

LIST OF ECS/TVS DRAWINGS

SR.NO.	DESCRIPTION	DRAWING NO.	REVISION NO.
	BADI CHOUPER STATION		
01	LIST OF ECS/TVS DRAWINGS	JP-TD-ECS/TVS-11BC-1001	R0
02	ECS-TVS LAYOUT LEGENDS & NOTES	JP-TD-ECS/TVS-11BC-1002	R0
03	ECS LAYOUT ANCIALLARY BUILDING LOWER GROUND & TERRACE LEVEL	JP-TD-ECS-11BC-1201	R0
04	ECS-TVS LAYOUT CONCOURSE LEVEL (SHEET-1 OF 3)	JP-TD-ECS/TVS-11BC-1301	R0
05	ECS-TVS LAYOUT CONCOURSE LEVEL (SHEET-2 OF 3)	JP-TD-ECS/TVS-11BC-1302	R0
06	ECS-TVS LAYOUT CONCOURSE LEVEL (SHEET-3 OF 3)	JP-TD-ECS/TVS-11BC-1303	R0
07	ECS-TVS LAYOUT PLATFORM LEVEL (SHEET-1 OF 3)	JP-TD-ECS/TVS-11BC-1401	R0
08	ECS-TVS LAYOUT PLATFORM LEVEL (SHEET-2 OF 3)	JP-TD-ECS/TVS-11BC-1402	R0
09	ECS-TVS LAYOUT PLATFORM LEVEL (SHEET-3 OF 3)	JP-TD-ECS/TVS-11BC-1403	R0
10	ECS-TVS LAYOUT UNDERCROFT LEVEL (SHEET-1 OF 3)	JP-TD-ECS/TVS-11BC-1501	R0
11	ECS-TVS LAYOUT UNDERCROFT LEVEL (SHEET-2 OF 3)	JP-TD-ECS/TVS-11BC-1502	R0
12	ECS-TVS LAYOUT UNDERCROFT LEVEL (SHEET-3 OF 3)	JP-TD-ECS/TVS-11BC-1503	R0
13	CHILLED WATER PIPING SCHEMATIC LAYOUT	JP-TD-ECS-11BC-1601	R0
14	CONDENSER WATER PIPING SCHEMATIC	JP-TD-ECS-11BC-1602	R0
15	AIR FLOW SCHEMATIC – ECS PLANT ROOM 19.1 CLOSE MODE (SUMMER)	JP-TD-ECS-11BC-1603	R0
16	AIR FLOW SCHEMATIC – PLATFORM 19.1 FIRE MODE (EMERGENCY)	JP-TD-ECS-11BC-1604	R0
17	AIR FLOW SCHEMATIC – ECS PLANT 19.1 END OPEN MODE (WINTER)	JP-TD-ECS-11BC-1605	R0
18	AIR FLOW SCHEMATIC – ECS PLANT ROOM 19.2 CLOSED MODE (SUMMER)	JP-TD-ECS-11BC-1606	R0
19	AIR FLOW SCHEMATIC – PLATFORM 19.2 FIRE MODE (EMERGENCY)	JP-TD-ECS-11BC-1607	R0
20	AIR FLOW SCHEMATIC – ECS PLANT ROOM 19.2 OPEN MODE (WINTER)	JP-TD-ECS-11BC-1608	R0
21	AIR FLOW SCHEMATIC – ECS PLANT 19.1 (EMERGENCY CONCOURSE)	JP-TD-ECS-11BC-1605A	R0
22	AIR FLOW SCHEMATIC – ECS PLANT 19.2 (EMERGENCY CONCOURSE)	JP-TD-ECS-11BC-1608A	R0
23	AIR FLOW SCHEMATIC – AIR FLOW VENTILATION ECS PLANT ROOM 19.1	JP-TD-ECS-11BC-1609	R0
24	AIR FLOW SCHEMATIC – AIR FLOW VENTILATION ECS PLANT ROOM 19.2	JP-TD-ECS-11BC-1610	R0
25	AIR FLOW SCHEMATIC FOR FCU	JP-TD-ECS-11BC-1611	R0

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

REFERENCE DRAWINGS

Dwg. 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	GMM
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: LIST OF ECS/TVS DRAWINGS

DRAWN BY: ADIL

CHECKED BY: NITIN

VERIFIED BY: L.R.S

DATE: 31-03-2015

REV: R0

GRAPHICAL SCALE: N.T.S.

STATUS: FOR TENDER

DRAWING NUMBER: JP-TD-ECS/TVS-11BC-1001

SHEET NO. 1 OF 1

SHEET SIZE UNE A1

ORDER N° P36-0017

JP/EW/1B/DDC01

ECS/TVS

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NOTES:-

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2. ALL SUPPLY AND RETURN AIR DUCTING INSULATED WITH 25mm. THK. FIBREGLASS INSULATION IN A/C AREA.
3. ALL SUPPLY AND RETURN AIR DUCTING INSULATED WITH 50mm. THK. FIBREGLASS INSULATION IN NON-A/C AREA.
4. ALL CHILLED WATER PIPING INSULATED AS PER SPECIFICATION.
5. ALL LEVELS OF DUCTS AND PIPES ARE FROM FINISHED FLOOR LEVELS.
6. FOR SECTION REFER DRG. NO L8-CRD-ECS-09VV-1701 .
7. FOR ECS RELATED ELECTRICAL PLEASE REFER ELECTRICAL LAYOUT.

ABBREVIATIONS

BC	BADI CHOUPER STATION	NB	Nominal Bore
AHU	Air Handling Unit	OTE	Over Track Exhaust
DC	Damper close	R.A.G	Return Air Grille
DO	Damper Open	S.A.G	Supply Air Grille
DB	Distribution Board	C.S.G	Continous Supply Grille
ECA	Environment Control Attenuator	F.A.G	Fresh Air Grille
FAF	Fresh Air Fan	T/A	To Above
F/A	From Above	T/B	To Below
F/B	From Below	TEA	Track Way Exhaust Attenuator
FCU	Fan Coil Unit	TEF	Track Way Exhaust Fan
FD	Fire Damper(Fusible Link)	UPE	Under Platform Exhaust
FMD	Manual Damper (Fire rated)	VCD	Volume Control Damper (Non fire rated)
MD	Manual Damper	VCF	Volume Control Damper (Fire rated)
MFD	Motorised Fire Damper	VEF	Ventilation Exhaust Fan
DC/S	Damper Closed (Summer)	VSF	Ventilation Supply Fan
DO/M	Damper Open (Monsoon)	B.O.D.	Bottom of Duct
SAP	Supply Air Plenum	PRD	Pressure Relief Damper
RAP	Return Air Plenum	NO	Normally Open
SUI	Split Unit Indoor	CHWP	CHILLED WATER PIPE
SUO	Split Unit Outdoor	CDWP	CONDENSER WATER PIPE
DUC	Door Under Cut	VSD	VENTILATION SUPPLY DUCT
NC	Normally cloused	VED	VENTILATION EXHAUST DUCT
MOD	Motor Operated Damper		

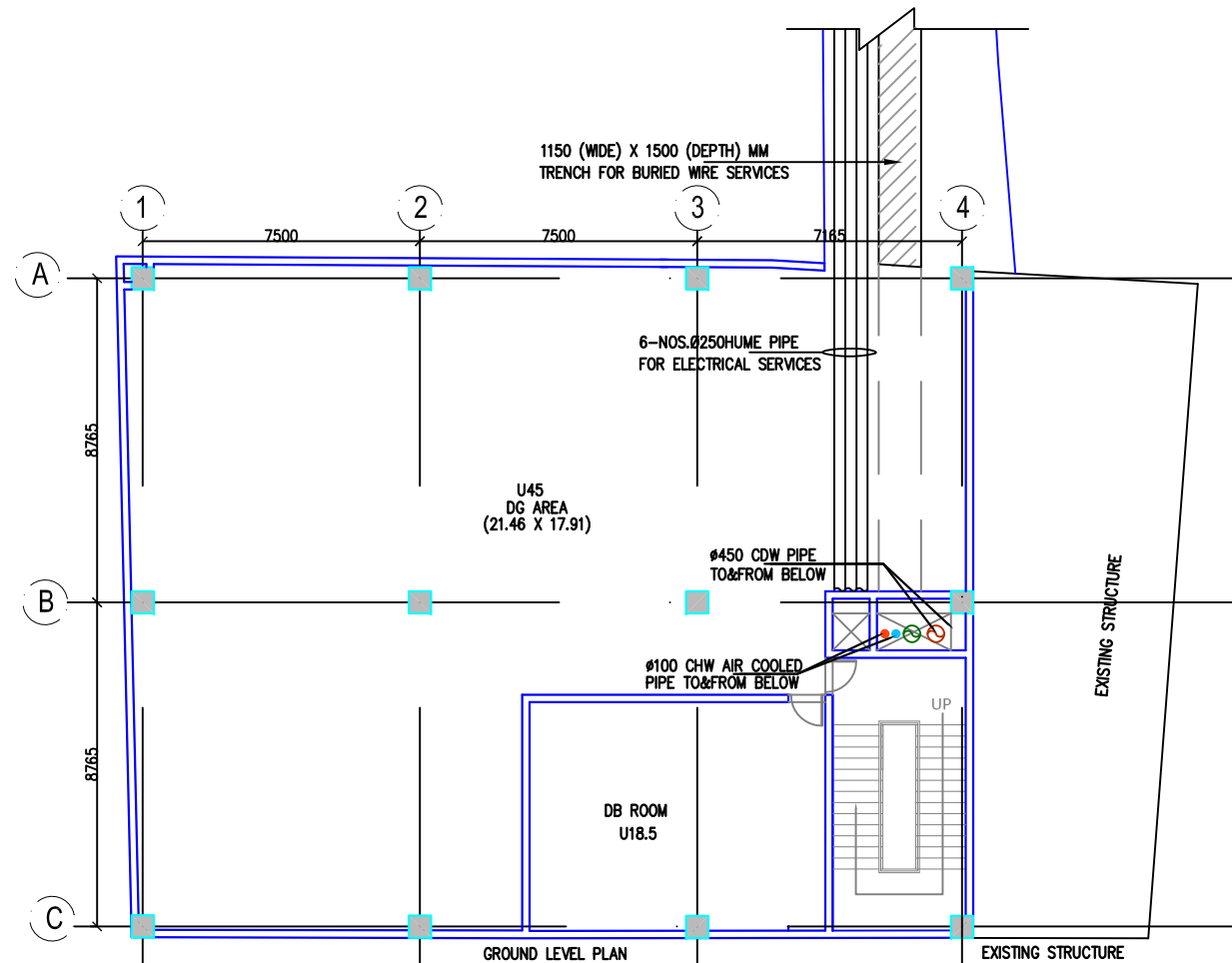
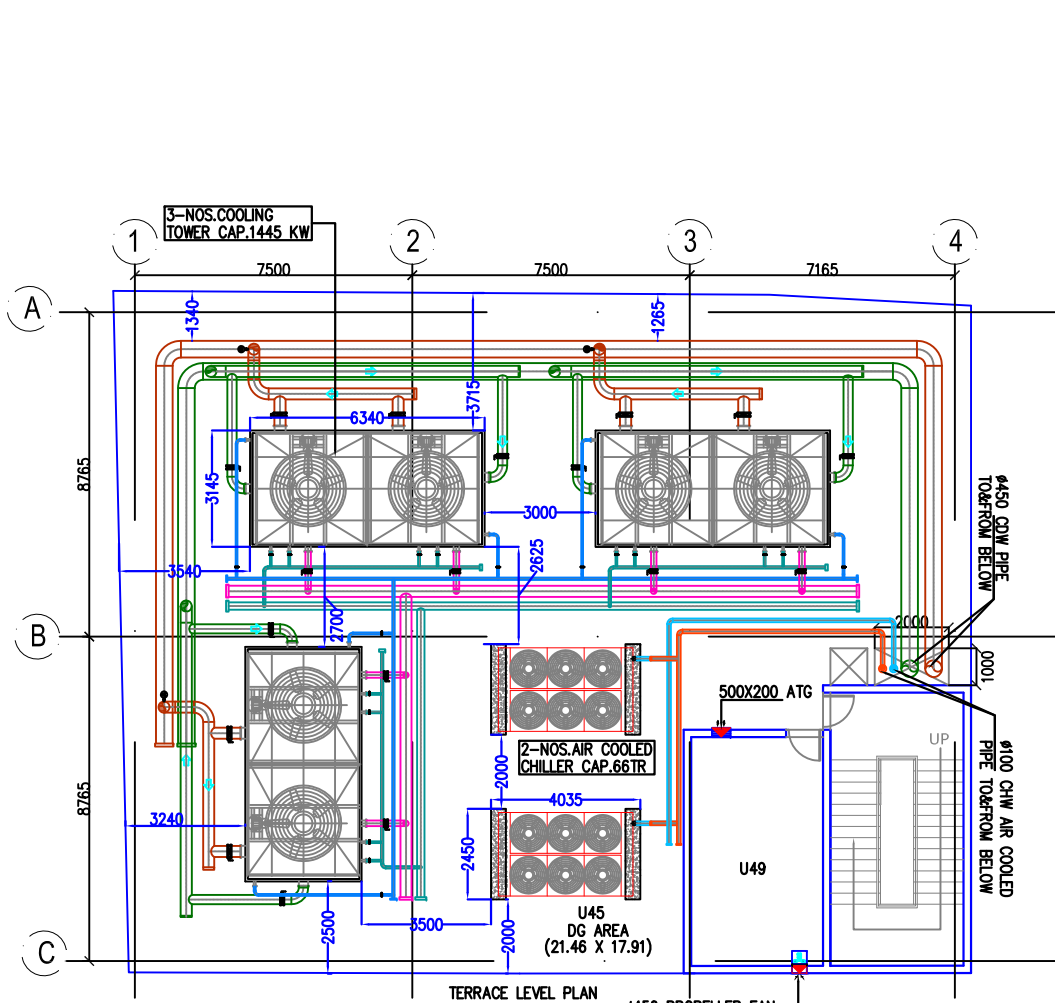
LEGEND

