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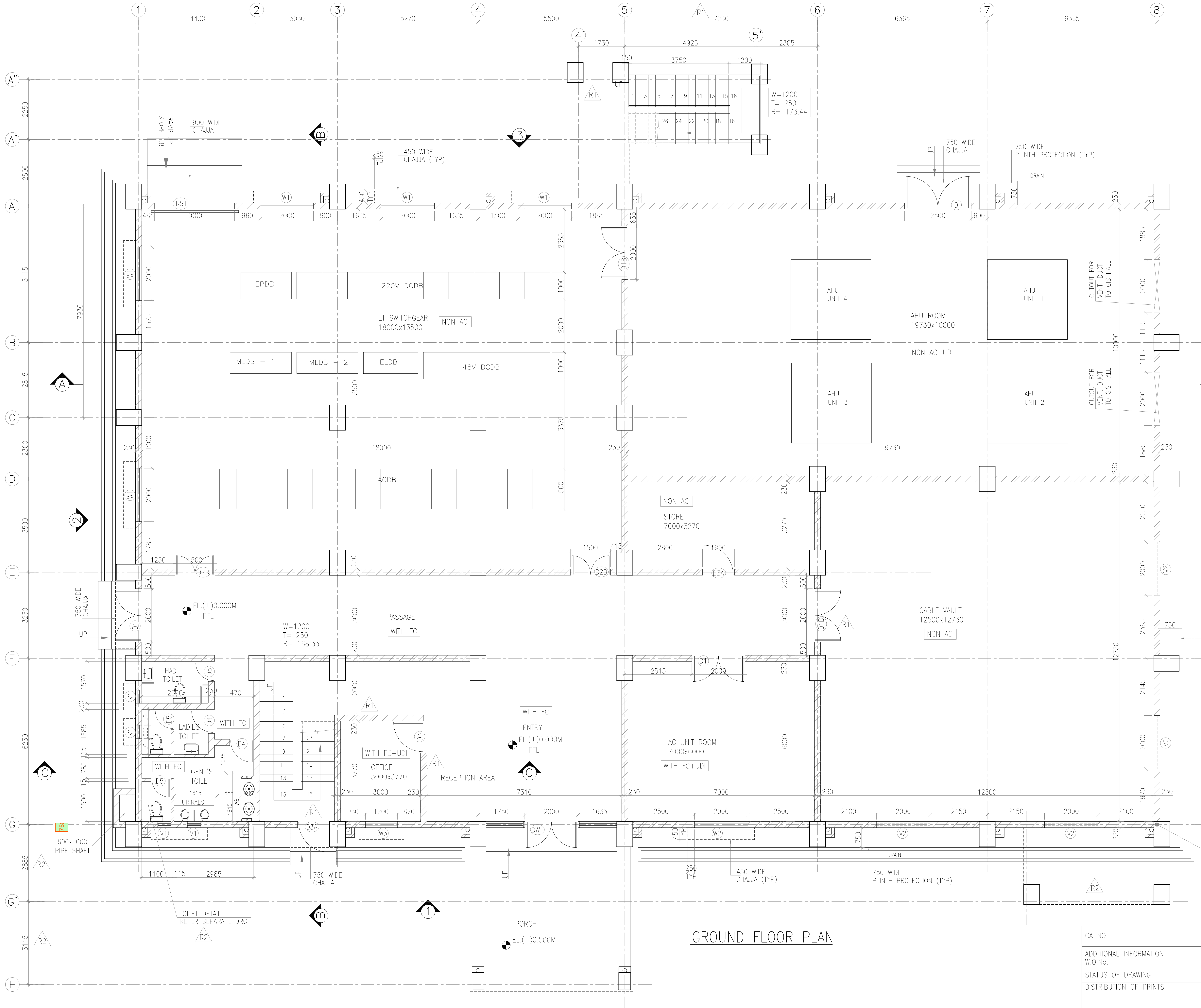
COMPUTER DRG. PATH NAME :

REF. DRG. No.

SIGN. & DATE

INVENTORY No.

DRAWING No. 9585-001-572-PVC-C-0497

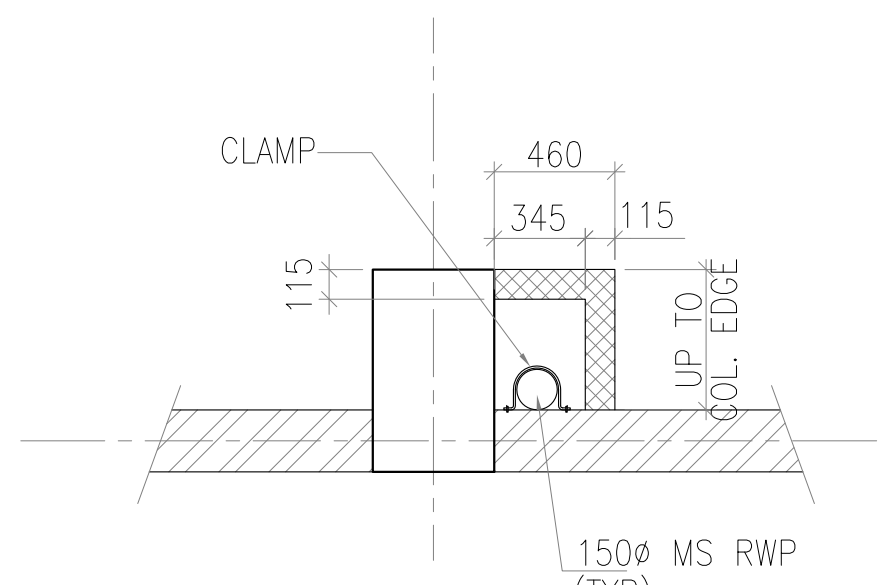


GROUND FLOOR PLAN

LEGEND :-

RL	REDUCED LEVEL
FGL	FINISHED GROUND LEVEL
FFL	FINISHED FLOOR LEVEL
BOB	BOTTOM OF BEAM
TOC	TOP OF CONCRETE
TOP	TOP OF PARAPET WALL
PCC	PLAIN CEMENT CONCRETE
TOB	TOP OF BEAM
FC	FALSE CEILING
UDI	UNDER DECK INSULATION
DPC	DAMP PROOF COURSE
RS	ROLLING SHUTTER
D	DOOR
W	WINDOW
V	VENTILATOR
EF	EXHAUST FAN
FG	FIX GLAZING

