

SITE PLAN 1:100

- NOTES :
1. ALL DIMENSIONS ARE IN M UNLESS OTHERWISE SPECIFIED.
 2. ALH(1a) INCLUDE BELOW CHAINAGE LOCATION PROPOSED ALH : CH-167.820, CH-202.040, CH-219.400, CH-240.400, CH-248.960.
 3. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44 (AS PER ALIGNMENT AND CROSS SECTION DRAWINGS OF CP 201 & 202).
 4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
 5. REFERENCE DRAWING NO. SEE BELOW TABLE :

REFERENCE TABLE A

S.NO.	Item NO.	Building Chainage	Reference Chainage	Alignment Plan & Profile Drawing NO.	Detailed Cross Section Drawing NO.
1	ALH207	167.820	167.820	P2AL0041C	P2DCS3028C
2	ALH213	202.040	202.040	P2AL0069C	P2DCS5002C
3	ALH216	219.400	219.400	P2AL0084D	P2DCS5053C
4	ALH219	240.400	240.400	P2AL0101D	P2DCS6020C
5	ALH221	248.960	248.960	P2AL0108D	P2DCS6040C

6. ALH LOCATION DATUM POINT SEE BELOW TABLE :

REFERENCE TABLE B

S.NO.	Item NO.	Building Chainage	Reference Chainage	Datum Point Unit:m			Direction Angle
				X	Y	Z	
1	ALH207	167.820	167.820	678187.951	2777816.529	79.708	20.328°
2	ALH213	202.040	202.040	650551.024	2783894.598	85.223	20.882°
3	ALH216	219.400	219.400	633836.278	2783049.898	86.975	-3.408°
4	ALH219	240.400	240.400	614053.386	2788062.557	89.151	24.170°
5	ALH221	248.960	248.960	606169.981	2791391.612	90.331	22.858°

Note : The direction angle "α" is positive("°") for clockwise rotation.

7. LEVEL ABBREVIATIONS

F.T.E.L : FORMATION TOP EDGE LEVEL
F.G.L : FINISHED GROUND LEVEL
P.F.F.L : PLINTH FINISHED FLOOR LEVEL
R.L : RAIL LEVEL
E.G.L : EXISTING GROUND LEVEL

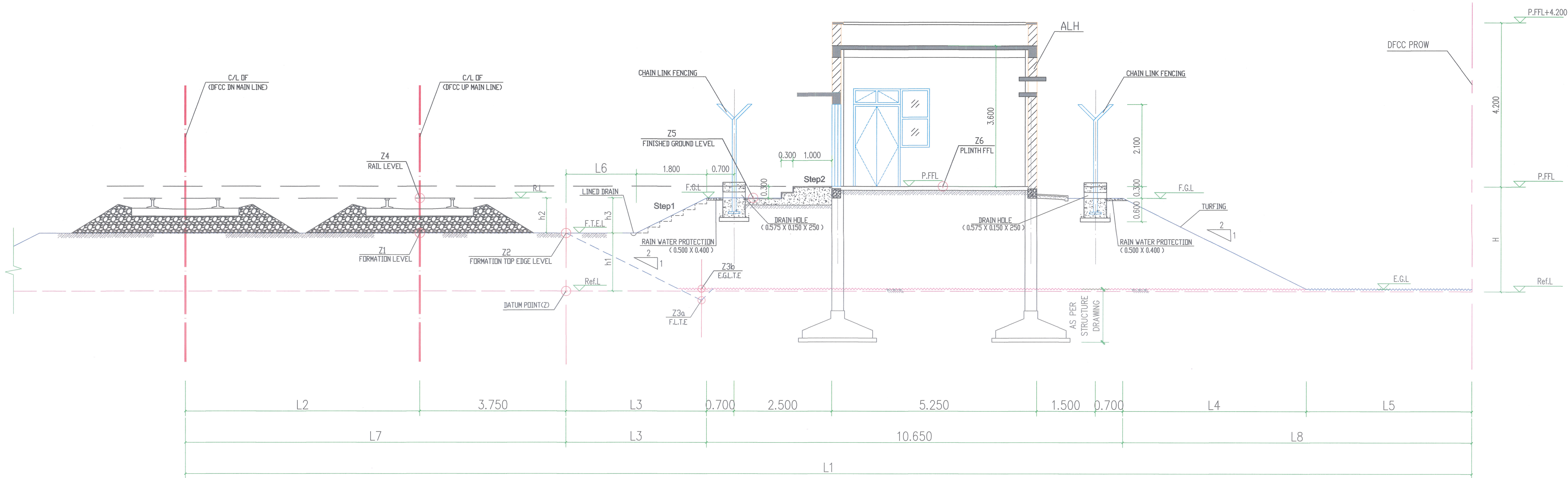
8. FOR SITE PLAN DESIGN PARAMETERS SEE "SITE SECTION 1-1" TABLE IN DRAWING NO. 1/AR/01A02.
9. CHAIN LINK FENCING SHOULD BE AS PER PARA 1.4.5. (5), PART 2, SECTION VI, VOL. 4, PARTICULAR SPECIFICATION BUILDING & STRUCTURE WORKS, ON PAGE NO. 0633 OF CA CP-203.
11. DRAWING NOT TO BE MEASURED.
12. TURFING ON SLOPE TO BE DONE.

