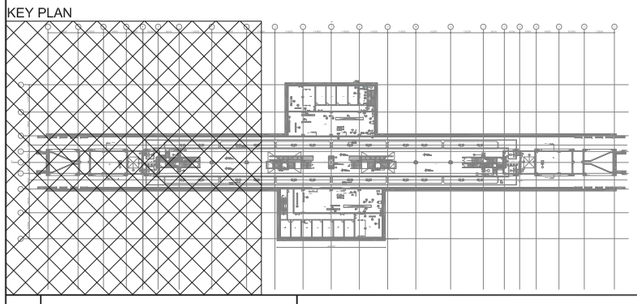


LEGEND: –

S.N.	SYMBOL	DESCRIPTION
1		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE CEILING/AT SLAB
2		MULTIPLE SENSOR DETECTOR ABOVE FALSE CEILING
3		HIGH TEMPERATURE HEAT DETECTOR
4		MULTIPLE SENSOR DETECTOR FOR BELOW FALSE FLOOR
5		DUCT DETECTOR
6		MANUAL CALL POINT
7		HOOTER WITH STROBE
8		RESPONSE INDICATOR
9	CM	CONTROL MODULE
10	F.I.	FAULT ISOLATOR
11	F.T.	FIRE TRACE SYSTEM
12	MM	MONITOR MODULE
13	FSH	FLOW SWITCH FOR HYDRANT SYSTEM
14	FSS	FLOW SWITCH FOR SPRINKLER SYSTEM
15	PSU	POWER SUPPLY UNIT
16	ZAM	ZONAL ADDRESS MODULE
17		MAGNETIC LOCK
18		MAGNETIC CONTACT
19		EMERGENCY DOOR RELEASE UNIT
20	M.P.	MIMIC PANEL
21		REPEATER PANEL
22		CABLE FOR FIRE ALARM LAYOUT
23		CABLE FOR BELOW FALSE FLOOR
24		CABLE FOR HOOTER CUM STROBE
25		FIRE ALARM PANEL

KEY PLAN



ROOM SCHEDULE

S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (ML) (LxW)	AREA (Sqm.)
1	U02	PAID AREA		1.332*
2	U08	FIRST AID SPACE	3.960 x 3.960	15.68
3	U13	REFUSE STORE 1	3.960 x 3.960	15.68
4	U18.3	DB ROOM	5.810 x 2.450	14.23
5	U18.4	DB ROOM	5.810 x 2.450	14.23
6	U25.1	AUXILLIARY SUB STATION(ASS)1	35.200 x 10.060	349.43*
7	U25.2	AUXILLIARY SUB STATION(ASS)2	36.100 x 10.025	357.21*
8	U27.1	ELECTRICAL UPS ROOM 1	11.050 x 10.340	114.21
9	U27.2	ELECTRICAL UPS ROOM 2	11.250 x 9.750	109.68
10	U28	GSM ROOM	4.105 x 7.740	31.77
11	U29	CDMA ROOM	4.000 x 7.740	30.96
12	U31.1	SEEPAGE ROOM 1	6.835 x 9.140	52.40*
13	U31.2	SEEPAGE ROOM 2	6.835 x 9.140	52.40*
14	U32	SEEWAGE ROOM	3.550 x 7.740	24.30*
15	U57.1	TUNNEL VENTILATION ROOM(TVS)1	14.800 x 9.140	133.70*
16	U57.2	TUNNEL VENTILATION ROOM(TVS)2	14.800 x 9.140	133.70*
17	P38	PLATFORM SUPERVISOR BOOTH- 2 NO	2.500 x 2.600	6.50
18	U62.1	SPARE ROOM	4.100 x 7.075	29.00
19	U62.2	SPARE ROOM	4.100 x 7.075	29.00
20	U62.3	SPARE ROOM	4.100 x 7.075	28.31*
21	U63	E & M STAFF ROOM	4.550 x 7.740	35.22
22	U64	E & M STORE ROOM	4.000 x 7.740	30.96
23	U65	L & E STAFF	4.100 x 7.075	29.00
24	U66	L & E STORE	4.100 x 7.075	29.00
25	U67	TRACTION STAFF	4.100 x 7.075	29.00
26	U68	TRACTION STAFF-STORAGE	4.100 x 7.075	29.00