	CHW SUPPLY PIPE
	CHW RETURNE PIPE
	CHW SUPPLY PIPE(AIR COOLED CHILLER)
	CHW RETURNE PIPE(AIR COOLED CHILLER)
	CDW SUPPLY PIPE
	CDW RETURNE PIPE
	EQUALIZER HEADER
	MAKEUP HEADER
	DRAIN&OVERFLOW HEADER
	VENTILATION EXHAUST DUCT
	VENTILATION SUPPLY DUCT
	MOTORISED OPRATED DAMPER
	VOLUME CONTROL DAMPER
	MOTORISED FIRE DAMPER
	FIRE RATED MANUAL DAMPER
	MANUAL DAMPER
	RETURNE AIR DUCT FIRE RATED
	SUPPLY AIR DUCT
	VENTILATION SUPPLY AIR DUCT
	VENTILATION EXHAUST AIR DUCT
	STAIRCASE PRESSURIZATION DUCT
	SMOKE EXHAUST DUCT
	SUPPLY AIR GRILLE
	EXHAUST/SMOKE EXHAUST GRILLE
	UNDER PLATFORM EXHAUST GRILLE
	BALANCING VALVE
	BUTTER FLY VALVE
	GATE VALVE

LEGEND

	AIR HANDLING UNIT(FLOOR MOUNTED)
	COOLING TOWER
	AIR COOLED CHILLER
	WATER COOLED CHILLER
	CONDENSER PUMP
	SECONDARY PUMP
	PRIMARY PUMP
	FAN COIL UNIT
	TRACK WAY EXHAUST FAN
	AXIL FAN
	PROPELLER FAN
	TUNNEL VENTILATION FAN

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	REFERENCE DRAWINGS		REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION	DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH	Architecture Design In-charge/ Coordinator			Structure Design In-charge/ Coordinator	E&M Design In-charge/ Coordinator	PHASE 1B JAIPUR METRO PROJECT		
	Drg. No.										DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH	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  Engineering, Information, Imagination. 56, Indo-Asia House, Institutional Area, sector-44 Gurgaon - 122002 (Haryana)			STATION: BADI CHOUPAR DRAWING TITLE: ECS/TVS LAYOUT LEGENDS & NOTES				
	Description										DY CSTE/AFC		ED/S&T	CSO								
											DY CSTE/SIGNALLING	CSTE-II	GM/O	GMM								
											DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II								
											DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM								
		</																				



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*
2	U 18.5	DB ROOM	8.00 X 6.18	48.44
3	U 49	CHEMICAL DOSING ROOM	22.66 X 17.99	315.40*
4	U 50	POOLING TOWER AREA	3.505 X 6.18	22.05

*AREA AS PER PLINE

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- ALL SUPPLY AND RETURN AIR DUCTING INSULATED WITH 50mm. THK. FIBREGLASS INSULATION IN NON-A/C AREA.
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- ALL LEVELS OF DUCTS AND PIPES ARE FROM FINISHED FLOOR LEVELS.
- FOR ECS RELATED ELECTRICAL PLEASE REFER ECS ELECTRICAL LAYOUT.

ABBREVIATIONS

CC CHOTI CHOUPEL STATION
 AHU Air Handling Unit
 FAF Fresh Air Fan
 FCU Fan Coil Unit
 MD Manual Damper
 MFD Motorised Fire Damper
 MOD Motor Operated Damper
 OTE Over Track Exhaust
 R.A.G Return Air Grille
 S.A.G Supply Air Grille
 F.A.G Fresh Air Grille
 TEF Track Way Exhaust Fan
 UPE Under Platform Exhaust
 VCD Volume Control Damper (Non fire rated)
 VEF Ventilation Exhaust Fan
 VSF Ventilation Supply Fan
 B.O.D Bottom of Duct
 CHWP CHILLED WATER PIPE
 CDWP CONDENSER WATER PIPE
 VSD VENTILATION SUPPLY DUCT
 VED VENTILATION EXHAUST DUCT

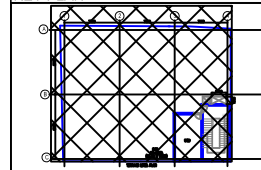
LEGEND

- CHW SUPPLY PIPE
- CHW RETURN PIPE
- CHW SUPPLY PIPE(AIR COOLED CHILLER)
- CHW RETURN PIPE(AIR COOLED CHILLER)
- CDW SUPPLY PIPE
- CDW RETURN PIPE
- EQUALIZER HEADER
- MAKEUP HEADER
- DRAIN&OVERFLOW HEADER
- VENTILATION EXHAUST DUCT
- VENTILATION SUPPLY DUCT
- MOTORISED OPERATED DAMPER
- VOLUME CONTROL DAMPER
- MOTORISED FIRE DAMPER
- FIRE RATED MANUAL DAMPER
- MANUAL DAMPER
- RETURN AIR DUCT FIRE RATED
- SUPPLY AIR DUCT
- VENTILATION SUPPLY AIR DUCT
- VENTILATION EXHAUST AIR DUCT
- STAIRCASE PRESSURIZATION DUCT
- SMOKE EXHAUST DUCT
- SUPPLY AIR GRILLE
- EXHAUST/SMOKE EXHAUST GRILLE
- UNDER PLATFORM EXHAUST GRILLE

LEGEND

- COOLING TOWER
- AIR COOLED CHILLER
- WATER COOLED CHILLER
- CONDENSER PUMP
- SECONDARY PUMP
- PRIMARY PUMP
- FAN COIL UNIT
- AXIAL FAN
- PROPELLER FAN

KEY PLAN



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REFERENCE DRAWINGS

Dwg. 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	CSTE-II	ED/S&T	CSO
DY CSTE/SIGNALLING	CSTE-III	GM/O	GMM
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 CHOUPEL & BADI CHOUPEL), 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

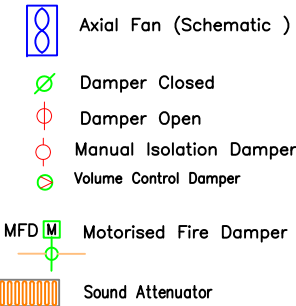
STATION: BADI CHOUPEL

DRAWING TITLE: ECS LAYOUT ANCILLARY BUILDING GROUND & TERRACE LEVEL

DRAWN BY: ADIL	CHECKED BY: NITIN	VERIFIED BY: L.R.S
DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: 1:100
DRAWING NUMBER: JP-TD-ECS-11BC-1201	SHEET NO. 1 OF 1	SHEET SIZE UNE A1
		ORDER N° P36-0017

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Legend

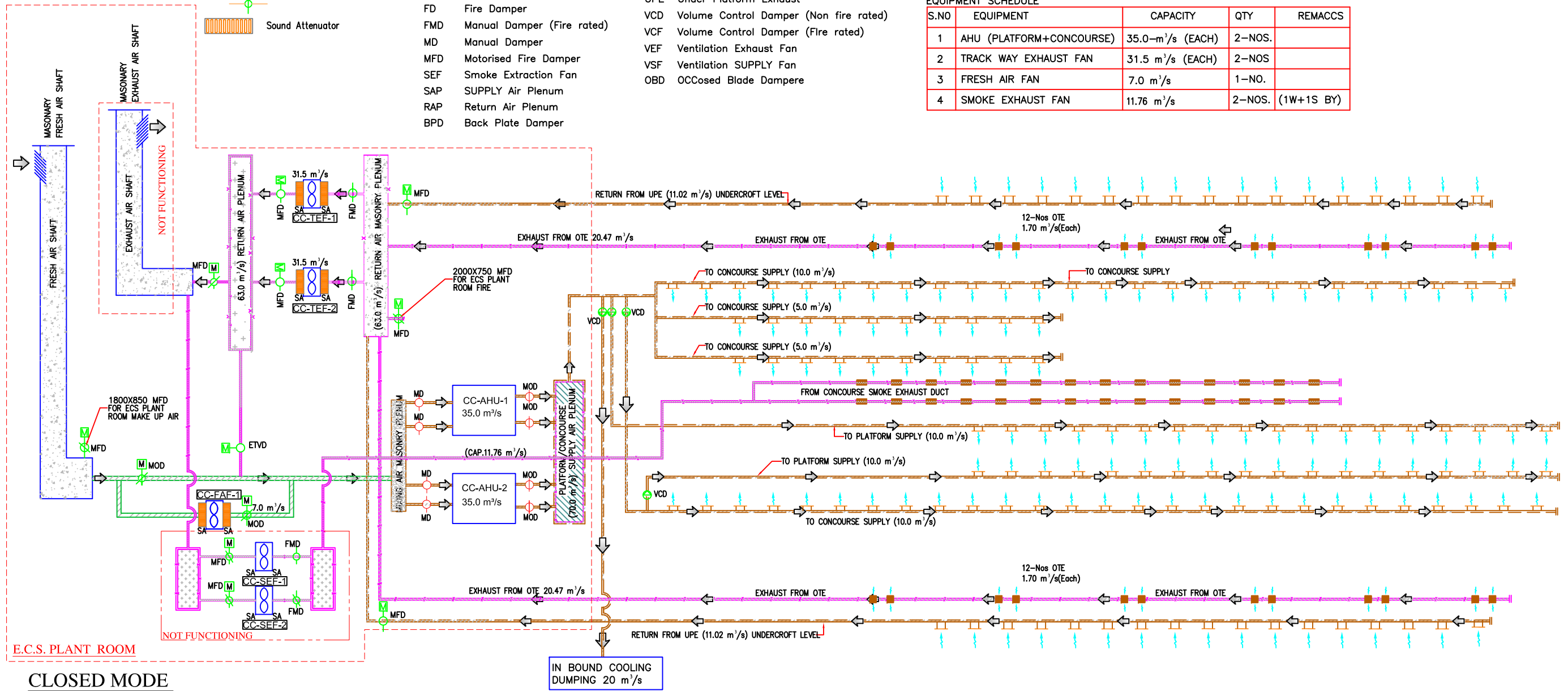


Abbreviations

AHU	Air Handling Unit	MOD	Motor Operated Damper
DC	Damper close	OTE	Over Track Exhaust
DO	Damper Open	R.A	Return Air
DB	Distribution Board	S.A	SUPPLY Air
FAF	Fresh Air Fan	T/A	To Above
F/A	From Above	T/B	To Below
F/B	From Below	TEA	Track Way Exhaust Attenuator
FCU	Fan Coil Unit	TEF	Track Way Exhaust Fan
FD	Fire Damper	UPE	Under Platform Exhaust
FMD	Manual Damper (Fire rated)	VCD	Volume Control Damper (Non fire rated)
MD	Manual Damper	VCF	Volume Control Damper (Fire rated)
MFD	Motorised Fire Damper	VEF	Ventilation Exhaust Fan
SEF	Smoke Extraction Fan	VSF	Ventilation SUPPLY Fan
SAP	SUPPLY Air Plenum	OBD	OCCosed Blade Dampere
RAP	Return Air Plenum		
BPD	Back Plate Damper		

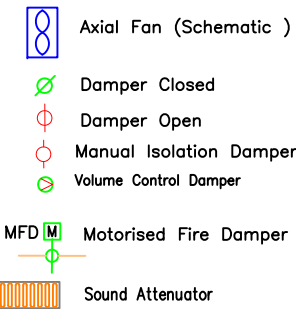
EQUIPMENT SCHEDULE

S.NO	EQUIPMENT	CAPACITY	QTY	REMACCS
1	AHU (PLATFORM+CONCOURSE)	35.0-m ³ /s (EACH)	2-NOS.	
2	TRACK WAY EXHAUST FAN	31.5 m ³ /s (EACH)	2-NOS	
3	FRESH AIR FAN	7.0 m ³ /s	1-NO.	
4	SMOKE EXHAUST FAN	11.76 m ³ /s	2-NOS.	(1W+1S BY)



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	REFERENCE DRAWINGS										Architecture Design In-charge/ Coordinator			Structure Design In-charge/ Coordinator			PHASE 1B JAIPUR METRO PROJECT	
											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			E&M Design In-charge/ Coordinator			STATION: BADI CHOUPAR	
											DRAWING TITLE: AIR FLOW SCHEMATIC-ECS PLANT ROOM 19.1			DRAWN BY: ADIL CHECKED BY: NITIN VERIFIED BY: L.R.S			DRAWING NUMBER: JP-TD-ECS-11BC-1603	
											DATE: 31-03-2015 REV: R0 GRAPHICAL SCALE: N.T.S STATUS: FOR TENDER			SHEET NO. 1 OF 1 SHEET SIZE UNE A1 ORDER N° P36-0017			This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior written permission of DMRC.	