230 230 THICK BRICK WALL
115 115 THICK BRICK WALL




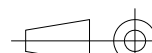
TYP. RWP FIXING DETAIL

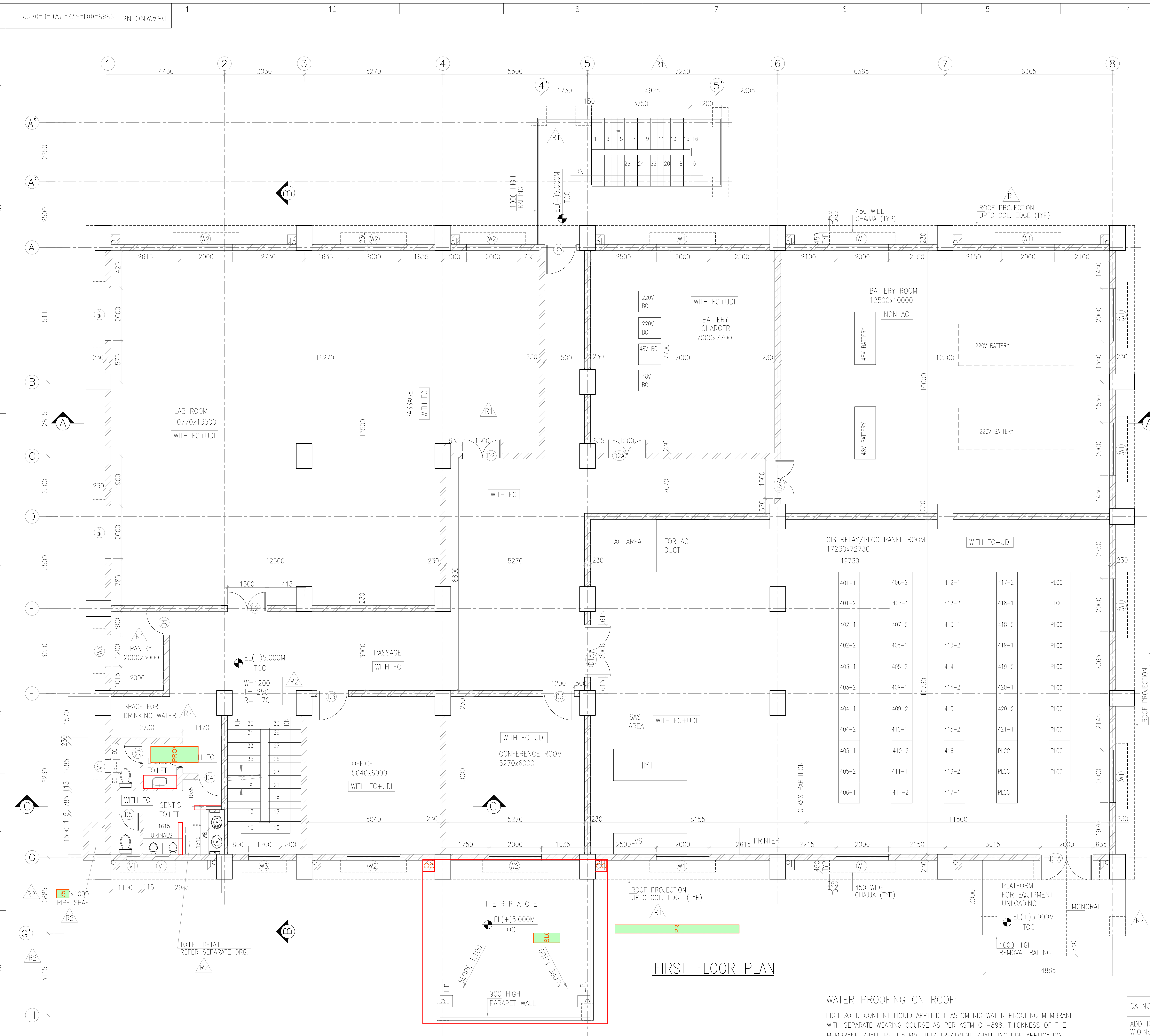
NTPC REFERENCE DRGS.

- 400KV GIS SWITCHYARD SINGLE LINE DIAGRAM.
DRG. NO. - 9585-001-572-PVE-P-0002
- SWITCHYARD CONTROL ROOM BUILDING - EQUIPMENT LAYOUT
DRG. NO. - 9585-001-572-PVC-F-0047

NOTES:


- ALL DIMENSION ARE IN MILLIMETRE & ELEVATIONS ARE METRE.
- SIZE OF COLUMNS ARE TENTATIVE AND SUBJECT TO CHANE AS PER STRUCTURAL DRAWING.
- DOOR WIDTH ARE CLEAR MASONRY OPENING AND DOOR HEIGHTS ARE FROM FFL TO BOTTOM OF LINTEL.
- ALL DIMENSIONS ARE READ AS UNPLATERED MASONARY & CONCRETE UNLESS NOTED OTHERWISE.
- READ THIS DRAWING IN CONJECTION WITH TECHNICAL SPECIFICATION AND TENDOR DRAWING.