* AS PER RDSO

ELECTRICAL CUT OUT SCHEDULE

CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA (Sq.M)	CUTOUT POSITION
E1	MAIN LT PANEL (DB-100/200)	1.00 X 11.3	11.3	FLOOR
E2	TRAF-01 FOR HT CABLE	0.75 X 0.30	0.225	FLOOR
E2A	TRAF-01 FOR CONTROL CABLE	0.20M ø SLEEVE	–	FLOOR
E3	HT PANEL INCOMING	1.80 X 1.10	1.98	FLOOR
E4	HT PANEL C&M	1.80 X 0.20	0.36	FLOOR
E5	AC DC-DB	0.30 X 0.30	0.09	FLOOR
E6	BATTERY CHARGER & BATTERY BANK	0.30 X 0.30	0.09	FLOOR
E7	DB-155/DB-255	2.50X 0.50	1.25	FLOOR
E8	ESCALATOR CONTROL PANEL	0.20M ø SLEEVE (8 Nos)	–	FLOOR
E9	DISTRIBUTION BOARD 12nos.	0.30 X 0.20	0.60	FLOOR
ES10	TVS CABLE TRAY	3.00 X 1.00	3.00	FLOOR
E11	RTU	0.30 M ø SLEEVE (2 Nos)	–	FLOOR
E12	MARSHALING BOX	0.15M ø SLEEVE (4 Nos)	–	FLOOR
E13	DB-111/DB-211	1.90 X 0.30	0.88	FLOOR
E14	PLC PANEL	0.60 X 0.40	0.24	FLOOR
E15	PLC PANEL	0.60 X 0.60	0.36	FLOOR
E16	DB-150/DB-250	5.30 X 0.60	3.18	FLOOR
E17	DB-151/DB-251	3.70 X 0.40	1.48	FLOOR
E18	DB-120/DB-220	3.70 X 0.40	1.48	FLOOR
E19	DB-110/DB-210	4.60 X 0.40	1.84	FLOOR
E20	CAPACITOR PANEL	1.00 X 0.30	0.30	FLOOR
E21	UPS-1 & UPS-2	2.50 X 0.30	0.75	FLOOR
E22	UPS ATS	1.10 X 0.30	0.33	FLOOR
E23	DB-180/280	3.70 X 0.40	1.48	FLOOR
E24	BATTERY RACK – 4NOS.	0.20 X 0.20	0.04	FLOOR
E25	ELECTRICAL SHAFT	1.00 X 0.50	0.09	FLOOR
E26	ELECTRICAL SHAFT	1.20 X 0.50	0.5	FLOOR
E27	BMS CONTROL PANEL	1.20 X 0.44	0.6	FLOOR
E28	ELECTRICAL SHAFT	1.00 X 0.50	0.528	FLOOR

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REFERENCE DRAWINGS

Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC

DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH
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DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM

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Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture	Structure	E&M
Design In-charge/ Coordinator	Design In-charge/ Coordinator	Design In-charge/ Coordinator

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ayesa Engineering. Information. Imagination.

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Gurgaon - 122002 (Haryana)

DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: FIRE ALARM LAYOUT PLATFORM LEVEL

