

DRG. NO.

6

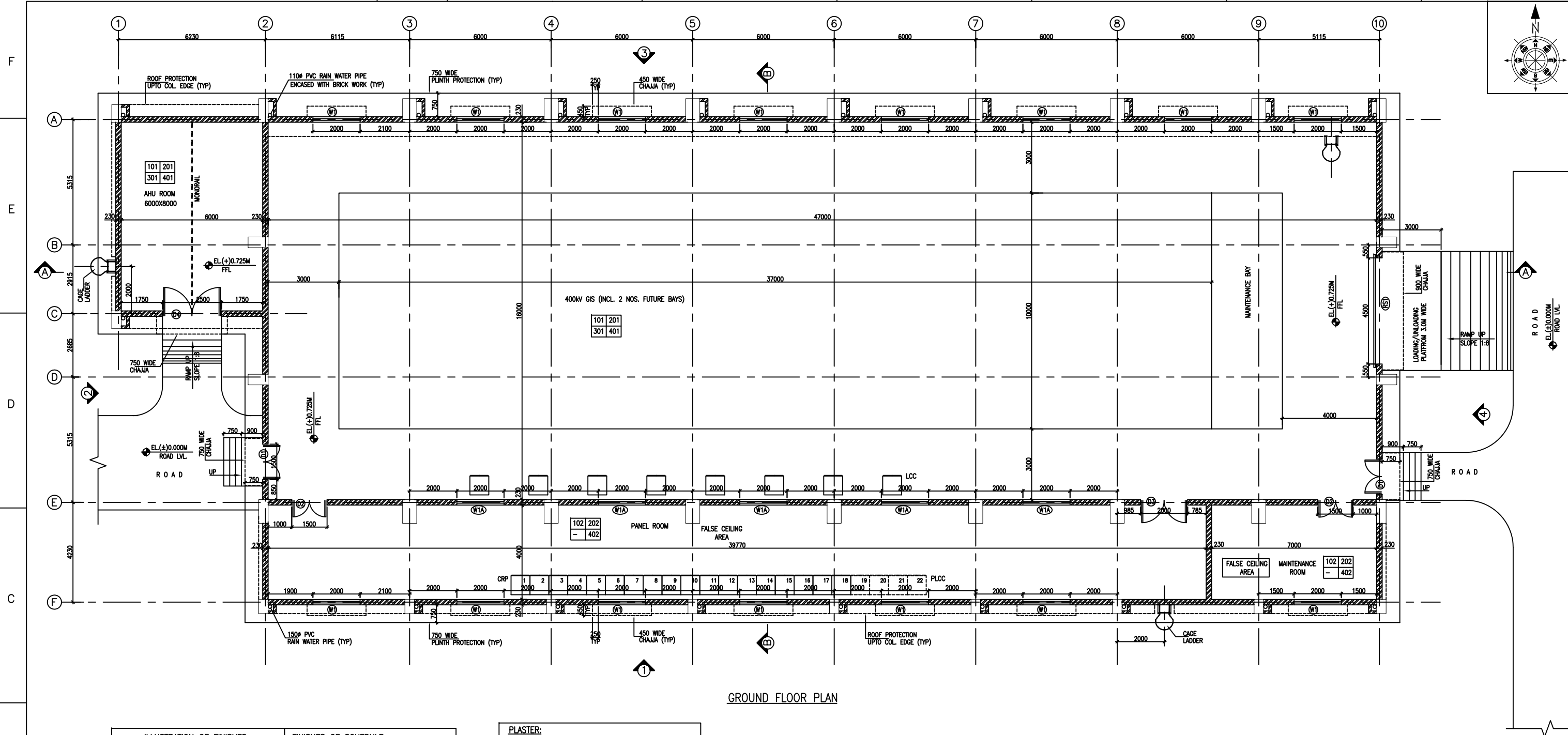
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4

3

2

1



GROUND FLOOR PLAN

ILLUSTRATION OF FINISHES.				FINISHES OF SCHEDULE		
WALL SERIES 100		FLOORING SERIES 200		WALL FINISHES—		
CEILING SERIES 300		SKIRTING/ DADO SERIES 400		SR.NO.	CODE NO.	DESCRIPTION
				1.	101	ARYLIC DISTEMPER
				2.	102	ARYLIC EMULSION PAINT
SKIRTING/DADO FINISHES				FLOORING FINISHES		
1.	401	CEMENT PLASTER SKIRTING 150 MM HIGH		1.	201	CEMENT CONCRETE FLOORING
2.	402	VITRIFIED TILES		2.	202	VITRIFIED TILES
CEILING FINISHES						
1.	301	ARYLIC DISTEMPER				
2.	302	ARYLIC EMULSION PAINT				

REFERENCE DRAWING:-

- 1 OVERALL GENERAL ARRANGEMENT DRAWING - TB-0-375-316-002
1 CONCEPTUAL DRAWING FOR 400kV GIS BUILDING - TB-3-404-316-004

PLASTER:-

INTERNAL:
12mm THK. PLASTER (1:6 CEMENT : SAND)
EXTERNAL:
18mm THK. PLAIN PLASTER (1:6 CEMENT : SAND)
12mm 1ST LAYER 1:6 C&S, 6MM 2ND LAYER 1:4 C&S
CEILING EXCEPT FOR WHERE FALSE CEILING WILL BE PROVIDED.
6mm THK. PLAIN PLASTER (1:4 CEMENT : SAND)