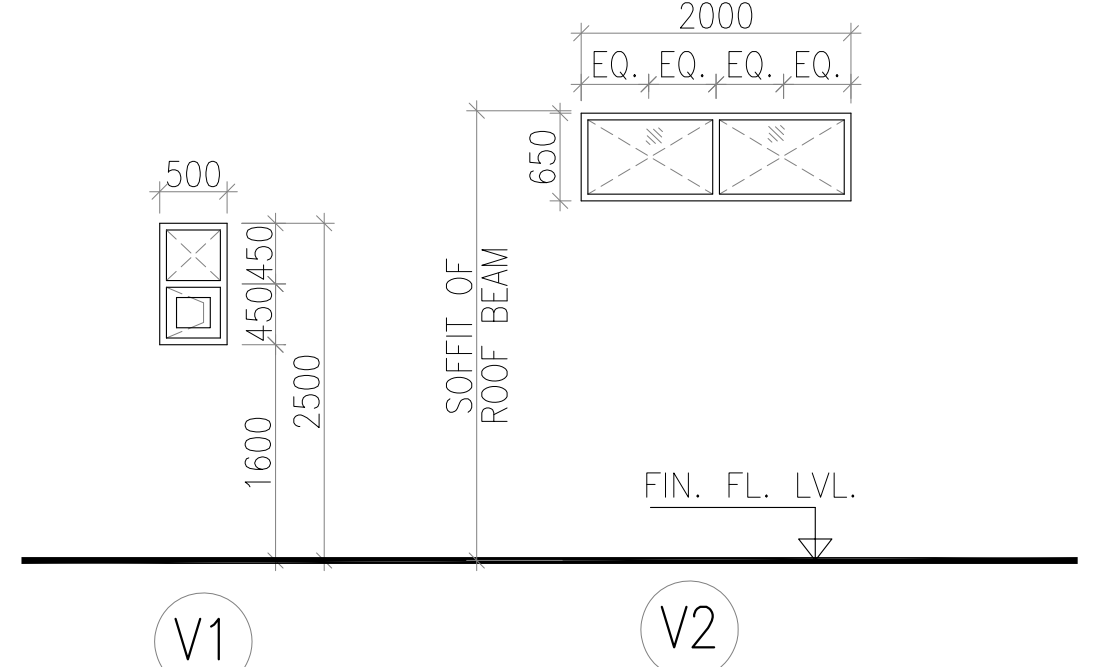
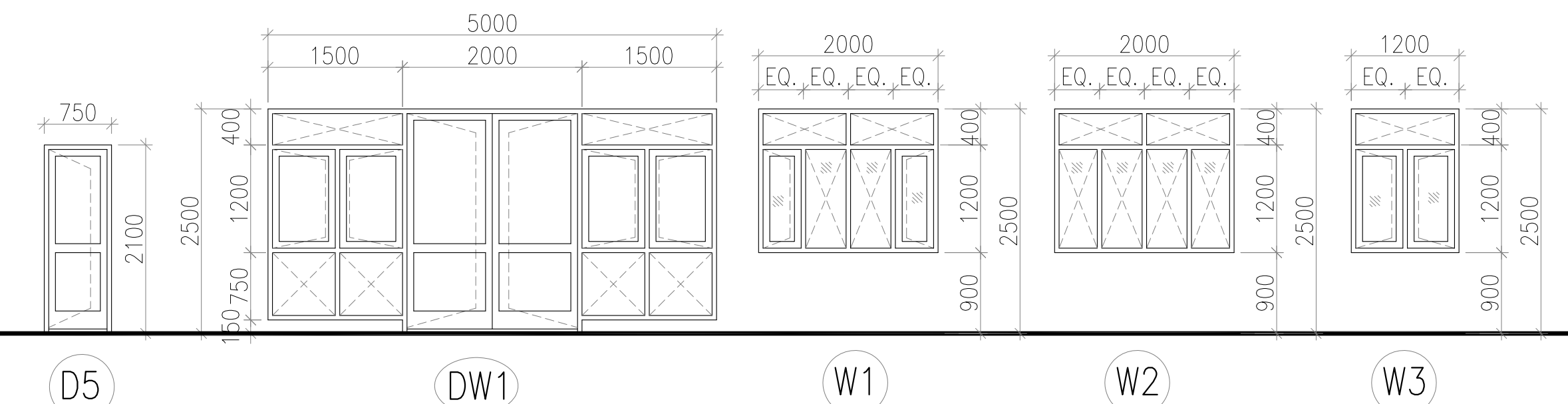
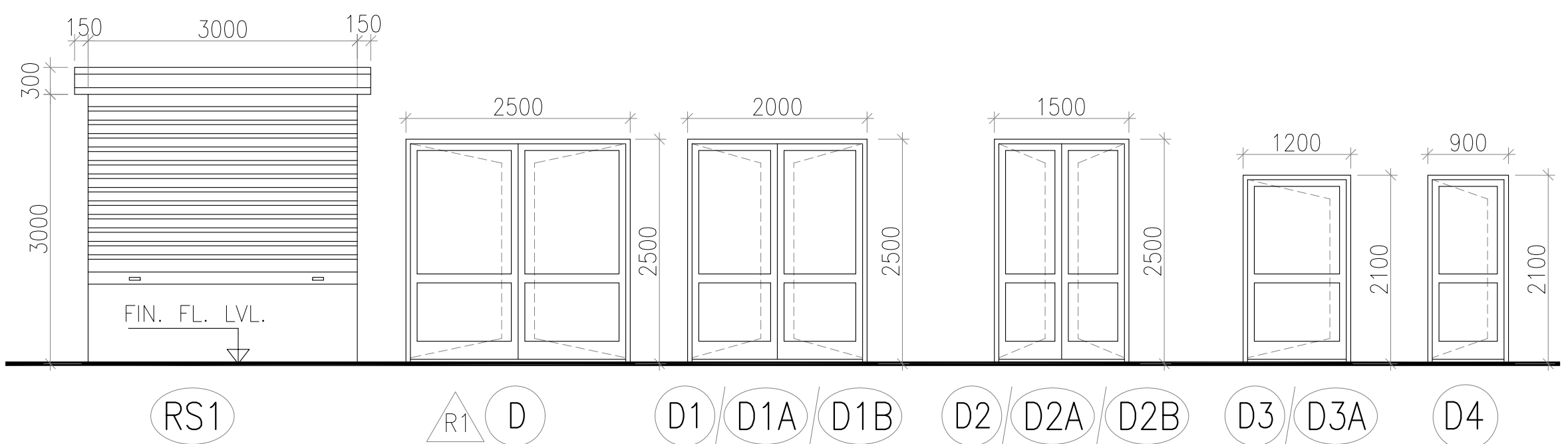
CA NO.									
ADDITIONAL INFORMATION W.O.No.		ग्राहक/परियोजना का नाम		PATRATU VIDYUT UTPADAN NIGAM LTD.					
STATUS OF DRAWING		NAME OF CUSTOMER/PROJECT		PATRATU SUPER THERMAL POWER PROJECT EXPANSION PHASE-I (3x800 MW)					
DISTRIBUTION OF PRINTS		<div><div></div><div>भारत हेवी इलेक्ट्रिकल्स लिमिटेड भारतीयविद्युत परियोजना विभाग BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION</div></div>		नाम /NAME	हरत /SIGN.	दि./DATE			
				खसता /DRAIN	NS	NS	29-03-19		
				जाँचा /CHECKED	SKS	SKS	29-03-19		
				स्वीकृत /APPROVED	AG	AG	29-03-19		
REV.	DATE	DRN	TR	विभाग DEPT.	अनुपात / SCALE		कॉड कोड CARD CODE	ड्राईंग क्र./BHEL DRAWING NO.	पुनः/REV.
R1	06.06.19	DESIGN CHECKED	TR DU/VG	कोड CODE				TB-1-397-640	02
ZONE		REVISED AS PER COMMENTS		शीट क्र./TITLE	SWITCHYARD CONTROL ROOM BUILDING-ARCHITECTURAL PALN & ELEVATION-GROUND FLOOR PLAN			ड्राईंग क्र./NTPC DRAWING NO.	पुनः/REV.
								9585-001-572-PVC-C-0497	02
								पृष्ठ क्र./SHEET No.01	अगला पृष्ठ/NEXT SHEET 02



FIRST FLOOR PLAN

HIGH SOLID CONTENT LIQUID APPLIED ELASTOMERIC WATER PROOFING MEMBRANE
WITH SEPARATE WEARING COURSE AS PER ASTM C-898. THICKNESS OF THE
MEMBRANE SHALL BE 1.5 MM. THIS TREATMENT SHALL INCLUDE APPLICATION
OF POLYMERISED MASTIC OVER THE ROOF TO ACHIEVE SMOOTH SURFACE AND PRIMER COAT.
WEARING COURSE ON THE TOP OF MEMBRANE SHALL CONSIST OF 40MM. THICK PCC (1:2:4)
CAST IN PANELS OF MAX. 1200X1200 SIZE AND REINFORCED WITH 0.56 MM. DIA. GALVANIZED
CHICKEN WIRE MESH AND SEALING OF JOINTS USING SEALING COMPOUND/ ELASTOMERIC
WATER PROOFING MEMBRANE.