DRAWN BY:	CHECKED BY:	VERIFIED BY:
SURJEET	H.O.B	L.R.S

DATE:	REV:	GRAPHICAL SCALE:	STATUS:
31-03.2015	R0	1:150	FOR TENDER

DRAWING NUMBER:	SHEET NO.	SHEET SIZE	ORDER N°
JP-TD-FA-11BC-1403	3 OF 3	A1	P36-0017

JP/EW/1B/DDC01 FIRE ALARM

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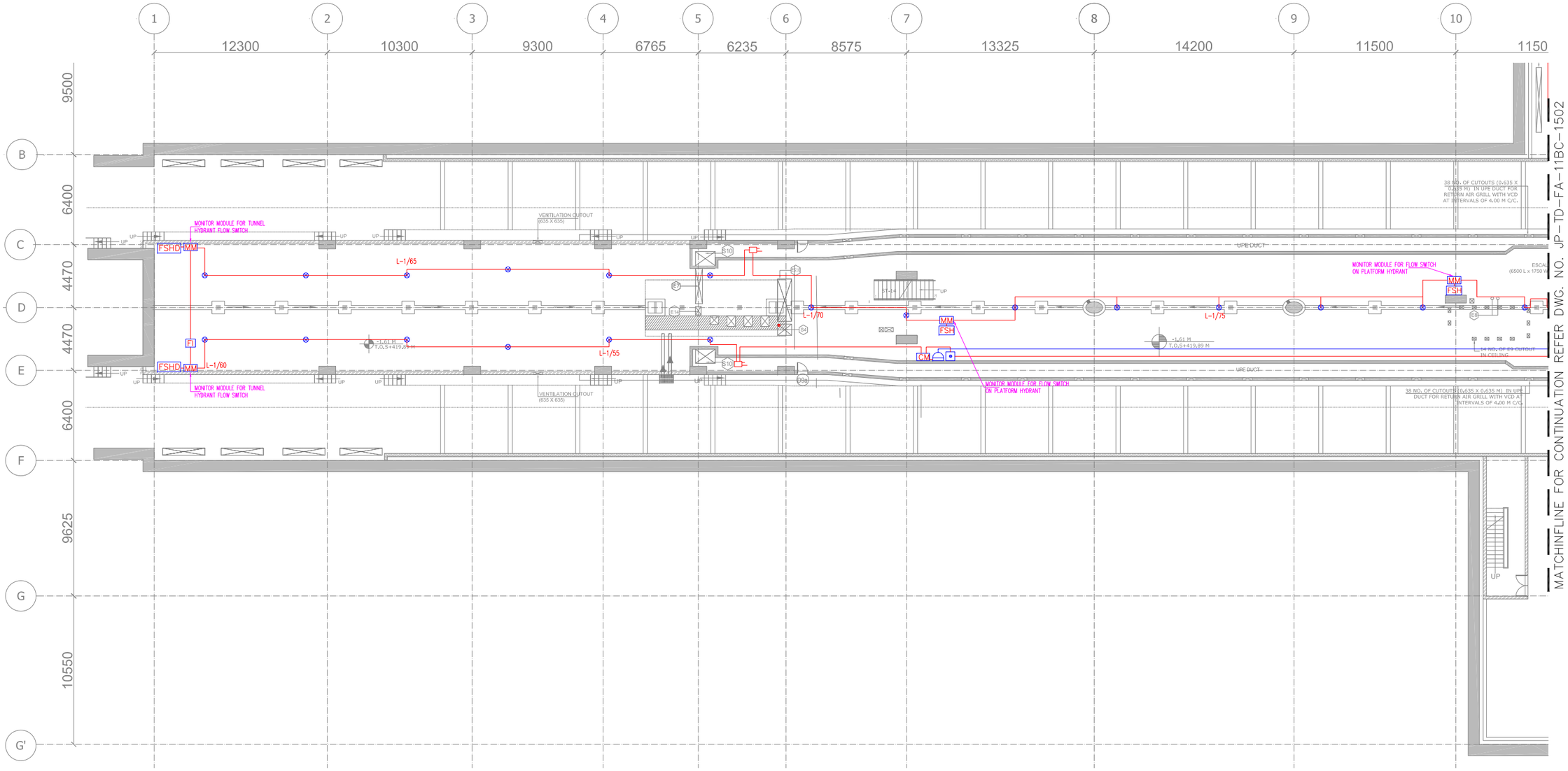

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5		DUCT DETECTOR
6		MANUAL CALL POINT
7		HOOTER WITH STROBE
8		RESPONSE INDICATOR
9	CM	CONTROL MODULE
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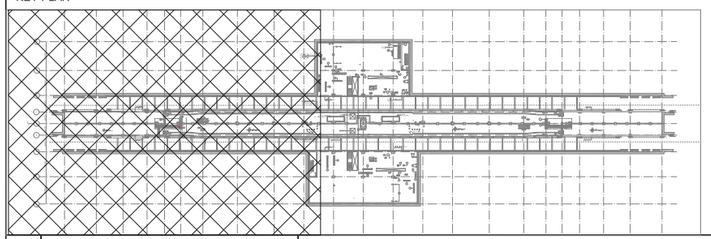
22		CABLE FOR FIRE ALARM LAYOUT
23		CABLE FOR BELOW FALSE FLOOR
24		CABLE FOR HOOTER CUM STROBE
25		FIRE ALARM PANEL

KEY PLAN



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Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

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Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture	Structure	E&M
Design In-charge/ Coordinator	Design In-charge/ Coordinator	Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

ayesa

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Gurgaon - 122002 (Haryana)

DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: **BADI CHOUPAR**

DRAWING TITLE: FIRE ALARM LAYOUT UNDERCROFT LEVEL

DRAWN BY:	CHECKED BY:	VERIFIED BY:	
SURJEET	H.O.B	LRS	JP/EW/1B/DDC01
DATE: 31-03.2015 / REV: R0	GRAPHICAL SCALE: 1:150	STATUS: FOR TENDER	FIRE ALARM

DRAWING NUMBER:	SHEET NO.	SHEET SIZE	ORDER N°
JP-TD-FA-11BC-1501	1 OF 3	UNE A1	P36-0017

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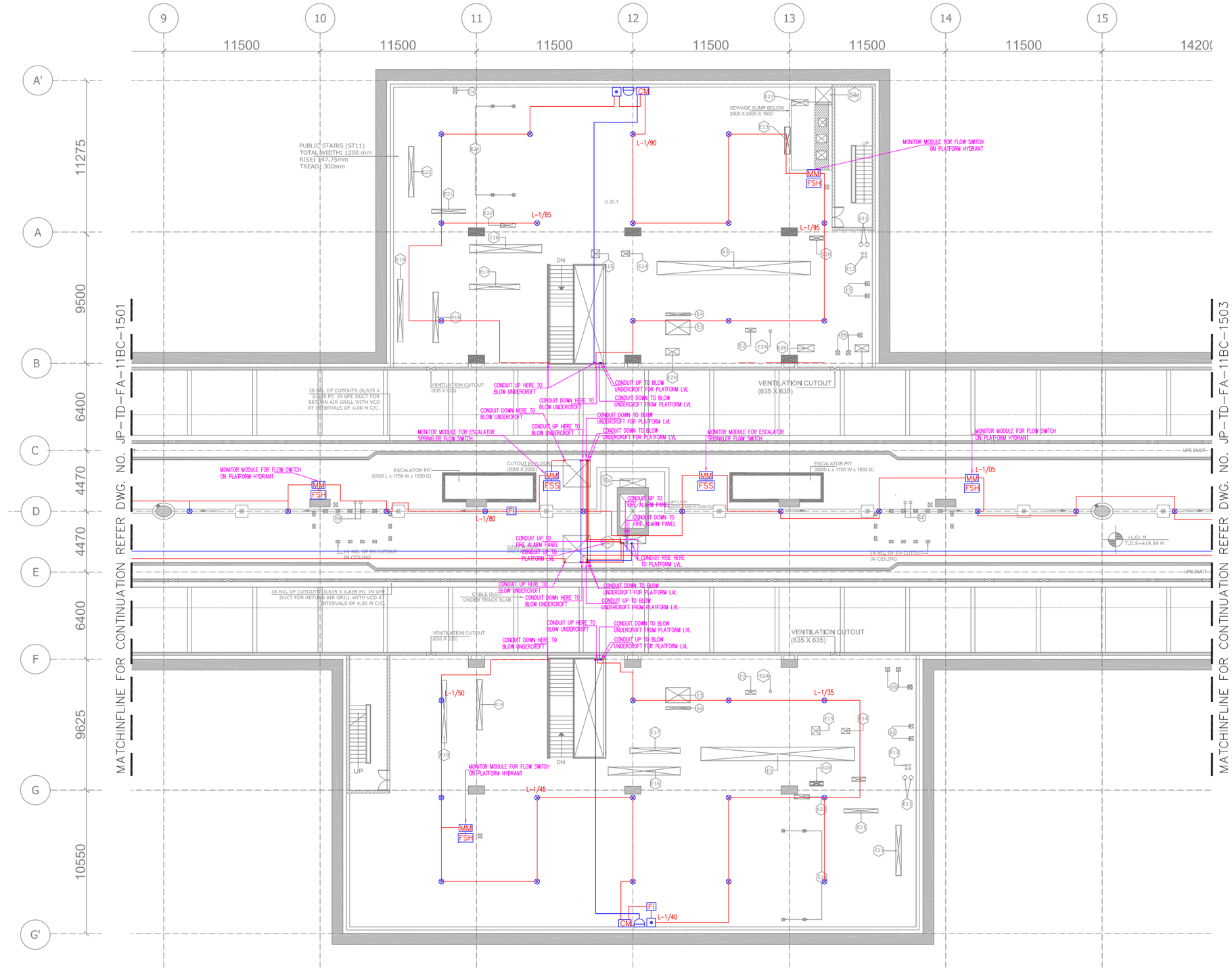
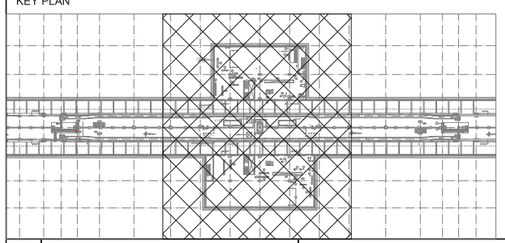