Legend

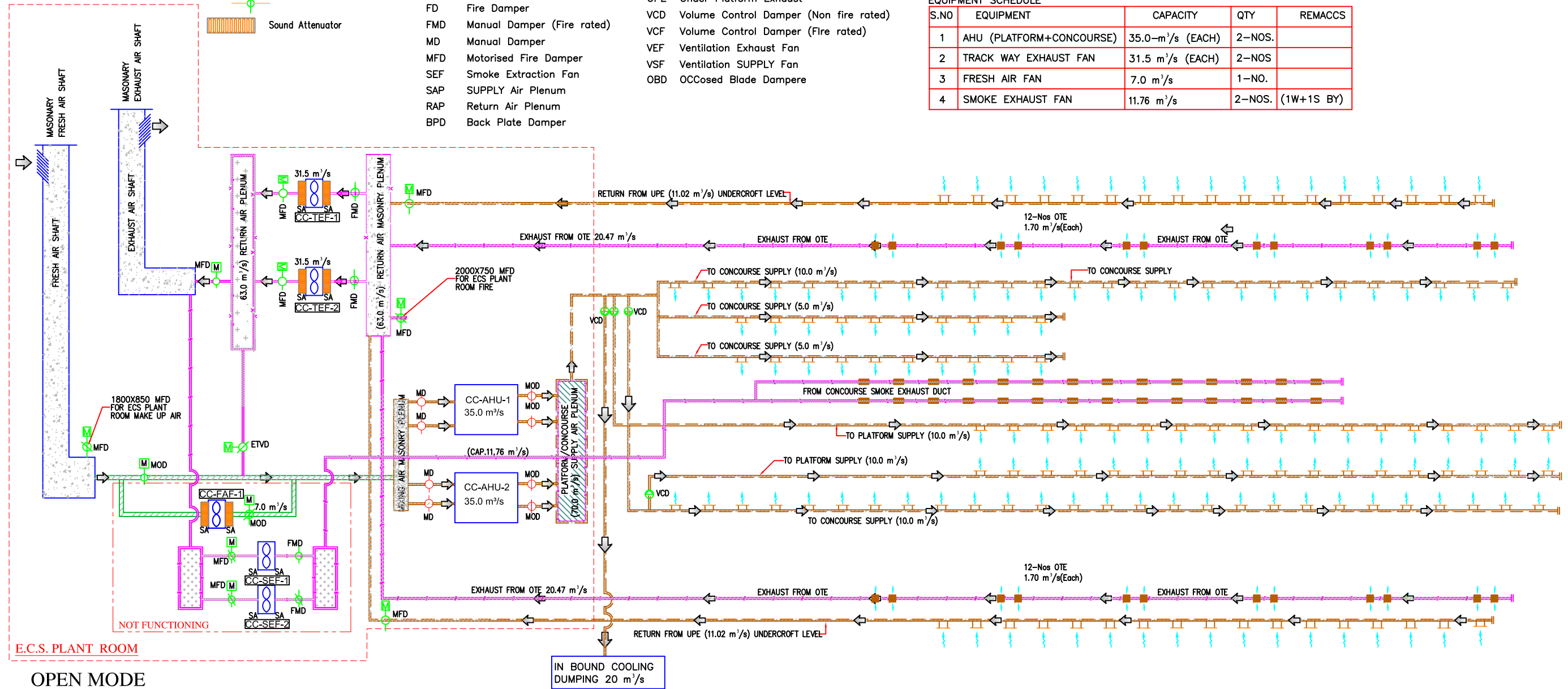


Abbreviations

AHU	Air Handling Unit	MOD	Motor Operated Damper
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SAP	SUPPLY Air Plenum	OBD	OCClosed Blade Dampere
RAP	Return Air Plenum		
BPD	Back Plate Damper		

EQUIPMENT SCHEDULE

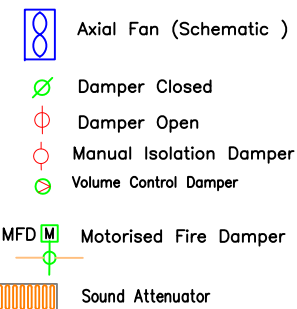
S.NO	EQUIPMENT	CAPACITY	QTY	REMACCS
1	AHU (PLATFORM+CONCOURSE)	35.0-m ³ /s (EACH)	2-NOS.	
2	TRACK WAY EXHAUST FAN	31.5 m ³ /s (EACH)	2-NOS.	
3	FRESH AIR FAN	7.0 m ³ /s	1-NO.	
4	SMOKE EXHAUST FAN	11.76 m ³ /s	2-NOS.	(1W+1S BY)



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											DMRC APPROVAL		MGR/ARCH		DY CA (UG-III)		CA/ARCH		Architecture Design In-charge/ Coordinator		Structure Design In-charge/ Coordinator		E&M Design In-charge/ Coordinator					
											DY CSTE/TELECOM		CSTE-I		DY CE/DESIGN		CE/TECH		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  Engineering, Information, Imagination. 56, Indo-Asia House, Institutional Area, sector-44 Gurgaon - 122002 (Haryana)									
											DY CSTE/IFC				ED/S&T		CSO											
											DY CSTE/SIGNALLING		CSTE-III		GM/O		GMM											
											DY CE/PLANNING		DY CEE/E&M		DY CEE/ECS		ED/ELEC-II											
											DY CEE/(E)UG-TR		CGM(E) UG-TR		PM		CPM											
											REV		PARTICULARS		DRN		CHD		VER		DATE		ISSUE DATE				REV. FOR CONSTRUCTION	

DRAWN BY : ADIL		CHECKED BY : NITIN		VERIFIED BY : L.R.S		JP/EW/1B/DDC01 ECS				
DATE: 31-03-2015		REV: R0		GRAPHICAL SCALE: N.T.S			STATUS: FOR TENDER			
DRAWING NUMBER: JP-TD-ECS-11BC-1605				SHEET NO. 1 OF 1			SHEET SIZE UNE A1		ORDER N° P36-0017	
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Legend

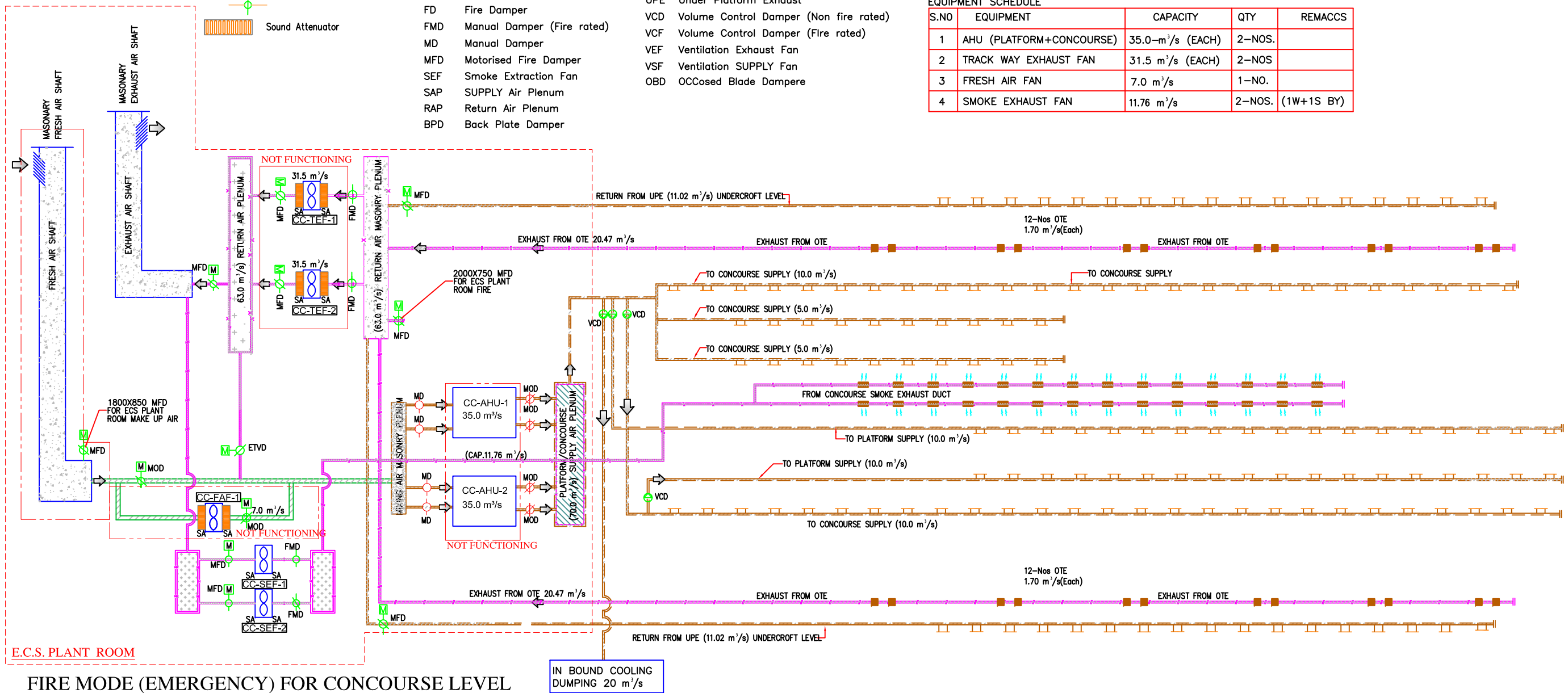


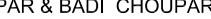
Abbreviations

AHU	Air Handling Unit	MOD	Motor Operated Damper
DC	Damper close	OTE	Over Track Exhaust
DO	Damper Open	R.A	Return Air
DB	Distribution Board	S.A	SUPPLY Air
FAF	Fresh Air Fan	T/A	To Above
F/A	From Above	T/B	To Below
F/B	From Below	TEA	Track Way Exhaust Attenuator
FCU	Fan Coil Unit	TEF	Track Way Exhaust Fan
FD	Fire Damper	UPE	Under Platform Exhaust
FMD	Manual Damper (Fire rated)	VCD	Volume Control Damper (Non fire rated)
MD	Manual Damper	VCF	Volume Control Damper (Fire rated)
MFD	Motorised Fire Damper	VEF	Ventilation Exhaust Fan
SEF	Smoke Extraction Fan	VSF	Ventilation SUPPLY Fan
SAP	SUPPLY Air Plenum	OBD	OCClosed Blade Dampere
RAP	Return Air Plenum		
BPD	Back Plate Damper		

EQUIPMENT SCHEDULE

S.NO	EQUIPMENT	CAPACITY	QTY	REMACCS
1	AHU (PLATFORM+CONCOURSE)	35.0-m ³ /s (EACH)	2-NOS.	
2	TRACK WAY EXHAUST FAN	31.5 m ³ /s (EACH)	2-NOS	
3	FRESH AIR FAN	7.0 m ³ /s	1-NO.	
4	SMOKE EXHAUST FAN	11.76 m ³ /s	2-NOS.	(1W+1S BY)



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																		Architecture Design In-charge/ Coordinator				Structure Design In-charge/ Coordinator				E&M Design In-charge/ Coordinator				PHASE 1B JAIPUR METRO PROJECT																
																		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												STATION: BADI CHOUPAR																
																														DRAWING TITLE: AIR FLOW SCHEMATIC-ECS PLANT ROOM 19.1																
																														DRAWN BY: ADIL				CHECKED BY: NITIN				VERIFIED BY: L.R.S				JP/EW/1B/DDC01 ECS				
																														DATE: 31-03-2015				REV: R0				GRAPHICAL SCALE: N.T.S					STATUS: FOR TENDER			
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																														 ayesa Engineering. Information. Imagination. 56, Indo-Asja House, Institutional Area, sector-44 Gurgaon - 122002 (Haryana)																
																		DMRC APPROVAL				MGR/ARCH				DY CA (UG)III				CA/ARCH																
																	DY CSTE/TELECOM				CSTE-I				DY CE/DESIGN				CE/TECH																	
																	DY CSTE/IFC								ED/S&T				CSO																	
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																	DY CEE/(E)UG-TR				CGM(E) UG-TR				PM				CPM																	
										REV							PARTICULARS				DRN				CHD				VER				DATE				ISSUE DATE				REV. FOR CONSTRUCTION					

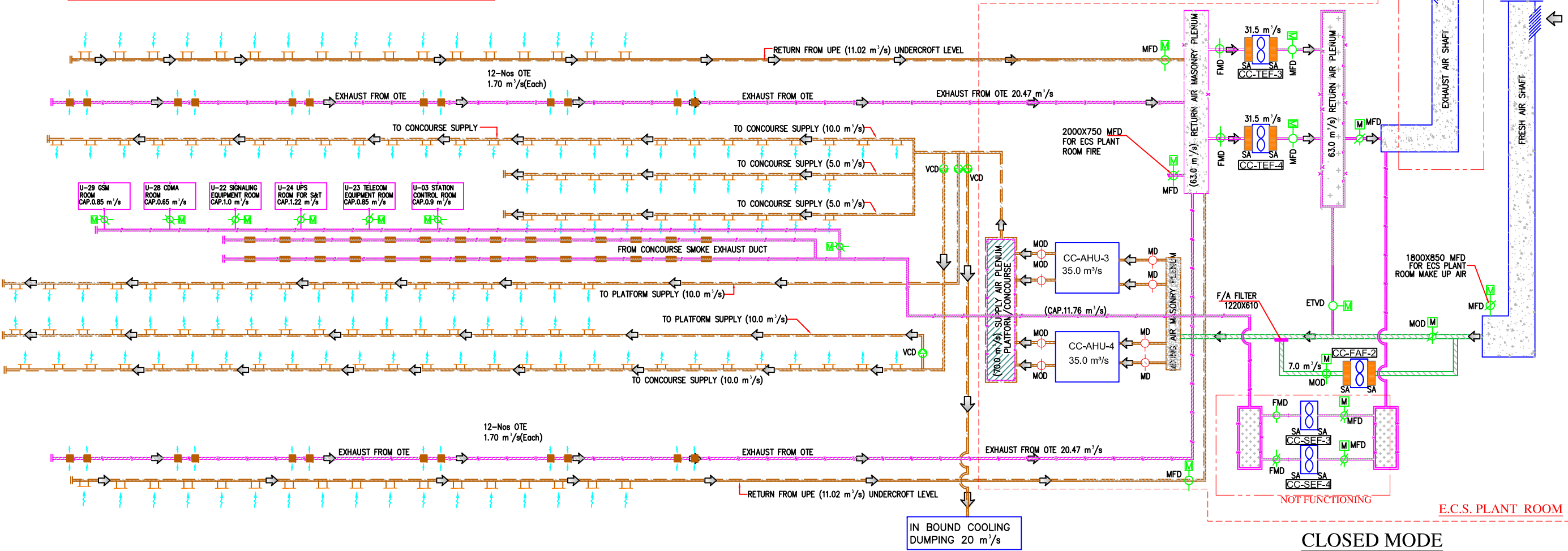
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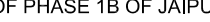
AHU	Air Handling Unit	MOD	Motor Operated Damper
DC	Damper close	OTE	Over Track Exhaust
DO	Damper Open	R.A	Return Air
DB	Distribution Board	S.A	SUPPLY Air
FAF	Fresh Air Fan	T/A	To Above
F/A	From Above	T/B	To Below
F/B	From Below	TEA	Track Way Exhaust Attenuator
FCU	Fan Coil Unit	TEF	Track Way Exhaust Fan
FD	Fire Damper	UPE	Under Platform Exhaust
FMD	Manual Damper (Fire rated)	VCD	Volume Control Damper (Non fire rated)
MD	Manual Damper	VCF	Volume Control Damper (Fire rated)
MFD	Motorised Fire Damper	VEF	Ventilation Exhaust Fan
SEF	Smoke Extraction Fan	VSF	Ventilation SUPPLY Fan
SAP	SUPPLY Air Plenum	OBD	OCCosed Blade Dampere
RAP	Return Air Plenum		
BPD	Back Plate Damper		