WATER PROOFING ON ROOF

PROVIDING AND LAYING INTEGRAL CEMENT BASED WATER PROOFING TREATMENT INCLUDING PREPARATION OF SURFACE AS REQUIRED FOR TREATMENT OF ROOFS, BALCONIES, TERRACES ETC CONSISTING OF FOLLOWING OPERATIONS: (A) APPLYING A SLURRY COAT OF NEAT CEMENT USING 2.75 KG/SQM OF CEMENT ADMIXED WITH WATER PROOFING COMPOUND CONFORMING TO THE RCC SLAB INCLUDING ADJOINING WALLS UPTO 300 MM HT. INCLUDING CLEANING THE SURFACE BEFORE TREATMENT (B) LAYING BRICK BATS WITH MORTAR USING BROKEN BRICKS/BRICK BATS 25 MM TO 115 MM SIZE WITH 50% OF CEMENT MORTAR 1:5 (1 CEMENT : 5 COARSE SAND) ADMIXED WITH WATER PROOFING COMPOUND CONFORMING OVER 20 MM THICK LAYER OF CEMENT MORTAR OF MIX 1:5 ADMIXED WITH WATER PROOFING COMPOUND TO REQUIRED SLOPE AND TREATING SIMILARLY THE ADJOINING WALLS UPTO 300 MM HEIGHT INCLUDING ROUNDING OF JUNCTIONS OF WALLS AND SLABS. (C) AFTER TWO DAYS OF PROPER CURING APPLYING A SECOND COAT OF CEMENT SLURRY USING 2.75 KG/ SQM OF CEMENT ADMIXED WITH WATER PROOFING COMPOUND (D) FINISHING THE SURFACE WITH 20 MM THICK JOINTLESS CEMENT MORTAR OF MIX 1:4 WITH WATER PROOFING INCLUDING LAYING GLASS FIBRE CLOTH OF APPROVED QUALITY IN TOP LAYER OF PLASTER AND FINALLY FINISHING THE SURFACE WITH TROWEL WITH NEAT CEMENT SLURRY AND MAKING PATTERN OF 300X300 MM SQUARE 3 MM DEEP. (E) THE WHOLE TERRACE SO FINISHED SHALL BE FLOODED WITH WATER FOR A MINIMUM PERIOD OF TWO WEEKS FOR CURING AND FOR FINAL TEST/ALL ABOVE OPERATIONS TO BE DONE IN ORDER AND AS DIRECTED WITH AVERAGE THICKNESS OF 120 MM AND MINIMUM THICKNESS AT KNURRAS AS 65 MM. (CSI NO. 28.30)

LEGEND:-

- ☐ SIDE HUNG OPENABLE PANEL
☒ FIXED GLASS PANEL
FFL = FINISH FLOOR LEVEL
FGL = FINISH GRADE LEVEL
H.P. = HIGH POINT
L.P. = LOWER POINT
TOC = TOP OF CONCRETE
FFL = FINISH FLOOR LEVEL
FGL = FINISH GROUND LEVEL

PROJECT:

400/220/132kV GIS SUBSTATION AT RASARA, BALLIA (U.P.)

CUSTOMER:

UTTAR PRADESH POWER TRANSMISSION CORPORATION LTD.



BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP
NOIDA

STRUCTURAL CONSULTANTS:-

RDA CIVIL ENGINEERING SYSTEM PVT. LTD.
N-43, SRINIWASPURI NEW DELHI -05
☎ PH. 011 26845128, FAX 011 26313478

DEPT. TBG
CODE

UNTOL. DIMS. GR. 9/M/P



SCALE N.T.S

WEIGHT (KG) N.A.

REF. TO ASSY. DRG. N.A.

ITEM NO. N.A.

NO.OF ITEMS N.A.