SCHEDULE OF DOORS & WINDOWS (AS PER TECHNICAL SPECIFICATION)					
TYPE	OPENING SIZE	COLL. LEVEL	LINTEL LEVEL	NOS.	DESCRIPTION
RS1	3000x3000	–	3000	1	STEEL ROLLING SHUTTER
D	2500x2500	–	2500	1	DOUBLE SHUTTER FIRE PROOF STEEL FRAME DOOR AS PER SPECS.
D1	2000x2500	–	2500	2	DOUBLE SHUTTER ALUMINIUM GLAZED DOOR WITH 8MM. THICK CLEAR TOUNGHED GLASS AS PER SPECS.
D1A	2000x2500	–	2500	2	DOUBLE SHUTTER STEEL FRAME DOOR AS PER SPECS.
D1B	2000x2500	–	2500	2	DOUBLE SHUTTER FIRE PROOF STEEL FRAME DOOR AS PER SPECS.
D2	1500x2500	–	2500	2	DOUBLE SHUTTER ALUMINIUM GLAZED DOOR WITH 8MM. THICK CLEAR TOUNGHED GLASS AS PER SPECS.
D2A	1500x2500	–	2500	2	DOUBLE SHUTTER STEEL FRAME DOOR AS PER SPECS.
D2B	1500x2500	–	2500	2	DOUBLE SHUTTER FIRE PROOF STEEL FRAME DOOR AS PER SPECS.
D3	1200x2100	–	2100	4	SINGLE SHUTTER ALUMINIUM GLAZED DOOR WITH 8MM. THICK CLEAR TOUNGHED GLASS AS PER SPECS.
D3A	1200x2100	–	2100	3	SINGLE SHUTTER STEEL FRAME DOOR AS PER SPECS.
D4	900x2100	–	2100	5	SINGLE SHUTTER STEEL DOOR FRAME AS PER SPECS.
D5	750x2100	–	2100	6	SINGLE SHUTTER STEEL DOOR FRAME AS PER SPECS.
W1	2000x1600	900	2500	15	PARTLY FIXED & PARTLY OPENABLE ALUMINIUM FRAME GLAZED SHUTTER WINDOW WITH 6MM THICK TOUNGHED GLASS
W2	2000x1600	900	2500	9	ALUMINIUM FRAME GLAZED SHUTTER FIXED WINDOW (THERMICALLY SEALED DOUBLE GLAZING) 24MM THICK CONSISTING OF 6MM THICK CLEAR FLOAT GLASS IN INNER SIDE AND 6MM THICK REFLECTED TOUNGHED GLASS ON OUTER SIDE
W3	1200x1600	900	2500	4	PARTLY FIXED & PARTLY OPENABLE ALUMINIUM FRAME GLAZED SHUTTER WINDOW WITH 6MM THICK TOUNGHED GLASS
V1	500x900	1600	2500	6	PARTLY FIXED & PARTLY OPENABLE ALUMINIUM FRAME GLAZED VENTILATOR WITH 4MM. THICK GLASS
V2	2000x600	–	BOTT OF BEAM	4	FIXED GLAZED ALUMINIUM VENTILATOR WITH 6MM THICK TOUNGHED GLASS



(AS PER TECHNICAL SPECIFICATION)

1.1 230MM THK. BRICK MASONRY IN C.M. (1:6),
USING FLY ASH BRICK/ (IS 12894).

2.1 INTERNAL:
12mm THK. PLASTER (1:6 CEMENT : SAND) MORTOR

2.2 EXTERNAL:
18mm THK. PLAIN PLASTER (1:6 CEMENT : SAND)

2.4 CEILING EXCEPT FOR WHERE FALSE CEILING WILL BE
6mm THK. PLAIN PLASTER (1:4 CEMENT : SAND)

3.1 OFFICE, RECEPTION, PASSAGE, AC RM, LAB RM, CONFERENCE RM
VITRIFIED TILE FLOORING.

3.2 BATTERY ROOM
25 THK. ACID RESISTANT TILES FLOORING.
ACID RESISTANT TILES UP TO 2100 HEIGHT
AND ACID RESISTANT PAINT FOR BALANCE HEIGHT.

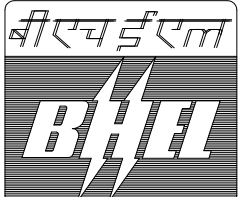
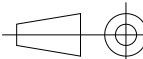
3.3 CABLE GALLERY, LT SWITCH GEAR RM, GIS RELAY RM
STORE RM
CEMENT CONCRETE WITH METALLIC HARDENER TOPPING.

COMBINATION OF 18MM THK. MARBLE AND GRANITE STONE FOR TREAD & RISER RESPECTIVELY.