PRELIMINARY GAD

FOR CONTRACTOR			
PREPARED BY:		CHECKED BY:	APPROVED BY:
SUDHANSH KHARE		PRASHANT RANJAN	WU CHUANGLONG
H	21-05-2018	EIGHTH ISSUE	
G	22-03-2018	SEVENTH ISSUE	
F	22-02-2018	SIXTH ISSUE	
E	03-02-2018	FIFTH ISSUE	
D	27-01-2018	FOURTH ISSUE	
C	20-12-2017	THIRD ISSUE	
B	04-12-2017	SECOND ISSUE	
A	15-11-2017	FIRST ISSUE	
REV.	DATE	DESCRIPTION	REV.BY
CHK.BY			

CRSC Beijing National Railway Research&Design Institute of Signal&Communication Co.,Ltd.	
NAME OF THE CONTRACT: NEW MUGHALSARAI-NEW BHAUPUR DESIGN AND BUILD SYSTEM WORK CONTRACT PACKAGE-203	
CLIENT NAME: mft Dedicated Freight Corridor Corporation of India Ltd. A Government of India (Ministry of Railway) Enterprise	SCALE 1:100
PROJECT NAME: Eastern Dedicated Freight Corridor Project-2	SHEET 01
ALH (1a) SITE PLAN	
TOT.SHEET 01	
STATUS: W	DWG No.: 1/AR/01a01
REV. H	
REF.DWG:	ALIGNMENT PLAN & PROFILE KM. 142+200 TO KM. 259+800 DETAILED CROSS SECTION: FROM KM. 142+440 TO KM. 259+880
SH.SIZE 841 X 594 MM	

PMC: SYSTRA - MOTT MACDONALD MACDONALD JV	TEAM LEADER	EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.
MOTT MACDONALD	ARCHITECT	



SITE SECTION 1-1

ALH SITE PROFILE PARAMETERS

S.No.	Item no.	Building Chainage	Reference Chainage	Co-ordinates of ref. / Datum pt.		Ref. Level	Levels at 'Reference Chainage' as per approved cross-section				Derived Levels			Level Difference (Height/Depth)				Distance												Remark
						Datum point (Refer to the drawing)	Formation Level at the Center of UP Main Track Line	Formation Level at Top Edge of the Embankment	Formation Level at the Toe of Embankment	Existing Ground Level at the Toe of Embankment	Rail Level	Finished Ground Level	Plinth FFL	HT/DT. Of Formation Top Edge Level from Datum PT.	HT/DT. Of Rail Level from F.T.E.L.	HT/DT. Of F.G.L. from F.T.E.L.	HT/DT. Of Plinth FFL from Datum pt.													
				X	Y	Z	Z1	Z2	Z3a	Z3b	Z4 (=Z1 + 0.771)	Z5 (=Z2+h3)	Z6 (=Z5 + 0.3)	h1 (=Z2 - Z)	h2 (=Z4-Z2)	h3 (≥h2)	H (=Z6-Z)	A(=2 x h1) (see site plan)	B(=2 x (h1+h3)) (see site plan)	L1	L2	L3 (=L6+1.800)	L4	L5	L6	L7	L8			
1	ALH 207	167.820	167.820	678187.951	2777816.529	79.708	81.550	81.427	79.712	79.929	82.321	82.328	82.628	1.719	0.894	0.901	2.920	3.438	5.240	45.729	6.001	3.600	5.240	16.488	1.800	9.751	21.728			
2	ALH 213	202.040	202.040	650551.024	2783894.598	85.223	85.505	85.381	83.666	85.180	86.276	86.283	86.583	0.158	0.895	0.902	1.360	0.316	2.120	38.577	6.015	3.600	2.120	12.442	1.800	9.765	14.562			
3	ALH 216	219.400	219.400	633836.278	2783049.898	86.975	88.578	88.455	86.740	87.034	89.349	89.355	89.655	1.480	0.894	0.900	2.680	2.960	4.760	72.027	6.000	3.600	4.760	43.267	1.800	9.750	48.027			
4	ALH 219	240.400	240.400	614053.386	2788062.557	89.151	90.013	89.889	88.174	89.067	90.784	90.791	91.091	0.738	0.895	0.902	1.940	1.476	3.280	28.798	6.001	3.600	3.280	1.517	1.800	9.751	4.797			
5	ALH 221	248.960	248.960	606169.981	2791391.612	90.331	91.399	91.276	89.561	90.349	92.170	92.171	92.471	0.945	0.894	0.895	2.140	1.890	3.680	30.514	6.000	3.600	3.680	2.835	1.800	9.749	6.515			

- NOTES :
- ALL DIMENSIONS ARE IN M UNLESS OTHERWISE SPECIFIED.
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CH-167.820, CH-202.040, CH-219.400, CH-240.400, CH-248.960.

- ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44 (AS PER ALIGNMENT AND CROSS SECTION DRAWINGS OF CP 201 & 202).
- CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
- REFERENCE DRAWING NO. SEE BELOW TABLE :

REFERENCE TABLE A					
S.NO.	Item NO.	Building Chainage	Reference Chainage	Alignment Plan & Profile Drawing NO.	Detailed Cross Section Drawing NO.
1	ALH207	167.820	167.820	P2AL0041C	P2DCS3028C
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3	ALH216	219.400	219.400	P2AL0084D	P2DCS5053C
4	ALH219	240.400	240.400	P2AL0101D	P2DCS6020C
5	ALH221	248.960	248.960	P2AL0108D	P2DCS6040C

- ALH LOCATION DATUM POINT SEE BELOW TABLE :

REFERENCE TABLE B							
S.NO.	Item NO.	Building Chainage	Reference Chainage	Datum Point Unit:m			Direction Angle
				X	Y	Z	
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2	ALH213	202.040	202.040	650551.024	2783894.598	85.223	20.882°
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Note : The direction angle "α" is positive("+ ") for clockwise rotation.

- LEVEL ABBREVIATIONS
F.T.E.L. : FORMATION TOP EDGE LEVEL
F.G.L. : FINISHED GROUND LEVEL
P.F.F.L. : PLINTH FINISHED FLOOR LEVEL
R.L. : RAIL LEVEL
E.G.L. : EXISTING GROUND LEVEL
F.L.T.E. : FORMATION LEVEL AT THE TOE OF EMBANKMENT
E.G.L.T.E. : EXISTING GROUND LEVEL AT THE TOE OF EMBANKMENT
- THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 1/AR/01a01.
- CHAIN LINK FENCING SHOULD BE AS PER PARA 1.4.5. (5), PART 2, SECTION VI, VOL. 4, PARTICULAR SPECIFICATION BUILDING & STRUCTURE WORKS, ON PAGE NO. 0633 OF CA CP-203.
- DRAWING NOT TO BE MEASURED.
- TURFING ON SLOPE TO BE DONE.

PRELIMINARY GAD

FOR CONTRACTOR		
PREPARED BY:	CHECKED BY:	APPROVED BY:
SUDHANSHU KHARE	PRASHANT RANJAN	WU CHUANGLONG

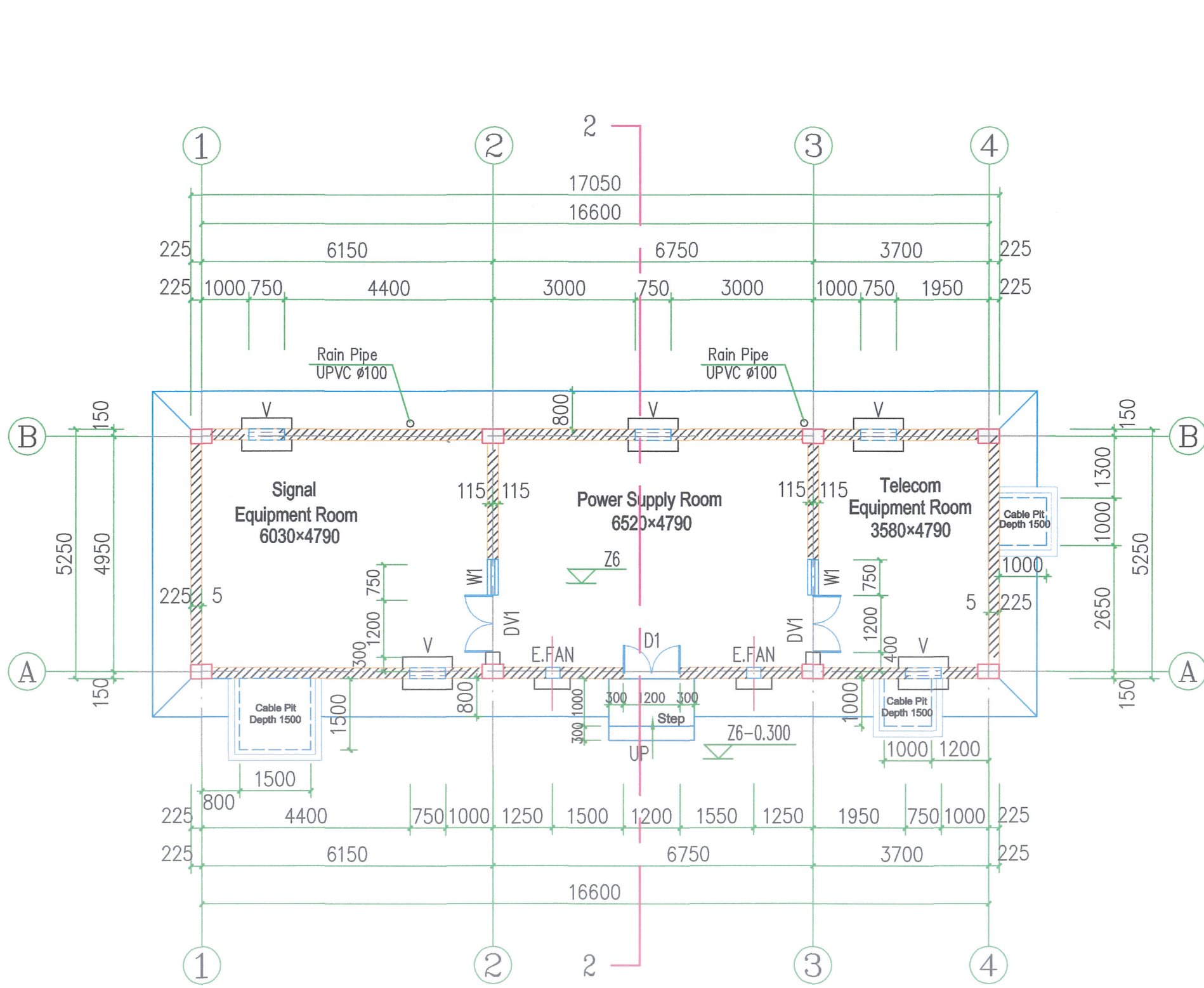
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REV.	DATE	DESCRIPTION	REV.BY	CHK.BY