TITLE

400kV GIS BUILDING
ARCHITECTURAL GROUND FLOOR PLAN &
FINISHES SCHEDULE

CARD CODE NA

DRG.NO. TB-1-404-607-661-1

REV. 00

REV. DATE

ALTERED

CHD/APPD

ZONE

REV. DATE

ALTERED

CHD/APPD

ZONE

REV. DATE

ALTERED

CHD/APPD

ZONE

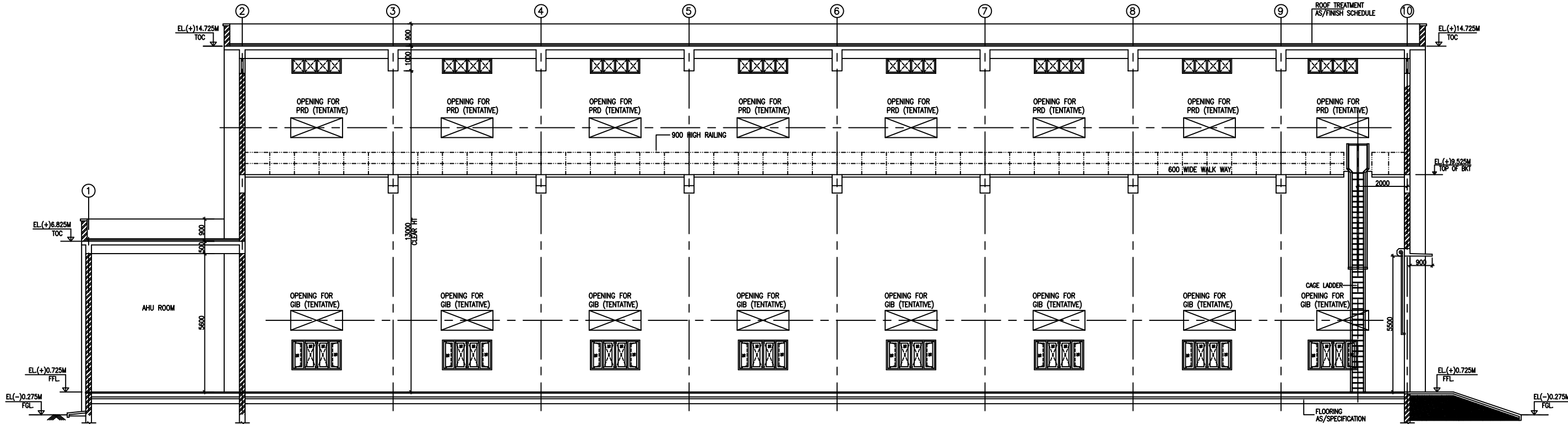
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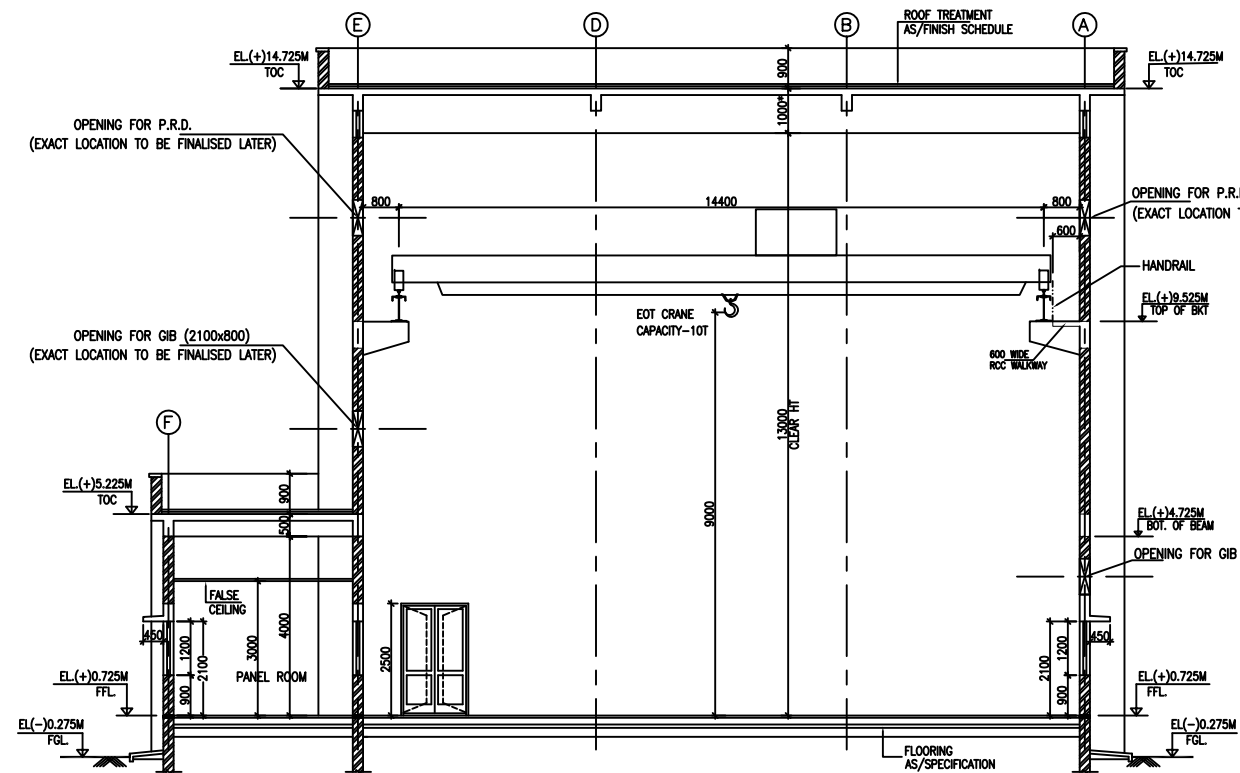
CHD/APPD

ZONE

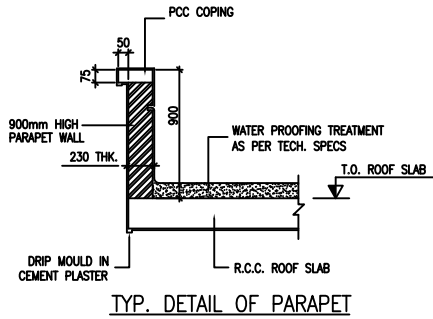
- NOTES:-
1 ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2 ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
3. ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.
4. EL(±)0.00M CORRESPONDS TO TOP LEVEL OF ROAD.
5. FINAL LOCATION OF CABLE TRENCHES REFER APPROVED ELECTRICAL DRAWINGS.