Legend

	Axial Fan (Schematic)
	Damper Closed
	Damper Open
	Manual Isolation Damper
	Volume Control Damper
	Motorised Fire Damper
	Sound Attenuator

S.NO	EQUIPMENT	CAPACITY	QTY	REMACCS
1	AHU (PLATFORM+CONCOURSE)	35.0-m ³ /s (EACH)	2-NOS.	
2	TRACK WAY EXHAUST FAN	31.5 m ³ /s (EACH)	2-NOS.	
3	FRESH AIR FAN	7.0 m ³ /s	1-NO.	
4	SMOKE EXHAUST FAN	11.76 m ³ /s	2-NOS. (1W+1S BY)	



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	REFERENCE DRAWINGS																		
	Dwg. No.	Description																	
	REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION	DMRC APPROVAL	MGR/ARCH	DY CA (UG)III	CA/ARCH	Architecture Design In-charge/ Coordinator	Structure Design In-charge/ Coordinator	E&M Design In-charge/ Coordinator	PHASE 1B JAIPUR METRO PROJECT			
								DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH	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		STATION: BADI CHOUPAR					
								DY CSTE/AFC		ED/S&T	CSO								
								DY CSTE/SIGNALLING	CSTE-III	GM/O	GMM					 Engineering, Information, Imagination. 56, Indo-Asia House, Institutional Area, sector-44 Gurgaon - 122002 (Haryana)		DRAWING TITLE: AIR FLOW SCHEMATIC-ECS PLANT ROOM 19.2	
								DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II	DRAWN BY: ADIL	CHECKED BY: NITIN	VERIFIED BY: L.R.S					
								DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM	DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: N.T.S	STATUS: FOR TENDER				
												DRAWING NUMBER: JP-TD-ECS-11BC-1606	SHEET NO. 1 OF 1	SHEET SIZE UNE A1	ORDER N° P36-0017				
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Abbreviations

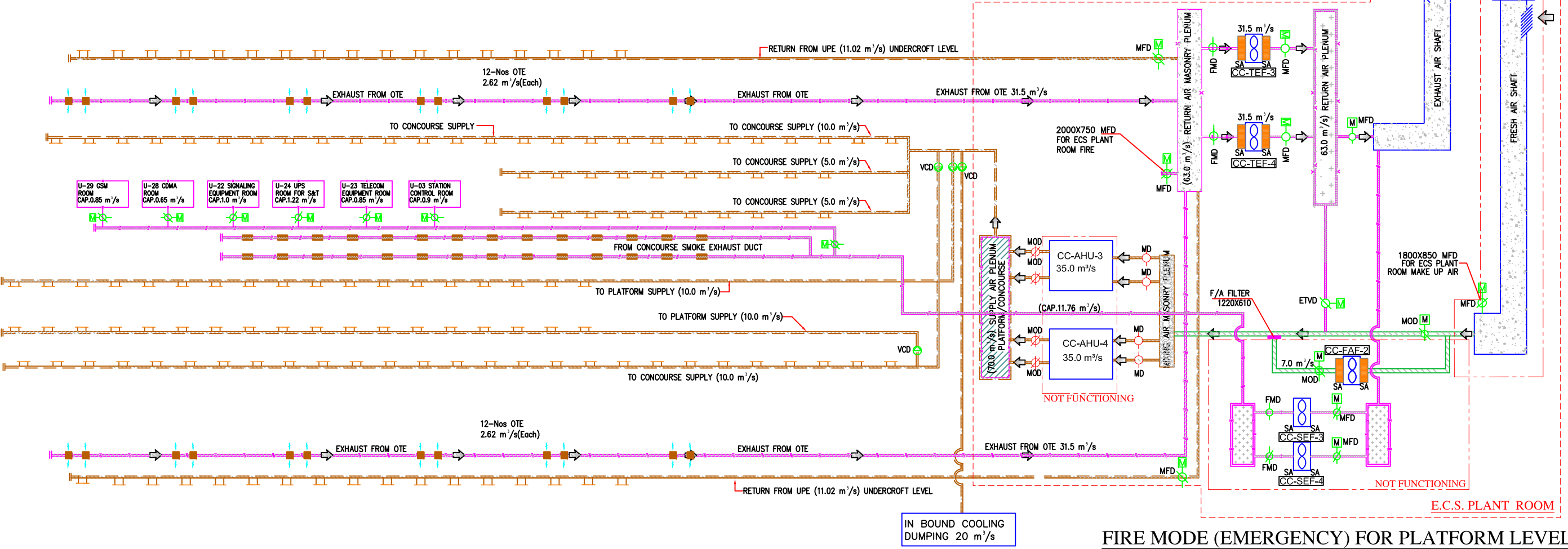
AHU	Air Handling Unit	MOD	Motor Operated Damper
DC	Damper close	OTE	Over Track Exhaust
DO	Damper Open	R.A	Return Air
DB	Distribution Board	S.A	SUPPLY Air
FAF	Fresh Air Fan	T/A	To Above
F/A	From Above	T/B	To Below
F/B	From Below	TEA	Track Way Exhaust Attenuator
FCU	Fan Coil Unit	TEF	Track Way Exhaust Fan
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FMD	Manual Damper (Fire rated)	VCD	Volume Control Damper (Non fire rated)
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SEF	Smoke Extraction Fan	VSF	Ventilation SUPPLY Fan
SAP	SUPPLY Air Plenum	OBD	OCClosed Blade Dampere
RAP	Return Air Plenum		
BPD	Back Plate Damper		

Legend

	Axial Fan (Schematic)
	Damper Closed
	Damper Open
	Manual Isolation Damper
	Volume Control Damper
	Motorised Fire Damper
	Sound Attenuator

EQUIPMENT SCHEDULE

S.NO	EQUIPMENT	CAPACITY	QTY	REMACCS
1	AHU (PLATFORM+CONCOURSE)	35.0-m ³ /s (EACH)	2-NOS.	
2	TRACK WAY EXHAUST FAN	31.5 m ³ /s (EACH)	2-NOS	
3	FRESH AIR FAN	7.0 m ³ /s	1-NO.	
4	SMOKE EXHAUST FAN	11.76 m ³ /s	2-NOS. (1W+1S BY)	



FIRE MODE (EMERGENCY) FOR PLATFORM LEVEL

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

REFERENCE DRAWINGS	
Dwg. 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/IFC		ED/S&T	CSO
DY CSTE/SIGNALLING	CSTE-III	GM/O	GMM
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.

Architecture
Design In-charge/ Coordinator

Structure
Design In-charge/ Coordinator

E&M
Design In-charge/ Coordinator

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

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: AIR FLOW SCHEMATIC-ECS PLANT ROOM 19.2

DRAWN BY: ADIL		CHECKED BY: NITIN	VERIFIED BY: L.R.S
DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: N.T.S	STATUS: FOR TENDER
DRAWING NUMBER: JP-TD-ECS-11BC-1607		SHEET NO. 1 OF 1	SHEET SIZE UNE A1
		ORDER N° P36-0017	

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JP/EW/1B/DDC01

ECS

Abbreviations

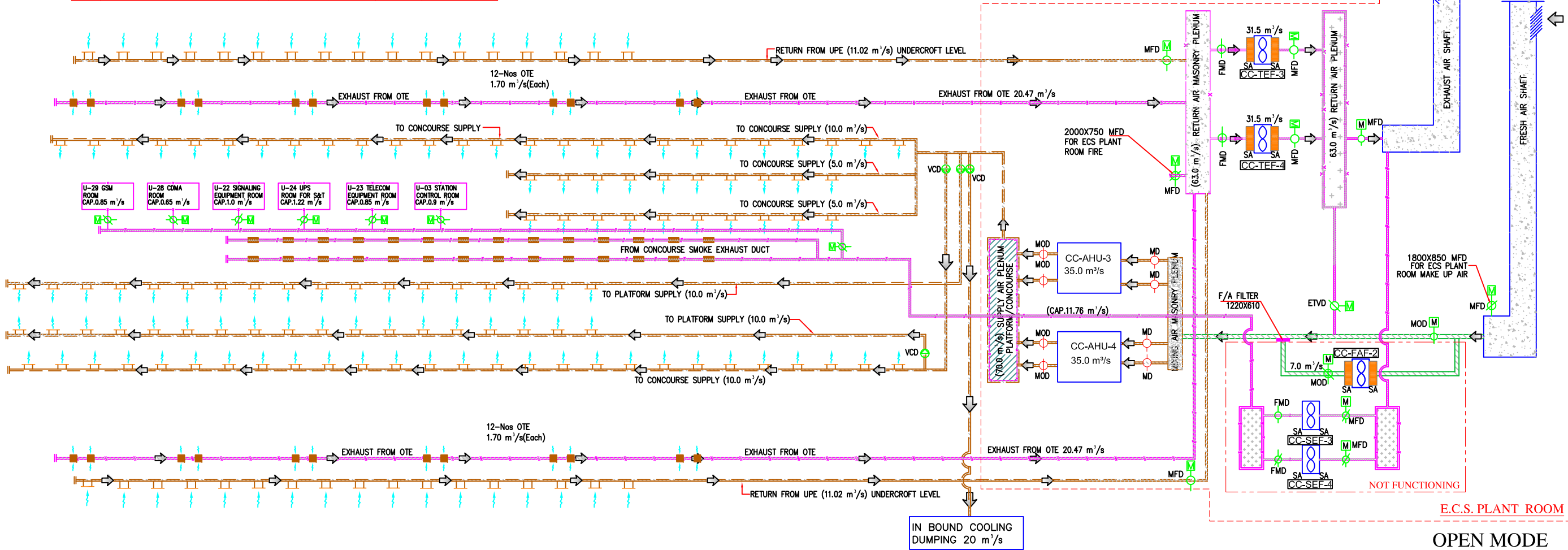
AHU	Air Handling Unit	MOD	Motor Operated Damper
DC	Damper close	OTE	Over Track Exhaust
DO	Damper Open	R.A	Return Air
DB	Distribution Board	S.A	SUPPLY Air
FAF	Fresh Air Fan	T/A	To Above
F/A	From Above	T/B	To Below
F/B	From Below	TEA	Track Way Exhaust Attenuator
FCU	Fan Coil Unit	TEF	Track Way Exhaust Fan
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SAP	SUPPLY Air Plenum	OBD	OCClosed Blade Dampere
RAP	Return Air Plenum		
BPD	Back Plate Damper		

Legend

	Axial Fan (Schematic)
	Damper Closed
	Damper Open
	Manual Isolation Damper
	Volume Control Damper
	Motorised Fire Damper
	Sound Attenuator

EQUIPMENT SCHEDULE

S.NO	EQUIPMENT	CAPACITY	QTY	REMACCS
1	AHU (PLATFORM+CONCOURSE)	35.0-m ³ /s (EACH)	2-NOS.	
2	TRACK WAY EXHAUST FAN	31.5 m ³ /s (EACH)	2-NOS	
3	FRESH AIR FAN	7.0 m ³ /s	1-NO.	
4	SMOKE EXHAUST FAN	11.76 m ³ /s	2-NOS. (1W+1S BY)	



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	REFERENCE DRAWINGS																PHASE 1B JAIPUR METRO PROJECT	
																	STATION: BADI CHOUPAR	
																	DRAWING TITLE: AIR FLOW SCHEMATIC-ECS PLANT ROOM 19.2	
																	DRAWN BY: ADIL	
																		CHECKED BY: NITIN
																		VERIFIED BY: L.R.S
																		DATE: 31-03-2015
																		REV: R0
																		GRAPHICAL SCALE: N.T.S
																		STATUS: FOR TENDER
																		SHEET NO. 1 OF 1
																		SHEET SIZE UNE A1
																		ORDER N° P36-0017
																		DRAWING NUMBER: JP-TD-ECS-11BC-1608
																		This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior written permission of DMRC.