CRSC Beijing National Railway Research&Design Institute of Signal&Communication Co.,Ltd.		
NAME OF THE CONTRACT: NEW MUGHALSARAI-NEW BHAUPUR DESIGN AND BUILD SYSTEM WORK CONTRACT PACKAGE-203		
CLIENT NAME: Dedicated Freight Corridor Corporation of India Ltd. A Government of India (Ministry of Railway) Enterprise	SCALE 1:50	
PROJECT NAME: Eastern Dedicated Freight Corridor Project-2	SHEET 01	
ALH (1a) SITE SECTION 1-I		
STATUS: W	DWG No.: 1/AR/01a02	REV. H
REF.DWG.: ALIGNMENT PLAN & PROFILE: KM. 142+000 TO KM. 259+000 DETAILED CROSS SECTION: FROM KM. 142+440 TO KM. 259+000		SH.SIZE 1051 X 594 MM

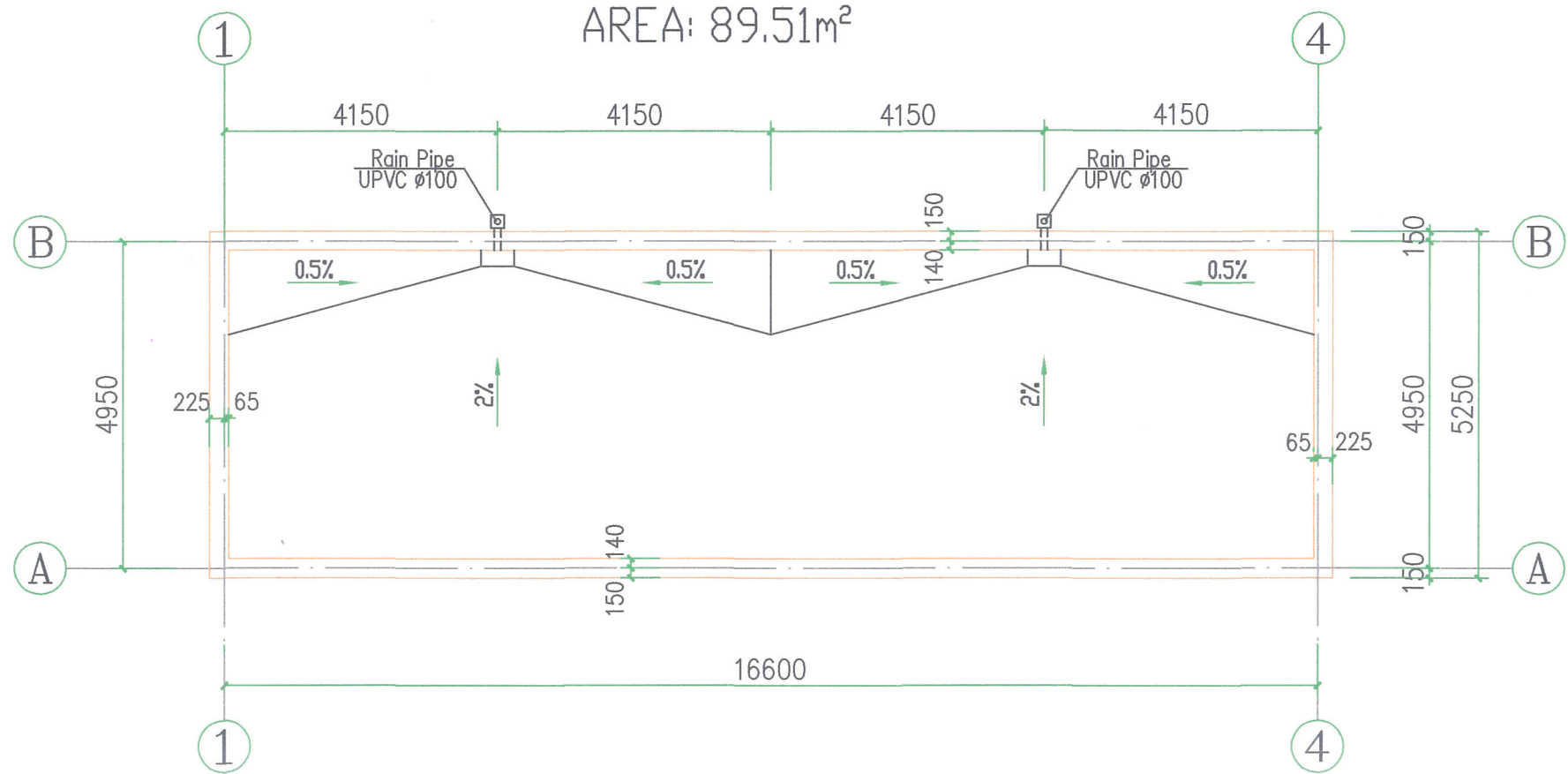
PMC:
SYSTRA - MOTT MACDONALD
MACDONALD JV