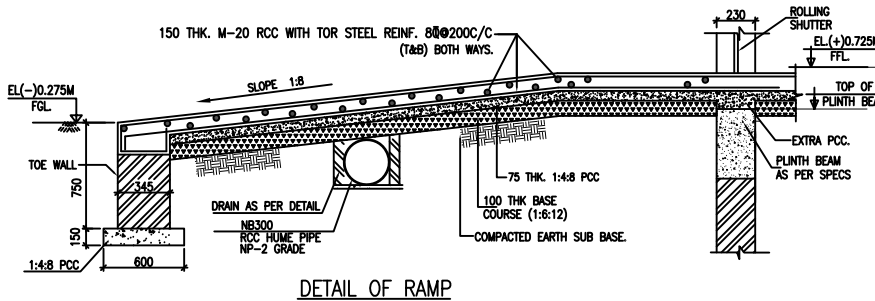
SECTION A-A



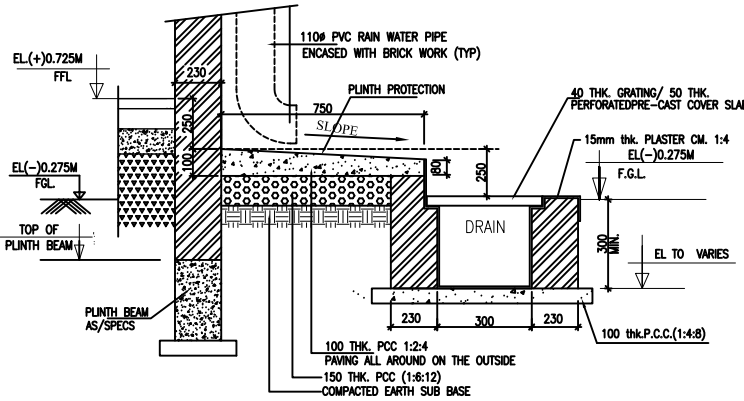
SECTION B-B



TYP. DETAIL OF PARAPET



DETAIL OF RAMP



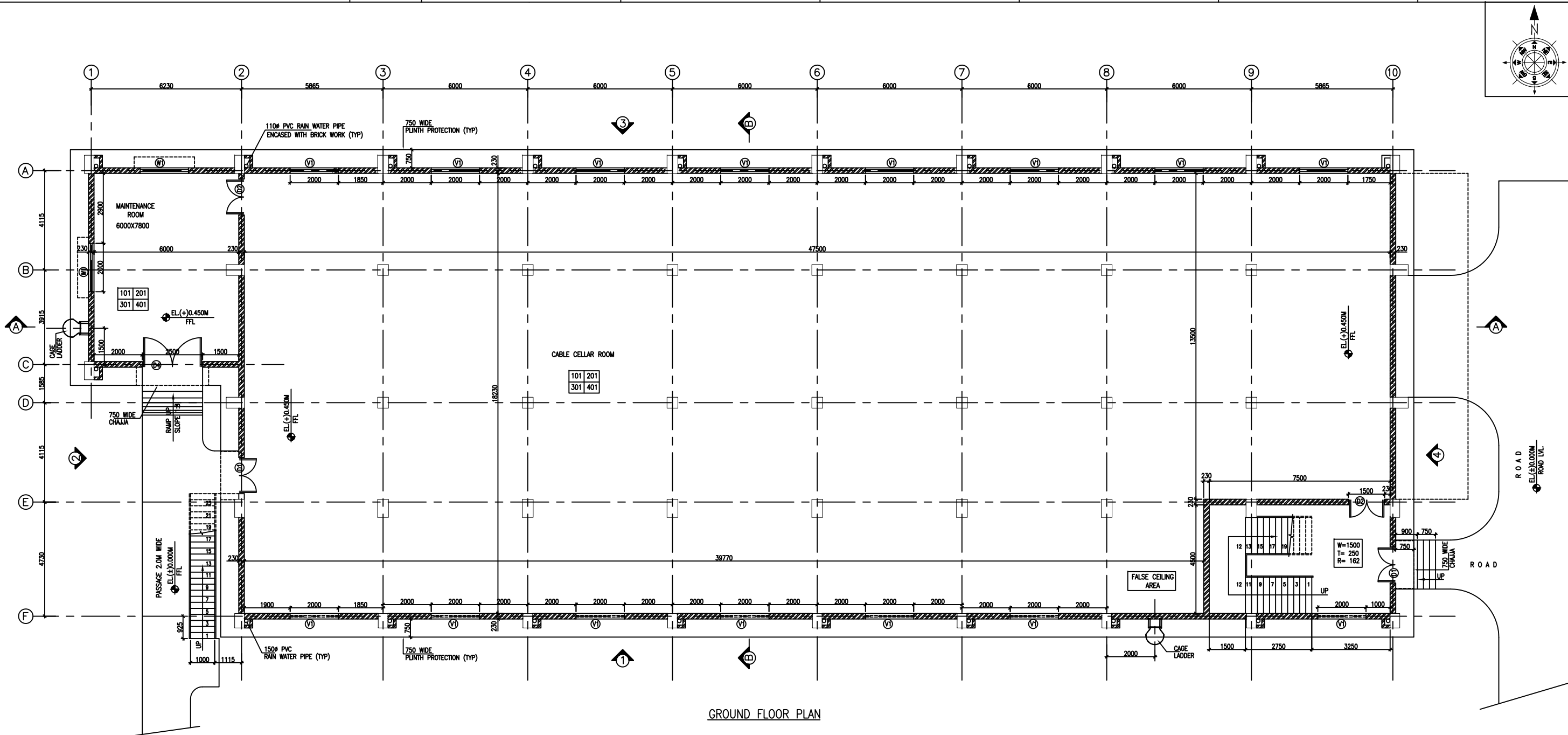
PLINTH PROTECTION ALONG BUILDING WITH DRAIN-TYPICAL

NOTES:-

- 1 ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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4. EL(+0.00M) CORRESPONDS TO TOP LEVEL OF ROAD.
5. FINAL LOCATION OF CABLE TRENCHES REFER APPROVED ELECTRICAL DRAWINGS.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD
ZONE			ZONE			ZONE			ZONE		

PROJECT: 400/220/132kV GIS SUBSTATION AT RASARA, BALLIA (U.P.)											
CUSTOMER: UTTAR PRADESH POWER TRANSMISSION CORPORATION LTD.											
BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION BUSINESS GROUP NOIDA											
STRUCTURAL CONSULTANTS:- RDA CIVIL ENGINEERING SYSTEM PVT. LTD. N-43, SRINIWASPURI NEW DELHI -65 PH. 011 26845128, FAX 011 26313478											
DEPT. TBG CODE				UNTOL. DIMS. GR. g/m/f				SCALE N.T.S			
TITLE 400KV GIS BUILDING ARCHITECTURAL SECTIONS				WEIGHT (KG) N.A.				REF. TO ASSY. DRG. N.A.			
CARD CODE NA				DRG.NO. TB-1-404-607-661-2				REV. 00			
SHT. No 01				NO. OF SHT. 01							



GROUND FLOOR PLAN

ILLUSTRATION OF FINISHES.				FINISHES OF SCHEDULE						
<table border="1"><tr><td>WALL SERIES 100</td><td>FLOORING SERIES 200</td></tr><tr><td>CEILING SERIES 300</td><td>SKIRTING/ DADO SERIES 400</td></tr></table>				WALL SERIES 100	FLOORING SERIES 200	CEILING SERIES 300	SKIRTING/ DADO SERIES 400	WALL FINISHES--		
				WALL SERIES 100	FLOORING SERIES 200					
				CEILING SERIES 300	SKIRTING/ DADO SERIES 400					
				SR.NO.	CODE NO.	DESCRIPTION				
				1.	101	ARYLIC DISTEMPER				
2.	102	ARYLIC EMULSION PAINT								
SKIRTING/DADO FINISHES				FLOORING FINISHES						
1.	401	CEMENT PLASTER SKIRTING 150 MM HIGH		1.	201	CEMENT CONCRETE FLOORING				
2.	402	VITRIFIED TILES		2.	202	VITRIFIED TILES				
CEILING FINISHES										
1.	301	ARYLIC DISTEMPER								
2.	302	ARYLIC EMULSION PAINT								