Abbreviations

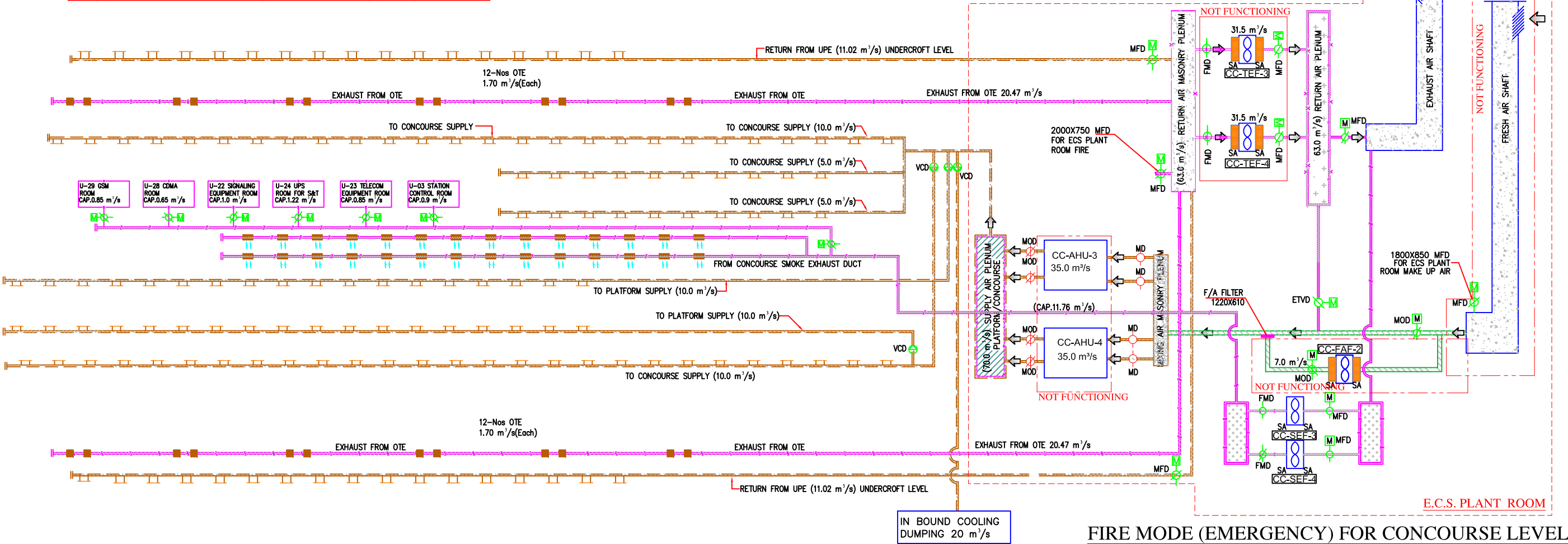
AHU	Air Handling Unit	MOD	Motor Operated Damper
DC	Damper close	OTE	Over Track Exhaust
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FAF	Fresh Air Fan	T/A	To Above
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SAP	SUPPLY Air Plenum	OBD	OCCosed Blade Dampere
RAP	Return Air Plenum		
BPD	Back Plate Damper		

Legend

	Axial Fan (Schematic)
	Damper Closed
	Damper Open
	Manual Isolation Damper
	Volume Control Damper
	Motorised Fire Damper
	Sound Attenuator

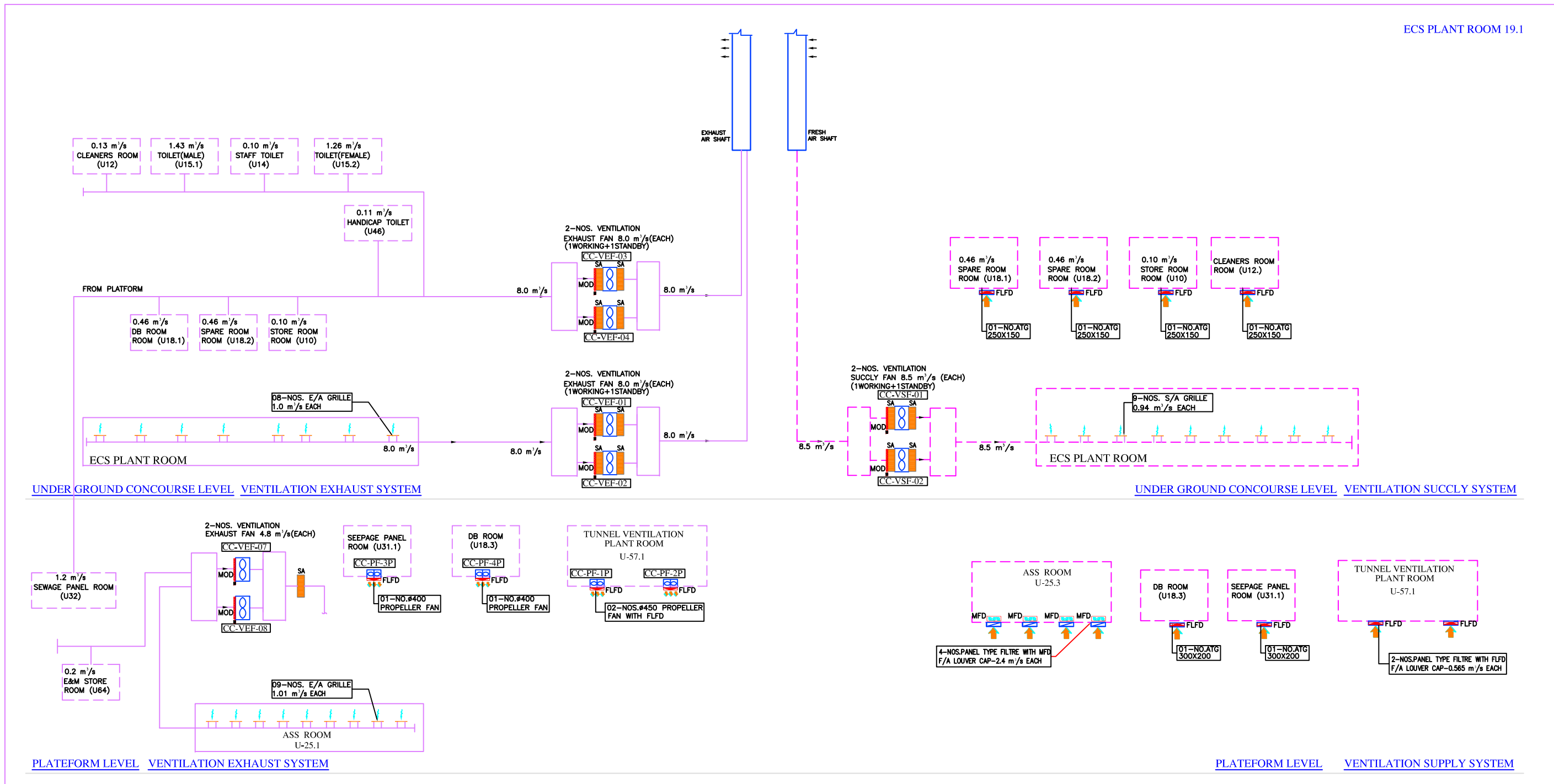
EQUIPMENT SCHEDULE

S.NO	EQUIPMENT	CAPACITY	QTY	REMACCS
1	AHU (PLATFORM+CONCOURSE)	35.0-m ³ /s (EACH)	2-NOS.	
2	TRACK WAY EXHAUST FAN	31.5 m ³ /s (EACH)	2-NOS	
3	FRESH AIR FAN	7.0 m ³ /s	1-NO.	
4	SMOKE EXHAUST FAN	11.76 m ³ /s	2-NOS. (1W+1S BY)	



FIRE MODE (EMERGENCY) FOR CONCOURSE LEVEL

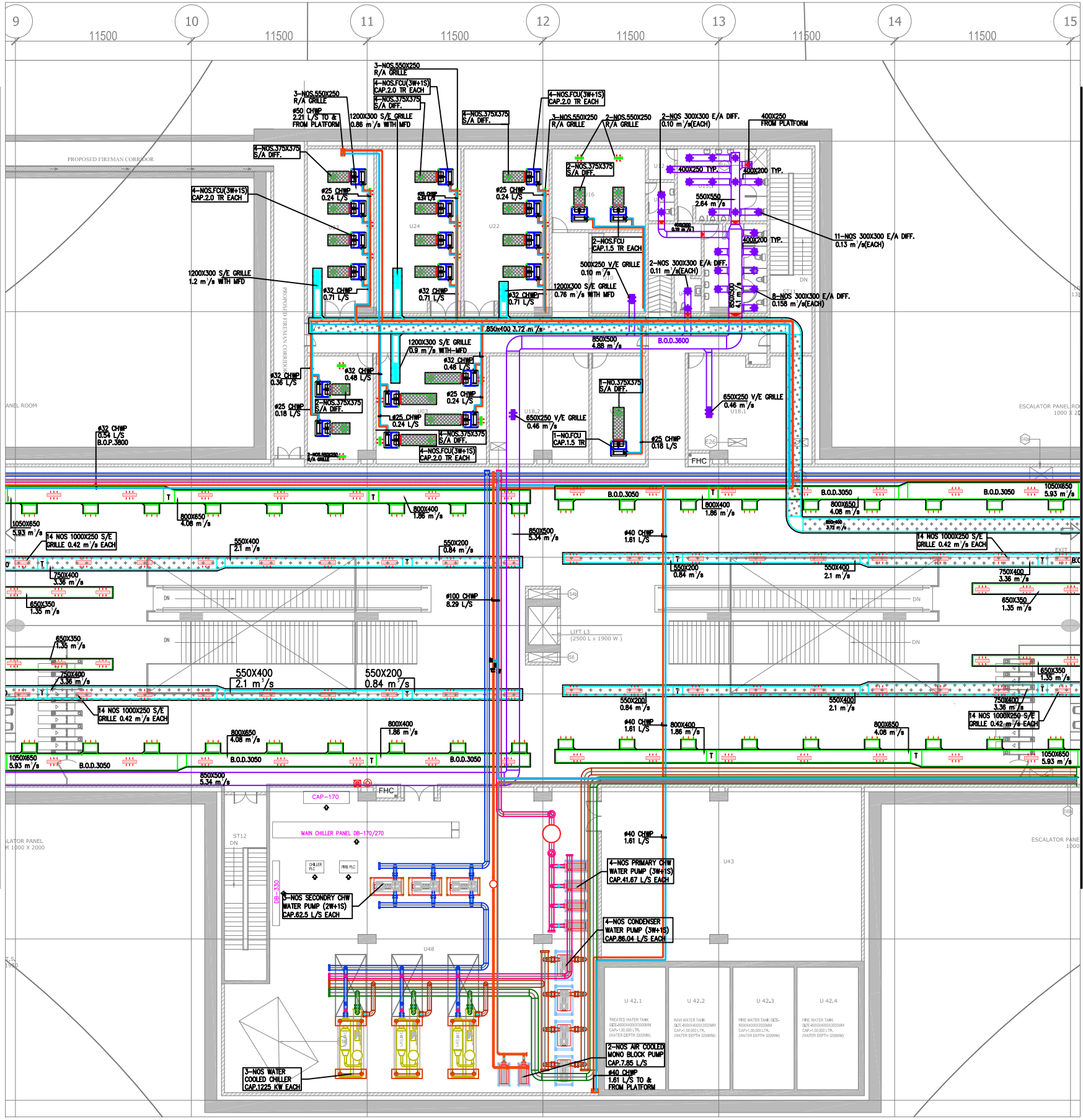
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	REFERENCE DRAWINGS										DMRC APPROVAL	MGR/ARCH	DY CA (UG) III	CA/ARCH	Architecture Design In-charge/ Coordinator	Structure Design In-charge/ Coordinator	E&M Design In-charge/ Coordinator	PHASE 1B JAIPUR METRO PROJECT STATION: BADI CHOUPAR DRAWING TITLE: AIR FLOW SCHEMATIC-ECS PLANT ROOM 19.2 DRAWN BY: ADIL CHECKED BY: NITIN VERIFIED BY: L.R.S DATE: 31-03-2015 REV: R0 GRAPHICAL SCALE: N.T.S STATUS: FOR TENDER DRAWING NUMBER: JP-TD-ECS-11BC-1608A SHEET NO. 1 OF 1 SHEET SIZE UNE A1 ORDER N° P36-0017 JP/EW/1B/DDC01 ECS This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior written permission of DMRC.		
	Drg. No.	Description									DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH						
											DY CSTE/AFC		ED/IS&T	CSO						
											DY CSTE/SIGNALLING	CSTE-III	GM/O	GMM						
											DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II						
											DY CEE/E(UG-TR	CGM(E) UG-TR	PM	CPM						
	REV	PARTICULARS									DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION				