TEAM LEADER
ARCHITECT

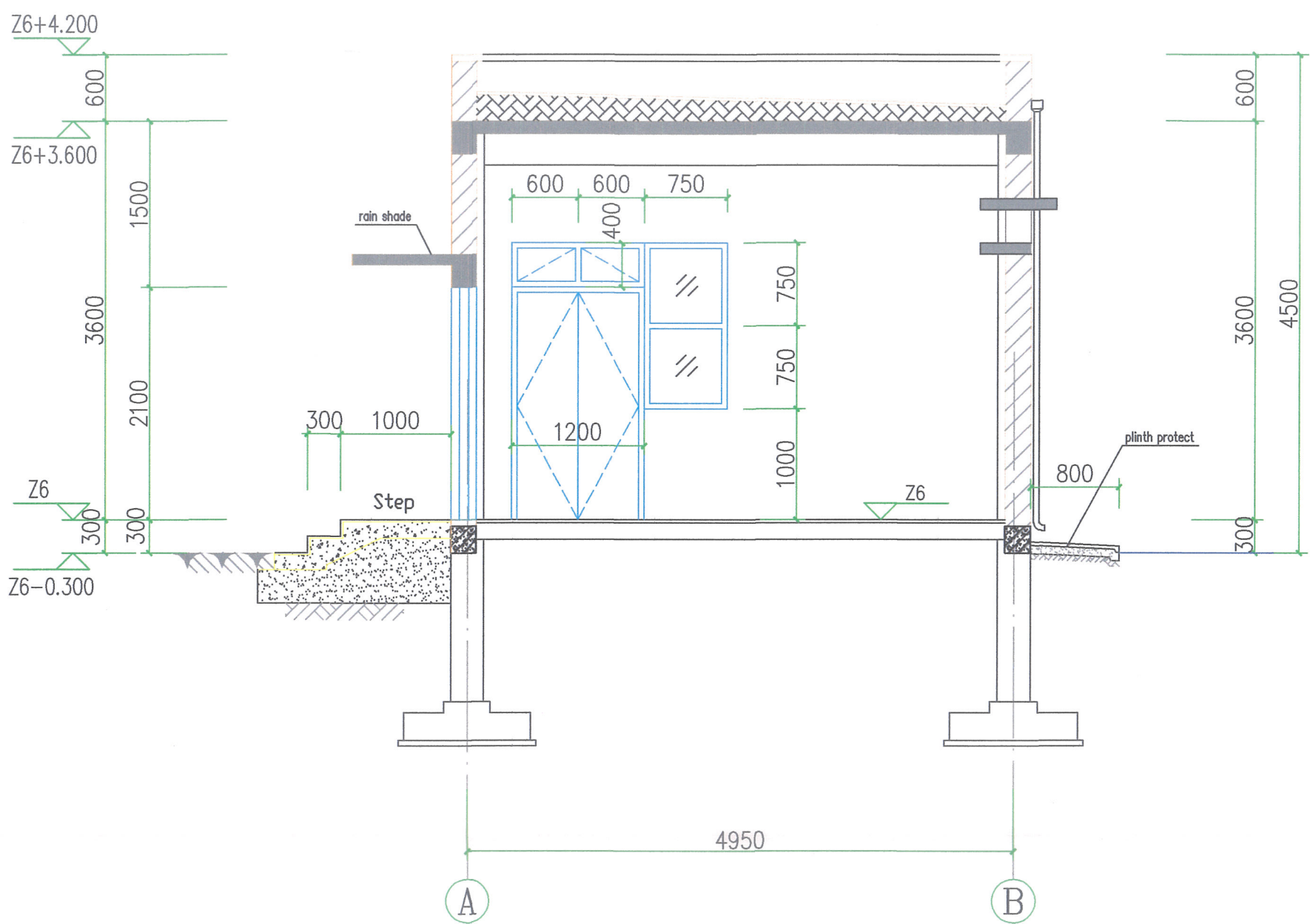
EMPLOYER:
DEDICATED FREIGHT
CORRIDOR CORPORATION
OF INDIA LTD.