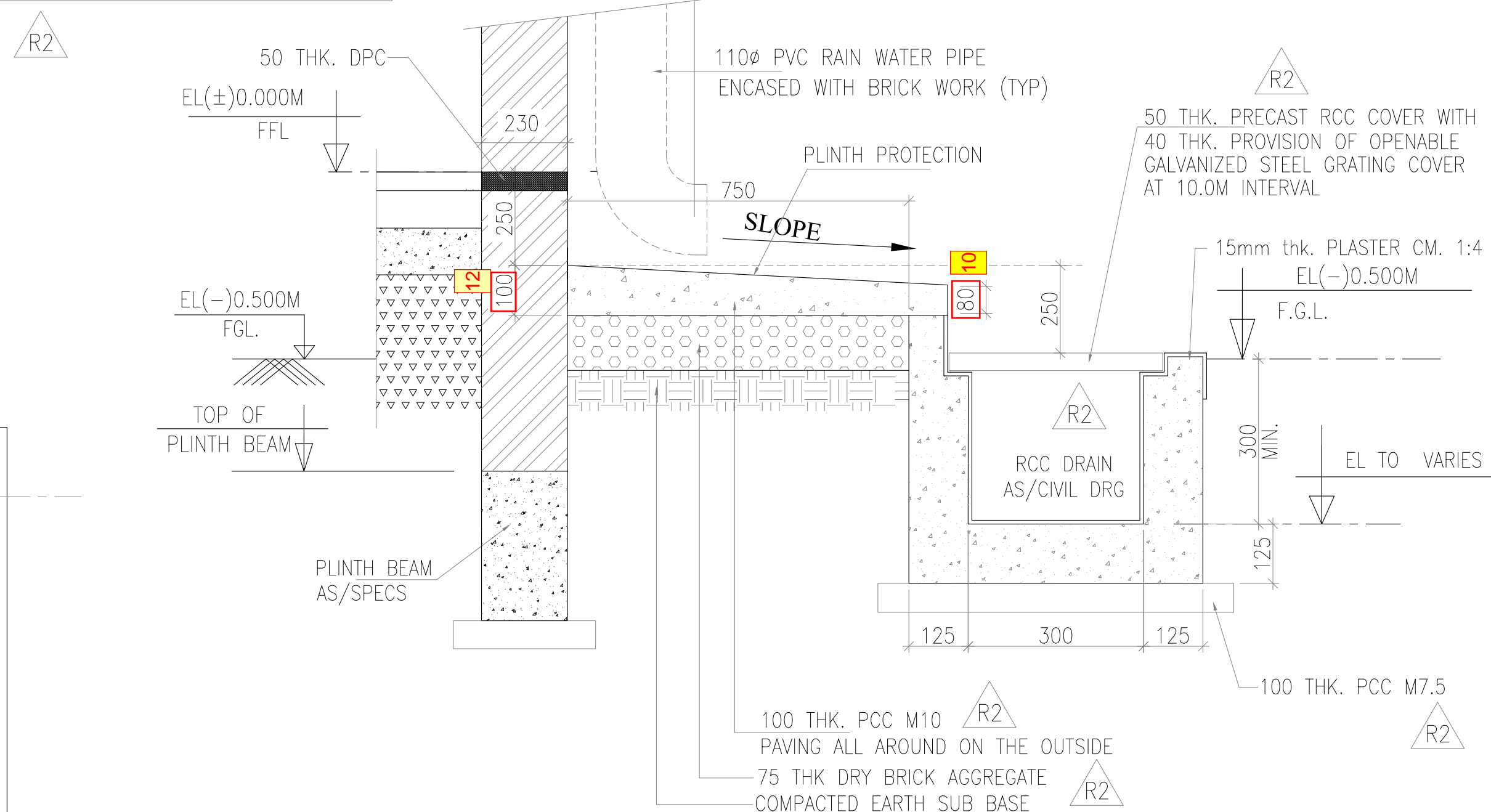
3.5 TOILET

NON SLIPPERY TILES FLOORING AND 2100 DADO HIGH GLAZED TILES WITH BORDER TILES.

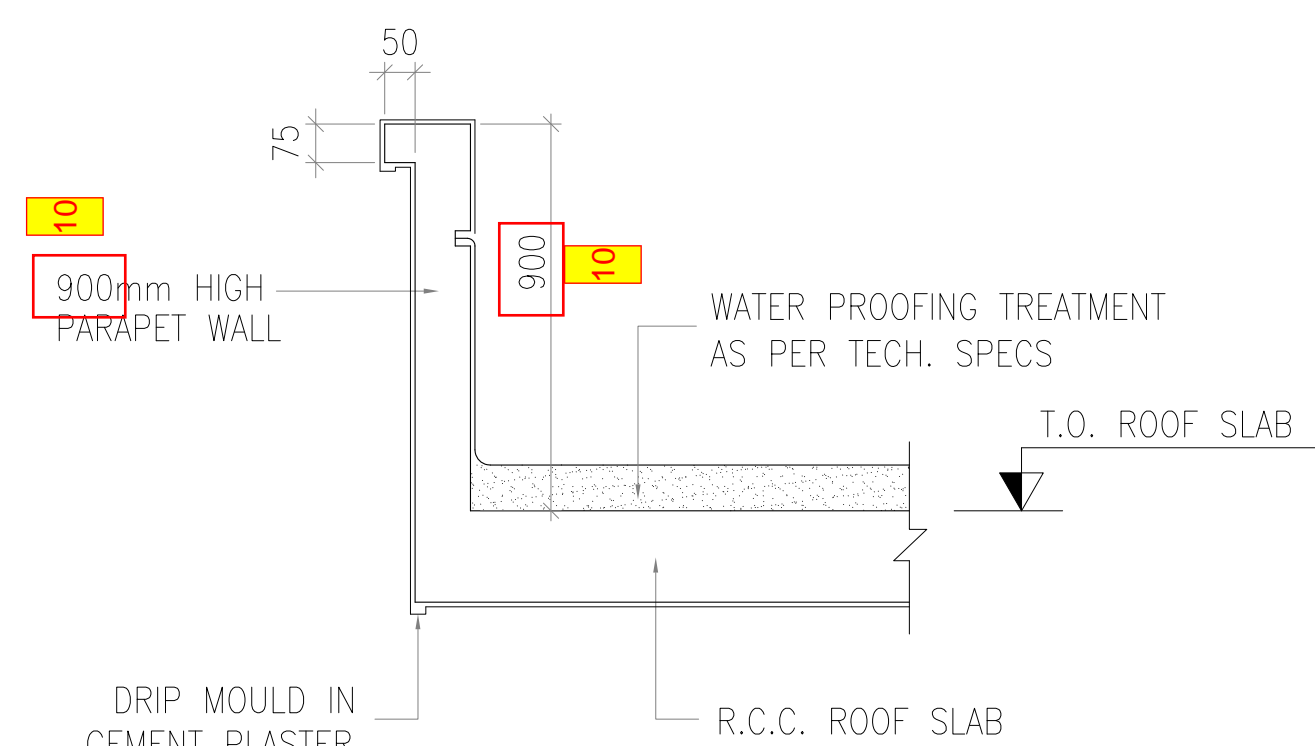
- 5.1 INSIDE FACES OF BRICK WALL WILL HAVE 2-COATS OF ACRYLIC EMULSION PAINT IN ALL AC AREA, ACRYLIC DISTEMPER IN ALL OTHER AND IN TOILET WILL HAVE ABOVE DADO WHITE WASH.
- 5.2 OUTSIDE FACES OF WALL BE PREMIUM ACRYLIC SMOOTH EXTERIOR PAINT OVER PLASTER SURFACE.
- 5.3 CEILING TO HAVE 2 COATS OF WHITE WASH, IN BATTERY RM HAVE ACID RESISTANT PAINT.

CA NO.												
ADDITIONAL INFORMATION W.O.No.		भारतक/परियोजना का नाम		PATRATU VIDYUT UTPADAN NIGAM LTD.								
STATUS OF DRAWING		NAME OF CUSTOMER/PROJECT		PATRATU SUPER THERMAL POWER PROJECT EXPANSION PHASE-I (3x800 MW)								
DISTRIBUTION OF PRINTS		<div><div></div><div>भारत हेवी इलेक्ट्रिकल्स लिमिटेड भारत भारीयोजना विभाग BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION</div></div>		कक्षा/ DRAWING NS		नाम / NAME NS		हस्ता. / SIGN. NS		दि./DATE 29-03-19		
REV. R1	DATE	DRN	TR	मिमाणा DEPT.	 अनुपात / SCALE	कार्ड कोड CARD CODE	प्रजा CHECKED SKS		स्वीकृत APPROVED AG		दि./DATE 29-03-19	
	06.06.19	CHECKED	TR	कोड CODE			AG		AG		29-03-19	
		APPROVED	DU/VC BVG/PLK									
ZONE	REVISED AS PER COMMENTS			शीर्षक/TITLE			द्वारिका,क./BHEL DRAWING NO.				पुनः/REV.	
				SWITCHYARD CONTROL ROOM BUILDING-ARCHITECTURAL PALN & ELEVATION-FIRST FLOOR PLAN			9585-001-572-PVC-C-04-97				02	
							पृष्ठ क्र./SHEET No. 02		उगमा पृष्ठ/NEXT SHEET 03			