THIS DRAWING IS THE PROPERTY OF DELHI METRO RAIL CORPORATION LTD.	GENERAL NOTES 1. ALL DIMENSIONS ARE IN MILLIMETERS. 2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCIES MUST BE BROUGHT TO THE NOTICE OF THE DMRC BEFORE EXECUTION OF THE WORK AT SITE. 4. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELECTRICAL AND TRAFFIC MANAGEMENT DRAWINGS. 5. ALL DOOR/WINDOW CILL & LINTEL LEVELS ARE MEASURED FROM MAIN FLOOR FINISHED LEVELS.							REVISIONS <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>REV</td><td>PARTICULARS</td><td>DRN.</td><td>CHD.</td><td>VER.</td><td>DATE</td><td>ISSUE DATE</td><td>REV. FOR CONSTRUCTION</td></tr></table>															REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION	APPROVAL BY DMRC <table><tr><td>DMRC APPROVAL</td><td>MGR/ARCH</td><td>DY CA (UG-III</td><td>CA/ARCH</td></tr><tr><td>DY CSTE/TELECOM</td><td rowspan="2">CSTE-I</td><td>DY CE/DESIGN</td><td>CE/TECH</td></tr><tr><td>DY CSTE/IFC</td><td>ED/IS&T</td><td>CSO</td></tr><tr><td>DY CSTE/SIGNALLING</td><td>CSTE-III</td><td>GM/O</td><td>GMM</td></tr><tr><td>DY CE/PLANNING</td><td>DY CEE/E&M</td><td>DY CEE/ECS</td><td>ED/ELEC-II</td></tr><tr><td>DY CEE/(E)UG-TR</td><td>CGM(E) UG-TR</td><td>PM</td><td>CPM</td></tr></table>				DMRC APPROVAL	MGR/ARCH	DY CA (UG-III	CA/ARCH	DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH	DY CSTE/IFC	ED/IS&T	CSO	DY CSTE/SIGNALLING	CSTE-III	GM/O	GMM	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			DELHI METRO RAIL CORPORATION LTD. Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001		
	REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION																																																							
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	PHASE 1B JAIPUR METRO PROJECT																																																														
STATION: BADI CHOUPAR																																																															
DRAWING TITLE: AIR FLOW VENTILATION ECS PLANT ROOM 19.1																																																															
DRAWN BY : ADIL				CHECKED BY: NITIN				VERIFIED BY: L.R.S		JP/EW/1B/DDC01 ECS																																																					
DATE: 31-03-2015		REV: R0		GRAPHICAL SCALE: N.T.S		STATUS: FOR TENDER																																																									
DRAWING NUMBER: JP-TD-ECS-11BC-1609				SHEET NO. 1 OF 1		SHEET SIZE UNE A1		ORDER N° P36-0017																																																							
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 3. ALL SUPPLY AND RETURN AIR DUCTING INSULATED WITH 50mm. THK. FIBREGLASS INSULATION IN NON-A/C AREA.
 4. ALL CHILLED WATER PIPING INSULATED AS PER SPECIFICATION.
 5. ALL LEVELS OF DUCTS AND PIPES ARE FROM FINISHED FLOOR LEVELS.
 6. FOR ECS RELATED ELECTRICAL PLEASE REFER ECS ELECTRICAL LAYOUT.
- ABBREVIATIONS
- | | |
|--------|--|
| CC | CHOTI CHOUPER STATION |
| AHU | Air Handling Unit |
| FAP | Fresh Air Fan |
| FCU | Fan Coil Unit |
| MD | Manual Damper |
| MFD | Motorised Fire Damper |
| MOD | Motor Operated Damper |
| OTE | Over Track Exhaust |
| RAG | Return Air Grille |
| SAG | Supply Air Grille |
| FAG | Fresh Air Grille |
| TEF | Track Way Exhaust Fan |
| UPE | Under Platform Exhaust |
| VCD | Volume Control Damper (Non fire rated) |
| VEF | Ventilation Exhaust Fan |
| VSF | Ventilation Supply Fan |
| B.O.D. | Bottom of Duct |
| CHWP | CHILLED WATER PIPE |
| CWP | CONDENSER WATER PIPE |
| VSD | VENTILATION SUPPLY DUCT |
| VED | VENTILATION EXHAUST DUCT |



ROOM SCHEDULE

S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (M.) (LxW)	AREA (Sq.m.)
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	30.46*
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 2.000	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	SIGNALING EQUIPMENT ROOM (SER)	5.345 x 10.740	57.36
21	U23	TELECOM EQUIPMENT ROOM (TER)	5.335 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*

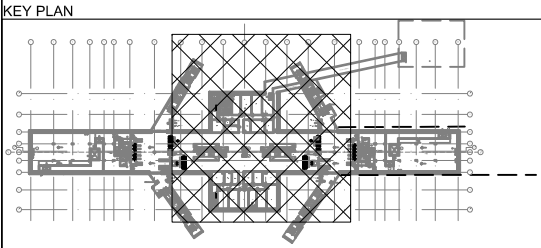
* AS PER POLY LINE

ECS SCHEDULE

OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	CUTOUT POSITION
S2	FRESH AIR- 2 NO	2.5X4.0	10.00	-
S3	EXHAUST AIR- 2 NO	3.0X3.0	9.00	-
S10	U.P.E CUT OUT-4NO.	1.4X1.0	1.40	FLOOR
S11	O.T.E CUT OUT-4NO.	1.7X1.2	2.04	FLOOR
S12	SUPPLY AIR DUCT TO PLATFORM-4NO.	1.3X1.1	1.43	FLOOR
S13	CUT OUT DUCT FOR DUMP. TO PLATFORM-2NO.	3.8X1.1	4.18	FLOOR

TVS SCHEDULE

OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	CUTOUT POSITION
TVS-1	TUNNEL VENTILATION CUTOUT 2 NO	4.5X4.5	20.25	FLOOR
	TUNNEL VENTILATION SHAFT 2 NO	5.5X5.5	30.25	-



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

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	GMM
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II
DY CEE(E)/UG-TR	CGME(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

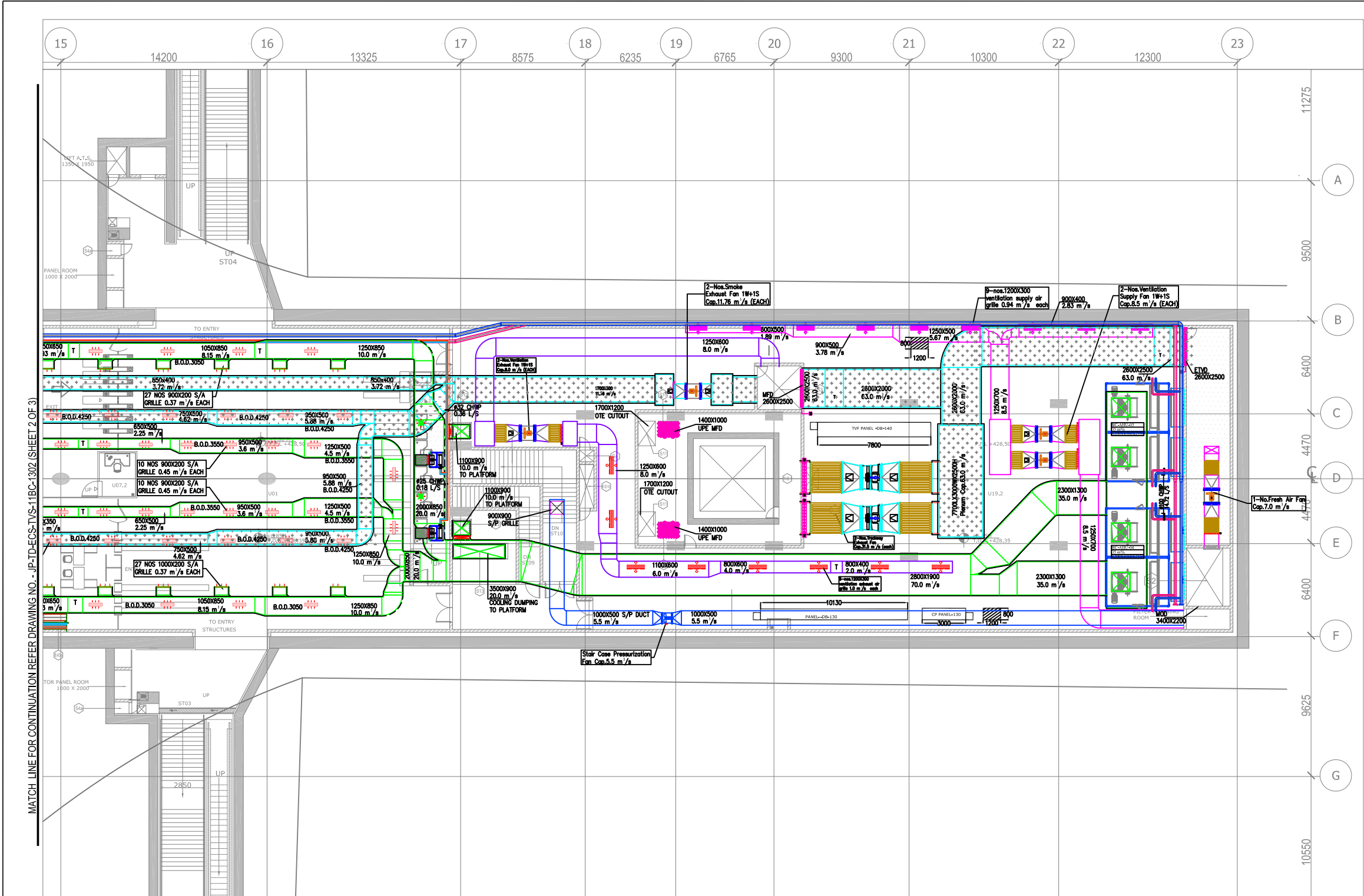
DRAWING TITLE: ECS/TVS LAYOUT CONCOURSE LEVEL

DRAWN BY: ADIL CHECKED BY: NITIN VERIFIED BY: L.R.S

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

DRAWING NUMBER: JP-TD-ECS/TVS-11BC-1302 SHEET NO. 2 OF 3 SHEET SIZE UNE A1 ORDER N° P36-0017

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- ABBREVIATIONS
- | | |
|--------|--|
| CC | CHOTI CHOUPER STATION |
| AHU | Air Handling Unit |
| FAF | Fresh Air Fan |
| FCU | Fan Coil Unit |
| MD | Manual Damper |
| MFD | Motorised Fire Damper |
| MOD | Motor Operated Damper |
| OTE | Over Track Exhaust |
| R.A.G. | Return Air Grille |
| S.A.G. | Supply Air Grille |
| F.A.G. | Fresh Air Grille |
| TEF | Track Way Exhaust Fan |
| UPE | Under Platform Exhaust |
| VCD | Volume Control Damper (Non fire rated) |
| VEF | Ventilation Exhaust Fan |
| VSF | Ventilation Supply Fan |
| B.O.D. | Bottom of Duct |
| CHWP | CHILLED WATER PIPE |
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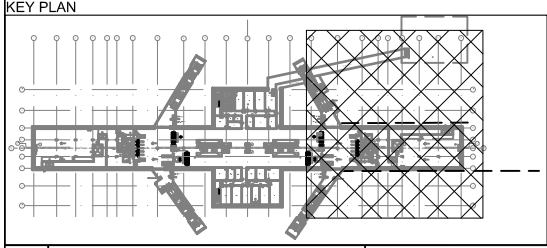


ROOM SCHEDULE				
S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (HxLxW)	AREA (Sq.m)
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2	U02	PAID AREA		1210.73*
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4	U04	STATION MANAGER ROOM (SMR)	4.300 x 7.060	30.36*
5	U05.1	TICKET OFFICE (TOW)	2.500 x 14.35	34.78*
6	U05.2	TICKET OFFICE (TOW)	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 2.000	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	27.50
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	OB ROOM	8.100 x 7.060	53.64*
17	U18.2	OB 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	SIGNALING EQUIPMENT ROOM (SER)	5.365 x 10.740	57.76
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
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* AS PER POLY LINE

ECS SCHEDULE				
OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	OUT/OUT POSITION
S2	FRESH AIR- 2 NO	2.5X4.0	10.00	
S3	EXHAUST AIR- 2 NO	3.0X3.0	9.00	
S10	U.P.E. CUT OUT-4NO.	1.4X1.0	1.40	FLOOR
S11	O.T.E. CUT OUT-4NO.	1.7X1.2	2.04	FLOOR
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TVS SCHEDULE				
OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	OUT/OUT POSITION
TVS-1	TUNNEL VENTILATION OUT/OUT 2 NO	4.5X4.5	20.25	FLOOR
	TUNNEL VENTILATION SHAFT 2 NO	5.5X5.5	30.25	



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REFERENCE DRAWINGS

Dwg. 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	GMM
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 Brdgade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: ECS/TVS LAYOUT CONCOURSE LEVEL