KEY PLAN



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REFERENCE DRAWINGS

Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

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Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: **BADI CHOUPAR**

DRAWING TITLE: FIRE ALARM LAYOUT UNDERCROFT LEVEL

DRAWN BY :	CHECKED BY:	VERIFIED BY:
SURJEET	H.O.B	LRS

DATE:	REV:	GRAPHICAL SCALE:	STATUS:
31-03.2015	R0	1:150	FOR TENDER

DRAWING NUMBER:	SHEET NO.	SHEET SIZE	ORDER N°
JP-TD-FA-11BC-1502	1 OF 3	UNE A1	P36-0017

JP/EW/1B/DDC01

FIRE ALARM

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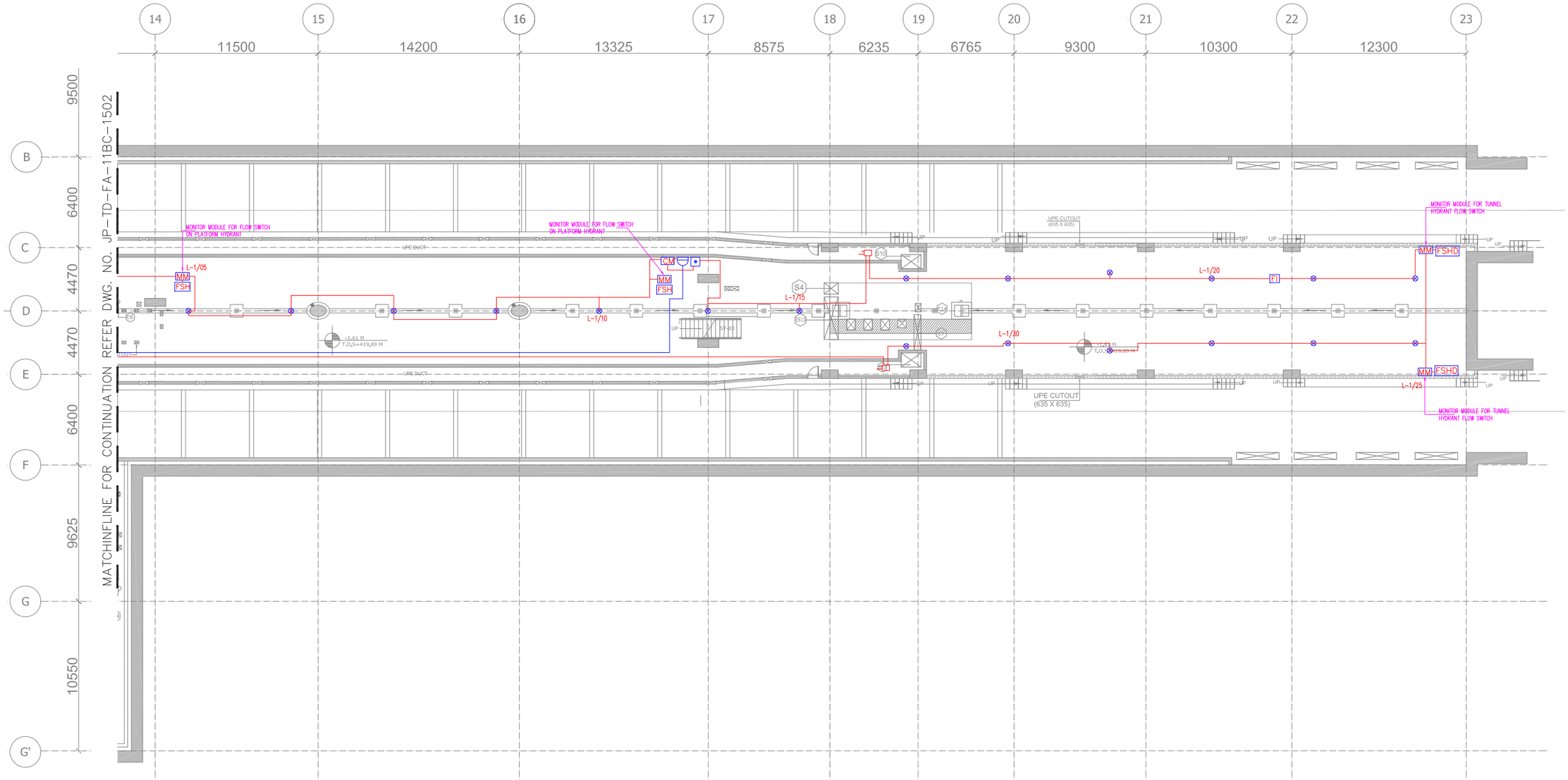