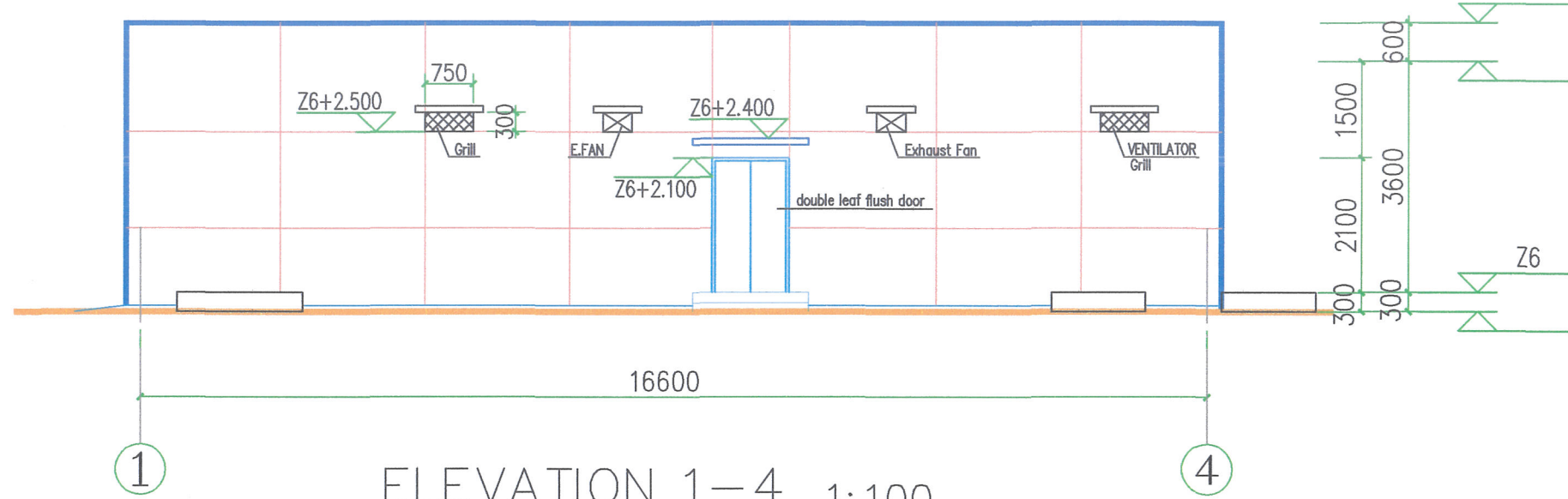
GROUND-PLAN 1:100
AREA: 89.51m²



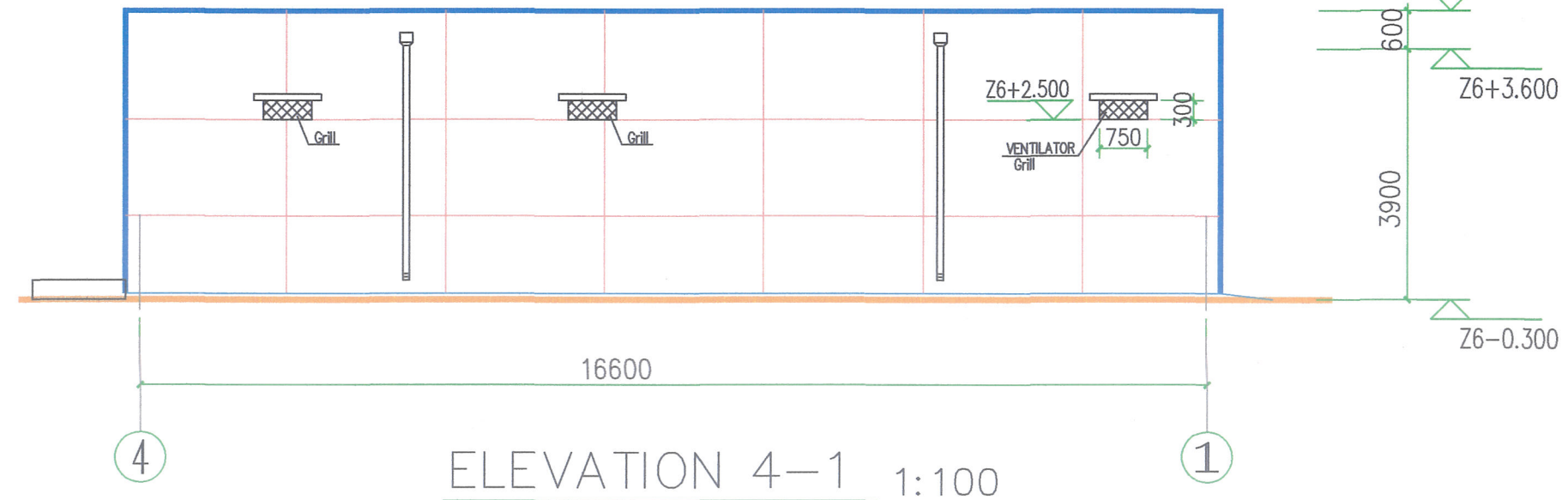
TERRACE PLAN 1:100



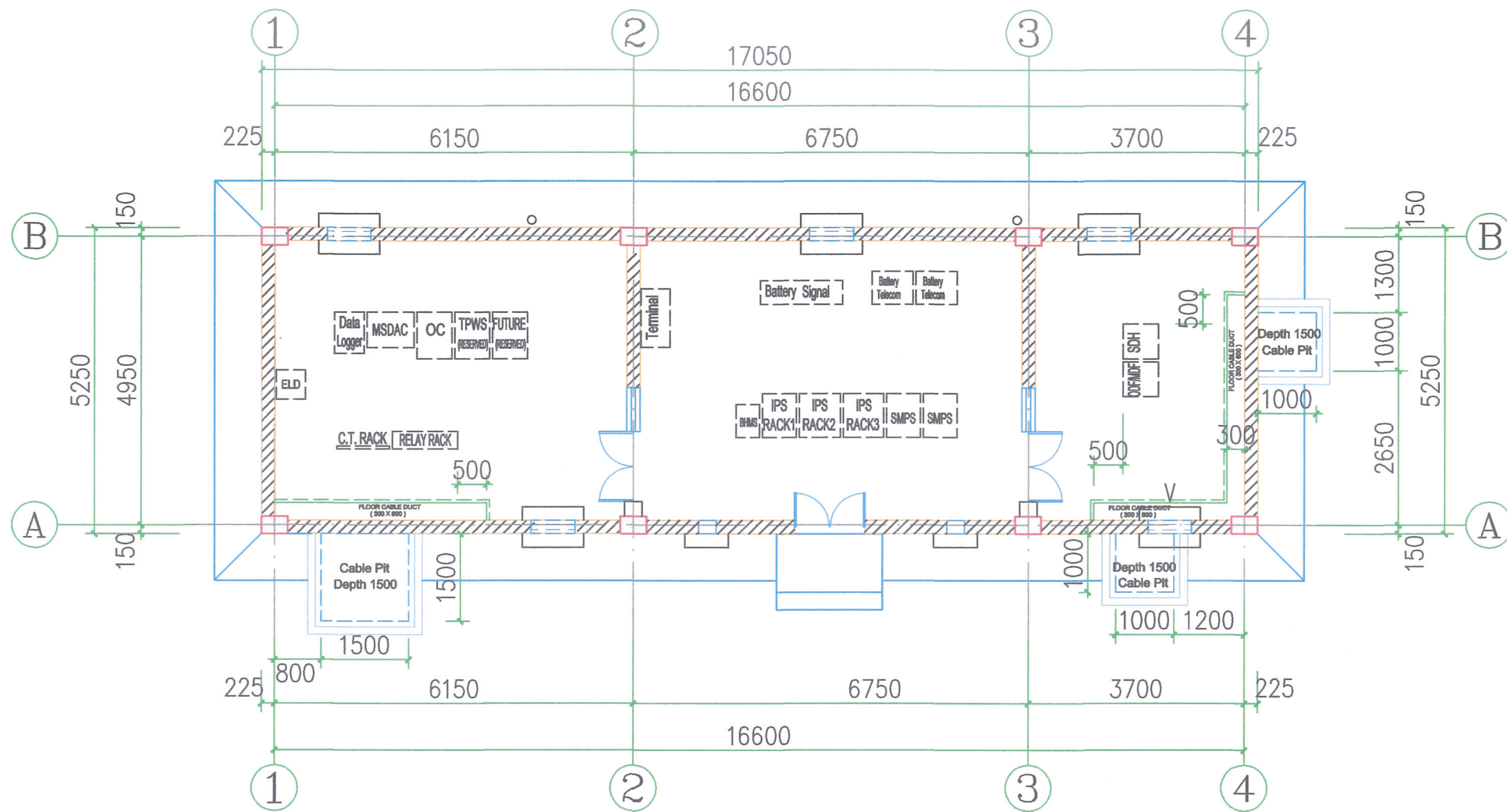
SECTION 2-2 1:50



ELEVATION 1-4 1:100



ELEVATION 4-1 1:100



FLOOR CABLE DUCT PLAN 1:100

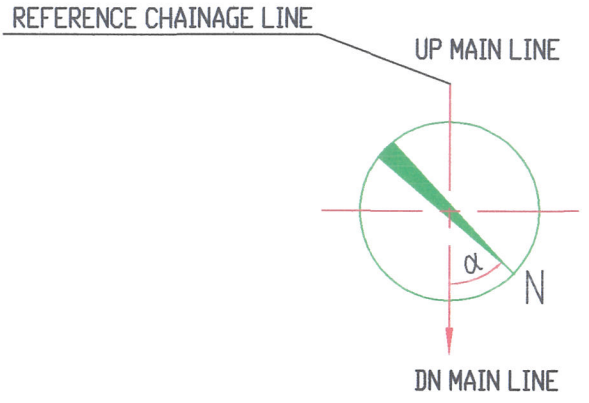
DOOR, WINDOW & VENTILATOR SCHEDULE						
TYPE	NO.	WIDTH (MM)	HEIGHT (MM)	SILL (M)	LINTEL (M)	REMARK
DOOR	DV1	1200	2500	Z6	Z6 + 2.500	STEEL DOOR , 400 MM TOP-HUNG VENTILATOR
	D1	1200	2100	Z6	Z6 + 2.100	STEEL DOOR
WINDOW	W1	750	1500	Z6 + 1.000	Z6 + 2.500	FIXED GLASS
VENTILATOR	V	750	300	Z6 + 2.500	Z6 + 2.800	GRILL

FURNISHING SCHEDULE			
S.N.	DESCRIPTION	FINISHING	
		FLOORS	SKIRTING / DADO
1	signalling & telecommunication equipment rooms	ceramic tile flooring	same with 100mm high
2	power supply room	acid proof tiles for flooring	same with 2 metre high