DRAWN BY: ADIL

CHECKED BY: NITIN

VERIFIED BY: L.R.S

DATE: 31-03-2015

REV: R0

GRAPHICAL SCALE: 1:150

STATUS: FOR TENDER

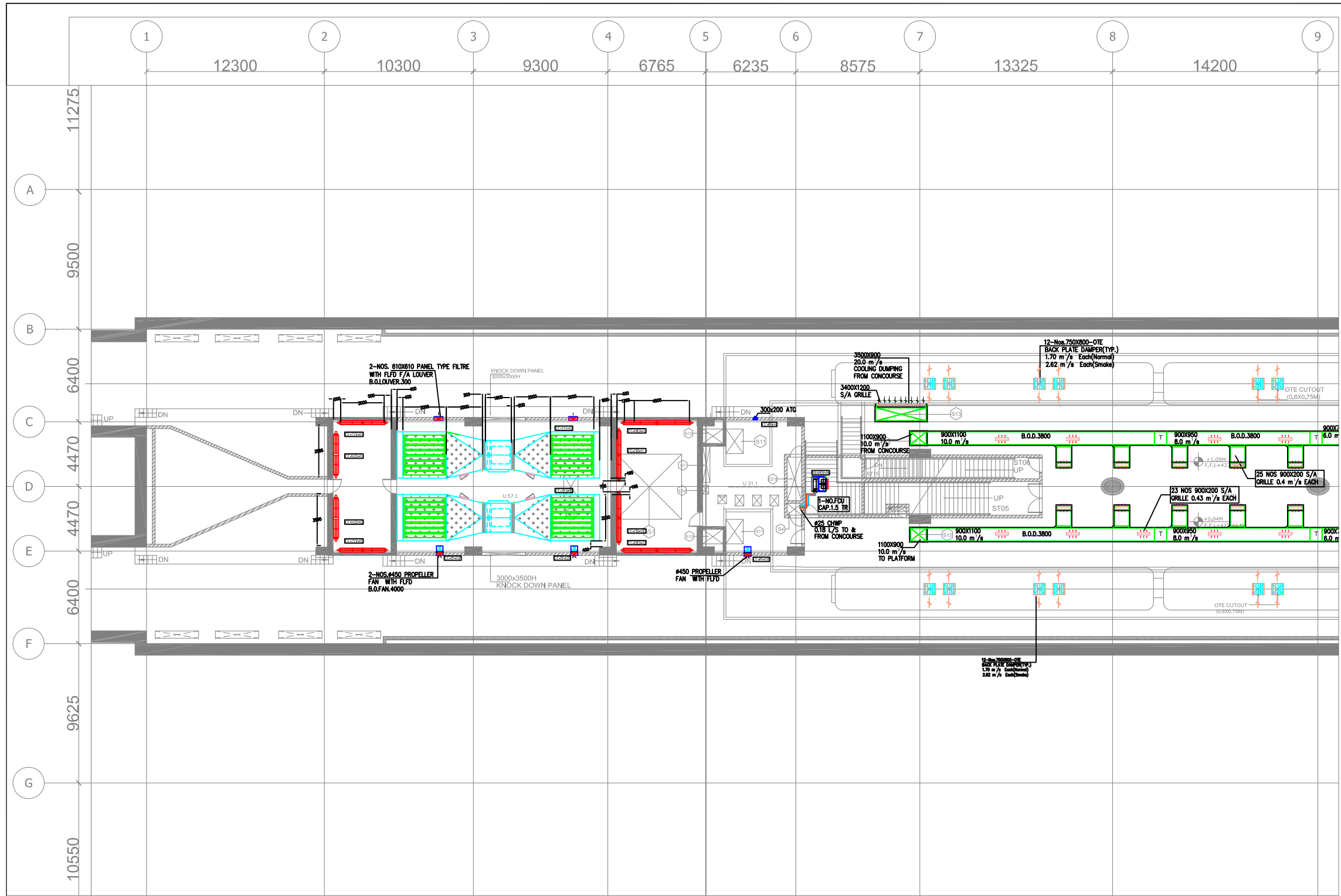
DRAWING NUMBER: JP-TD-ECS/TVS-11BC-1303

SHEET NO. 3 OF 3

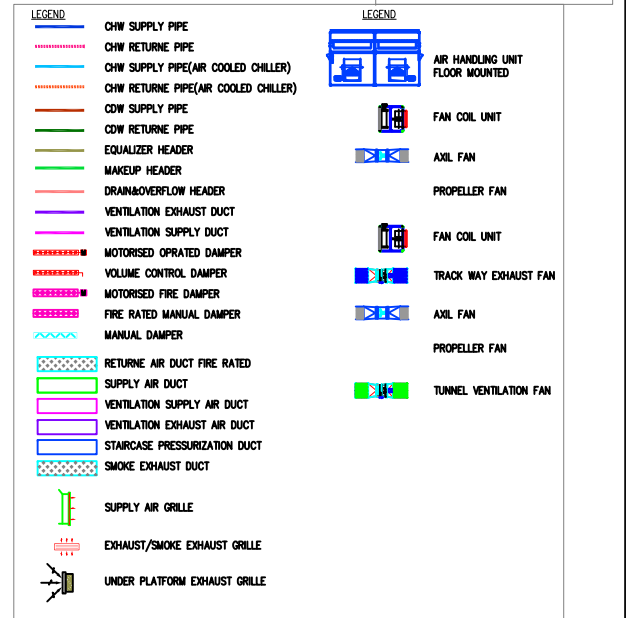
SHEET SIZE UNE A1

ORDER N° P36-0017

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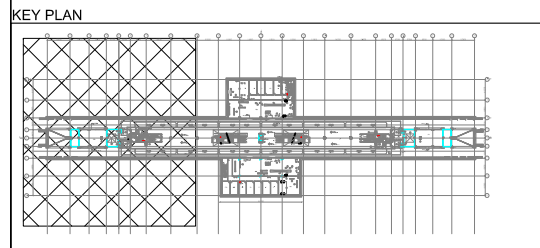
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 3. ALL SUPPLY AND RETURN AIR DUCTING INSULATED WITH 50mm. THK. FIBREGLASS INSULATION IN NON-A/C AREA.
 4. ALL CHILLED WATER PIPING INSULATED AS PER SPECIFICATION.
 5. ALL LEVELS OF DUCTS AND PIPES ARE FROM FINISHED FLOOR LEVELS.
 6. FOR ECS RELATED ELECTRICAL PLEASE REFER ECS ELECTRICAL LAYOUT.
- ABBREVIATIONS
- | | |
|--------|--|
| CC | CHOTI CHOUPUR STATION |
| AHU | Air Handling Unit |
| FAF | Fresh Air Fan |
| FCD | Fan Coil Unit |
| MD | Manual Damper |
| MFD | Motorised Fire Damper |
| MOD | Motor Operated Damper |
| OTE | Over Track Exhaust |
| R.A.G | Return Air Grille |
| S.A.G | Supply Air Grille |
| F.A.G | Fresh Air Grille |
| TEF | Track Way Exhaust Fan |
| UPE | Under Platform Exhaust |
| VCD | Volume Control Damper (Non fire rated) |
| VEF | Ventilation Exhaust Fan |
| VSF | Ventilation Supply Fan |
| B.O.D. | Bottom of Duct |
| CHWP | CHILLED WATER PIPE |
| CDWP | CONDENSER WATER PIPE |
| VSD | VENTILATION SUPPLY DUCT |
| VED | VENTILATION EXHAUST DUCT |



ROOM SCHEDULE			
S.NO.	ROOM SCHEDULE	ROOM NAME	AREA (Sq.m)
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	U26.1	AUXILIARY SUB STATION(ASST)	35.200 x 10.080 348.43*
7	U26.2	AUXILIARY SUB STATION(ASST)2	36.100 x 10.025 357.31*
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	SEWAGE ROOM	3.550 x 7.740 24.30*
15	U57.1	TUNNEL VENTILATION ROOM(TVS1)	14.800 x 9.140 133.70*
16	U57.2	TUNNEL VENTILATION ROOM(TVS2)	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 29.00
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 POLY LINE

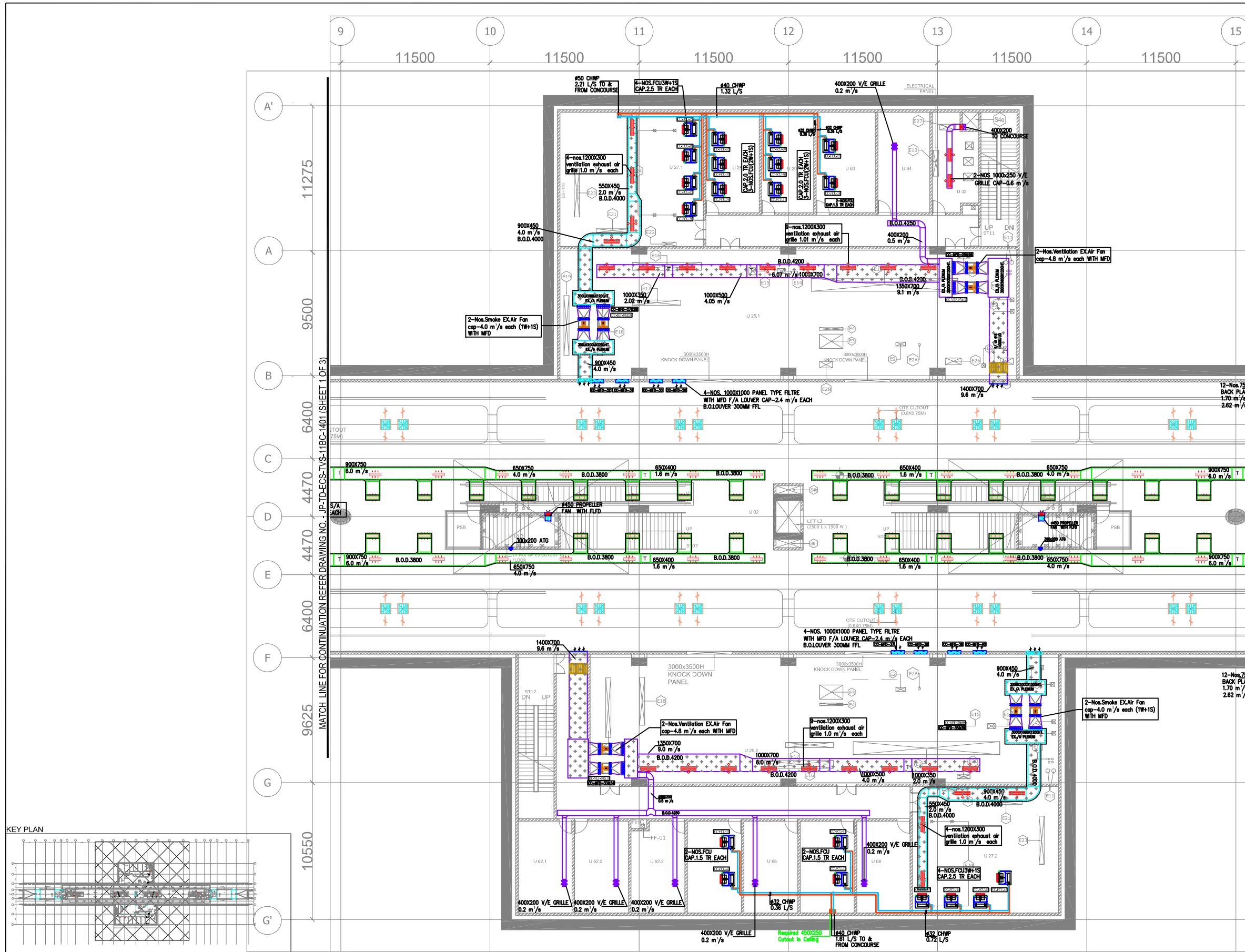
ECS SCHEDULE			
CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)
S10	UPE CUT OUT-4NO.	1.4X1.0	1.40



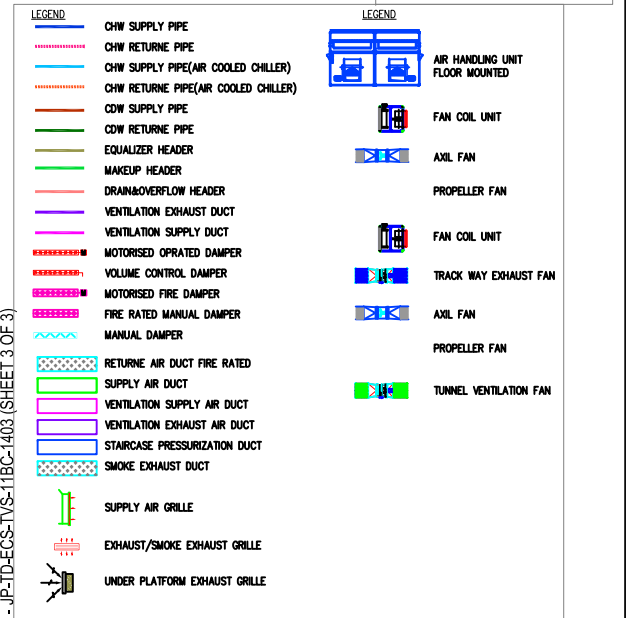
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	REFERENCE DRAWINGS		REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION	DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH	Architecture Design In-charge/ Coordinator	Structure Design In-charge/ Coordinator	E&M Design In-charge/ Coordinator		STATION: BADI CHOUPAR																	
	Drg. No.																		DRAWING TITLE: ECS/TVS LAYOUT PLATFORM LEVEL																	
	Description																		DRAWN BY: ADIL																	
DATE: 31-03-2015		REV: R0		GRAPHICAL SCALE: 1:150		STATUS: FOR TENDER		DRAWING NUMBER: JP-TD-ECS/TVS-11BC-1401		SHEET NO. 1 OF 3		SHEET SIZE UNE A1		ORDER N° P36-0017		JP/EW/1B/DDC01		ECS/TVS																		
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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)



- NOTES:-
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 3. ALL SUPPLY AND RETURN AIR DUCTING INSULATED WITH 50mm. THK. FIBREGLASS INSULATION IN NON-A/C AREA.
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 5. ALL LEVELS OF DUCTS AND PIPES ARE FROM FINISHED FLOOR LEVELS.
 6. FOR ECS RELATED ELECTRICAL PLEASE REFER ECS ELECTRICAL LAYOUT.
- ABBREVIATIONS
- | | |
|--------|--|
| CC | CHOTI CHOUPER STATION |
| AHU | Air Handling Unit |
| FAF | Fresh Air Fan |
| FU | Fan Coil Unit |
| MD | Manual Damper |
| MFD | Motorised Fire Damper |
| MOD | Motor Operated Damper |
| OTE | Over Track Exhaust |
| RAG | Return Air Grille |
| SAG | Supply Air Grille |
| FAG | Fresh Air Grille |
| TEF | Track Way Exhaust Fan |
| UPE | Under Platform Exhaust |
| VCD | Volume Control Damper (Non fire rated) |
| VEF | Ventilation Exhaust Fan |
| VSF | Ventilation Supply Fan |
| B.O.D. | Bottom of Duct |
| CHWP | CHILLED WATER PIPE |
| CHWP | CONDENSER WATER PIPE |
| VSD | VENTILATION SUPPLY DUCT |
| VED | VENTILATION EXHAUST DUCT |



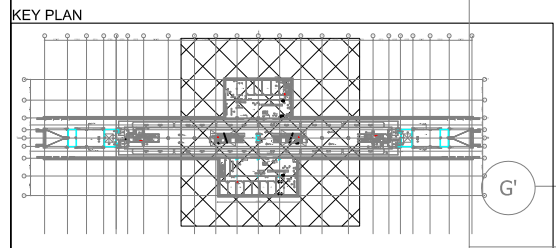
ROOM SCHEDULE

S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (M.L.) (LxB)	AREA (Sq.m.)
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	U26.1	AUXILIARY SUB STATION(ASS)1	35.200 x 10.080	348.43*
7	U25.2	AUXILIARY 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	SEWAGE 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	4.350 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 POLY LINE

ECS SCHEDULE

CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	CUTOUT POSITION
S10	UPE CUT OUT-4NO.	1.4X1.0	1.40	FLOOR



GENERAL NOTES:

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

REFERENCE DRAWINGS

Dwg. 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/SAT	CSO
DY CSTE/SIGNALLING	CSTE-III	GM/O	GMM
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II
DY CEE(E)/UG-TR	CGME(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
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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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56, Indo-Asia House, Institutional Area, sector-44
Gurgaon - 122002 (Haryana)