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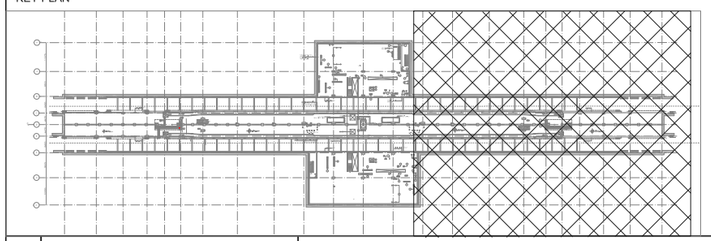
KEY PLAN



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Drg. No.	Description

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Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

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Design In-charge/ Coordinator	Design In-charge/ Coordinator	Design In-charge/ Coordinator

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PHASE 1B JAIPUR METRO PROJECT

STATION: **BADI CHOUPAR**

DRAWING TITLE: FIRE ALARM LAYOUT UNDERCROFT LEVEL

DRAWN BY:	CHECKED BY:	VERIFIED BY:
SURJEET	H.O.B	LRS

DATE:	REV:	GRAPHICAL SCALE:	STATUS:
31-03.2015	R0	1:150	FOR TENDER

DRAWING NUMBER:	SHEET NO.	SHEET SIZE	ORDER Nº
JP-TD-FA-11BC-1503	1 OF 3	UNE A1	P36-0017

JP/EW/1B/DDC01

FIRE ALARM

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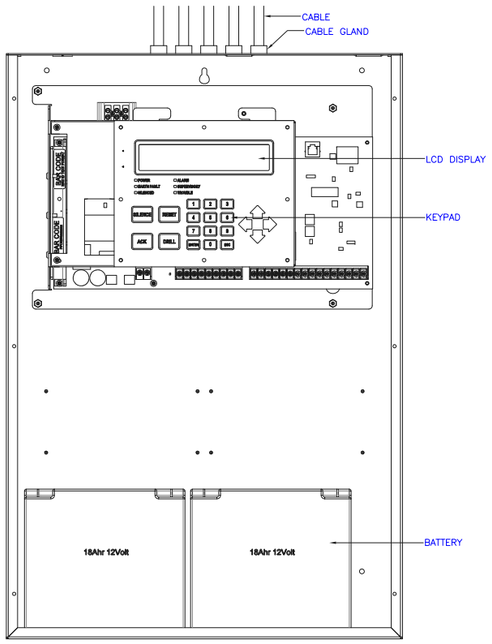
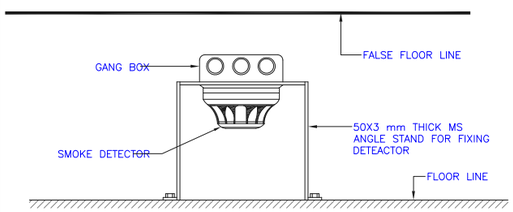
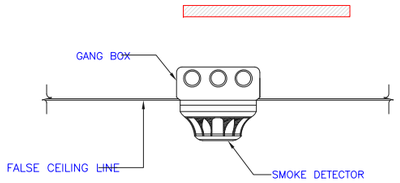


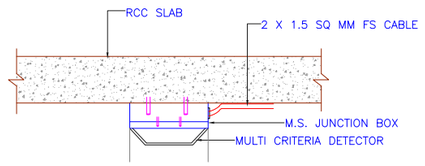
TYPICAL FIRE ALARM PANEL DETAIL



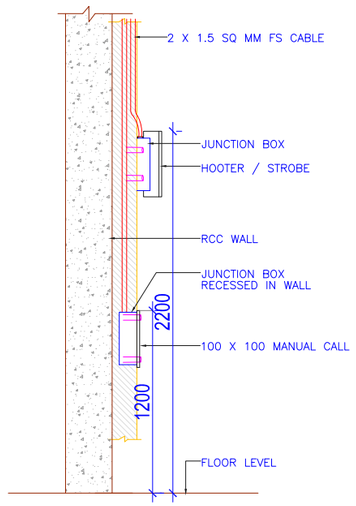
DETAIL OF DETECTOR FOR BELOW FALSE FLOOR