REFERENCE DRAWING:-

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1 CONCEPTUAL DRAWING FOR 400KV GIS BUILDING - TB-3-404-316-005

PLASTER:

- INTERNAL:
12mm THK. PLASTER (1:6 CEMENT : SAND)
EXTERNAL:
18mm THK. PLAIN PLASTER (1:6 CEMENT : SAND)
12mm 1ST LAYER 1:6 C&S, 6MM 2ND LAYER 1:4 C&S
CEILING EXCEPT FOR WHERE FALSE CEILING WILL BE PROVIDED.
6mm THK. PLAIN PLASTER (1:4 CEMENT : SAND)

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LEGEND:-

- ☐ SIDE HUNG OPENABLE PANEL
☒ FIXED GLASS PANEL
F.F.L. = FINISH FLOOR LEVEL
F.G.L. = FINISH GRADE LEVEL
H.P. = HIGH POINT
L.P. = LOWER POINT
T.O.C. = TOP OF CONCRETE
F.F.L. = FINISH FLOOR LEVEL
F.G.L. = FINISH GRADE LEVEL

PROJECT:

400/220/132kV GIS SUBSTATION AT RASARA, BALLIA (U.P.)

CUSTOMER:

UTTAR PRADESH POWER TRANSMISSION CORPORATION LTD.



BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP
NOIDA

STRUCTURAL CONSULTANTS:-

RDA CIVIL ENGINEERING SYSTEM PVT. LTD.
N-43, SRINIWASपुरI NEW DELHI -65
PH. 011 26845128, FAX 011 26313478

NAME	SIGN.	DATE	NO.OF VAR.
DRN.	TKR	28.01.19	N.A.
CHD.	AKHLESH	28.01.19	
APPD.	DKU	28.01.19	

DEPT.
TBG
CODE

UNTOL. DIMS.
GR.
S/M/Y



SCALE
N.T.S

WEIGHT (KG)
N.A.

REF. TO ASSY. DRG.
N.A.

ITEM NO.
N.A.

NO.OF
ITEMS
N.A.