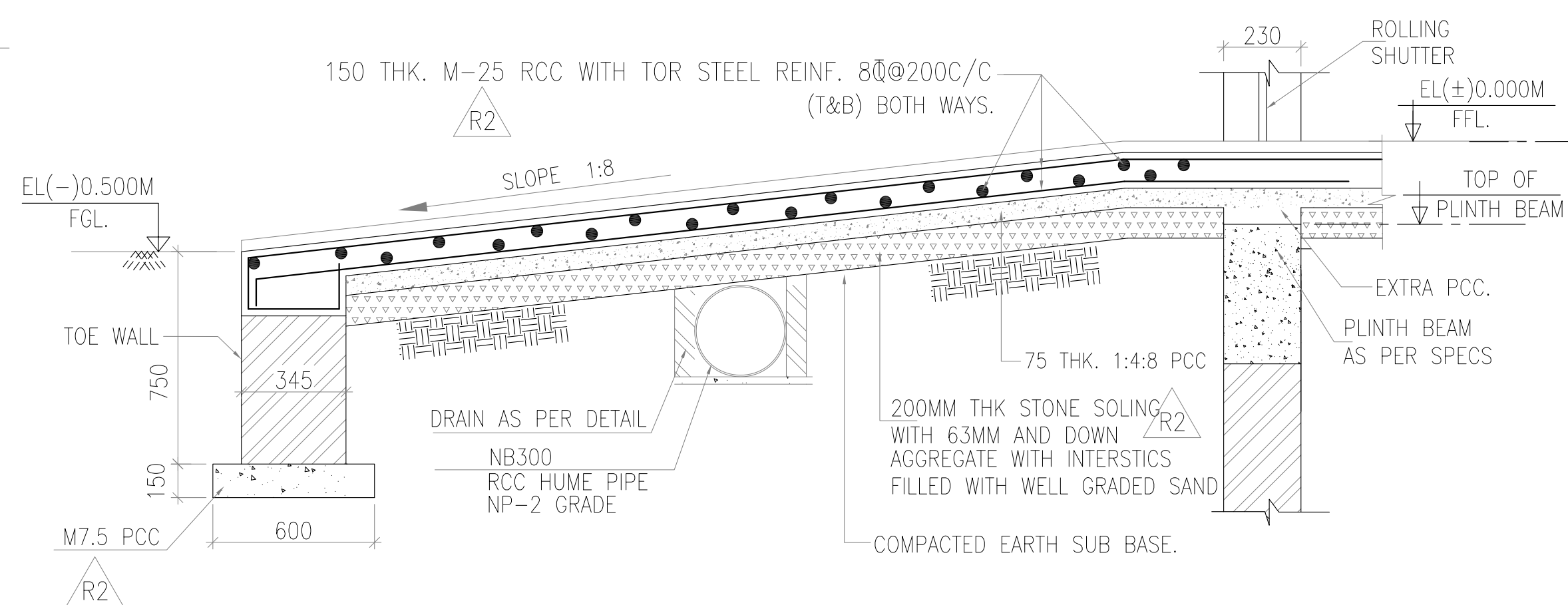
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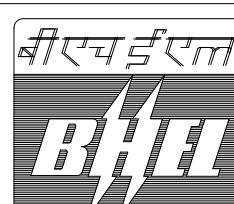
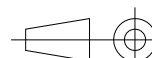
PLINTH PROTECTION ALONG BUILDING WITH DRAIN—TYPICAL



TYP. DETAIL OF PARAPET



DETAIL OF RAMP

CA NO.								
ADDITIONAL INFORMATION W.O.No.		ग्राहक/परियोजना का नाम		PATRATU VIDYUT UTPADAN NIGAM LTD.				
STATUS OF DRAWING		NAME OF CUSTOMER/PROJECT		PATRATU SUPER THERMAL POWER PROJECT EXPANSION PHASE-I (3x800 MW)				
DISTRIBUTION OF PRINTS		<div><div>भारत हेवी इलेक्ट्रिकल्स लिमिटेड भारतीय भारी बिजलीयोजना निगम BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION</div></div>		<div>कसठा DRAWN नाम / NAME NS हस्ता /SIGN. NS दि./DATE 29-03-19</div>				
REV.	DATE	DRN	TR	सिमा DEPT.	 अनुपात / SCALE	कॉड कोड CARD CODE	ड्राईंग.नं./BHEL DRAWING NO.	पुनः/REV.
R1	06.06.19	DESIN	TR	कोड CODE			TB-1-397-607-640	02
ZONE		REVISED AS PER COMMENTS		शीट/TITLE		पुनः/REV.		
				SWITCHYARD CONTROL ROOM BUILDING-ARCHITECTURAL PALN & ELEVATION-TERRACE PLAN		पुनः/REV.		
				9585-001-572-PVC-C-0497		02		
				पृष्ठ नं./SHEET No.03		उगला पृष्ठ/NEXT SHEET 04		

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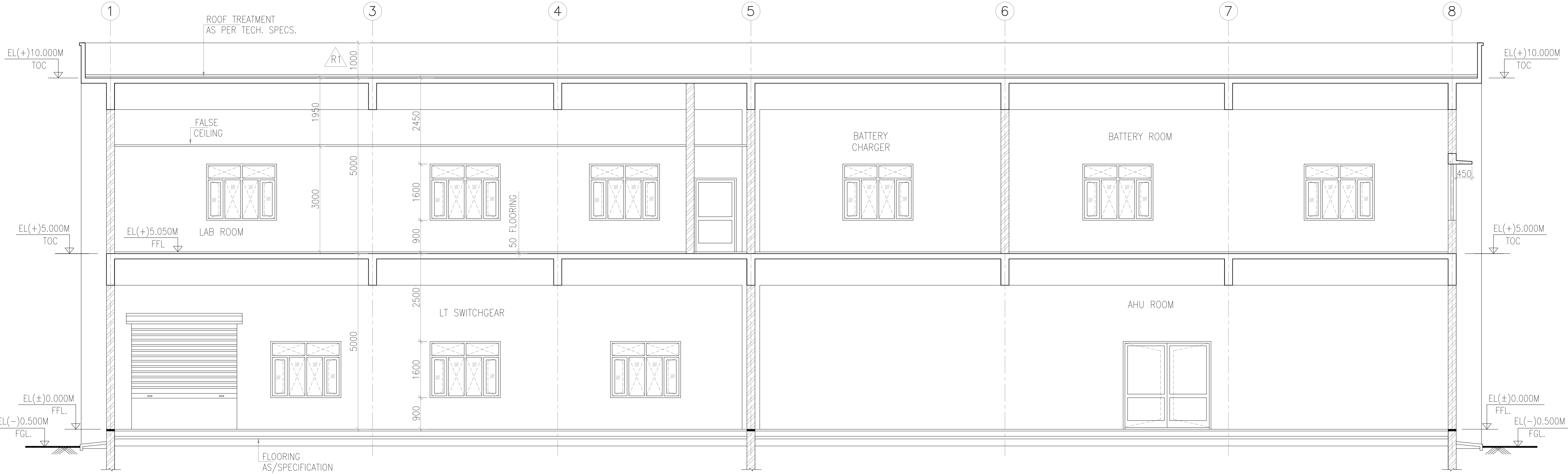
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REF. DRG. No.