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

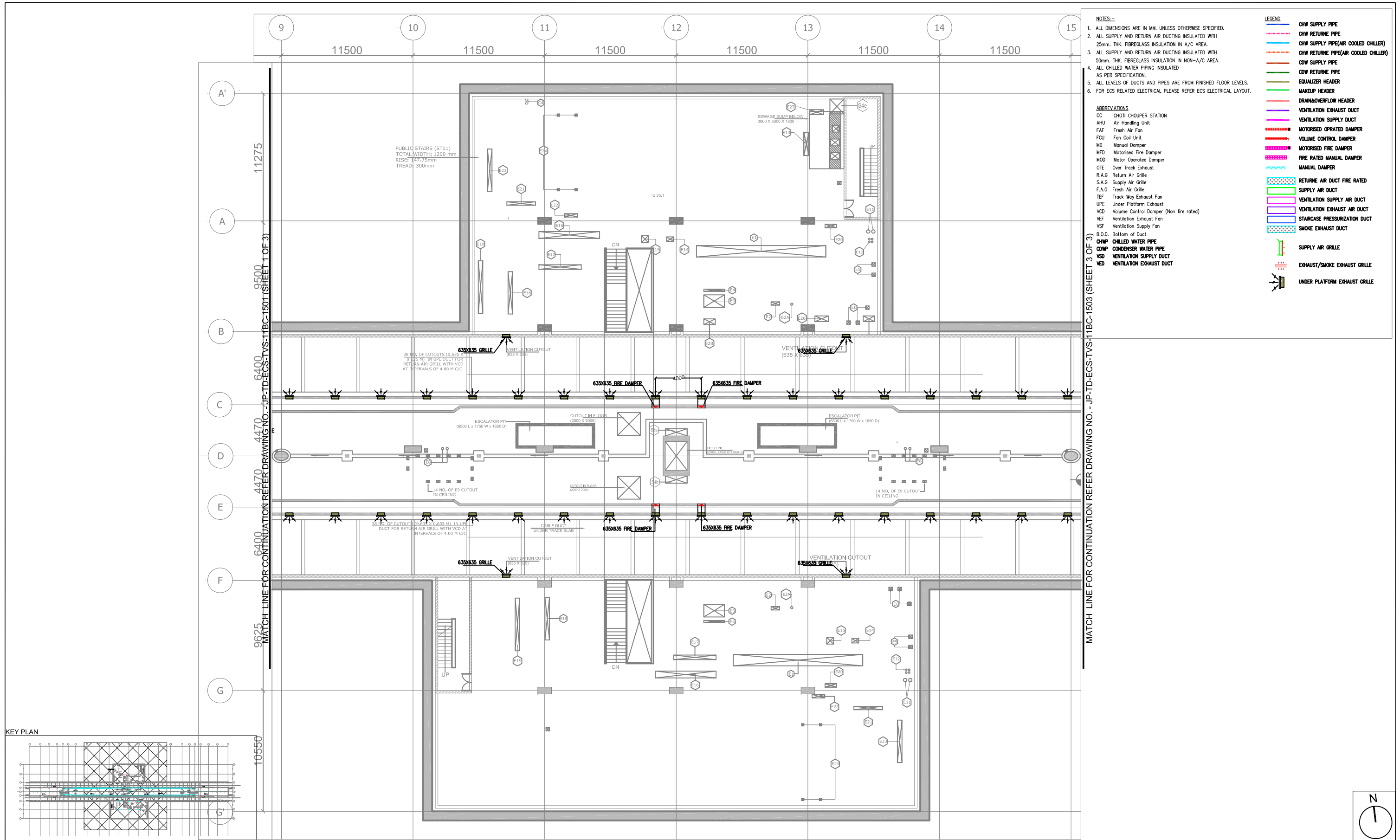
PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: ECS/TVS LAYOUT PLATFORM LEVEL

DRAWN BY: ADIL	CHECKED BY: NITIN	VERIFIED BY: L.R.S
DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: 1:150
DRAWING NUMBER: JP-TD-ECS/TVS-11BC-1402	SHEET NO. 2 OF 3	SHEET SIZE UNE A1

STATUS: FOR TENDER



NOTES:-

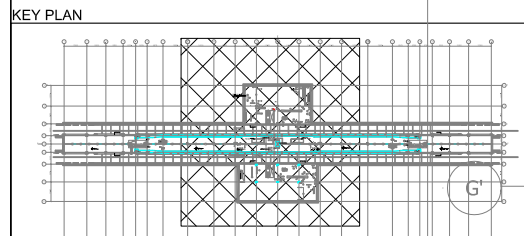
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5. ALL LEVELS OF DUCTS AND PIPES ARE FROM FINISHED FLOOR LEVELS.
6. FOR ECS RELATED ELECTRICAL PLEASE REFER ECS ELECTRICAL LAYOUT.

LEGEND

	CHW SUPPLY PIPE
	CHW RETURN PIPE
	CHW SUPPLY PIPE(AIR COOLED CHILLER)
	CHW RETURN PIPE(AIR COOLED CHILLER)
	COW SUPPLY PIPE
	COW RETURN PIPE
	EQUALIZER HEADER
	MAKEUP HEADER
	DRAIN/OVERFLOW HEADER
	VENTILATION EXHAUST DUCT
	VENTILATION SUPPLY DUCT
	MOTORISED OPERATED DAMPER
	VOLUME CONTROL DAMPER
	MOTORISED FIRE DAMPER
	FIRE RATED MANUAL DAMPER
	MANUAL DAMPER
	RETURNE AIR DUCT FIRE RATED
	SUPPLY AIR DUCT
	VENTILATION SUPPLY AIR DUCT
	VENTILATION EXHAUST AIR DUCT
	STAIRCASE PRESSURIZATION DUCT
	SMOKE EXHAUST DUCT
	SUPPLY AIR GRILLE
	EXHAUST/SMOKE EXHAUST GRILLE
	UNDER PLATFORM EXHAUST GRILLE

ABBREVIATIONS

CC	CHOTI CHOUPUR STATION
AHU	Air Handling Unit
FAF	Fresh Air Fan
FCU	Fan Coil Unit
MD	Manual Damper
MFD	Motorised Fire Damper
MDD	Motor Operated Damper
OTE	Over Track Exhaust
R.A.G	Return Air Grille
S.A.G	Supply Air Grille
F.A.G	Fresh Air Grille
TEF	Track Way Exhaust Fan
UPE	Under Platform Exhaust
VCD	Volume Control Damper (Non fire rated)
VEF	Ventilation Exhaust Fan
VSF	Ventilation Supply Fan
B.O.D.	Bottom of Duct
CHWP	CHILLED WATER PIPE
CONDWP	CONDENSER WATER PIPE
VSD	VENTILATION SUPPLY DUCT
VED	VENTILATION EXHAUST DUCT



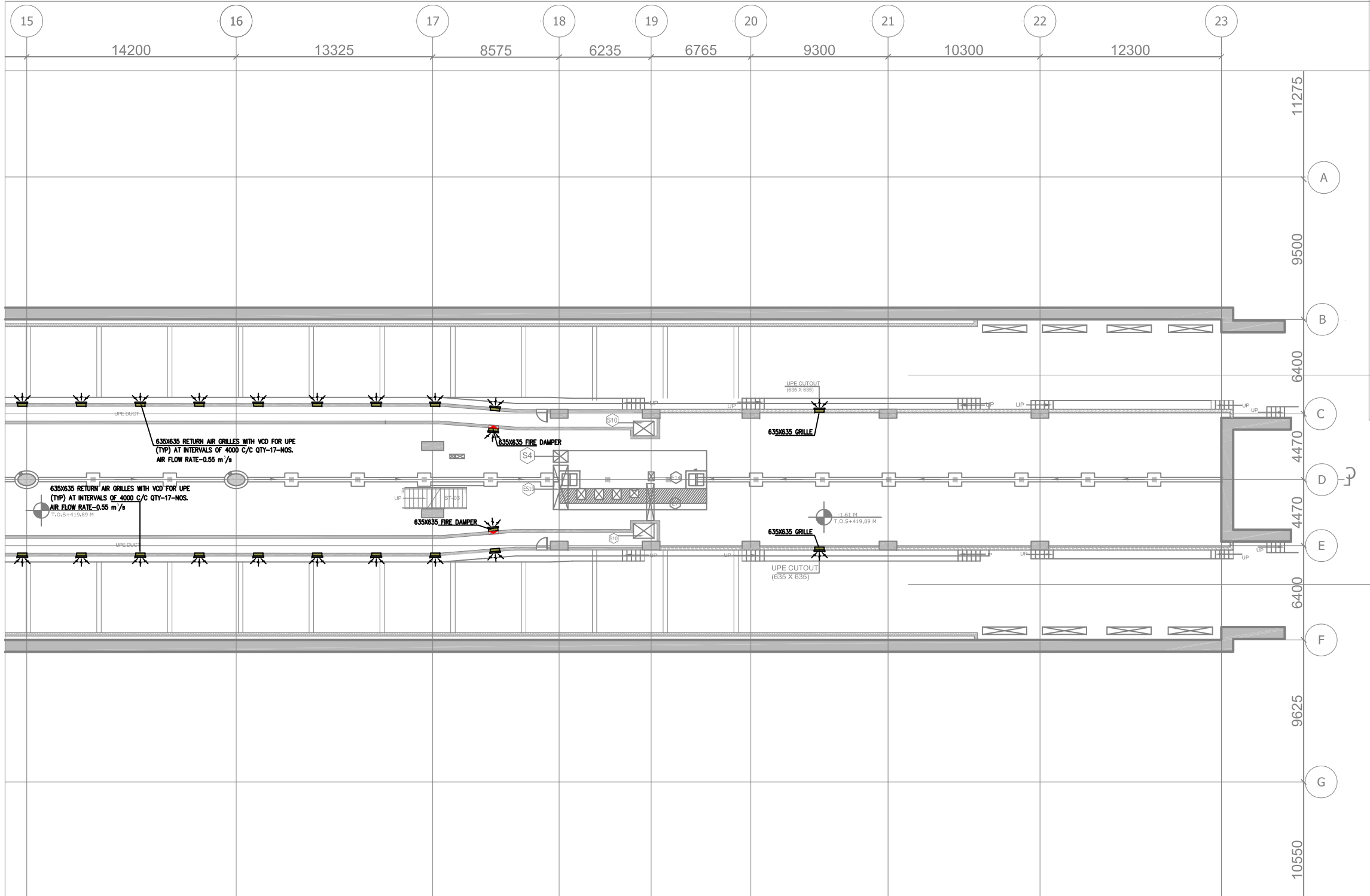
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DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

ayesa Engineering, Information, Imagination.

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

MATCH LINE FOR CONTINUATION REFER DRAWING NO.. JP-ID-ECS-TVS-11BC-1502 (SHEET 2 OF 3)



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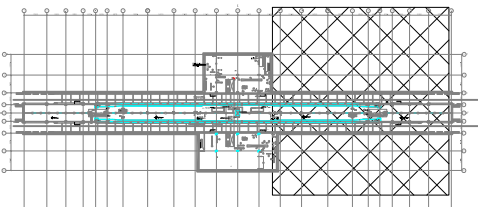
ABBREVIATIONS

CC CHOTI CHOUPAR STATION
AHU Air Handling Unit
FAF Fresh Air Fan
FCU Fan Coil Unit
MD Manual Damper
MFD Motorised Fire Damper
MOD Motor Operated Damper
OTE Over Track Exhaust
R.A.G Return Air Grille
S.A.G Supply Air Grille
F.A.G Fresh Air Grille
TEF Track Way Exhaust Fan
UPE Under Platform Exhaust
VCD Volume Control Damper (Non fire rated)
VEF Ventilation Exhaust Fan
VSF Ventilation Supply Fan
B.O.D. Bottom of Duct
CHWP CHILLED WATER PIPE
CWMP CONDENSER WATER PIPE
VSD VENTILATION SUPPLY DUCT
VED VENTILATION EXHAUST DUCT

LEGEND

CHW SUPPLY PIPE
CHW RETURN PIPE
CHW SUPPLY PIPE(AIR COOLED CHILLER)
CHW RETURN PIPE(AIR COOLED CHILLER)
COW SUPPLY PIPE
COW RETURN PIPE
EQUALIZER HEADER
MAKEUP HEADER
DRAIN/OVERFLOW HEADER
VENTILATION EXHAUST DUCT
VENTILATION SUPPLY DUCT
MOTORISED OPERATED DAMPER
VOLUME CONTROL DAMPER
MOTORISED FIRE DAMPER
FIRE RATED MANUAL DAMPER
MANUAL DAMPER
RETURNE AIR DUCT FIRE RATED
SUPPLY AIR DUCT
VENTILATION SUPPLY AIR DUCT
VENTILATION EXHAUST AIR DUCT
STAIRCASE PRESSURIZATION DUCT
SMOKE EXHAUST DUCT
SUPPLY AIR GRILLE
EXHAUST/SMOKE EXHAUST GRILLE
UNDER PLATFORM EXHAUST GRILLE

KEY PLAN



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	<table><tr><th colspan="2">REFERENCE DRAWINGS</th></tr><tr><th>Drg. No.</th><th>Description</th></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>										REFERENCE DRAWINGS		Drg. No.	Description							REV		PARTICULARS		DRN.		CHD.		VER.		DATE		ISSUE DATE		REV. FOR CONSTRUCTION		DMRC APPROVAL		MGR/ARCH		DY CA (UG)II		CA/ARCH		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)			
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	DY CSTE/AFC				ED/S&T		CSO																																															
	DY CSTE/SIGNALLING		CSTE-III		GM/O		GMM																																															
DY CE/PLANNING		DY CEE/E&M		DY CEE/ECS		ED/ELEC-II																																																
DY CEE/(E)UG-TR		CGM(E) UG-TR		PM		CPM																																																