TITLE
220KV GIS BUILDING
ARCHITECTURAL GROUND FLOOR PLAN &
FINISHES SCHEDULE

CARD
CODE
NA

DRG.NO.
TB-1-404-607-671-1

SHT. No 01

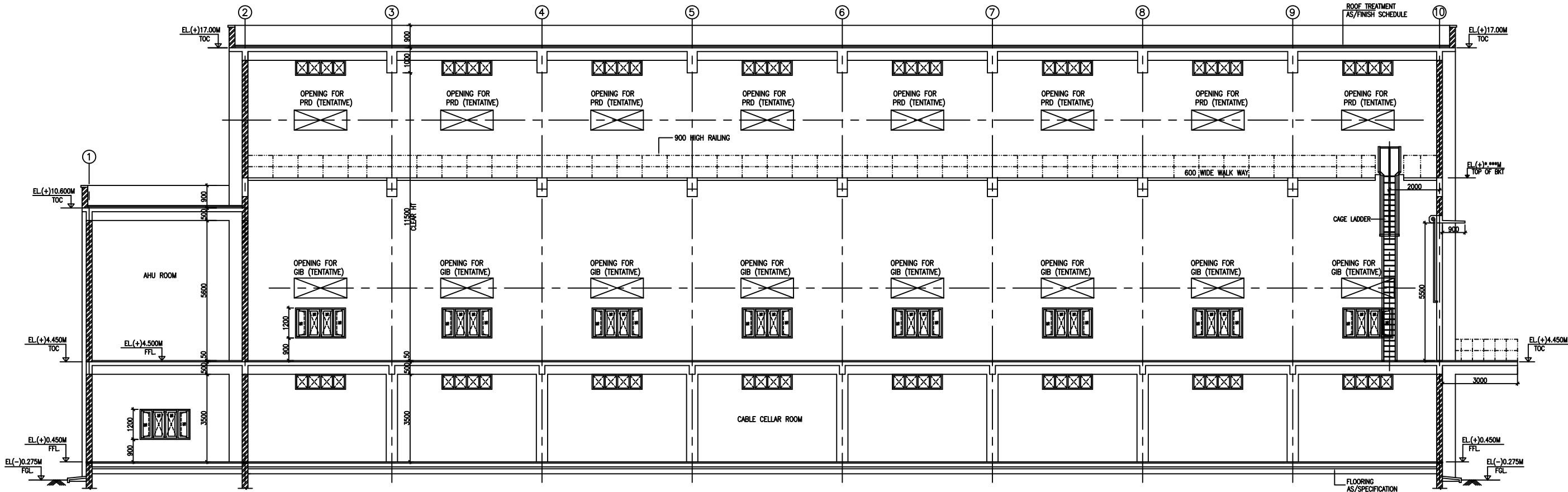
NO. OF SHT. 04

REV.
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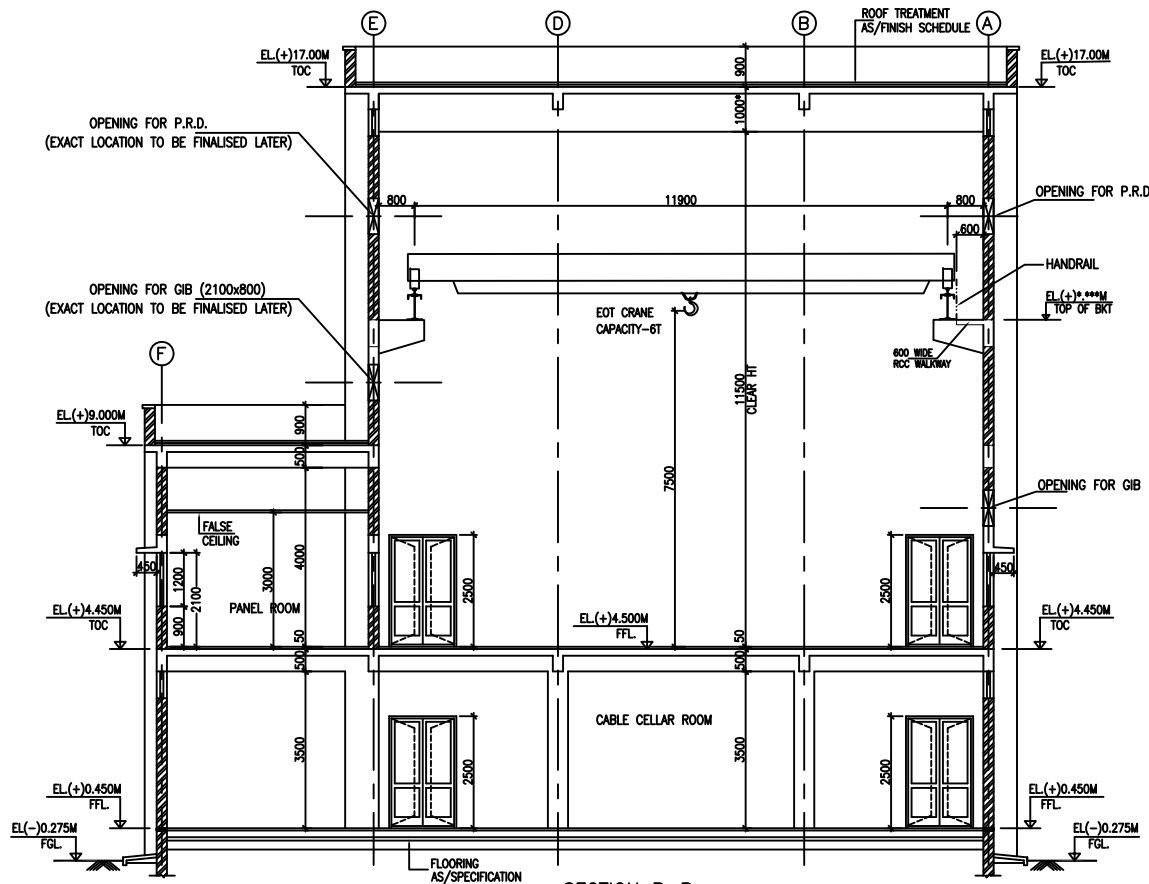
NOTES:-

- 1 ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2 ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
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4. EL.(±)0.00M CORRESPONDS TO TOP LEVEL OF ROAD.
5. FINAL LOCATION OF CABLE TRENCHES REFER APPROVED ELECTRICAL DRAWINGS.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD
ZONE			ZONE			ZONE			ZONE		



SECTION A-A



SECTION B-B

NOTES:-

- 1 ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD

ZONE	ZONE	ZONE	ZONE
------	------	------	------

PROJECT:
400/220/132kV GIS SUBSTATION AT RASARA, BALLIA (U.P.)

CUSTOMER:
UTTAR PRADESH POWER TRANSMISSION CORPORATION LTD.

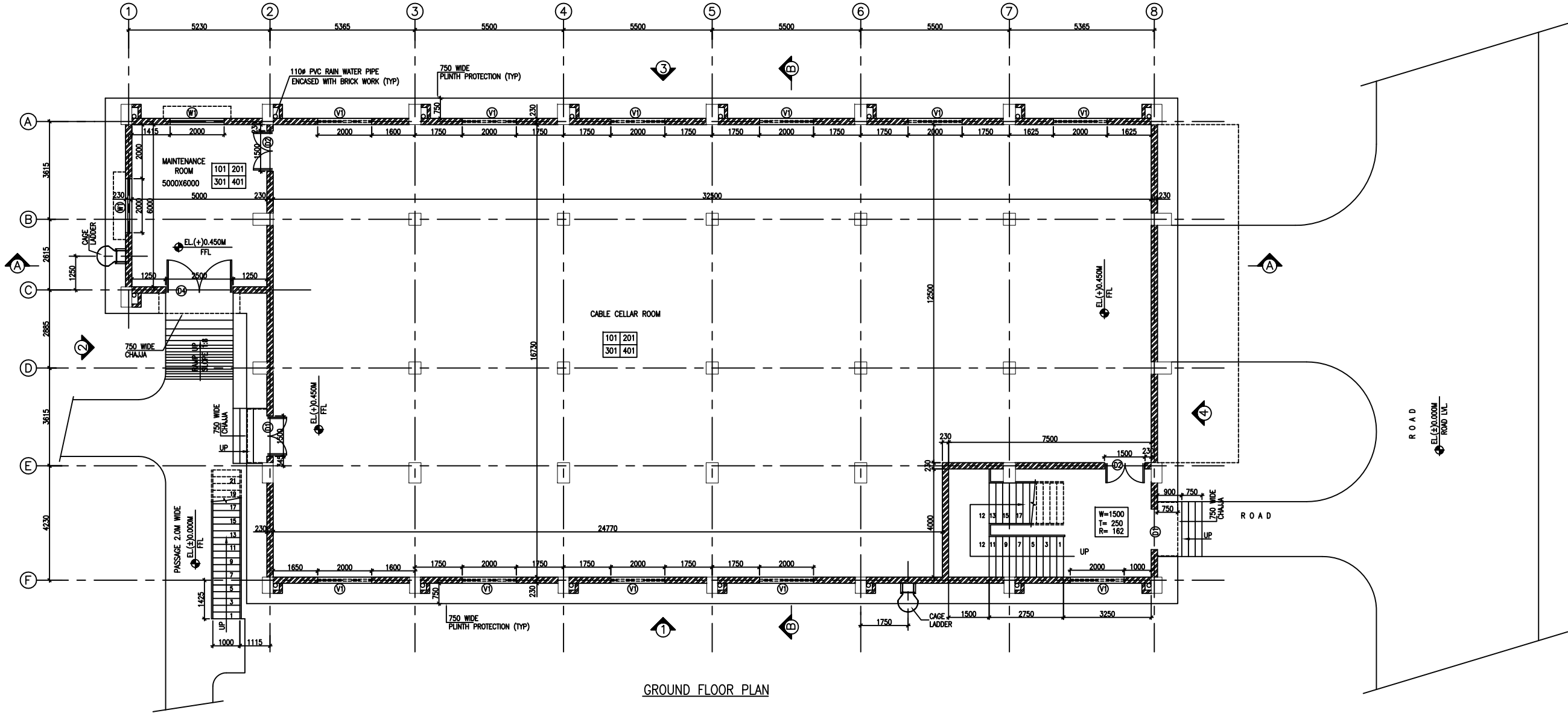
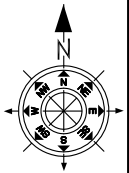
 **BHARAT HEAVY ELECTRICALS LTD.**
TRANSMISSION BUSINESS GROUP
NOIDA