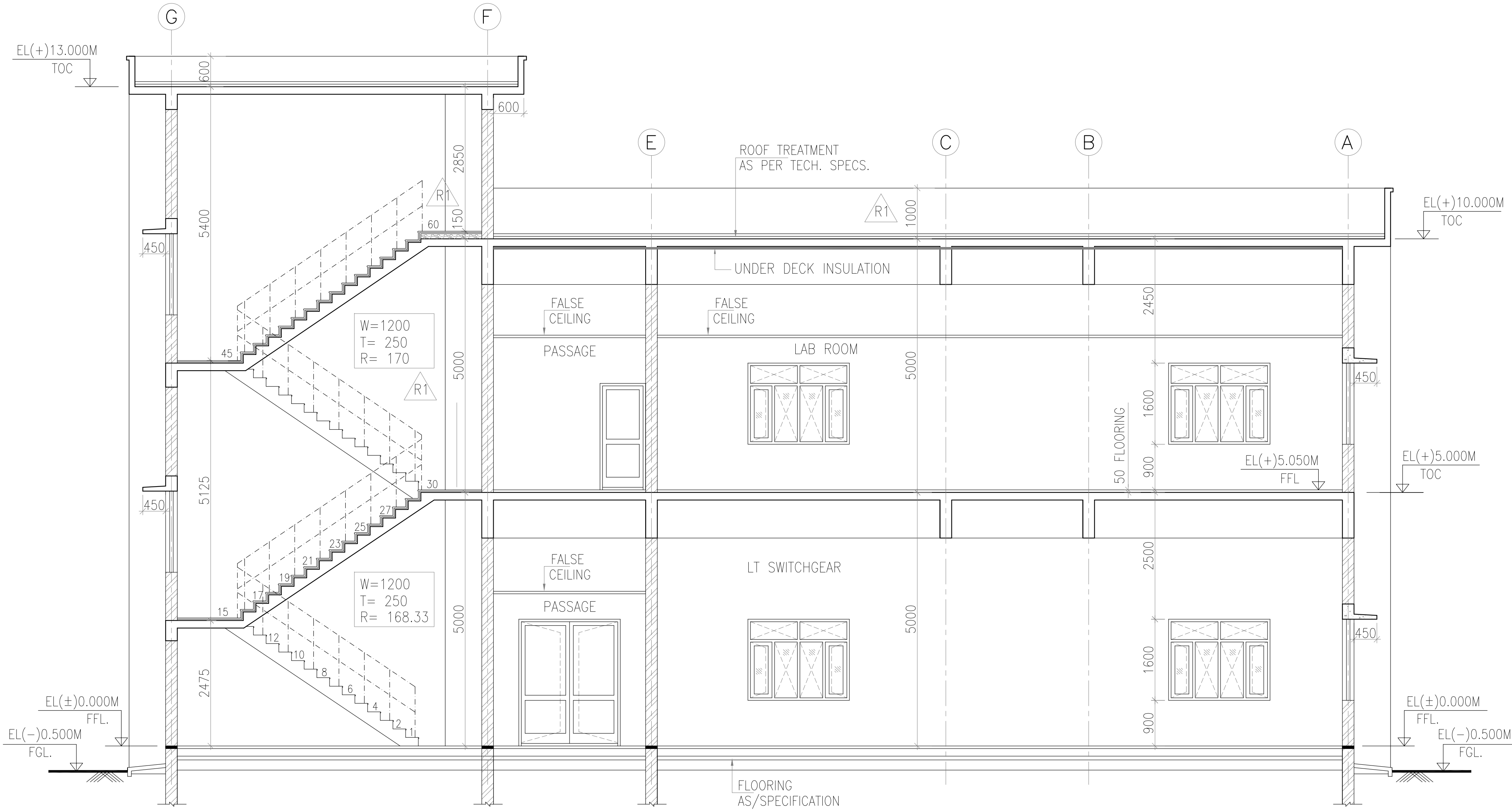
SIGN. & DATE

INVENTORY No.