3	doors	door frame -steel sction painted with enamel paint shutter door - water proof flush door steel section painted with enamel paint.	
4	ventilators	ventilators shall be made with steel "z" section with the grill painted with enamel paint	
5	internal finish	cement plaster on all walls finished with oil bound distemper	
6	external finish	cement plaster on all walls and finished with snowcem paint	
7	false ceilings	600x600mm calcium silicate panels for signal and telecom equipment room (height upto bottom of false ceiling 2.8 m)	

PMC:
SYSTRA - MOTT MACDONALD
MACDONALD JV

TEAM LEADER
ARCHITECT

EMPLOYER:
**DEDICATED FREIGHT
CORRIDOR CORPORATION
OF INDIA LTD.**



- NOTES :
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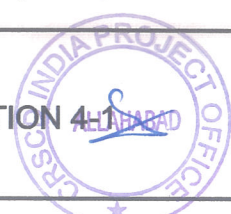
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Note : The direction angle " α " is positive("+") for clockwise rotation.

- FOR THE ALH LOCATION SEE DRAWING NO. 1/AR/01a02.
- WATERPROOFING & THERMAL INSULATION ON ROOF TO BE DONE.

PRELIMINARY GAD

FOR CONTRACTOR		CHECKED BY:		APPROVED BY:		
PREPARED BY:						
SUDHANSH KHARE		PRASHANT RANJAN		WU CHUANGLONG		
G	21-05-2018	SEVENTH ISSUE				
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EV.	DATE	DESCRIPTION		REV.BY	CHK.BY	
 Beijing National Railway Research&Design Institute of Signal&Communication Co.,Ltd.						
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PROJECT NAME: Eastern Dedicated Freight Corridor Project-2				SHEET 01		
ALH(1a) GROUND-PLAN, ELEVATION 1-4, ELEVATION 4-1 SECTION 1-1, TERRACE PLAN						
STATUS: W		DWG No.: 1/AR/01a03				
REF. DWG.:						TOT. SHEET 01
ALIGNMENT PLAN & PROFILE KM. 142+200 TO KM. 259+800 DETAILED CROSS SECTION: FROM KM. 142+440 TO KM. 259+880						SH. SIZE 841 X 594 MM