DETAIL OF DETECTOR FOR FALSE CEILING

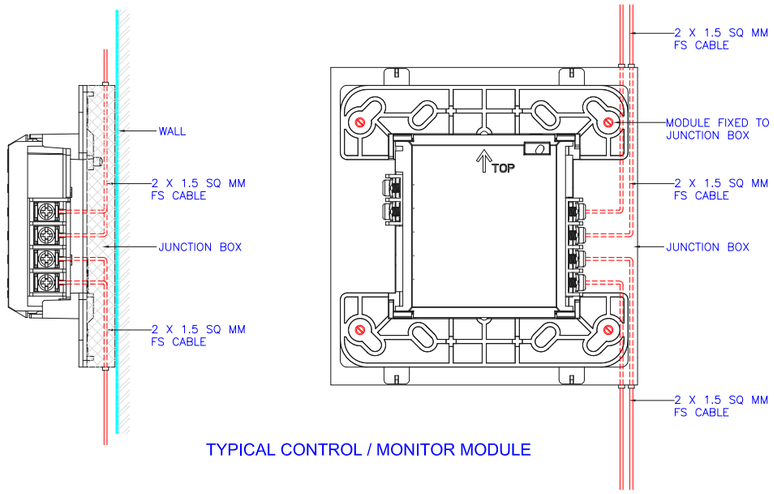


INSTALLATION DETAILS FOR ANY TYPE DETECTOR LOCATED ON TRUE CEILING

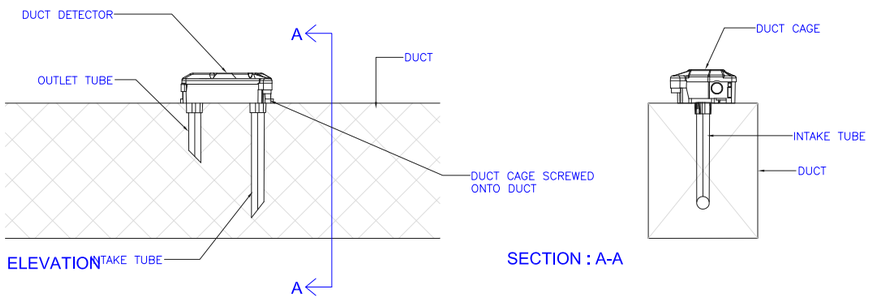


INSTALLATION DETAILS FOR HOOTER & MANUAL CALL BOX MODULES LOCATED ON WALL

THE DETAILS ARE TYPICAL AND SHALL DEPEND ON THE MAKE FOR INSTALLATION DETAIL.
DUCT DETECTOR SHALL BE SCREWED ONTO THE DUCT BODY.
CONTROL MODULE, MONITOR MODULE AND FAULT ISOLATOR SHALL HAVE SAME DETAIL.



TYPICAL CONTROL / MONITOR MODULE



ELEVATION

SECTION : A-A

DETAIL OF DUCT DETECTOR

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2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
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5. ALL DOOR/WINDOW CILL & LINTEL LEVELS ARE MEASURED FROM MAIN FLOOR FINISHED LEVELS.

REFERENCE DRAWINGS

Drg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC

DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH
DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH
DY CSTE/AFC		ED/S&T	CSO
DY CSTE/SIGNALLING	CSTE-III	GM/O	GM/M
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II
DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM

Certified that this document has been designed and checked in accordance with DDC Quality Assurance Plan.

Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture	Structure	E&M
Design In-charge/ Coordinator	Design In-charge/ Coordinator	Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

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DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: TYPICAL DETAIL OF FIRE ALARM EQUIPMENT

DRAWN BY:	CHECKED BY:	VERIFIED BY:	
SURJEET	H.O.B	LRS	JP/EW/1B/DDC01
DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: NTS	STATUS: FOR TENDER
DRAWING NUMBER: JP-TD-FA-11BC-1601	SHEET NO. 1 OF 1	SHEET SIZE UNE A1	ORDER N° P36-0017

FIRE ALARM

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