STRUCTURAL CONSULTANTS:-
RDA CIVIL ENGINEERING SYSTEM PVT. LTD.
N-43, SRINIWASपुरी NEW DELHI -65
☎ PH. 011 26845128, FAX 011 26313478

NAME	SIGN.	DATE	NO.OF VAR.
DRN.	TKR	28.01.19	
CHD.	AKHLESH	28.01.19	N.A.
APPD.	DKU	28.01.19	

DEPT.	UNTOL. DIMS.	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEMS
TBG	GR.	N.T.S	N.A.	N.A.	N.A.	N.A.
CODE	g/m/f					

TITLE	CARD CODE	DRG.NO.	REV.
220KV GIS BUILDING ARCHITECTURAL SECTIONS	NA	TB-1-404-607-671-3	00
		SHT. No 01	NO. OF SHT. 01



GROUND FLOOR PLAN

ILLUSTRATION OF FINISHES.				FINISHES OF SCHEDULE						
<table border="1"><tr><td>WALL SERIES 100</td><td>FLOORING SERIES 200</td></tr><tr><td>CEILING SERIES 300</td><td>SKIRTING/ DADO SERIES 400</td></tr></table>	WALL SERIES 100	FLOORING SERIES 200	CEILING SERIES 300	SKIRTING/ DADO SERIES 400				WALL FINISHES--		
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REFERENCE DRAWING:-

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INTERNAL:
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WATER PROOFING ON ROOF

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☒ FIXED GLASS PANEL
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PROJECT:

400/220/132kV GIS SUBSTATION AT RASARA, BALLIA (U.P.)

CUSTOMER:

UTTAR PRADESH POWER TRANSMISSION CORPORATION LTD.



BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP
NOIDA

STRUCTURAL CONSULTANTS:-

RDA CIVIL ENGINEERING SYSTEM PVT. LTD.
N-43, SRINIWASPURI NEW DELHI -65
☎ PH. 011 26845128, FAX 011 26313478

DEPT.
TBG
CODE

UNTOL. DIMS.
GR.
g/m/f



SCALE
N.T.S

WEIGHT (KG)
N.A.

REF. TO ASSY. DRG.
N.A.

ITEM NO.
N.A.

NO.OF
ITEMS
N.A.

TITLE

132KV GIS BUILDING
ARCHITECTURAL GROUND FLOOR PLAN &
FINISHES SCHEDULE

CARD
CODE
NA

DRG.NO.

TB-1-404-607-681-1

SHT. No 01

NO. OF SHT. 04

REV.
00

NOTES:-

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4. EL.(±)0.00M CORRESPONDS TO TOP LEVEL OF ROAD.
5. FINAL LOCATION OF CABLE TRENCHES REFER APPROVED ELECTRICAL DRAWINGS.

REV.
DATE
ZONE

ALTERED
CHD/APPD

REV.
DATE
ZONE

ALTERED
CHD/APPD

REV.
DATE
ZONE

ALTERED
CHD/APPD

REV.
DATE
ZONE

ALTERED
CHD/APPD

DRG. NO.