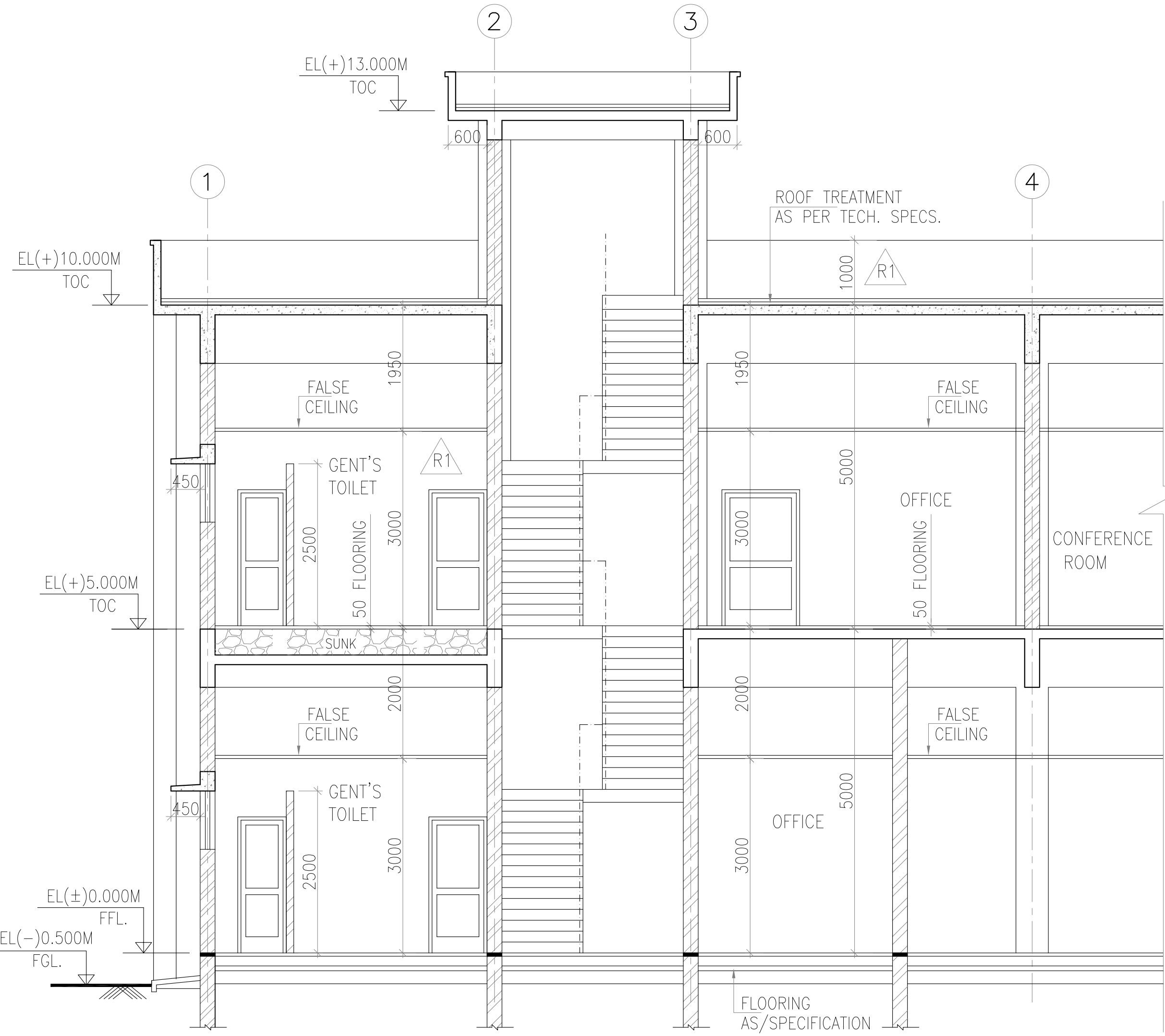
DRAWING No. 9585-001-572-PVC-C-0497



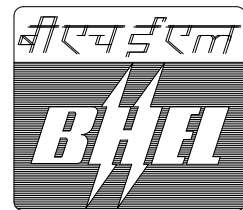

SECTION A-A






SECTION B-B




SECTION C-C

CA NO.											
ADDITIONAL INFORMATION W.O.No.				आवक/परियोजना का नाम				PATRATU VIDYUT UTPADAN NIGAM LTD. PATRATU SUPER THERMAL POWER PROJECT EXPANSION PHASE-I (3x800 MW)			
STATUS OF DRAWING				NAME OF CUSTOMER/PROJECT							
DISTRIBUTION OF PRINTS						भारत हेवी इलेक्ट्रिकल्स लिमिटेड भारतीयभानु परियोजना विभाग BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION				कमरा DRAWN NS	



CA No.											
ADDITIONAL INFORMATION W.O.No.		ग्राहक/परियोजना का नाम PATRATU VIDYUT UTPADAN NIGAM LTD. STATUS OF DRAWING PATRATU SUPER THERMAL POWER DISTRIBUTION OF PRINTS PROJECT EXPANSION PHASE-I (3x800 MW)									
DISTRIBUTION OF PRINTS				भारत हेवी इलेक्ट्रिकल्स लिमिटेड भारतीय भारियोजना विभाग BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION			अनुपात / SCALE	कॉड कोड CARD CODE	ड्राईंग.क्र./BHEL DRAWING NO. TB-1-397-607-640	पृष्ठ/REV. 02	
REV.	DATE	DRN	TR	विभाग DEPT.		अनुपात / SCALE	कॉड कोड CARD CODE	ड्राईंग.क्र./BHEL DRAWING NO. TB-1-397-607-640	पृष्ठ/REV. 02		
R1	06.06.19	DRN CHECKED APPROVED	TR DESIGN DU/G/PLK	कोड CODE							
ZONE		REVISED AS PER COMMENTS		शीट का/TITLE SWITCHYARD CONTROL ROOM BUILDING-ARCHITECTURAL PALN & ELEVATION-ARCHITECTURAL ELEVATIONS		ड्राईंग.क्र./NTPC DRAWING NO. 9585-001-572-PVC-C-0497		पृष्ठ/REV. 02			
						पृष्ठ क्र./SHEET No. 05		उग्राता पृष्ठ/NEXT SHEET 06			

[illegible]

	BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION	
CUSTOMER	PATRATU VIDYUT UTPADAN NIGAMLTD. (PVUNL) (A SUBSIDIARY OF NTPC IN JOINT VENTURE WITH JBVNL)	
PROJECT	400KV GIS AT PATRATU SUPER THERMAL POWER PROJECT EXPANSION PHASE-I (3 X 800 MW)	
UNIT:	SWITCHYARD CONTROL ROOM BUILDING ARCHITECTURAL PLAN & ELEVATION	
DRG. NO.:	9585-001-572-PVC-C-0497-01	R1

REPLY TO COMMENTS

Date: 02-11-2019

SL. NO.	Comments	Reply
<u>SHEET-1</u>		
1.	mark toilet with functional spaces	For Toilet Detail Ref. Separate Drawing.
2.	1790.465E 1509.240N	Incorporated.
<u>SHEET-2</u>		
3.	remove hadi. Toilet	Incorporated.
4.	CHECK AS NO SUPPORT HAS BEEN INDICATED IN GROUND FLOOR PLAN FOR THIS PLATFORM.	Incorporated.
5.	mark as per technical specification	Incorporated.
6.	mark as per technical specification	Incorporated.
7.	mark exterior and interior finish with color shades	Incorporated.
8.	mark type of glass	Incorporated.
<u>SHEET-3</u>		
9.	M7.5	Incorporated.
10.	25	Incorporated.
11.	50MM THICK DPC IN CEMENT CONCRETE (1:1.5:3) WITH WATER PROOFING COMPOUND FOLLOWED BY TWO LAYERS OF BITUMNE COATING 85/25 GRADE AS PER IS:702 @1.7 KG/M SHALL BE PROVIDED AS PLINTH LEVEL BBEFORE STARTING MASONARY WORK.	Incorporated.

SL. NO.	Comments	Reply
12.	200MM THICK STONE SOLING WITH 63MM AND DOWN AGGREGATE WITH INTERSTICES FILLED WITH WELL GRADED SAND.	Incorporated.
13.	Also indicate details of Pre cast cover	Refer Civil Drawings.
14.	M10	Incorporated.
15.	50X50X6MM ANGLES WITH EFFECTIVE ANCHOR LUGS	Incorporated.
16.	75 THK DRY BRCK AGGREGATE AS PER SPECIFICATON	Incorporated.
17.	FLOOR FINISH AS PER TECH SPEC.	Incorporated.
18.	PERFORATED PRECAST RCC COVER OF THK. 50MM (MIN.) WITH PROVISION OF 40MM THICK GALVANIZED STEEL GRATING COVERS AT ABOUT 10M INTERVAL.	Incorporated.
19.	RCC DRAIN	Incorporated.
20.	M7.5	Incorporated.
	<u>SHEET-4</u>	
21.	the last level of stairs landing shall be higher than finish roof level , to stop ingress of water	Incorporated.
22.	1000	Incorporated.
23.	1000	Incorporated.
24.	mark under deck insulation	Incorporated.
25.	1000	Incorporated.
	<u>SHEET-6</u>	
26.	mark reflected false ceiling plan, mark toilet details	Refer Vendor's Drawings.