6

5

4

3

2

1

F

E

D

C

B

A

F

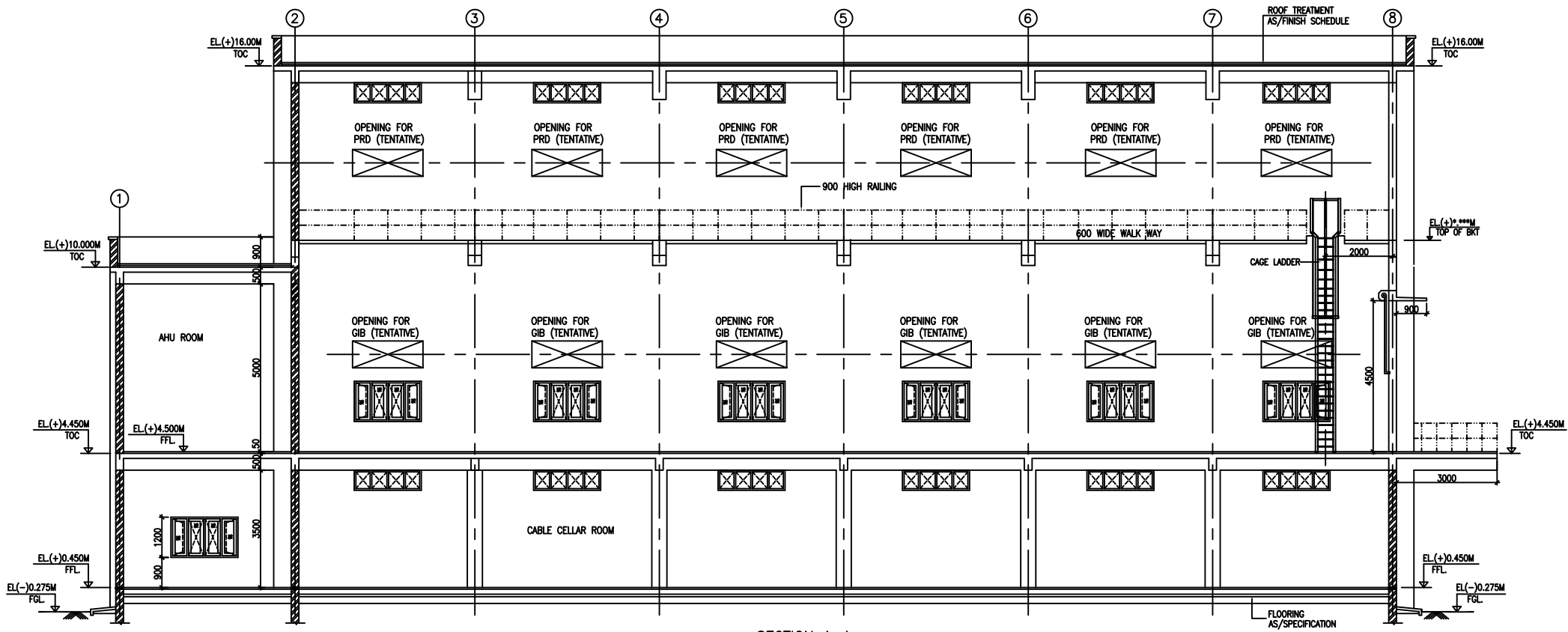
E

D

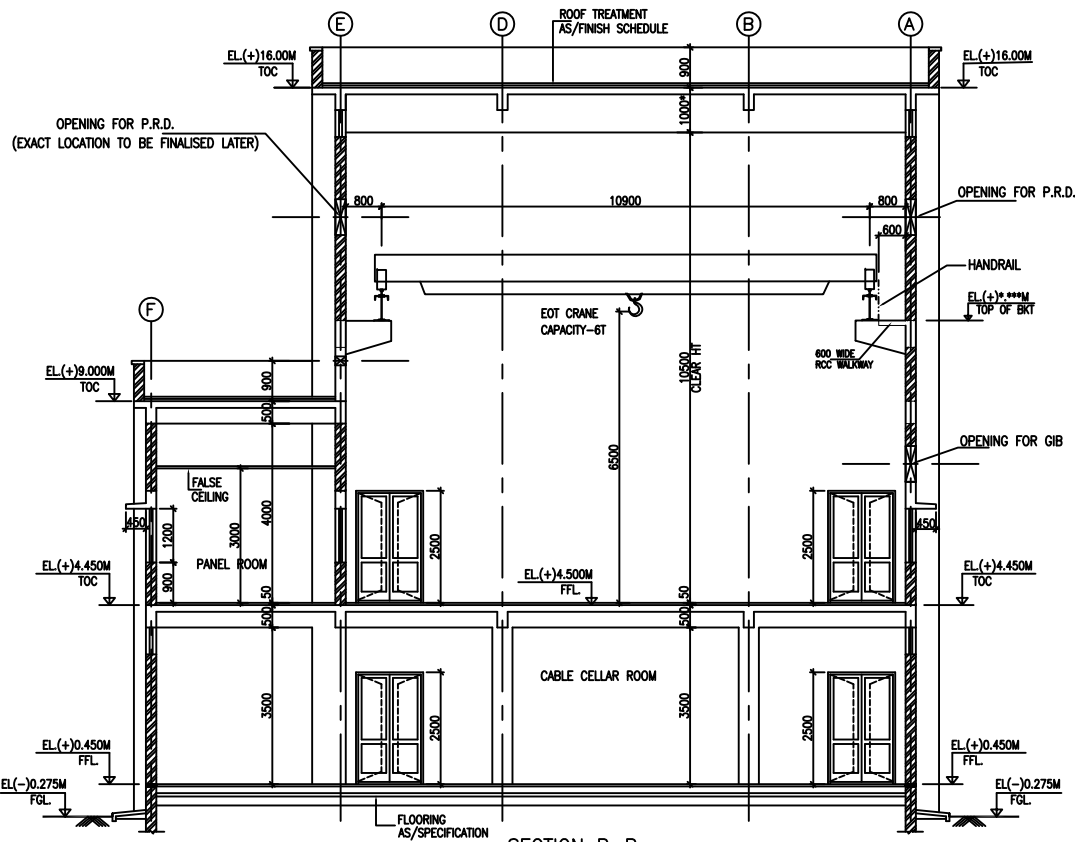
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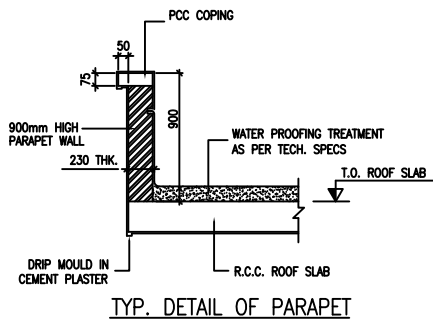
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SECTION A-A



SECTION B-B



TYP. DETAIL OF PARAPET

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REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD
ZONE			ZONE			ZONE			ZONE		

PROJECT:

400/220/132kV GIS SUBSTATION AT RASARA, BALLIA (U.P.)

CUSTOMER:

UTTAR PRADESH POWER TRANSMISSION CORPORATION LTD.



BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP
NOIDA

STRUCTURAL CONSULTANTS:-

RDA CIVIL ENGINEERING SYSTEM PVT. LTD.
N-43, SRINIWASPURI NEW DELHI -65
☎ PH. 011 26845128, FAX 011 26313478

DEPT. TBG CODE

UNTOL. DIMS. GR. g/m/f



SCALE N.T.S

WEIGHT (KG) N.A.

REF. TO ASSY. DRG. N.A.

ITEM NO. N.A.

NO.OF ITEMS N.A.

TITLE

132KV GIS BUILDING
ARCHITECTURAL SECTIONS

CARD CODE NA

DRG.NO. TB-1-404-607-681-3

REV. 00

SHT. No 01

NO. OF SHT. 01

8

7

6

5

4

3

2

1

SIZE-A1